



Vision • Commitment • Pride

# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Hancock Cty BOE

Prepared By:  
Buddy J Cuevas  
Ms Forestry Commission

Time Period Covered by This Plan:  
2011 - 2021

Date Plan Prepared:  
2012-02-27

Plan Type:  
Stewardship / Stewardship

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

**Property Name: 16-6-14**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Hancock Cty BOE  
Mailing Address: 17304  
Hwy 603  
City, State, Zip: Kiln, MS 39556  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 228-255-4885  
Fax Number:  
E-mail Address: JPenton@hancock.k12.ms.us  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: Buddy J Cuevas , Forestry Technician  
Forester Number: 00000  
Organization: Ms Forestry Commission  
Street Address: P.O.BOX 219  
City, State, Zip: Kiln, MS 39556  
Contact Numbers: Office Number: 228-255-4885  
Fax Number:  
E-mail Address:

**PROPERTY LOCATION**

County: Hancock    Total Acres: 643    Latitude: -89.4    Longitude: 30.52  
Section: 16    Township: 6S    Range: 14W

**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 is located at the intersection of CC Road and Road 357. The section is composed of planted slash pine plantations, mature longleaf and slash, and a current cutover. The section also has a large number of residential leases along both CC Road and Road 357.

Seventy three acres of this section are classified as non-forest. This is due to the aforementioned county roads, numerous residential leases as well as an old county landfill site.

*Water Resources*

A perennial water resource was identified during a reconnaissance of the property. Perennial, intermittent streams and drains identified 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.

*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

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other impacts. In addition, practices carried out should have positive effects on the surrounding community such as improved wildlife habitat and soil stabilization.

*Archeological/Cultural Resources*

No archeological or cultural resources were identified during the reconnaissance of this property.

## **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*.

**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**

Boundary lines on this section are scheduled to be maintained in 2016 and 2021.

**Note:** Some forest practices may cause temporary adverse environmental or aesthetic impacts. These practices will only cause short-term adverse impacts where they are

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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.

*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

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property should be conducted and a plan developed to accomplish your specific goals for recreational activities on your property.

**STRATA**

*Strata 1 (Stands 1 and 6)*

Strata Description

This strata is composed of 300 acres of harvest planted slash pine plantation. The strata was planted in 1986. Stand 1 received a first thinning in 2011 which reduced the basal area to 45. Stand 1 should experience increased growth into the mixed chip and saw, small sawtimber product class, at which time the stand is scheduled to receive a final harvest and be site prepared and regenerated.

Stand 6 did not receive a thinning due to a lower basal area of 79. Stand 6 is expected to grow into the chip and saw product class early in the next mangement period.

Stand Recommendations

Stand 1 (91 acres) is scheduled to receive a final haravest in 2019. Following this final harvest, the stand will be site prepared by aerial herbicide, prescribed fire and reforested with improved loblolly in 2020.

Stand 6 (209 acres) will be scheduled for a final harvest and reforestation in the next mangement period.

The strata is also scheduled to receive a prescribed burn in 2013 and 2017 to reduce fuel loading and remove competition.

*Strata 2 (Stand 3)*

Stand Description

This strata is composed of 173 acres of mature longleaf and slash sawtimber. The current basal area is 57 on average with an average age of 40 years old. The longleaf is located on the slightly higer elevated ridges with the slash occurring on the terraces along the poorer drained soils. Limited natural regeneration is occurring within this strata.

Stand Recommendations

This strata will be managed in such a way as to promote natural longleaf regeneration. The current longleaf on site is of sufficient size and age as to produce adequate seedfall for natural regeneration.

The strata is scheduled to receive a marked final harvest in 2018 designed to remove seed trees where natural regeneration is in place and leave mature trees in place on those areas where sufficient natural regeneration has not occurred.

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Activity Recommendations

Fire Protection

A series of prescribed fire on a three year rotation (2013, 2016, and 2019) is recommended for this site in order to reduce woody and herbaceous competition. The reduction of this competition will further promote natural longleaf regeneration.

*Strata 4 (Stands 4, 7 and 10)*

Stand Description

This strata is composed of 89 acres of final harvest completed in 2012.

Strata Recommendations

This strata will receive an aerial herbicide treatment, and a prescribed fire to site prepare the area for limproved loblolly. The loblolly will be planted by hand at a rate of 605 trees per acre.

*Strata 5 (Stand 9)*

Stand Description

This strata is composed of 9 acres of mixed hardwood timber in the chip and saw size class. This strata is located in and along the poorly drained perennial streams of this section.

Stand Recommendations

This strata will not be scheduled for any activities in an effort to support and enhance water quality and will be managed at all times in accordance with Mississippi's Best Management Practices. However, during extremely dry periods, this strata maybe scheduled for a harvest in conjunction with harvests occuring in adjacent strata.

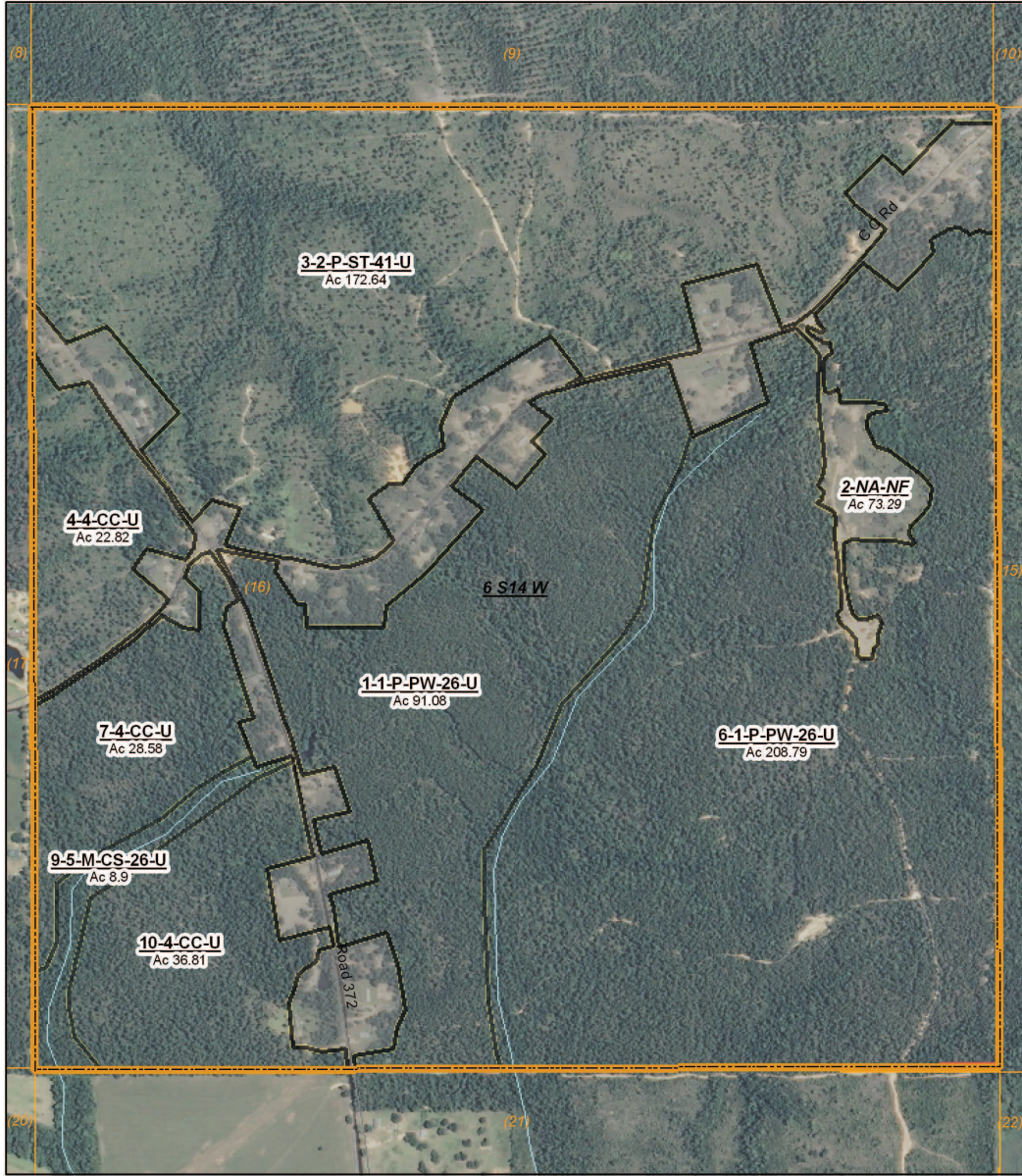


HANCOCK COUNTY SCHOOL DISTRICT

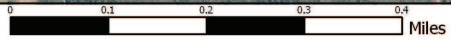


**HANCOCK COUNTY SCHOOL DISTRICT**

Section 16, Township 06S, Range 14W  
2011 to 2021  
640 Acres



(11/20/2012)



Stand Activity Schedule for  
Hancock Cty BOE  
16 6S 14W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2012</b>					
1	1	Site Preparation, Other, Burn, Hand, Combination	91	\$2,275.00	\$0.00
<b>Yearly Totals</b>			<b>91</b>	<b>\$2,275.00</b>	<b>\$0.00</b>
<b>2013</b>					
1	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	91	\$2,277.00	\$0.00
1	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	209	\$5,219.75	\$0.00
2	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	173	\$4,325.00	\$0.00
4	4	Vegetation Control, Chemical, Broadcast, Aerial, Herbaceous	23	\$1,840.00	\$0.00
4	4	Site Preparation, Other, Burn, Hand, Debris	23	\$575.00	\$0.00
4	4	Regeneration, Artificial, Plant, Machine, Slash	23	\$2,760.00	\$0.00
4	7	Regeneration, Artificial, Plant, Machine, Slash	29	\$3,480.00	\$0.00
4	7	Site Preparation, Chemical, Broadcast, Aerial, Combination	29	\$2,320.00	\$0.00
4	7	Site Preparation, Other, Burn, Hand, Combination	29	\$725.00	\$0.00
4	10	Site Preparation, Other, Burn, Hand, Combination	37	\$920.25	\$0.00
4	10	Site Preparation, Chemical, Broadcast, Aerial, Combination	37	\$2,944.80	\$0.00
4	10	Regeneration, Artificial, Plant, Machine, Slash	37	\$4,417.20	\$0.00
<b>Yearly Totals</b>			<b>739</b>	<b>\$31,804.00</b>	<b>\$0.00</b>
<b>2016</b>					
2	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	173	\$4,325.00	\$0.00
<b>Yearly Totals</b>			<b>173</b>	<b>\$4,325.00</b>	<b>\$0.00</b>
<b>2017</b>					

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
1	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	91	\$2,277.00	\$0.00
1	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	209	\$5,219.75	\$0.00
<b>Yearly Totals</b>			<b>300</b>	<b>\$7,496.75</b>	<b>\$0.00</b>
<b>2018</b>					
2	3	Harvest, Mechanical, Seed Tree, Machine, Slash	173	\$6,055.00	\$105,723.76
<b>Yearly Totals</b>			<b>173</b>	<b>\$6,055.00</b>	<b>\$105,723.76</b>
<b>2019</b>					
1	1	Harvest, Mechanical, Final, Machine, Slash	91	\$3,185.00	\$80,799.81
2	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	173	\$4,325.00	\$0.00
<b>Yearly Totals</b>			<b>264</b>	<b>\$7,510.00</b>	<b>\$80,799.81</b>
<b>2020</b>					
1	1	Site Preparation, Chemical, Broadcast, Aerial, Combination	91	\$7,280.00	\$0.00
1	1	Regeneration, Artificial, Plant, Machine, Loblolly	91	\$7,735.00	\$0.00
<b>Yearly Totals</b>			<b>182</b>	<b>\$15,015.00</b>	<b>\$0.00</b>
<b>Grand Totals</b>			<b>1.922</b>	<b>\$74,480.75</b>	<b>\$186,523.57</b>