



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Quitman County BOE

Prepared By:
Drew Stafford
Ms Forestry Commission

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-16

Plan Type:
Stewardship / Stewardship

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

Property Name: S16, T28N, R1E

TABLE OF CONTENTS

| | |
|--|----|
| LANDOWNER INFORMATION | 3 |
| FORESTER INFORMATION | 3 |
| DISCLAIMER | 3 |
| INTRODUCTION | 3 |
| OBJECTIVES | 4 |
| PROPERTY DESCRIPTION | 4 |
| GENERAL PROPERTY RECOMMENDATIONS | 5 |
| SOIL TYPES | 7 |
| STRATA | 7 |
| PLAN MAP | 11 |
| PLAN MAP | 12 |
| PLAN MAP | 13 |
| STRATA ACTIVITY SCHEDULE | 14 |

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

LANDOWNER INFORMATION

Name: Quitman County BOE
Mailing Address: Drawer E
City, State, Zip: Marks, MS 38646
Country: United States of America
Contact Numbers: Home Number:
Office Number: 662-326-5451
Fax Number: 662-326-3694
E-mail Address: bhopson@qcsd.k12.ms.us
Social Security Number (optional):

FORESTER INFORMATION

Name: Drew Stafford , Service Forester
Forester Number: 12345
Organization: Ms Forestry Commission
Street Address: 108 Bethlehem Rd
City, State, Zip: Batesville, MS 38606
Contact Numbers: Office Number: 662-563-3824
Fax Number: 662-563-2247
E-mail Address: dstafford@mfc.state.ms.us

PROPERTY LOCATION

County: Quitman Total Acres: 483 Latitude: -90.2 Longitude: 34.3
Section: 16 Township: 28N Range: 1E

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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

OBJECTIVES

Fire Protection

The goal is to protect the resource from wildfires, by establishing and maintaining firebreaks around the property; annually inspect possible signs of insect infestations and disease; and prohibit grazing until terminal bud is beyond reach of livestock.

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 in the east central portion of Quitman County approximately one mile north of Highway 6 on Ash Log Road and consists of 483.02 acres, of which 395 acres are forested and 82 acres are in agricultural land.

The forested area consists of 338 acres of mature bottomland hardwood sawtimber. Species include Cherrybark oak, Nuttall oak, Overcup oak, Sweetgum and others. There are 57 acres of submerchantable stand of hardwood species planted to Cherrybark and Nuttall oak.

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

Ash Log Bayou intersects the section and will be managed in accordance with Mississippi's Best Management Practices.

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.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

Threatened and Endangered Species

No threatened and endangered species were identified during reconnaissance and evaluation of your property. However, if threatened or endangered species are identified on the property, special management measures will be applied immediately to protect those species.

Archeological or Cultural Resources

No archeological or cultural resources were identified during reconnaissance of the property. However, if archeological or cultural resources are discovered on the property, special management measures will be applied immediately in order to preserve these sensitive areas.

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.

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.

MISSISSIPPI FORESTRY COMMISSION FOREST STEWARDSHIP MANAGEMENT PLAN

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.

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,

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

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.

SOIL TYPES

Ae

The Alligator component makes up 80 percent of the map unit. Slopes are 0 to 2 percent. This component is on backswamps. The parent material consists of clayey alluvium. 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 low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil meets hydric criteria.

STRATA

Strata 1

Strata Description

Total = 215 acres

Stand 1 = 202 acres, Stand 2 = 8 acres, & Stand 7 = 5 acres

These stands consist of bottomland hardwoods, predominantly sawtimber in size. The estimated year of origin for these stands is 1940, making the stands 72 years old in 2012. The species composition of these stands is mostly Cherrybark Oak, Nuttall Oak, and Green Ash regenerated naturally. The stands are fully stocked with 126 trees per acre at 148 square feet of basal area. The volumes were estimated in 2008 to be 104 tons/acre of pulpwood and 91 tons/acre of sawtimber. The terrain is flat with a site index of 90 feet at 50 years for Nuttall Oak. There is no evidence of past management activities present, either through documentation or evidence on the ground.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

Strata Recommendations

This strata will be divided into two new separate stratas within the 10 year plan period. In FY 2015 approximately 100 acres will be delineated and basal sprayed to deaden undesirable understory trees. This should enhance advanced regeneration and improve species and stand composition. In FY 2016 the new strata will be marked for a selective harvest. The purpose of the marked harvest will be to remove biologically mature trees and those exhibiting deformities. The residual stands will be comprised of more vigorous stems exhibiting better sawtimber quality. Following the harvest, the sale area will be monitored for the development of natural regeneration. If natural regeneration is insufficient, the area will be hand planted to supplement stocking and species composition in FY 2018. In FY 2019 a planned sale to remove the overstory will coincide with the harvesting of the second new strata allowing both timber sales to occur at the same time. This second new strata will be approximately 115 acres. The process will be replicated in the new strata so by FY 2022 the 115 acre strata will have been basal sprayed (FY 2018), thinned (FY 2019), planted (FY 2021) and harvested (FY 2022).

Activity Recommendations

Harvest

In FY 2016 approximately 100 acres will be marked for a selective harvest. Biologically mature trees and low quality trees will be removed during this thinning. This area will be monitored over the next two years for the development of natural regeneration.

Stand Improvement

In FY 2015 the new strata of 100 acres will be basal sprayed to deaden undesirable understory trees. This should enhance advanced regeneration and improve species and stand composition by allowing sunlight to get to the forest floor.

Stand Improvement

In FY 2018 the new strata of 115 acres will be basal sprayed to deaden undesirable understory trees. This should enhance advanced regeneration and improve species and stand composition by allowing sunlight to get to the forest floor.

Harvest

In FY 2019, the remaining overstory on the first block (100 acres) will be removed in a final harvest. All merchantable timber will be removed.

Regeneration

Following completion of the selective thinning, this stand (100 acres) will be monitored for natural regeneration. If it is insufficient, the stand will be artificially regenerated by planting. It will be planted on a 10'x 10' spacing for 436 seedlings per acre. Species planted will be specific for the site. Timing for the planting will be January 1 through March 31 in FY 2018.

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

Harvest

In FY 2019 approximately 115 acres will be marked for a selective harvest. Biologically mature trees and low quality trees will be removed during this thinning. This area will be monitored over the next two years for the development of natural regeneration.

Regeneration

Following completion of the selective thinning , this stand (115 acres) will be monitored for natural regeneration. If it is insufficient, the stand will be artificially regenerated by planting. It will be planted on a 10'x 10' spacing for 436 seedlings per acre. Species planted will be specific for the site. Timing for the planting will be January 1 through March 31 in FY 2021.

Harvest

In FY 2022, the remaining overstory on the second block (115 acres) will be removed in a final harvest. All merchantable timber will be removed at that time.

Strata 2

Strata Description

Stand 6 = 57 acres

This stand consists of bottomland hardwoods that are submerchantable. This stand was planted in 1998 into Cherrybark Oak and Nuttall Oak. The stand is adequately stocked with 507 trees per acre and a basal area of 24 square feet. The terrain is flat with a site index of 90 feet at 50 years for Nuttall Oak. The stand was chainsaw site prepared before it was planted.

Strata Recommendations

Monitor conditions within the strata throughout the current 10-year plan period. There are no planned recommendations in this strata for the duration of the 10-year plan period because of the age and size of the trees in this strata.

Strata 3

Strata Description

Stand 10 = 123 acres

This stand consists of bottomland hardwoods, predominantly sawtimber in size. The estimated year of origin for this stand is 1940, making the stand 72 years old in 2012. The species composition of this stand is mostly Red Oaks and Hickory regenerated

**MISSISSIPPI FORESTRY COMMISSION
FOREST STEWARDSHIP MANAGEMENT PLAN**

naturally. The stand was adequately stocked with 126 trees per acre at 148 square feet of basal area. The stand was selective thinned in 2011, after the thinning, the volumes were estimated to be 74 tons/acre of pulpwood and 79 tons/acre of sawtimber. The terrain is flat with a site index of 90 feet at 50 years for Nuttall Oak. The stand will be monitored for natural regeneration and it may take a few years. If natural regeneration is insufficient, the stand will be supplemental hand planted tentatively set in FY 2013 though it may be later in the 10 year plan period. In FY 2016 or after natural regeneration is determined the remaining merchantable overstory trees will be final harvested.

Strata Recommendations

The stand was selective thinned in 2011. It will be monitored for the presence of natural regeneration. If natural regeneration is insufficient, the stand will be hand planted in FY 2013. In FY 2016 the remaining merchantable overstory trees will be final harvested.

Activity Recommendations

Regeneration

This stand will be monitored for natural regeneration. If it is insufficient, the stand will be artificially regenerated by planting. It will be planted on a 10'x 10' spacing for 436 seedlings per acre. Species planted will be specific for the site. Timing for the planting is tentatively set for January 1 through March 31 in FY 2013 but it may be later in the 10 year plan period.

Harvest

In FY 2016, the remaining merchantable overstory trees will be removed in a final harvest. This final harvest will coincide with the selective thinning on the 100 acre stand.

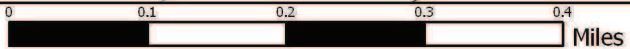


Quitman County BOE - S16 T28N R1E

Ash Log Section
2012 to 2021
483.02 Acres




(01/12/2012)




Quitman County BOE - S16 T28N 1E



Property

 Property (1)

Category 1: Stands


 Sawtimber (4)

 Sub-Merchantable (1)

Category 3: Non-Forest Stands


 Non-Forest (5)

Boundary Lines


 Property (1)

MFC Basemap


County Boundary

 County Boundary (2)


Quadrangle Grid


 USGS Quad (2)

PLS Townships


 PLS Townships (5)

Survey Districts

 District 2 (2)

 District 1 (2)


Blockgroup (Census 2000)

 Blockgroup (Census 2000) (2)


Block (Census 2000)

 Block (Census 2000) (3)


Tract/BNA (Census 2000)

 Tract/BNA (Census 2000) (2)


Natural Gas Lines

 Natural Gas Lines (1)

School Sections


 School Sections (1)


Public School Districts

 SOUTH PANOLA SCHOOL DISTRICT (2)

 QUITMAN COUNTY SCHOOL DISTRICT (2)


US Congressional District

 US Cong Dist #2 (1)

 US Cong Dist #1 (1)

MS Senate

 11 (1)


 10 (1)

MS House


 9 (1)

 11 (1)


Perennial Streams

 Perennial Streams (1)


Intermittent Streams

 Intermittent Streams (1)

Hydrologic Units (Basins)

 TALLAHATCHIE RIVER (2)


Historic Forest Boundary

 Bottomland Hardwood (Oak-Gum-Cottonwood-Cypress) (2)


MS Forest Habitat

 MISCELLANEOUS ALLUVIAL FLOODPLAINS (2)

Physiographic Region

 Delta (2)

Soil Associations

 alligator-sharkey-dundee (2)

Surface Geology

 ALLUVIUM (2)


MFC Districts

 MFC Districts (1)

MFC Dispatch Units

 MFC Dispatch Units (1)

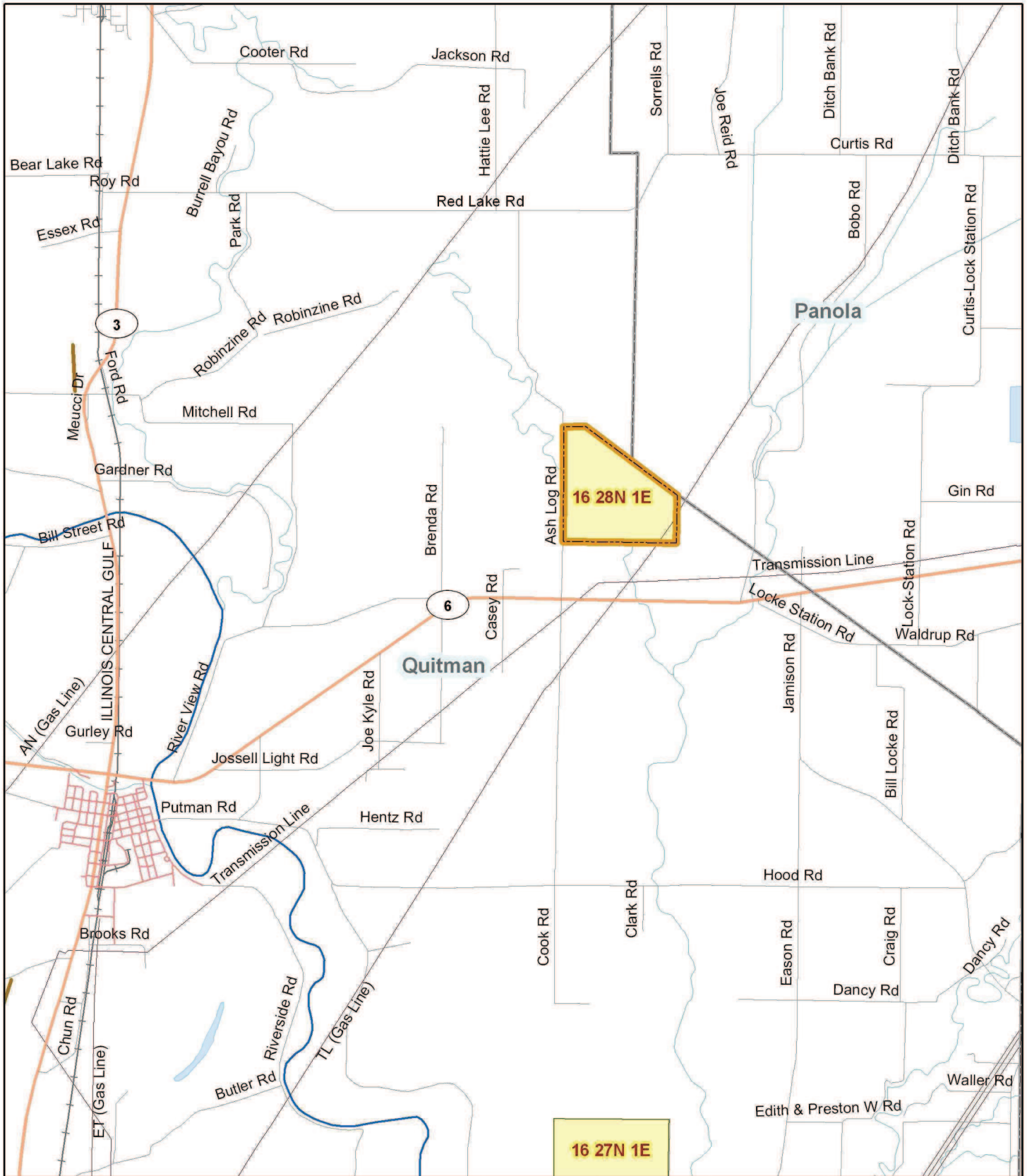
MS Outline

 MS Outline (1)



Quitman County BOE - S16 T28N 1E

Ash Log Section
2012 to 2021
483.02 Acres



(01/12/2012)



Stand Activity Schedule for
Quitman County BOE
16 28N 1E

| Strata | Stand | Activity | Acre | Est. Cost | Est. Revenue |
|---------------|-------|---|------|-------------|--------------|
| 2013 | | | | | |
| 3 | 10 | Regeneration, Artificial, Supplemental, Hand, Nuttall Oak | 123 | \$21,542.50 | \$0.00 |
| Yearly Totals | | | 123 | \$21,542.50 | \$0.00 |
| 2015 | | | | | |
| 1 | 1 | Stand Improvement, Chemical, Release, Hand, Woody Stems | 92 | \$9,200.00 | \$0.00 |
| 1 | 2 | Stand Improvement, Chemical, Release, Hand, Woody Stems | 8 | \$821.00 | \$0.00 |
| Yearly Totals | | | 100 | \$10,021.00 | \$0.00 |
| 2016 | | | | | |
| 1 | 1 | Harvest, Mechanical, Thin, Machine, Misc Hardwood | 92 | \$3,220.00 | \$69,000.00 |
| 1 | 2 | Harvest, Mechanical, Thin, Machine, Misc Hardwood | 8 | \$287.35 | \$6,157.50 |
| 3 | 10 | Harvest, Mechanical, Final, Machine, Misc Hardwood | 123 | \$4,305.00 | \$92,250.00 |
| Yearly Totals | | | 223 | \$7,812.35 | \$167,407.50 |
| 2018 | | | | | |
| 1 | 1 | Regeneration, Artificial, Supplemental, Hand, Nuttall Oak | 92 | \$16,100.00 | \$0.00 |
| 1 | 1 | Stand Improvement, Chemical, Release, Hand, Woody Stems | 110 | \$11,000.00 | \$0.00 |
| 1 | 2 | Regeneration, Artificial, Supplemental, Hand, Nuttall Oak | 8 | \$1,436.75 | \$0.00 |
| 1 | 7 | Stand Improvement, Chemical, Release, Hand, Woody Stems | 5 | \$458.00 | \$0.00 |
| Yearly Totals | | | 215 | \$28,994.75 | \$0.00 |
| 2019 | | | | | |
| 1 | 1 | Harvest, Mechanical, Thin, Machine, Misc Hardwood | 110 | \$3,850.00 | \$82,500.00 |
| 1 | 1 | Harvest, Mechanical, Final, Machine, Misc Hardwood | 92 | \$3,220.00 | \$85,284.00 |
| 1 | 2 | Harvest, Mechanical, Final, Machine, Misc Hardwood | 8 | \$280.00 | \$7,416.00 |

| Strata | Stand | Activity | Acre | Est. Cost | Est. Revenue | |
|-------------|-------|---|---------------------|-------------|--------------------|---------------------|
| 1 | 7 | Harvest, Mechanical, Thin, Machine, Misc Hardwood | 5 | \$175.00 | \$3,750.00 | |
| | | | Yearly Totals | 215 | \$7,525.00 | \$178,950.00 |
| 2021 | | | | | | |
| 1 | 1 | Regeneration, Artificial, Supplemental, Hand, Nuttall Oak | 110 | \$19,250.00 | \$0.00 | |
| 1 | 7 | Regeneration, Artificial, Supplemental, Hand, Nuttall Oak | 5 | \$801.50 | \$0.00 | |
| | | | Yearly Totals | 115 | \$20,051.50 | \$0.00 |
| | | | Grand Totals | 991 | \$95,947.10 | \$346,357.50 |