

MISSISSIPPI FORESTRY COMMISSION  
COUNTY WIDE MANAGEMENT PLAN  
FOR  
LOWNDES COUNTY SCHOOLS  
LOWNDES COUNTY, MISSISSIPPI

INTRODUCTION: Lowndes County has 14 sixteenth sections with the Lowndes County School Board overseeing these sections. There is a total land area of 8,619 acres. Of this amount 3,448 acres is growing timber and 5,171 acres are non-forested. Based on percentage, 40% percent is timberland and 60% percent is non-forested. The objective of the plan is to outline steps, which if followed, will allow for full timber production on every acre of sixteen section land covered by this plan. This plan was written for a ten (10) year period. This plan will have to be revised in 2022. It should be understood that the plan was prepared to be used as a guide and it can be changed as conditions warrant.

At this point in time, the cut cannot be regulated by the growth completely. This is due to several factors that will be discussed in detail later. This plan provides a starting point to continuously bring this land into full production with regulated annual cut. At the present time, the average stand and stocking is well stocked. Through improvement cuts, tree planting, and timber stand improvement work, growth can be increased to the desired level over the coming years.

HISTORY OF THE FOREST: The forest management agreement between the Mississippi Forestry Commission and the Lowndes County School Board provides for the management of the timberland by the Forestry Commission. The Forestry Commission acts as the Board's technical advisor on all forestry matters. All work will be explained to and approved by the Board of Education prior to its execution. Work such as timber marking, burning, firelanes, tree planting, boundary line painting, and other work will be done on an actual cost basis.

In the past 30 years, a considerable amount of work has been done on these lands in an effort to get all forest acres into full production. These efforts will continue to be noticeable in the near future as more sales are made and the volumes should increase.

MANAGEMENT OBJECTIVES: Management objectives consist of four (4) main points. The first being to have the forest managed for sustained yield for pine sawtimber. The second is to build up growing stock. The third objective is to get every acre producing to its full potential. The fourth objective is to continue to provide adequate game habitat while still producing good quality timber. The steps necessary to meet these objectives will be outlined in the remainder of this plan.

FOREST DESCRIPTION: There are three (3) main timber types which dominate the forest of this county. These are hardwood bottomland, pine-hardwood, and pine plantation. The pine-hardwood stands occupy the upland dry sites. The hardwood stands are composed of a variety of oaks, hickory, ash and other assorted hardwood species. The pine-hardwood stands are composed of shortleaf pine, loblolly, and low grade upland hardwoods composed mostly of post oak, hickory, red oak, and other assorted hardwood species. The upland sites are best suited for the production of pine. The site index on bottomland will range from 85 to 95, and the site index on the upland site ranges from 80 to 90 with the average being around 85. At present hardwoods account for 276 acres (8%), mixed pine-hardwood stands account for 965 acres (28%), while pine stands total 2,207 acres (64%).

PRODUCTION AIMS: The primary production aim is to produce high quality sawlogs at the lowest possible cost. Pine-hardwood stand will be converted to stands that have 90-95% pine and only 5-10% hardwood. Attention will be given to leaving enough hardwood for game food. This will be done by leaving hardwood draws and selected areas in hardwood. Sales will be made to remove the low hardwoods. The hardwood on hardwood sites will continue to be managed for the production of high quality hardwood sawlogs.

No amount of volume can be set at this time to be removed from these lands each year. Attention needs to be given to removing low grade material with the ultimate objective of having the best species of trees growing the most volume possible. Sales need to be made as rapidly as possible. The available market will probably be the governing factor on the size and speed of the sales, as well as the land classification and type of lease, if any, involved.

#### MANAGEMENT RECOMMENDATIONS:

Silvicultural general: This plan was written with the idea of restocking using artificial regeneration. The overall plan for regeneration will be as follow: First, remove as much hardwood as possible by sales; second, aerial spray remaining hardwood and burn where needed to prepare seed beds; third allow for artificial planting. Some areas will need to be clear cut, site prepared by spraying, or machine, and planted with pine seedlings.

The bottomland hardwood stands are over-mature but are in fair condition. They will, however, need work during the life of this plan. Due to the age most of these stands will need to be clear cut and site prepared. This procedure can be expensive, but they are necessary to achieve the desired results. All site preparation, release, burning, and sales are scheduled in the individual plan activities. All management recommendations will take into account Mississippi's Best Management Practices guidelines.

Fire control: The Mississippi Forestry Commission has the responsibility of the fire control on all sections. The Commission operates one (1) suppression units in Lowndes County. In the event of emergency, often units may be called in from adjoining counties.

Dispatching of fires is done by contacting the central dispatch located at this District Office in Tupelo, Mississippi at 1-800-681-8760.

Insects and disease: At the present time there are no real problems in the area. The best prevention of insects and disease is a healthy vigorous stand. A close watch must be kept to detect an outbreak of insects and disease. If an outbreak occurs, the area will be treated by the use of emergency timber sale, cutting, piling, burning, spraying with chemicals, and/or a combination of these measures.

Utilization and marketing: All products removed from the lands covered by this plan will be utilized if at all possible.

All marketing will be in accordance with the schedule in the appendix. All timber will be marked at stump and eye level. In some cases of clear cuts, timber may be cruised by a professional forester employed by the Commission. After marking or cruising, the forester in charge will compute the volume of all products. Volume will be computed using Doyle Scale with appropriate form classes. The sale will be advertised by the Lowndes County School Board of Education, Lowndes County. The period of advertisement will be 21 days. Sample contracts will be sent to all buyers in the area of the sale by the Forestry Commission. All bids must be marked "bid" and sent to the Lowndes County School Board of Education, Columbus, Mississippi. The successful bidder will be governed by terms of contract. The forester in charge will make periodic checks of the cutting operation to insure compliance with the terms of the contract.

The Board of Education will be invoice for the work at the completion of the sale. A minimum of 15% percent of the sale will be placed in an escrow fund for forestry work of any approved type. When more funds are needed, the Forestry Commission may request the Board of Education to place additional funds in the escrow account. This may be from timber sales, or from the general fund money.

Physical improvement: Physical improvements are needed. Boundary lines need to be painted and/or maintained on a four (4) year cycle; permanent firelanes need to be plowed on some sections. These will be left to the forester in charge. All work must be approved by the Board of Education.

The work may be done by the Forestry Commission employees or by contracting. Contract work should be limited to injecting, machine site preparation, herbicide application, and tree planting. All other can usually be best handled by Forestry Commission employees. Funding of firelanes, site preparation, and the tree planting can be cost shared under the Forest Resource Development Program.

BEST MANAGEMENT PRACTICES: The term “best management practice” refers to a practice or combination of practices, which is determined to be the most effective, practical means of preventing or reducing the amount of pollution generated by non-point sources to a level compatible with the water quality goals.

Public land management can generally be divided into three categories as follows:

- (1) General forest management which consists of prescribed burning, hardwood brush control with chemicals and other general maintenance work.
- (2) Timber harvesting – this is the cutting and removing of forest products. These cutting operations will vary in size, shape and type cutting according to the specific situation. These cutting will include but not be limited to insect removal, thinning of stands or clear cutting of stands.
- (3) Post harvesting – this is any activity carried out as a result of harvesting and conducted after the harvesting has been completed. These activities will include but not be limited to hardwood brush control, regeneration work and road construction/maintenance.

All work on public lands will address pollution matters on upland, bottomland and wetland sites. All work will be planned and carried out according to Mississippi’s Best Management Practices Handbook.

THREATENED AND ENDANGERED SPECIES: All public lands will be managed in accordance with the current laws and regulations governing both plants and animals that are considered threatened and/or endangered. Prior to any management activity the tract(s) in question will be surveyed for any known threatened or endangered species. If any species is found on tract, then the tract will be managed in accordance with the guidelines published for that particular species.

HISTORICAL, CULTURAL OR ARCHAEOLOGICAL ITEMS: Any historical, cultural, or archaeological item that is found on public land will be identified, located, marked and preserved. No silvicultural practice that will damage or destroy these items will be conducted on the site. Sufficient area around the site may be excluded to insure that the site will not be damaged. There are no published lists of items to be preserved. Items would generally consist of old monuments, grave sites, Indian mounds, etc.