



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Greene County BOE

Prepared By:
James Shumpert
MS Forestry Commission

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-17

Plan Type:
Stewardship / Stewardship

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

Property Name: S16 - T2N - R5W

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

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LANDOWNER INFORMATION

Name: Greene County BOE
Mailing Address: 528 West Oak Street
City, State, Zip: Leakesville, MS 39451
Country: United States of America
Contact Numbers: Home Number:
Office Number: 601-394-2364
Fax Number: 601-394-5542

E-mail Address:
Social Security Number (optional): 646000392

FORESTER INFORMATION

Name: James Shumpert , Service Forester
Forester Number: 02470
Organization: MS Forestry Commission
Street Address: P.O. Box 428
City, State, Zip: Leakesville , MS 39451
Contact Numbers: Office Number: 601-394-2785
Fax Number: 601-947-2947

E-mail Address: jshumpert@mfc.state.ms.us

PROPERTY LOCATION

County: Greene Total Acres: 661 Latitude: -88.49 Longitude: 31.14
Section: 16 Township: 2N Range: 5W

DISCLAIMER

This information was derived from a small sampling of the forest resources. It reflects a statistical estimation that is only intended to be accurate enough for the purposes of making decisions for the short-term management of these resources. These estimations are temporally static. Events and circumstances may occur within the survey area that will physically alter the forest resources and therefore will not be reflected in this plan.

INTRODUCTION

This Forest Stewardship Management Plan will serve as a guide for accomplishing the goals and objectives for your property. In addition to addressing your specific goals and objectives, this plan includes recommendations for maintaining soil and water quality and protecting your forest from insects, disease, and wildfire. Recommendations are based on observation and assessment of the site.

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OBJECTIVES

Timber Production

The goal is to produce high quality sawtimber. This will be accomplished through reforestation and timber stand improvement practices such as herbicide applications, prescribed burning, thinning at specified intervals, and other silvicultural practices. Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

Wildlife Management - General

The goal is to provide a diversity of habitats suitable for a variety of game and non-game wildlife species. Habitat management will focus on developing a variety of food, cover, water, and space. This will be accomplished by establishing and maintaining access roads and firelanes, providing openings within the forest, and the management of trees located within the Streamside Management Zone.

PROPERTY DESCRIPTION

General Property Information

The section is located south of Leakesville, just east of Hwy. 63. The access to this section is from Sand Spring Loop Road off Hwy. 63, then travel down Grimes Road off of Sand Spring Loop Road. The section has a good network of woods roads throughout it. The access to the east side of Faulk Ditch is a woods road coming off the Jay Shepherd Road.

The section is comprised of stands of sawtimber, pulpwood, and hardwood drains. The pine sawtimber stands are comprised of a mix of natural longleaf, slash, and loblolly pines. The pine pulpwood stands consists of a mixture of seeded longleaf and planted loblolly. The hardwood drains consists of slash pine sawtimber and a mix of hardwood sawtimber and pulpwood species. These areas represent a total of ± 646 forested acres in timber management. In addition, the section has ± 23 non-forested acres that are made up of leased fields, residential leases, dirt pits, and roads that are located just off the southern boundary with no forest management activities planned for them.

Water Resources

Sand Creek or Faulk Ditch flows across the property from the southeast toward the northwest. There are no crossing on this creek. This creek essentially divides the section into. Perennial and intermittent streams and drains identified will be managed in accordance with Mississippi's Best Management Practices.

Archeological and Cultural Resources

These areas can range from churches, old cemeteries, or Indian mounds to old home sites or other areas of historical significance.

No Archeological or Cultural resources were identified during a reconnaissance of the property. However, if Archeological or Cultural resources are discovered anytime on the property special managements measures will be applied immediately in order preserve these sensitive areas.

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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

The property was evaluated for the presence of threatened and endangered (T&E) species. Evidence of gopher tortoises was found on portions of this property. A more intense survey should be conducted to identify all gopher tortoise burrows within the boundaries of the property. Management activities should be designed and implemented to protect this species where the tortoise burrows are found.

Interaction with Surrounding Property

Prescribed practices should be carried out in a manner that will minimize adverse impacts on surrounding properties. Consideration should be given to potential air, water, visual, and other impacts. In addition, practices carried out should have positive effects on the surrounding community such as improved wildlife habitat and soil stabilization.

Soils General

Soils were evaluated on the property to determine the suitability of the site for the proposed activities. Forest practices were planned so as to minimize erosion or other adverse effects on the soil. Soils on this section are mostly sandy loam.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

A healthy vigorously growing stand is the best defense to an attack from a variety of forest insects, plants, and pathogens.

Insects and Diseases

Trees are subject to attack from insects and diseases. Different insects and diseases affect trees according to the age, species, and condition of the trees. Planted stands of pines and pure stands of hardwoods are particularly susceptible to attack. Since there are many different insects and diseases, no attempt will be made here to explain all of them. The property should be inspected at least annually for possible signs of insect and disease activity. Some things to look for are:

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

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

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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.

Cogongrass Control

Cogongrass is present on every School Trust section in Greene County. While it appears that total eradication of this invasive species is impossible, every precaution must be made to prevent further spread. Treatment costs for cogongrass control are not addressed in the activities portion of this plan due to the uncertainty of the extent of cogongrass infestation on each section. An assessment is now being made to determine the best way to treat this problem.

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. Streamside management zones will be maintained along all creeks and major drains to prevent sedimentation. Water diversions will be used where needed to prevent erosion.

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.

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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.

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.

STANDS

1-1-P-RP-6-U (12 Acres)

Stand Description

The stand was an abandoned hay field that was no longer being leased. The field was planted with loblolly in 2005. The stand has an average of 500 trees per acre.

Stand Recommendations

The stand is recommended to serve as cover for wildlife.

The stand has no timber harvesting activities recommended for the duration of this plan.

3-3-M-ST-53-U (26 Acres)

Stand Description

The stand consists of mixture of natural longleaf, slash, and loblolly pine sawtimber with some scattered red oaks, turkey oaks, dogwoods, and other various hardwood species that was originated in 1958. The soils on the site are made up of a sandy loam. The stand has an average DBH of 10, with a basal area of 64, and 110 trees per acre.

Stand Recommendations

The stand is recommended to have a final harvest conducted on it in 2019. Once, all of the merchantable timber has been removed the stand needs to have a chemical site preparation, then be burned to remove all debris from the site, and planted with either longleaf or loblolly pine seedlings in 2021.

Activity Recommendations

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Harvest

The stand should have a final harvest conducted on it in 2019 and remove all merchantable timber.

Site Preparation

The stand is recommended to have an aerial application of herbicides applied in the summer prior to replanting. The application of herbicide will reduce the amount of competing vegetation on the stand, which will provide an establishment period for the pine seedling that will be planted the following winter.

Site Preparation

The stand should be burned six to eight weeks after the chemical application has been applied to reduce debris that may impede tree planting.

Regeneration

The site will be planted during January of 2021 with genetically improved loblolly or containerized longleaf pine seedlings on a 6 by 12 foot spacing with a target of 605 trees per acre.

4-2-M-PW-51-B (2 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

5-4-M-PW-30-U (208 Acres)

Stand Description

The stand is comprised of a mix of direct seeded longleaf and planted loblolly pine. The longleaf was seeded in 1978 and the loblolly was planted in 1981. The stand is in the pulpwood product class; however, not that dense yet. The soils on the stand are mainly a

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sandy loam. The stand has an average DBH of 7, with a basal area of 92, and 270 trees per acre.

Stand Recommendations

The stand is recommended to be thinned in 2019. A prescribe burn should be carried out every three or four years to control undesirable vegetation and hardwood species.

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.

The stand is recommended to have a prescribe burn conducted in 2018 and to reduce the amount of debris, undesirable vegetation, and hardwood completion.

Harvest

The stand should be thinned in 2019 to reduce the basal to 60 and leave about 170 trees per acre.

6-6-M-ST-53-U (112 Acres)

Stand Description

The stand consists of mixture of natural longleaf, slash, and loblolly pine sawtimber with some scattered red oaks, turkey oaks, dogwoods, and other various hardwood species that was originated in 1958. The soils on the site are made up of a sandy loam. The stand has an average DBH of 10, with a basal area of 64, and 110 trees per acre.

Stand Recommendations

The stand is recommended to have a final harvest conducted on it in 2021. Once, all of the merchantable timber has been removed the stand needs to have a chemical site preparation and planted with either longleaf or loblolly pine seedlings in 2023.

Activity Recommendations

Harvest

The stand should have a final harvest conducted on it in 2021 and remove all merchantable timber.

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7-2-M-PW-51-B (9 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

8-5-M-ST-53-U (81 Acres)

Stand Description

The stand consists of mixture of natural longleaf, slash, and loblolly pine sawtimber with some scattered red oaks, turkey oaks, dogwoods, and other various hardwood species that was originated in 1958. The soils on the site are made up of a sandy loam. The stand has an average DBH of 10, with a basal area of 64, and 110 trees per acre.

Stand Recommendations

The stand is recommended to have a final harvest conducted on it in 2017. Once, all of the merchantable timber has been removed the stand needs to have a chemical site preparation, then be burned to remove all debris from the site, and planted with either longleaf or loblolly pine seedlings in 2020.

Activity Recommendations

Harvest

The stand should have a final harvest conducted on it in 2017 and remove all merchantable timber.

Site Preparation

The stand is recommended to have an aerial application of herbicides applied in the summer prior to replanting. The application of herbicide will reduce the amount of competing vegetation on the stand, which will provide an establishment period for the pine seedling that will be planted the following winter.

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Site Preparation

The stand should be burned six to eight weeks after the chemical application has been applied to reduce debris that may impede tree planting.

Regeneration

The site will be planted during January of 2020 with genetically improved loblolly or containerized longleaf pine seedlings on a 6 by 12 foot spacing with a target of 605 trees per acre.

9-2-M-PW-51-B (111 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

10-5-M-ST-53-U (10 Acres)

Stand Description

The stand consists of mixture of natural longleaf, slash, and loblolly pine sawtimber with some scattered red oaks, turkey oaks, dogwoods, and other various hardwood species that was originated in 1958. The soils on the site are made up of a sandy loam. The stand has an average DBH of 10, with a basal area of 64, and 110 trees per acre.

Stand Recommendations

The stand is recommended to have a final harvest conducted on it in 2017. Once, all of the merchantable timber has been removed the stand needs to have a chemical site preparation, then be burned to remove all debris from the site, and planted with either longleaf or loblolly pine seedlings in 2020.

Activity Recommendations

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Harvest

The stand should have a final harvest conducted on it in 2017 and remove all merchantable timber.

Site Preparation

The stand is recommended to have an aerial application of herbicides applied in the summer prior to replanting. The application of herbicide will reduce the amount of competing vegetation on the stand, which will provide an establishment period for the pine seedling that will be planted the following winter.

Site Preparation

The stand should be burned six to eight weeks after the chemical application has been applied to reduce debris that may impede tree planting.

Regeneration

The site will be planted during January of 2020 with genetically improved loblolly or containerized longleaf pine seedlings on a 6 by 12 foot spacing with a target of 605 trees per acre.

11-6-M-ST-53-U (75 Acres)

Stand Description

The stand consists of mixture of natural longleaf, slash, and loblolly pine sawtimber with some scattered red oaks, turkey oaks, dogwoods, and other various hardwood species that was originated in 1958. The soils on the site are made up of a sandy loam. The stand has an average DBH of 10, with a basal area of 64, and 110 trees per acre.

Stand Recommendations

The stand is recommended to have a final harvest conducted on it in 2020. Once, all of the merchantable timber has been removed the stand needs to have a chemical site preparation and planted with either longleaf or loblolly pine seedlings in 2022.

Activity Recommendations

Harvest

The stand should have a final harvest conducted on it in 2020 and remove all merchantable timber.

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OTHER PLAN ACTIVITIES

Boundary Lines

Line Recommendations

The section's boundary lines are well established and recommended to be maintained on a five year rotation.

Activity Recommendations

Property Activities

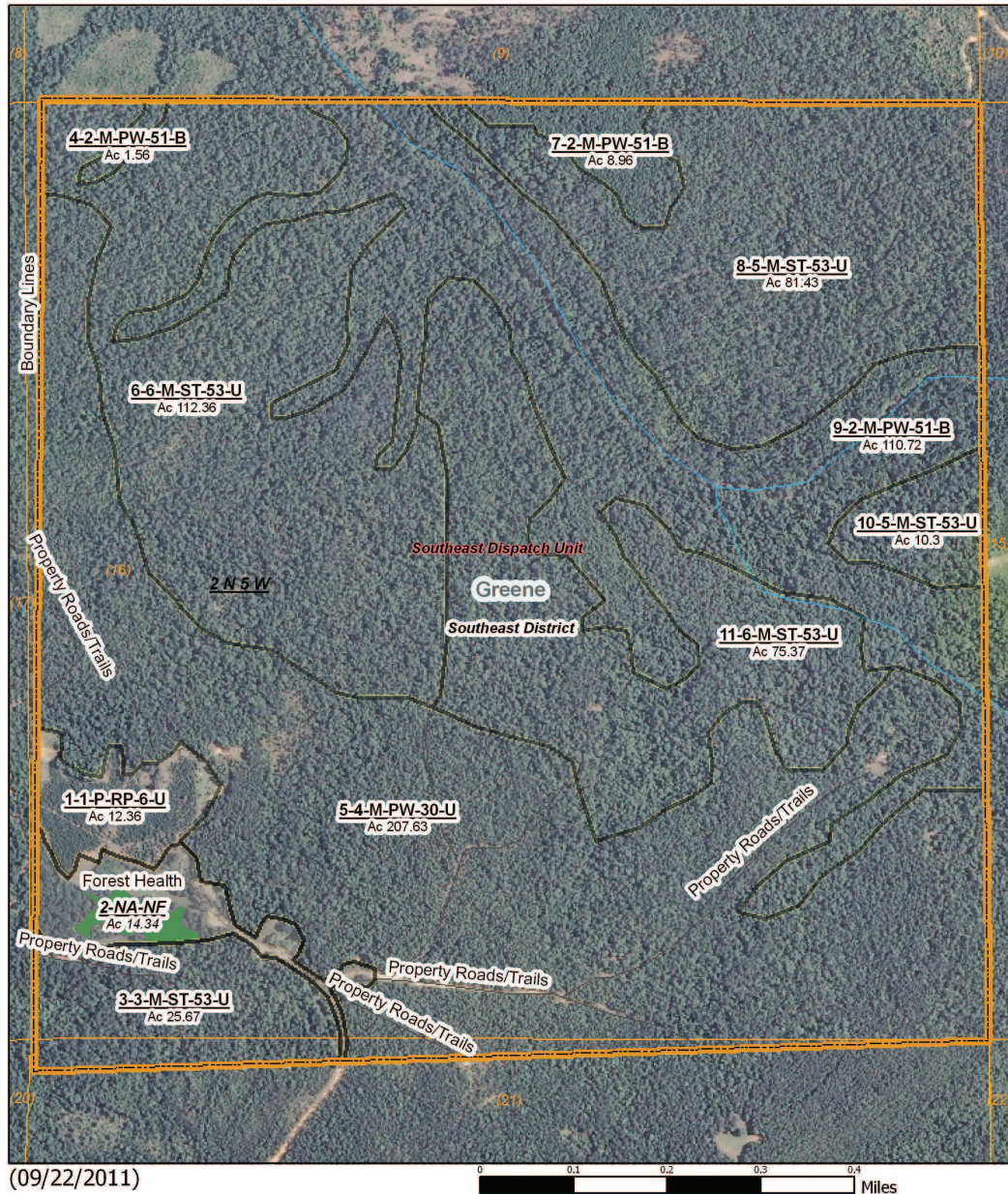
The boundary line will be painted in 2014, 2019, and will be maintained on a 5 year cycle. Routine inspections and general maintenance of the boundary lines will ensure overall appearance and aesthetics of the property.

Map 1



Section 16, Township 02 North, Range 05 West

Ed Grimes Place
2012 to 2021
660.68 Acres



Map 2



Section 16, Township 02 North, Range 05 West

Ed Grimes Place
2012 to 2021
660.68 Acres



(09/22/2011)

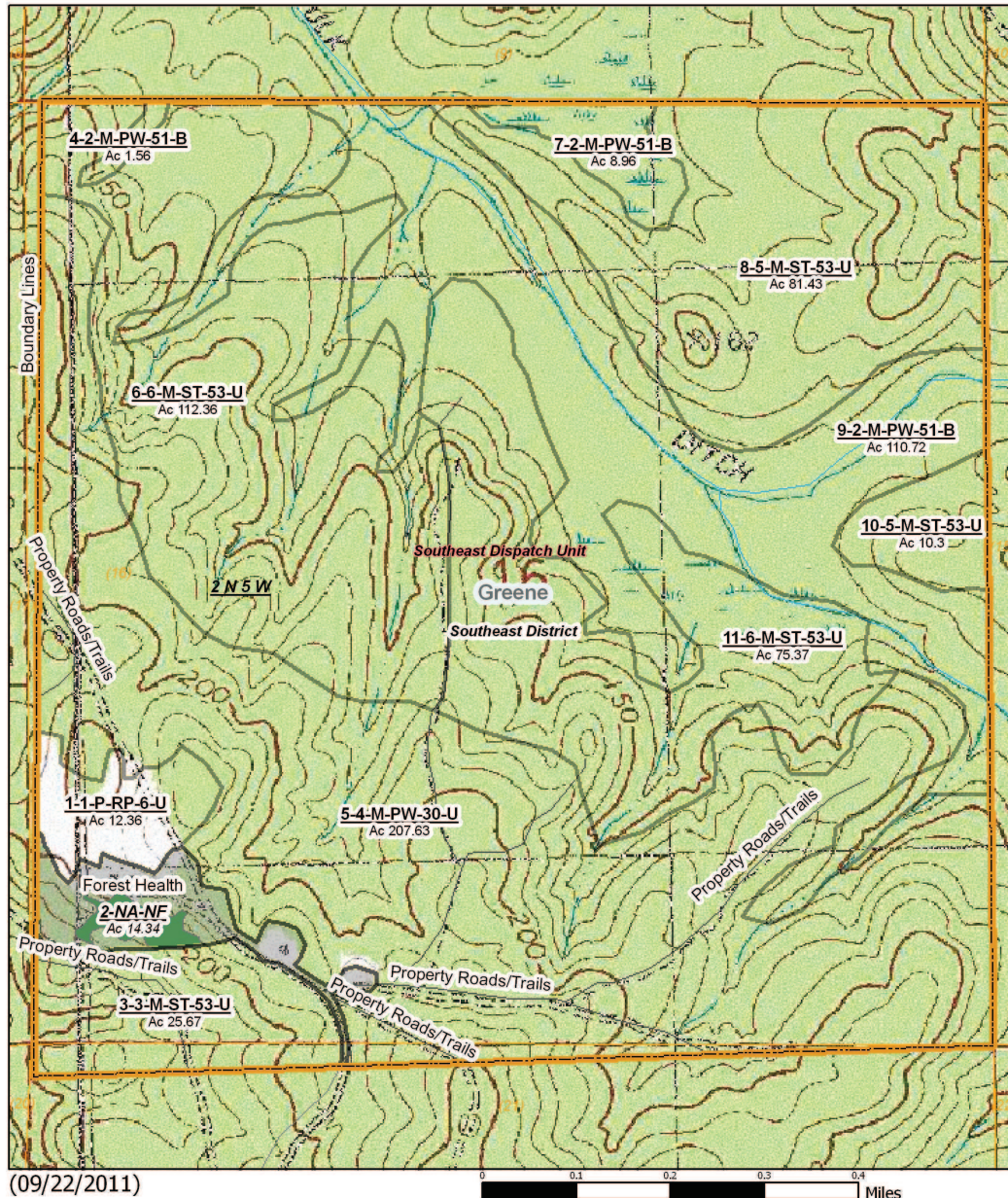


Map 3



Section 16, Township 02 North, Range 05 West

Ed Grimes Place
2012 to 2021
660.68 Acres



Legend



Section 16, Township 02 North, Range 05 West

Property

Property (1)

Category 1: Stands

Reproduction (1)
 Sawtimber (5)
 Pulpwood (4)

Category 3: Non-Forest Stands

Non-Forest (1)

Property Roads/Trails

Access Road (7)

Boundary Lines

Property (1)

Forest Health (Polygons)

Cogan Grass (1)

MFC Basemap

County Boundary

County Boundary (1)

Quadrangle Grid

USGS Quad (2)

PLS Townships

PLS Townships (1)

Survey Districts

District 5 (1)

Blockgroup (Census 2000)

Blockgroup (Census 2000) (1)

Block (Census 2000)

Block (Census 2000) (2)

Tract/BA (Census 2000)

Tract/BA (Census 2000) (1)

County Roads

County Roads (2)

School Sections

School Sections (1)

Public School Districts

GREENE COUNTY SCHOOL DISTRICT (1)

US Congressional District

US Cong Dist #4 (1)

MS Senate

43 (1)

MS House

105 (1)

Perennial Streams

Perennial Streams (3)

Hydrologic Units (Basins)

LOWER CHICKASAWHAY RIVER (1)

Historic Forest Boundary

Longleaf Pine with Loblolly Pine-Slash Pine (1)

MS Forest Habitat

SOUTHERN LOAM HILLS-GENTLE TOPOGRAPHY (1)

Physiographic Region

Pine Belt (1)

Soil Associations

mclaurin-heidel-prentiss (1)
 mclaurin-savannah-susquehanna (1)

Surface Geology

PASCAGOULA/HATTIESBURG (1)

MFC Districts

MFC Districts (1)

MFC Dispatch Units

MFC Dispatch Units (1)

MS Outline

MS Outline (1)

Stand Activity Schedule for
Greene County BOE
16 2N 5W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2017					
5	8	Harvest, Mechanical, Final, Machine, Slash	81	\$2,835.00	\$97,724.88
5	10	Harvest, Mechanical, Final, Machine, Loblolly	10	\$350.00	\$11,613.40
Yearly Totals			91	\$3,185.00	\$109,338.28
2018					
4	5	Fire Protection, Other, Burn, Hand, Fuel Reduction	208	\$5,200.00	\$0.00
Yearly Totals			208	\$5,200.00	\$0.00
2019					
3	3	Harvest, Mechanical, Final, Machine, Slash	26	\$910.00	\$31,368.48
4	5	Harvest, Mechanical, 1st Thin, Machine, Loblolly	208	\$7,280.00	\$81,652.48
Yearly Totals			234	\$8,190.00	\$113,020.96
2020					
5	8	Site Preparation, Other, Burn, Hand, Debris	81	\$2,035.75	\$0.00
5	8	Site Preparation, Chemical, Broadcast, Aerial, Combination	81	\$7,290.00	\$0.00
5	8	Regeneration, Artificial, Plant, Hand, Longleaf	81	\$12,150.00	\$0.00
5	10	Site Preparation, Other, Burn, Hand, Debris	10	\$250.00	\$0.00
5	10	Regeneration, Artificial, Plant, Hand, Longleaf	10	\$1,500.00	\$0.00
5	10	Site Preparation, Chemical, Broadcast, Aerial, Combination	10	\$900.00	\$0.00
6	11	Harvest, Mechanical, Final, Machine, Misc Pine	75	\$2,625.00	\$90,486.00
Yearly Totals			348	\$26,750.75	\$90,486.00
2021					
3	3	Site Preparation, Chemical, Broadcast, Aerial, Combination	26	\$3,120.00	\$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
3	3	Site Preparation, Other, Burn, Hand, Debris	26	\$650.00	\$0.00
3	3	Regeneration, Artificial, Plant, Hand, Longleaf	26	\$4,290.00	\$0.00
6	6	Harvest, Mechanical, Final, Machine, Misc Pine	112	\$3,920.00	\$135,125.76
Yearly Totals			190	\$11,980.00	\$135,125.76
Grand Totals			1.071	\$55,305.75	\$447,971.00