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FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
George County BOE

Prepared By:
Vernon Eugene Cooper
MFC

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-21

Plan Type:
Stewardship / Stewardship

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

Property Name: S 16 T1S R7W

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LANDOWNER INFORMATION

Name: George County BOE
Mailing Address: 5152
Main St.
City, State, Zip: Lucedale, MS 39452
Country: United States of America
Contact Numbers: Home Number:
Office Number: 601-947-6993
Fax Number:
E-mail Address:
Social Security Number (optional): 646000379

FORESTER INFORMATION

Name: Vernon Eugene Cooper , Service Forester
Forester Number: 00960
Organization: MFC
Street Address: 1165
Fig Farm Rd.
City, State, Zip: Lucedale, MS 39452
Contact Numbers: Office Number: 601-947-4961
Fax Number:
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PROPERTY LOCATION

County: George Total Acres: 644 Latitude: -88.69 Longitude: 30.96
Section: 16 Township: 1S Range: 7W

DISCLAIMER

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

INTRODUCTION

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

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OBJECTIVES

Timber Production

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

Wildlife Management - General

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

PROPERTY DESCRIPTION

General Property Information

This section located in north-central portion of the George County in the Bexley community. The section is bisected by several county roads which provide excellent access to all of the section.

The section is comprised of multiple age stands with the majority being made up of mixed longleaf, shortleaf and slash pine being regenerated in 1956+. These stands comprise approximately 365 acres and were marked and harvested in 1995 removing one third of the standing volume.

There are 115 acres in 1988 Loblolly pine plantation that was first thinned in 2004. These stands will need to be thinned again during the duration of this plan.

The longleaf plantation contains 44 acres was planted in 1998 and is scheduled to be thinned in 2017.

The remaining timber acreage are largely in bottomlands with a mixed species composition of Slash pine, yellow-poplar, black gum, red maple, white bay and others and comprise 88+/- acres.

This section contains a total of +/- 644 acres of this +/- 36 acres are non-forested with no management activities currently planned, and +/- 608 acres are in timber production.

Cogon grass will be controlled as necessary on the section with harvest areas being a priority during the life of the plan.

Water Resources

No perennial water resources were identified during a reconnaissance of the property. However, intermittent streams and drains identified will be managed in accordance with Mississippi's Best Management Practices.

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Archeological and Cultural Resources

Prescribed practices should be carried out in a manner that will minimize adverse impacts on archeological and or cultural resources. All laws, regulations, and guidelines will be followed if such areas are identified, and all management practices will be carried out in a manner to have positive effects on these resources.

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.

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

Alaga

The Alaga component makes up 50 percent of the map unit. Slopes are 12 to 20 percent. This component is on coastal plains. The parent material consists of sandy alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. 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 7s. This soil does not meet hydric criteria. Generated brief soil descriptions are created for major components. The Mclaurin(heidel) soil is a minor component.

Susquehanna

The Susquehanna component makes up 90 percent of the map unit. Slopes are 12 to 17 percent. This component is on coastal plains. The parent material consists of clayey marine deposits. 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 very

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low. Available water to a depth of 60 inches is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. Loblolly Site Index = 78.

Benndale

The Benndale component makes up 85 percent of the map unit. Slopes are 5 to 12 percent. This component is on coastal plains. The parent material consists of sandy loam alluvium 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 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 3e. This soil does not meet hydric criteria. Loblolly Site Index = 94. Longleaf Site Index = 79. Slash Site Index = 94.

Mclaurin(heidel)

The Mclaurin(heidel) component makes up 85 percent of the map unit. Slopes are 8 to 12 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 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 4e. This soil does not meet hydric criteria. Loblolly Site Index = 90. Slash Site Index = 90.

McLaurin

The McLaurin component makes up 90 percent of the map unit. Slopes are 2 to 5 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 moderate. 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 2e. This soil does not meet hydric criteria. Loblolly Site Index = 90. Longleaf Site Index = 72. Slash Site Index = 90.

Dorovan

The Dorovan component makes up 63 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions. The parent material consists of decomposed organic material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very 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 frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 50

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percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria. The soil has a slightly sodic horizon within 30 inches of the soil surface. The Johnston component makes up 22 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 13 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

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

Insects and Diseases

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

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

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

Fire Protection

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

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Grazing

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

Boundary Lines

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

Note: Some forest practices may cause temporary adverse environmental or aesthetic impacts. These practices will only cause short-term adverse impacts where they are installed. Special efforts will be made to minimize adverse effects when carrying out any of the practices. Examples include: site preparation, planting, prescribed fires, firebreak installation and maintenance, road installation and maintenance, pesticide applications and timber harvesting.

Water Quality Protection

The objective of the landowner is to protect, preserve and enhance all water sources on or transecting the property. This can best be achieved by implementation of Best Management Practices in all aspects of the management of the property.

Aesthetics

The goal is to assure that the property is managed in such a way that is aesthetically pleasing to the landowner as well as the community. Activities could include, maintaining buffer strips along the road and adjacent to the home site, planting wildflowers along the road, and trees with attractive fall and spring color along the drive and near the home site.

Ecological Restoration

Ecological restoration is the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed. A reconnaissance of the property has been conducted and no ecological restoration activities are recommended at this time.

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.

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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

1-4-P-ST-55-U Stand acres 1

Stand Description

This stand is a small remainder that was left on east-side of the public road. It is comprised of old growth pine and oak with little or no regeneration containing approximately .75 acres.

Stand Recommendations

This stand location, size and shape makes it difficult to manage. All management activities regarding this stand will be included within the management activities on the adjacent stands located across the public road. This stand will be marked as part of a shelterwood harvest that will be done on two other stands adjacent to this stand.

Activity Recommendations

Harvest

A shelter wood harvest will be done on this stand in 2018. This will be a marked harvest of co-dominant, intermediate, and suppressed stems while leaving the dominant stems in the stand. This harvest will leave a residual stand of 35- 40 stems and basal area of 40-45.

3-4-P-ST-55-U Stand acres 10

Stand Description

The stand is natural slash, longleaf, and loblolly sawtimber that was originated in 1957. The stand also has a mix of pine, oaks and other hardwoods throughout it. The average DBH is 14 with a basal area of 75 and 142 trees per acre. The stand is in the saw timber product class, but also has some pine and hardwood pulpwood mixed in. The soils on the site are primarily sandy loam in nature.

Stand Recommendations

All management activities regarding this stand will be included within the management activities on the adjacent stands located across the public road. This stand will be marked

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as part of a shelterwood harvest that will be done in conjunction with operations on two other stands .

Activity Recommendations

Harvest

A shelterwood harvest will be done on this stand in the winter of 2018. This will be a marked harvest of co-dominant, intermediate and suppressed stems while leaving the dominant stems in the stand This harvest will leave a residual stand of comprised of 35 to 40 stems/ acre and a basal area of 40-45 square feet per acre.

4-1-M-ST-56-B Stand acres 60

Stand Description

This stand is a Smz with a species composition of Slash pine, red maple, black gum, white bay and tupelo gum making up the species composition of the stand. Access to the stand is limited to extreme dry periods any harvesting operations in the stand will done in conjunction with harvest on the adjoining stands.

Stand Recommendations

This stand will be harvested has part of other harvesting operations on adjoining stands removing timber that can be removed with minimum soil and water disturbance. This will mean harvesting all merchantable pine and hardwood but leaving a average basal area of 55 to 65 square feet in the residual stand . All MS. BMP's should be followed has regards to this stand. Wildlife enhancement and protection of the water quality should be maintained.

6-3-P-CS-27-U Stand acres 16

Stand Description

The stand was planted in 1984 in Loblolly pine plantation. The stand was thinned in the Winter of 2004/05 to a 65 basal area. This stand will be looked at for a possible thinning in 2018 toward the end of this management plan. This stand is part of a larger unit being approximately 115 acres in size all of which was thinned in Winter of 2004/05.

Stand Recommendations

This stand is scheduled to be thinned in 2018 but will be monitored to determine if a 2nd thinning is viable before this date. The stand will also be monitored for insect and disease in the stand.

Activity Recommendations

Harvest

The stand is a loblolly pine that was planted in 1987 and was thinned in 2004 the stand is now in the chip-n-saw product class. The stand will be in need of a second thinning and is set for the thinning in 2018.

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7-4-P-ST-55-U Stand acres 58

Stand Description

The stand is a upland pine stand containing approximately 58 acres. The stand composition is comprised of Longleaf, Loblolly, Shortleaf and mixed upland hardwoods primarily being sweetgum and southern red oak. The stand age is approximately 55 years old with estimated volume of 45 tons pine sawtimber and chipnsaw / acre. The topography of the stand is level to rolling. Soils are basically sandy loam in nature. Access to the stand is along adjacent county roads. This stand was also select harvested in 1995 with removal of 1/3 of timber volume.

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, and planted with either longleaf or loblolly pine seedlings in 2021.

Activity Recommendations

Harvest

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

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

This site will need to be planted in winter of 2021 with containerized longleaf seedlings. The seedlings will need to be planted at a rate of 544 seedlings per acre on a 8X10 spacing. The seedlings should be planted with no more than 3/8 of an inch of the plug exposed above the ground. The only time that more of the plug should be exposed is when seedling may possibly be covered by sediment due to runoff or because of site prep activities.

A plug bar should be used in planting seedlings but a dibble bar may be used when conditions are unfavorable for using the plug bar.

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8-4-P-ST-55-U Stand acres 106

Stand Description

This is primarily a upland longleaf pine stand sixty five acres in size. The average age of this stand is approximately 55 years old. This stand has a site index for longleaf of 85 and is a well drained upland site. The stand is composed of old growth longleaf timber and hardwoods with 45 tons of sawtimber per acre. The soils on this stand are made of mostly well drained making it operable year round.

Stand Recommendations

This stand location, size and shape makes it difficult to manage. All management activities regarding this stand will be included within the management activities on the adjacent stands located across the public road. This stand will be marked as part of a shelterwood harvest that will be done on two other stands adjacent to this stand.

Activity Recommendations

Harvest

A shelterwood harvest will be done on this stand in the winter of 2018. This will be a marked harvest of co-dominant, intermediate and suppressed stems while leaving the dominant stems in the stand This harvest will leave a residual stand of comprised of 35 to 40 stems/ acre and a basal area of 40-45 square feet.

9-4-P-ST-55-U Stand acres 65

Stand Description

This is primarily a upland longleaf pine stand sixty five acres in size. The average age of this stand is approximately 55 years old. This stand has a site index for longleaf of 85 and is a well drained upland site. The stand is composed of old growth longleaf timber and hardwoods with 45 tons of sawtimber per acre . The soils on this stand is made of mostly well drained making it operable year round.

Stand Recommendations

This 55 year old mixed pine stand should be harvested of all merchantable timber in fiscal year 2021. The stand then should be chemically site prepped, burned and planted with Loblolly or longleaf pine seedlings in the Winter of 2023.

Activity Recommendations

Harvest

This stand will be harvested of all merchantable timber in Fiscal Year 2021. This will be accomplished through the use of complete bid process and allowing the winning bidder 12 months to remove said timber.

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10-1-M-ST-56-B Stand acres 9

Stand Description

This stand is comprised of bottomland hardwoods primarily white bay, yellow poplar, black gum along with large old growth slash pine timber. All harvesting operations should be in conjunction with harvesting operation on adjacent stands. The stand should be protected from any soil erosion and all Ms. Bmp's should be followed.

Stand Recommendations

This stand will be harvested has part of other harvesting operations on adjoining stands removing timber that can be removed with minimum soil and water disturbance. This will mean harvesting all merchantable pine and hardwood but leaving a average basal area of 55 to 65 square feet in the residual stand . All MS. BMP's should be followed has regards to this stand. Wildlife enhancement and protection of the water quaility should be maintained.

12-1-M-ST-56-B Stand acres 2

Stand Description

The stand is made up of small drains. The stand was originated in 1955 with a timber type made up of primarily hardwood pulpwood with some scattered hardwood and pine sawtimber mixed in, which could be removed when weather conditions permit. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, and water oak. The stand has an average DBH of 12, with a basal area of 70, and 123 trees per acre.

Stand Recommendations

The stand is recommended to serve as a corridor to provide wildlife species food and cover.

11-1-M-ST-56-B Stand acres 11

Stand Description

This stand is comprised of bottomland hardwoods primarily white bay, yellow poplar, black gum along with large old growth slash pine timber containing 8.6 acres. Soils are primarily Dorvan Johnson. This soil is highly productive but extremely wet. The stand should be protected from any soil erosion and all Ms. Bmp's should be followed.

Stand Recommendations

This stand will be harvested has part of other harvesting operations on adjoining stands removing timber that can be removed with minimum soil and water disturbance. This will mean harvesting all merchantable pine and hardwood but leaving a average basal area of 55 to 65 square feet in the residual stand . All MS. BMP's should be followed has regards to this stand. Wildlife enhancement and protection of the water quaility should be maintained.

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13-4-P-ST-55-U Stand acres 40

Stand Description

This is primarily a upland longleaf pine stand sixty five acres in size. The average age of this stand is approximately 55 years old. This stand has a site index for longleaf of 85 and is a well drained upland site. The stand is composed of old growth longleaf timber and hardwoods with 45 tons of sawtimber per acre. The soils on this stand are made of mostly well drained making it operable year round.

Stand Recommendations

The stand is recommended to have a final harvest conducted on it in 2013. 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 loblolly pine seedlings in 2015.

Activity Recommendations

Harvest

This stand will be harvested of all merchantable timber in Fiscal Year 2013. This will be accomplished through the use of complete bid process and allowing the winning bidder 12 months to remove said timber.

Site Preparation

The stand is recommended to have an aerial application of herbicides applied in the summer of 2015 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 site will need to be burned with a site prep burn following the aerial application of herbicides. This will need to be done 4 to 6 weeks after the chemical application. The purpose of this is to remove any fuels and to provide for a clean planting site.

Regeneration

This site will need to be planted in winter of 2015 with containerized longleaf seedlings. The seedlings will need to be planted at a rate of 544 seedlings per acre on an 8X10 spacing. The seedlings should be planted with no more than 3/8 of an inch of the plug exposed above the ground. The only time that more of the plug should be exposed is when seedling may possibly be covered by sediment due to runoff or because of site prep activities.

A plug bar should be used in planting seedlings but a dibble bar may be used when conditions are unfavorable for using the plug bar.

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14-4-P-ST-55-U Stand acres 12

Stand Description

The stand is a upland pine stand containing approximately 17 acres. The stand composition is comprised of Longleaf, Loblolly, Shortleaf and mixed upland hardwoods primarily being sweetgum and southern red oak. The stand age is approximately 55 years old with estimated volume of 45 tons pine sawtimber / acre. The topography of the stand is level to rolling. Soils are basically sandy loam in nature. Access is along a woods road that runs south from the county road on the north end of the section.

Stand Recommendations

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

15-3-P-CS-27-U Stand acres 9

Stand Description

The stand was planted in 1984 in Loblolly pine plantation containing 8 acres. The topography is rolling with soils moderately highly productive but poorly drained. The stand was thinned in the Winter of 2004/05 to a 65 basal area. This stand will be looked at for a 2nd thinning in 2018. This stand is part of a larger unit being approximately 115 acres in size all of which was thinned in Winter of 2004/05.

Stand Recommendations

This stand is scheduled to be thinned in 2018 but will be monitored to determine if a 2nd thinning is viable before this date. The stand will also be monitored for insect and disease in the stand.

Activity Recommendations

Harvest

The stand is a loblolly pine that was planted in 1984 and was thinned in 2004; the stand is now in the chip-n-saw product class. . This stand will be thinned in 2018 or sooner if needed.

16-1-M-ST-56-B Stand acres 2

Stand Description

This stand is comprised of bottomland hardwoods primarily white bay, yellow poplar, black gum along with large old growth slash pine timber containing 10.5 acres. Soils are primarily, Dorvan Johnson. This soil is highly productive but extremely wet. All harvesting operations should be in conjunction with harvesting operation on adjacent stands with the removal of only the most valuable stems. The stand should be protected from any soil erosion and all Ms. Bmp's should be followed.

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Stand Recommendations

This stand will be harvested has part of other harvesting operations on adjoining stands removing timber that can be removed with minimum soil and water disturbance. This will mean harvesting all merchantable pine and hardwood but leaving a average basal area of 55 to 65 square feet in the residual stand . All MS. BMP's should be followed has regards to this stand. Wildlife enhancement and protection of the water quality should be maintained.

18-3-P-CS-27-U Stand acres 51

Stand Description

The stand was planted in 1984 in Loblolly pine plantation. The stand was thinned in the Winter of 2004/05 to a 65 basal area. This stand will be looked at for a possible thinning at the end of this management plan. This stand is part of a larger unit being approximately 115 acres in size all of which was thinned in Winter of 2004/05.

Stand Recommendations

This stand is to be thinned in 2018 but will be monitored to determine if 2nd thinning is viable before.

Activity Recommendations

Harvest

This stand is scheduled to be thinned in 2018 but will be monitored to determine if a 2nd thinning is viable before this date. The stand will also be monitored for insect and disease in the stand.

19-3-P-CS-27-U Stand acres 48

Stand Description

The stand was planted in 1984 in Loblolly pine plantation containing 48 acres. The topography is rolling with soils moderately highly productive but poorly drained. The stand was thinned in the Winter of 2004/05 to a 65 basal area. This stand will be looked at for a possible thinning at the end of this management plan. This stand is part of a larger unit being approximately 115 acres in size all of which was thinned in Winter of 2004/05.

Stand Recommendations

This stand is scheduled to be thinned in 2018 but will be monitored to determine if a 2nd thinning is viable before this date. The stand will also be monitored for insect and disease in the stand.

Activity Recommendations

Harvest

This stand will be thinned in 2018 or sooner if needed.

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20-2-P-SM-13-U Stand acres 44

Stand Description

This stand is a 13 year old longleaf pine plantation containing 44 acres and 400 plus trees per acre. The stand has been burned several times in the past and will be burned again prior to the first thinning. Soils types for this stand is primarily well drained highly productive with a site index of 85 for longleaf pine.

Stand Recommendations

This stand is understocked with only 45 square feet of basal area at the present. This stand will be burned to for fuel reduction and competition control prior to first thinning. Although the thinning is not scheduled until the winter of 2016/17 it may be move forward based on cruise information.

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.

Harvest

The stand is recommended to be thinned in 2017. A prescribe burn should be carried out every three or four years to control undesirable vegetation and hardwood species following first thinning.

21-4-P-ST-55-U Stand acres 64

Stand Description

This is primarily a upland longleaf pine stand sixty five acres in size. The average age of this stand is approximately 55 years old. This stand has a site index for longleaf of 85 and is a well drained upland site. The stand is composed of old growth longleaf timber and hardwoods with 45 tons of sawtimber per acre. The soils on this stand are made of mostly well drained making it operable year round.

Stand Recommendations

The stand is recommended to have a final harvest conducted on it in 2016. Once, all of the merchantable timber has been removed the stand needs to have a chemical site

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preparation, then be burned to remove all debris from the site, and planted with loblolly pine seedlings in 2018.

The stand will be burned in the year prior to final harvest in 2016.

Activity Recommendations

Harvest

The stand should have a final harvest conducted on it in 2016 and remove all merchantable timber.

Regeneration

The site will be planted during January of 2019 with genetically improved loblolly or containerized longleaf pine seedlings on a 6 by 12 foot spacing with a target of 605 trees per acre.

Site Preparation

The stand is recommended to have an aerial application of herbicides applied in the summer of 2018 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 site will be burned 4 to 6 weeks after chemical treatment and prior to planting to remove logging slash and to provide a clean site for tree planting.

22-3-P-CS-27-U Stand acres 3

Stand Description

This a 3 acre loblolly pine stand that was planted in 1984 and was thinned in 2004; the stand is now in the chip-n-saw product class. This stand will be thinned in 2018 or sooner if needed.

Stand Recommendations

This stand is scheduled to be thinned in 2018 but will be monitored to determine if a 2nd thinning is viable before this date. The stand will also be monitored for insect and disease in the stand.

Activity Recommendations

Harvest

This stand is scheduled to be thinned in 2018 but will be monitored to determine if a 2nd thinning is viable before this date. The stand will also be monitored for insect and disease in the stand.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

The section's boundary lines are well established and recommended to be maintained on a five year rotation. They will be repainted in 2015 and again in 2020.

Activity Recommendations

Property Activities

Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

Map

Section 16 1 South 7 West

Bexley
2012 to 2021
644.22 Acres



(02/28/2012)

1,000 500 0 1,000

Feet

Legend



Legend

Property
 Property (1)

Category 1: Stands
 Sawtimber (3)
 Reproduction (4)

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

Restricted Sites
 Gopher Tortoise (5)

Property Roads/Trails
 Logging Road (4)

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) (2)

Block (Census 2000)
 Block (Census 2000) (9)

Tract/BNA (Census 2000)
 Tract/BNA (Census 2000) (2)

County Roads
 County Roads (4)

Natural Gas Lines
 Natural Gas Lines (1)

School Sections
 School Sections (1)

Public School Districts
 GEORGE COUNTY SCHOOL DISTRICT (1)

US Congressional District
 US Cong Dist #4 (1)

MS Senate
 43 (1)

MS House
 107 (1)

Perennial Streams
 Perennial Streams (1)

Intermittent Streams
 Intermittent Streams (1)

Hydrologic Units (Basins)
 PASCAGOULA 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-savannah-susquehanna (1)
 mclaurin-heidel-prentiss (1)

Surface Geology
 CITRONELLE (1)

Recreational Facilities
 Community Playfield (1)

MFC Districts
 MFC Districts (1)

MFC Dispatch Units
 MFC Dispatch Units (1)

MS Outline
 MS Outline (1)

Stand Activity Schedule for
George County Boe
16 1S 7W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2013					
2	20	Fire Protection, Other, Burn, Hand, Hazard Mitigation	44	\$1,098.75	\$0.00
3	6	Fire Protection, Other, Burn, Hand, Hazard Mitigation	16	\$408.75	\$0.00
3	15	Fire Protection, Other, Burn, Hand, Hazard Mitigation	9	\$222.00	\$0.00
3	18	Fire Protection, Other, Burn, Hand, Hazard Mitigation	51	\$1,268.50	\$0.00
3	19	Fire Protection, Other, Burn, Hand, Hazard Mitigation	48	\$1,189.75	\$0.00
3	22	Fire Protection, Other, Burn, Hand, Hazard Mitigation	3	\$63.50	\$0.00
4	1	Fire Protection, Other, Burn, Hand, Hazard Mitigation	1	\$18.75	\$0.00
4	3	Fire Protection, Other, Burn, Hand, Hazard Mitigation	10	\$242.25	\$0.00
4	7	Fire Protection, Other, Burn, Hand, Hazard Mitigation	58	\$1,437.50	\$0.00
4	8	Fire Protection, Other, Burn, Hand, Hazard Mitigation	106	\$2,639.25	\$0.00
4	9	Fire Protection, Other, Burn, Hand, Hazard Mitigation	65	\$1,621.25	\$0.00
4	13	Fire Protection, Other, Burn, Hand, Hazard Mitigation	40	\$1,000.75	\$0.00
4	14	Fire Protection, Other, Burn, Hand, Hazard Mitigation	12	\$293.50	\$0.00
4	21	Fire Protection, Other, Burn, Hand, Hazard Mitigation	64	\$1,606.00	\$0.00
Yearly Totals			524	\$13,110.50	\$0.00
2014					
4	13	Harvest, Mechanical, Final, Machine, Longleaf	40	\$1,400.00	\$57,400.00
Yearly Totals			40	\$1,400.00	\$57,400.00
2016					
2	20	Fire Protection, Other, Burn, Hand, Fuel Reduction	44	\$1,100.00	\$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
4	13	Site Preparation, Chemical, Broadcast, Machine, Woody	40	\$5,400.00	\$0.00
4	13	Site Preparation, Other, Burn, Hand, Cut-Over	40	\$1,000.00	\$0.00
4	13	Regeneration, Artificial, Plant, Hand, Longleaf	40	\$6,400.00	\$0.00
4	21	Harvest, Mechanical, Final, Machine, Longleaf	40	\$1,400.00	\$57,400.00
Yearly Totals			204	\$15,300.00	\$57,400.00
2017					
2	20	Harvest, Mechanical, Thin, Machine, Longleaf	44	\$1,540.00	\$39,600.00
Yearly Totals			44	\$1,540.00	\$39,600.00
2018					
3	6	Harvest, Mechanical, 2nd Thin, Machine, Slash	16	\$560.00	\$5,620.16
3	15	Harvest, Mechanical, 2nd Thin, Machine, Slash	9	\$315.00	\$3,161.34
3	18	Harvest, Mechanical, 2nd Thin, Machine, Slash	51	\$1,785.00	\$17,914.26
3	19	Harvest, Mechanical, 2nd Thin, Machine, Slash	48	\$1,680.00	\$16,860.48
3	22	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	3	\$105.00	\$1,053.78
4	1	Harvest, Mechanical, Shelter Wood, Machine, Longleaf Pine	1	\$35.00	\$703.00
4	3	Harvest, Mechanical, Shelter Wood, Machine, Longleaf Pine	10	\$350.00	\$7,030.00
4	8	Harvest, Mechanical, Shelter Wood, Machine, Longleaf Pine	106	\$3,710.00	\$79,302.84
4	21	Regeneration, Artificial, Plant, Machine, Longleaf	64	\$10,278.40	\$0.00
4	21	Site Preparation, Chemical, Broadcast, Machine, Woody	64	\$8,672.40	\$0.00
4	21	Site Preparation, Other, Burn, Hand, Cut-Over	64	\$1,600.00	\$0.00
Yearly Totals			436	\$29,090.80	\$131,645.86
2019					
4	7	Harvest, Mechanical, Final, Machine, Longleaf	58	\$2,030.00	\$83,408.64
Yearly Totals			58	\$2,030.00	\$83,408.64

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2021					
4	7	Regeneration, Artificial, Plant, Hand, Longleaf	58	\$9,280.00	\$0.00
4	7	Site Preparation, Other, Burn, Hand, Cut-Over	58	\$1,450.00	\$0.00
4	7	Site Preparation, Chemical, Broadcast, Aerial, Woody	58	\$5,800.00	\$0.00
4	9	Harvest, Mechanical, Final, Machine, Longleaf	65	\$2,275.00	\$119,535.00
Yearly Totals			239	\$18,805.00	\$119,535.00
Grand Totals			1.546	\$81,276.30	\$488,989.50