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# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Quitman School District

Prepared By:  
T Michael Crowell  
MFC

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-01-23

Plan Type:  
Stewardship / Stewardship

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

**Property Name: S11\_T3N\_R14E**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Quitman School District  
Mailing Address: 104 East Franklin Street  
City, State, Zip: Quitman, MS 39355  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 601-776-2186  
Fax Number:  
E-mail Address: gfleming@qsd.k12.ms.us  
Social Security Number (optional): 640442029

**FORESTER INFORMATION**

Name: T Michael Crowell , Service Forester  
Forester Number: 01207  
Organization: MFC  
Street Address: P.O. Box 174  
City, State, Zip: Quitman, MS 39355  
Contact Numbers: Office Number: 601-776-6213  
Fax Number: 601-776-1010  
E-mail Address: mcrowell@mfc.state.ms.us

**PROPERTY LOCATION**

County: Clarke    Total Acres: 44    Latitude: -88.83    Longitude: 32.12  
Section: 11    Township: 3N    Range: 14E

**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*

General

This section, consists of 40 acres more or less of lieu land, is located in NW 1/4 NE 1/4 of Section 11 approximately two miles Northeast of Section 16-3N-14E. The entire forty is forested. Access to the tract is poor because the nearest public road is one half mile to the South and one has to travel a hilly, clay logging road from the public road to this tract of land. This tract is part of the lieu land for Section 16, Township 1 North, Range 14 East.

History

Silviculture work has been accomplished on this section since the signing of the first Timber Management and Marketing Agreement between the Board of Supervisors and the Mississippi Forestry Commission. Good Silvicultural Forestry Management Practices has been conducted as needed. The area was planted in 1992. Boundary lines have been maintained.

Wildlife and Recreation

Hunting is the primary form of recreation taking place on this section. Game species most frequently hunted are deer, turkey, and squirrel, and there is some very good habitat for both of these species. Therefore, any timber management practices to be implemented should consider the recreational and wildlife aspects as such as is feasible.

Problems

It is difficult to say which problem is the largest, the small size of this tract or its remoteness over difficult terrain. This is definitely a dry weather site for practically every aspect of forest management from tree planting to logging. Future thinning operations should favor short-wood and short-log buyers in order to avoid further damage to residual timber caused by tree length skidding in the hilly terrain.

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*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 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.

*Archeological or Cultural Resources:*

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.

*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 from soils index map number 29 of the 1961 soil survey of Clarke County: Ruston, Bibb/Chastain, and Boswell/Shubuta/Cuthbert.

## **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.

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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. Boundary lines will be maintained on a five year rotation.

**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.

## **SOIL TYPES**

*Sweatman*

The Sweatman component makes up 40 percent of the map unit. Slopes are 12 to 35 percent. This component is on uplands. The parent material consists of loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The Sweatman component makes up 30 percent of the map unit. Slopes are 12 to 35 percent. This component is on uplands. The parent material consists of loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage

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class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

## **STRATA**

### *Strata 2*

#### Stand 1

Total Acres : 40.00

#### Strata Description

Strata 2 is described as pine chip n saw.

Stand 1: 40.00 acres

This stand is a 20 year old, well stocked, loblolly pine plantation. This stand was thin in 2010-2011.

#### Strata Recommendations

In this strata, the stand will be managed to a 35 to 45 year rotation. During this time frame, management activities such as thinnings, mid-rotation release, and prescribed burning to improve wildlife habitat will be used to keep stands in full production.

#### Activity Recommendations

##### Fire Protection

A prescribed fire is recommended for stand 1 in 2013 and again in 2018. The burn will 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

A second thin will be made on stand 1 in 2019. The area will be cruised to determine how much volume will be removed as well as the value of the timber to be removed.



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**OTHER PLAN ACTIVITIES**

*Boundary Lines*

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

Line Description

This section has approximately 1 mile of boundary lines. These lines are painted with "Red " boundary line paint. Lines are maintained periodically.

Line Recommendations

The boundary lines are scheduled for repainting every 5 years.

Activity Recommendations

Property Activities

The boundary lines are scheduled for repainting in 2015 and again 2020.

Property Activities

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

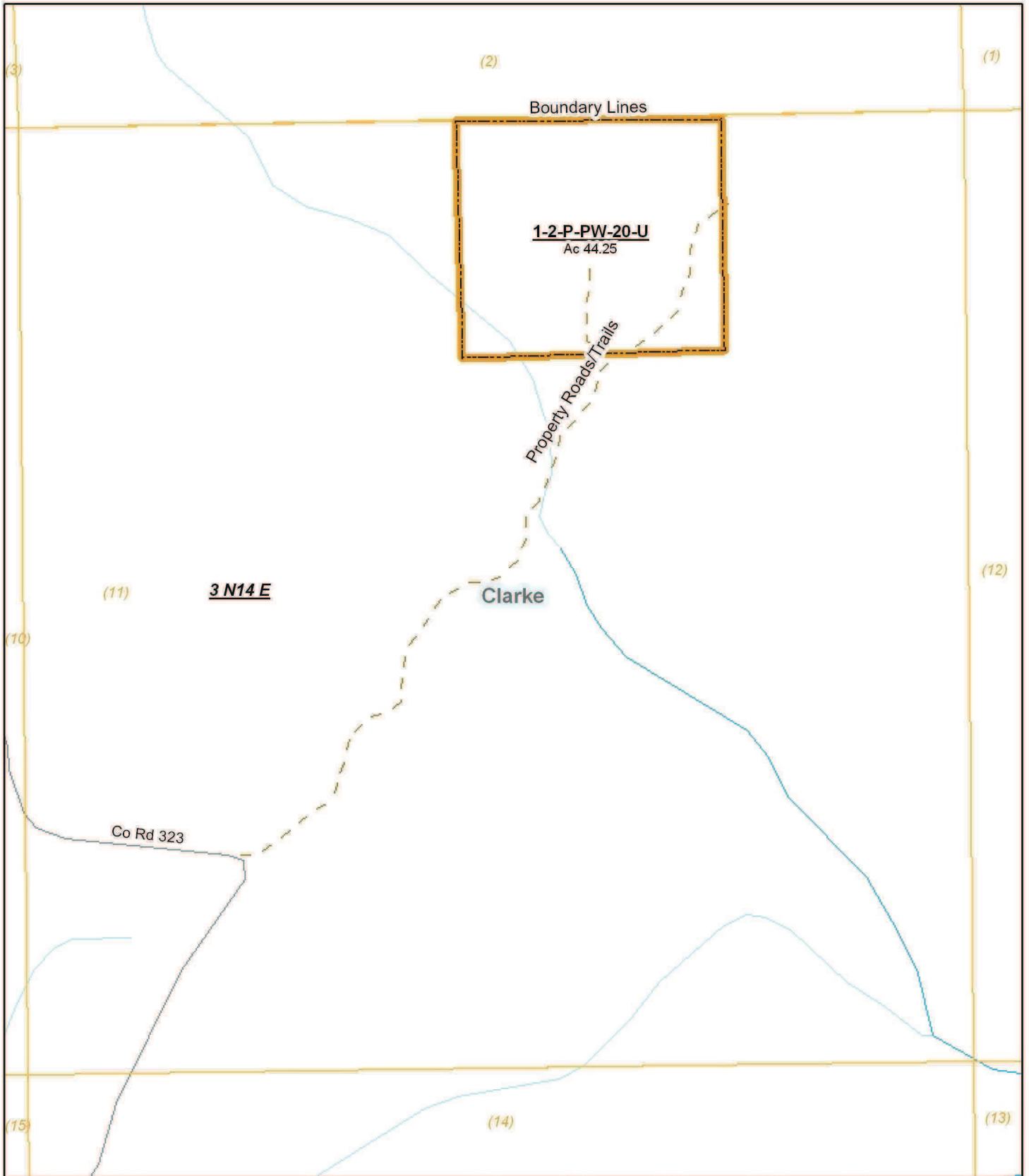


# Quitman School District

NW 4 of NE 4, Sec 11-3N-14E

2012 to 2021

44.25 Acres



(01/24/2012)

0 0.1 0.2 0.3 0.4 Miles

# NW 4 of NE 4, Sec 11-3N-14E



## Property

Property

## Hydrology (Points)

Concrete Dam  
 Beaver Dam  
 Earthen Dam  
 Permanent  
 Temporary  
 Wooden  
 Other  
 Culvert  
 Pond

## Boundary Corners

Property  
 Section  
 Quarter Section  
 Areas

## Property Roads/Trails

Drive Ways  
 Access Road  
 Logging Road  
 Skid Trail  
 Farm Road  
 Hiking Trail  
 Horseback Riding Trail

## Boundary Lines

Archeology  
 Cemetery  
 Drilling Sites  
 Education  
 Forest Health  
 Invasive Species  
 Management Compartment  
 Military Area  
 Natural Area  
 Property  
 Recreation  
 Rights of Way  
 SMZ  
 Special Use  
 Stand  
 Surface Mining  
 Threatened/Endangered Species  
 Visual Buffer

## Transportation (Lines)

City Streets  
 County Roads  
 3 Digit Highway  
 Interstate Highway  
 US Highway  
 State Highway  
 Natchez Trace Parkway

## Transportation (Lines) (cont)

Runways/Airports  
 Active RR  
 Abandoned RR

## Hydrology (Lines)

Mississippi River  
 Major River  
 Primary Stream  
 Intermittent Stream  
 Canal  
 Ditch  
 Earthen Dam  
 Concrete Dam

## Utilities (Lines)

Large Electrical  
 Local Utility  
 Large Pipeline  
 Small Pipeline  
 Gas Line  
 Utility Line  
 Water Line

Stand Activity Summary for  
Quitman School District  
11 3N 14E

**Filters Applied:** County: Clarke  
 Client Class: School Trust Land  
 District: South Central District  
 Client: Quitman School District  
 STR: 11 3N 14E  
 Activity:  
 Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2013</b>						
11 3N 14E	2	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	44	\$1,106.25	\$0.00
Yearly Totals				44	\$1,106.25	\$0.00
<b>2018</b>						
11 3N 14E	2	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	44	\$1,106.25	\$0.00
Yearly Totals				44	\$1,106.25	\$0.00
<b>2019</b>						
11 3N 14E	2	1	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	44	\$1,540.00	\$14,443.44
Yearly Totals				44	\$1,540.00	\$14,443.44
<b>Grand Totals</b>				<b>133</b>	<b>\$3,752.50</b>	<b>\$14,443.44</b>