



Vision • Commitment • Pride

# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
McCOMB SCHOOLS

Prepared By:  
NELSON HEARN  
MFC

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-01-26

Plan Type:  
Stewardship / Stewardship

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

**Property Name: 16-3N-7E**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: McCOMB SCHOOLS  
Mailing Address: 695 MINNESOTA AVENUE  
City, State, Zip: McCOMB, MS 39648  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 601-684-4661  
Fax Number:  
  
E-mail Address:  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: NELSON HEARN , SERVICE FORESTER  
Forester Number: 00379  
Organization: MFC  
Street Address: PO BOX 255  
City, State, Zip: MAGNOLIA, MS 39652  
Contact Numbers: Office Number: 601-783-3255  
Fax Number:  
E-mail Address: nhearn@mfc.state.ms.us

**PROPERTY LOCATION**

County: Pike    Total Acres: 642    Latitude: -90.51    Longitude: 31.23  
Section: 16    Township: 3N    Range: 7E

**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.

**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.

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**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.

**PROPERTY DESCRIPTION**

*General Property Information*

This section consist of approximately 642 acres with 517 acres in timber and 125 acres non-forest. This section is located approximately 1 mile Southwest of McComb, Ms. This is the most accessible section in Pike Co., Ms. There are numerous well maintained oil-well roads on the section and access is available on the north side of the section from Martin Road that runs east and west. The Magnolia Pisgagh Road is on the west side of the section that runs north and south. Park Drive Ext. provides access to the southeast portion of the section as it runs northeast to southwest on the east side of the property.

*Archeological or Cultural Resources*

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

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

*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.

*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.

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*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:

The soil associations found on this section include Ruston, Brookhaven, Cahaba, Collins, Ora, and Falaya that are described in greater detail under soil types.

## **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.

## *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 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.

## SOIL TYPES

### *Ruston*

The Ruston component makes up 90 percent of the map unit. Slopes are 8 to 12 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.

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Available water to a depth of 60 inches is high. 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 = 86. Longleaf Site Index = 69. Slash Site Index = 85.

*Brookhaven*

The Brookhaven soils are found on 2-5 percent slopes. This component is on uplands. The parent material consists of silty loess. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 98.

*Cahaba(smithdale)*

The Cahaba(smithdale) soils are found on 17-35 percent slopes. This component is on coastal plains. 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 high. 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 7e. This soil does not meet hydric criteria. Loblolly Site Index = 86. Longleaf Site Index = 69. Slash Site Index = 85.

*Collins*

The Collins soils are found on 0-2 percent slopes. This component is on flood plains. The parent material consists of silty alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well 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 occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 42 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

*Ora*

The Ora soils are found on slopes from 2-8 percent. This component is on uplands. The parent material consists of loamy fluviomarine deposits. Depth to a root restrictive layer, fragipan, is 18 to 42 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately 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. A seasonal zone of water saturation is at 33 inches during February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The Ruston component makes up 30 percent of the map unit. Slopes are 5 to 8 percent. This component is on coastal plains. The parent material consists of loamy fluviomarine deposits. Depth to a root

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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 4e. This soil does not meet hydric criteria.

*Falaya*

The Falaya soils are found on 0-2 percent slopes. This component is on flood plains. The parent material consists of silty alluvium. 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 moderately low. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria. Loblolly Site Index = 90.

## **STRATA**

*Strata 1*

Strata Description

Strata 1 consist of 273 acres of 28 year old machine planted Loblolly Pine that was thinned once in 2001 and is under contract for a second thinning to be completed by June, 2012. The stands include 1,3,5,7,8,10,11,19,22,32,38,39,41,44,53,55,61,62,64,71,73,74,76,88,89,96,98, 104, and 105.

Strata Recommendations

After the second thinning strata 1 with 273 acres will be sprayed for mid-rotation vegetation control, and then will be divided into three compartments for a third thin by woods roads and pipelines for the general sale boundaries as follows,

Stands 32,61,64,71,73,74,76,88,89, and 98 with 129 acres in 2019.

Stands 1,3,5,8,19,22,38,39,41, and 62 with 98 acres in 2020.

Stands 7,10,11,44,53,55,96,104, and 105 with 46 acres in 2021.

Activity Recommendations

Harvest

All of Strata 1 that includes 273 acres is under contract for a second thin to be completed by June, 2012. The objective is to remove the diseased, crooked , suppressed,all hardwood stems, and poorly spaced trees. The target basal area is 70 to 80.



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Vegetation Control

Strata 1 with 273 acres of twice thinned Loblolly Pine plantations will need to be sprayed by aerial application of forestry herbicides to control resprouting privet and hardwoods in the understory in 2013.

Harvest

Strata 1 stands 32,61,64,71,73,74,76,88,89, and 98 with 129 acres will need a 3rd thin in 2019 as a select cut prior to the final harvest.

Harvest

Strata 1 stands 1, 3, 5, 8, 19, 22, 38, 39, 41, and 62 with 98 acres will need a third thin in 2020 as a select cut prior to the final harvest.

Harvest

Strata 1 stands 7, 10, 11, 44, 53, 55, 96, 104, and 105 with 46 acres will need a third thin in 2021 as a select cut prior to the final harvest.

*Strata 2*

Strata Description

Strata 2 consist of 111 acres of 45 year old mature, fully stocked pine sawtimber in stands 28,33,78,83,86,92,99,100,108, and 120. These stands will be divided into 3 compartments to be harvest cut, site prepared ,and replanted in 3 consectutive fiscal years.

Strata Recommendations

Strata 2 that includes stands 28,33, and 120 with 38 acres will be harvest cut in 2014, site prepared in 2015, and replanted with containerized Loblolly Pine in 2016.

Strata 2 that includes stand 78 with 46 acres will be harvest cut in 2015, sites prepared in 2016, and relpanted with containerized Loblolly Pine in 2017.

Strata 2 that includes stands 83,86,92,99,100, and 108 with 27 acres will be harvest cut in 2016, site prepared in 2017, and hand planted with containerized Loblolly Pine in 2018.

Activity Recommendations

Harvest

Strata 2 with 38 acres of pine sawtimber in stands 28,33, and 120 will have a final harvest cut in 2014.

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Harvest

Strata 2 with 46 acres of pine sawtimber in stand 78 will have a final harvest cut in 2015.

Harvest

Strata 2 with 27 acres of pine sawtimber in stands 83,86,92,99,100, and 108 will have a final harvest cut in 2016.

Site Preparation

Strata 2 stands 33 and 120 with 7 acres will be site prepared by backpack application of forestry herbicides prior to tree planting no later than October 15, 2015.

Strata 2 stand 28 with 31 acres will be aerial sprayed for site preparation with an application of forestry herbicides prior to tree planting no later than October 15, 2015.

Site Preparation

Strata 2 stand 78 with 46 acres will be aerial site prepared with forestry herbicides prior to tree planting no later than October 15, 2016.

Site Preparation

Strata 2 stands 83,86,92,99,100, and 108 with 27 acres will have site preparation by backpack spraying with forestry herbicides prior to tree planting no later than October 15, 2017.

Regeneration

Strata 2 stands 28,33, and 120 with 38 acres will be hand planted with containerized loblolly pine on 8 x 10 spacing at 545 trees per acre after the site preparation is completed. Planting dates will be November 1, 2016 thru February 15, 2017. The expected Site Index is 90 at age 50.

Regeneration

Strata 2 stand 78 with 46 acres will be hand planted with containerized loblolly pine on 8 x 10 spacing at 545 trees per acre after the site preparation is completed. Planting dates will be November 1, 2017 thru February 15, 2018. The expected Site Index at age 50 is 90.

Regeneration

Strata 2 stands 83, 86, 92, 99, 100, and 108 with 27 acres will be hand planted with containerized Loblolly Pine on 8 x 100 spacing at 545 trees per acre between November 15, 2018 and February 15, 2019. The expected Site Index at age 50 is 90.

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*Strata 3*

Strata Description

Strata 3 stands 9,12,16,24,42, and 47 with 44 acres of fully stocked ,mature mixed pine sawtimber will need to be harvest cut and replanted with Loblolly Pine .

Stand Recommendations

This stand will be managed as a Loblolly pine plantation and will be regenerated to Loblolly Pine in 2016 following the final harvest in 2014.

Activity Recommendations

Harvest

Strata 3 with 44 acres of mixed pine sawtimber in stands 9,12,24,42, and 47 will have a final harvest cut in 2014.

Site Preparation

Strata 3 with 44 acres will need backpack site preparation with forestry herbicides prior to tree planting no later than October 15, 2015.

Regeneration

Strata 3 with 44 acres will be hand planted with containerized loblolly pine on 8 x 10 spacing at 545 trees per acre after the site preparation is completed. Planting dates will be November 1,2016 thru February 15, 2017. The expected Site Index at age 50 is 90.

*Strata 4*

Stand Description

Strata 4 stands 117,118, and 119 with 12 acres of 20 year old natural Loblolly Pine on old fields is under contract for a first thinning in 2011.

Strata Recommendations

Strata 4 with 12 acres will have a first thin in 2011 followed by a second thin in 2019 , and spraying for vegetative management in 2020.

Activity Recommendations

Harvest

Strata 4 with 12 acres of Loblolly Pine will have a first thin in 2011.

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Harvest

All of Strata 4 that includes 12 acres of once thinned Loblolly Pine will have a second thin in 2019 in order to remove the forked, diseased, suppressed, and poorly spaced trees. The target basal area is 70 to 80.

Vegetation Control

Strata 4 with 12 acres of twice thinned Loblolly Pine plantations will need to be sprayed by ground application of forestry herbicides to control resprouting privet and hardwoods in the understory in 2020.

*Strata 5*

Strata Description

Strata 5 stands 54,56,67, and 90 with 23 acres of cutover hand planted Loblolly Pine in 2006 will be maintained in its current condition and updated in 2021.

Stand Recommendations

Strata 5 will be managed as a Loblolly pine stand and will be grown to a 35 to 40 year rotation. When regenerated it will be put back into Loblolly Pine.

Activity Recommendations

Harvest

Strata 5 with 23 acres of hand planted containerized Loblolly Pine in 2006 will be evaluated in 2021 for a first thinning within the next 3 years.

*Strata 6*

Stand Description

Strata 6 consist of about 54 acres of hardwood sawtimber in a wet area . The stand will be classified as an SMZ and some pine in the overstory will be considered for removal in 2021.

Stand Recommendations

Strata 6 will be managed as an SMZ; however, the pine and some poor quality hardwoods will be considered to select mark for removal in 2021 .

Activity Recommendations

Technical

Strata 6 with 54 acres of SMZS will be evaluated in 2021 to consider removing some pine in the overstory.

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**OTHER PLAN ACTIVITIES**

*Boundary Lines*

Line Description

Exterior property lines are painted orange.

Line Recommendations

The boundary lines should be repainted every 4 to 5 years.

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.

Repaint 2.25 miles with orange paint in 2012.

Property Activities

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

Repaint 2.25 miles with orange paint in 2017.

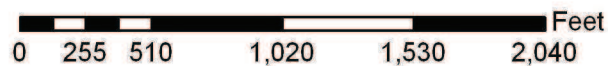


# McCOMB SCHOOL DISTRICT

SECTION 16, T 3 N, R 7 E, PIKE CO., MS  
2012 to 2021  
642 ACRES



(01/18/2012)



# SECTION 16 - T 3 N- R 7 E, LEGEND



## Property

Property

## Category 1: Stands

Clear Cut  
 Non-Stocked  
 Reproduction  
 Sub-Merchantable  
 Pulpwood  
 Chip-n-Saw  
 Sawtimber  
 Poles

## Category 3: Non-Forest Stands

Non-Forest

## Restricted Sites

Archeology  
 Cemetery  
 Red-Cockaded Woodpecker  
 Gopher Tortoise  
 Picture Bogg Plant

## Boundary Corners

Property  
 Section  
 Quarter Section  
 Areas

## Structures

Barn  
 Tractor Shed  
 Out Building  
 Single-Family  
 Multi-Family  
 Camp House  
 Club House  
 Office Building  
 Manufacturing  
 Warehouse  
 Chicken House  
 Horse Stall  
 Milking Parlor  
 Hog Pen  
 Blind  
 Stand

## Structures (cont)

Hospital  
 Nursing Home  
 Dr. Clinic  
 State Facility  
 Office  
 Work Center  
 Materials Depot  
 Prison  
 School  
 Church  
 Mosque  
 Synagogue  
 Other

## Other

Towers  
 Logging Deck  
 Locked  
 UnLocked  
 Water  
 Oil  
 Natural Gas

## 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

## Boundary Lines (cont)

SMZ  
 Special Use  
 Stand  
 Surface Mining  
 Threatened/Endangered Species Management Compartment  
 Visual Buffer

## Restricted Area

SMZ  
 Archeology,  
 Cemetery  
 Visual Buffer  
 Special Use  
 Natural Area  
 Education  
 Recreation  
 Military Area  
 Large Utility  
 Red-Cockaded Woodpecker  
 Gopher Tortoise  
 Picture Bogg Plant  
 Coal  
 Gravel  
 Dirt  
 Water  
 Oil  
 Natural Gas

## Forest Health (Polygons)

Cogan Grass  
 Kudzu  
 Japanese Climbing Fern  
 Chinese Tallow  
 Privet  
 Southern Pine Beetle  
 Sirex Wasp  
 IPPS

## School Land Classification

Forest Land  
 Farm/Residential Land  
 Residential Land  
 Agricultural Land  
 Industrial Land  
 Recreational Land

## School Land Classification (cont)

Catfish Farming Land  
 Other Land  
 Commercial Land

## Management Compartment

Management  
 Regeneration  
 Site Preparation  
 Post Plant  
 Site Improvement  
 Vegetation Control  
 Stand Improvement  
 Invasive Species Control  
 Harvest  
 Fire Protection  
 Technical  
 Wildlife Management  
 Property Activities  
 Roads  
 SMZ  
 Forest Health  
 Recreation  
 Site Restoration

## Transportation (Lines)

City Streets  
 County Roads  
 3 Digit Highway  
 Interstate Highway  
 US Highway  
 State Highway  
 Natchez Trace Parkway  
 Runways/Airports  
 Active RR  
 Abandoned RR

## Utilities (Lines)

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