



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, R1W

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**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: 624 Latitude: -90.3 Longitude: 34.3
Section: 16 Township: 28N Range: 1W

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 in the central portion of Quitman County approximately three miles northwest of Marks and consists of 625 acres, of which 363 acres are forested, 229 acres are in agriculture, and 33 acres are in Bear Lake and the Coldwater River.

The forested area consists of 148 acres of mature bottomland hardwood sawtimber. Species include Water and Willow oak, Nuttall oak, Overcup oak, Sweetgum and others. There are 62 acres of inoperable Cypress - Tupelo gum sloughs. There is also a 58 acre submerchantable stand of hardwood species planted to Cherrybark and Nuttall oak. There is a 95 acre area that was clearcut in 2010 and will be planted in 2012.. Bear Lake occupies 11 acres and the Coldwater River occupies 22 acres.

The section will be inspected annually to assess the overall condition of the stands, roads, and firelanes. Maintenance to the section will be done as needed.

Water Resources

Bear Lake and Wilson Lake are located in the northern portion of the section and the Coldwater River dissects the property east to west. Rivers, lakes, 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 reconnaissance and evaluation of your property. However, if threatened and endangered species are identified on the property, special management measures will be applied immediately to protect those species.

Archeological and 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. The following soils are identified for 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.

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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.

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.

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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.

STRATA

Strata 1

Strata Description

Total = 156 acres

Stand 7 = 23 acres, Stand 8 = 20 acres, Stand 9 = 43 acres, Stand 13 = 12 acres,

Stand 14 = 33 acres, Stand 15 = 5 acres, Stand 16 = 5 acres, Stand 20 = 4 acres,

Stand 21 = 8 acres, Stand 24 = 2 acres, & Stand 25 = 1 acre

These stands consist of bottomland hardwoods, predominantly sawtimber in size. The estimated year of origin for these stands is 1949, making the stands 63 years old in 2012. The species composition of these stands is mostly Cherrybark Oak, Green Ash, Nuttall Oak, and Sweetgum regenerated naturally. The stands are fully stocked with 126 trees per acre at 110 square feet of basal area. The volumes were estimated in 2008 to be 64 tons/acre of pulpwood and 55 tons/acre of sawtimber. The terrain is flat with a site index of 100 feet at 50 years for Nuttall Oak. There is no evidence of past management activities present, either through documentation or evidence on the ground. This is a hardwood site located in the Mississippi Delta and should be maintained in hardwoods

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Strata Recommendations

This strata is scheduled for a thinning in 2014. It will remove poorer quality stems and favor the oaks of better sawtimber quality. Approximately half of the stems will be removed. After the thinning, the strata will be monitored for the presence of sufficient natural regeneration. If natural regeneration is not sufficient, the strata will be supplemental planted. Following establishment of the new strata, the overstory will be harvested.

Activity Recommendations

Harvest

In 2014 this strata will be thinned to remove poor quality trees and open the strata for advanced regeneration. Approximately 30 tons/acre of pulpwood and 25 tons/acre of sawtimber will be removed leaving the better quality sawtimber of more valuable species such as Nuttall Oak and Cherrybark Oak. The strata will be monitored afterwards for the presence of natural regeneration.

Regeneration

Following completion of the harvest, these stands will be artificially regenerated by planting. It will be a supplemental planting based on the presence of sufficient natural regeneration. 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 the year following the decision on the quality of natural regeneration. If natural regeneration is sufficient, it may not need supplemental planting.

Harvest

After the establishment of a new trees, either through natural regeneration or a combination of natural regeneration and supplemental planting, the remaining overstory of the thinned strata will be scheduled for a harvest. All remaining merchantable trees will be removed.

Strata 2

Strata Description

Total = 54 acres

Stand 5 = 19 acres, Stand 11 = 11 acres, Stand 19 = 17 acres, & Stand 22 = 7 acres

These stands consist of bottomland hardwoods, predominantly sawtimber in size. The estimated year of origin for these stands is 1938, making the stands 74 years old in 2012. The species composition of these stands is mostly Cypress and Tupelo Gum regenerated naturally. The stands are fully stocked with 153 trees per acre at 155 square feet of basal area. The volumes were estimated in 2008 to be 109 tons/acre of pulpwood and 102 tons/acre of sawtimber. The terrain is flat with a site index of 90 feet at 50 years. This

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strata is located around sloughs and ponds and is inundated with water year round. It is rendered inoperable.

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 inaccessible conditions in this strata.

Strata 3

Strata Description

Stand 18 = 58 acres

This stand consists of bottomland hardwoods that are submerchantable. The year of origin for this stand is 2003, making the stands 9 years old in 2012. The species composition of these stands is Cherrybark Oak, Nuttall Oak, and Green Ash that was planted in 2003. The stand is adequately stocked with 220 trees per acre at 8 square feet of basal area. The terrain is flat with a site index of 90 feet at 50 years. This stand was harvested in 2002. It was chainsaw site prepared and 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 4

Strata Description

Stand 6 = 95 acres

This stand was final harvested in 2010. All merchantable timber was harvested. The terrain is flat with a site index of 90 feet at 50 years. It is scheduled to be planted in 2012.

Strata Recommendations

Planting is scheduled in this stand in 2012.

Activity Recommendations

Regeneration

This stand will be artificially regenerated by planting. It will be planted on a 10'x 10' spacing at 436 seedlings per acre. Species planted will be specific for the site. Timing for the planting will be January 1 through March 31 in 2012.

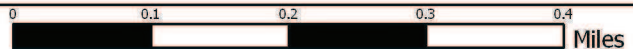


Quitman County BOE - S16 T28N 1W

Bear Lake Section
2012 to 2021
624.42 Acres



(01/12/2012)



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Property

Property (1)

Category 1: Stands

- Sawtimber (16)
- Clear Cut (1)
- Sub-Merchantable (1)

Category 3: Non-Forest Stands

Non-Forest (7)

Management Compartment

Harvest (1)

MFC Basemap

County Boundary

County Boundary (1)

Quadrangle Grid

USGS Quad (1)

PLS Townships

PLS Townships (1)

Survey Districts

District 2 (1)

Blockgroup (Census 2000)

Blockgroup (Census 2000) (2)

Block (Census 2000)

Block (Census 2000) (3)

Tract/BNA (Census 2000)

Tract/BNA (Census 2000) (1)

County Roads

County Roads (8)

School Sections

School Sections (1)

Public School Districts

QUITMAN COUNTY SCHOOL DISTRICT (1)

US Congressional District

US Cong Dist #2 (1)

MS Senate

11 (1)

MS House

9 (1)

Major River

Major River (1)

Perennial Streams

Perennial Streams (1)

Hydrologic Units (Basins)

COLDWATER RIVER BELOW ARKABUTLA DAM (1)

Water Bodies

Water Bodies (2)

Historic Forest Boundary

Bottomland Hardwood (Oak-Gum-Cottonwood-Cypress) (1)

MS Forest Habitat

YAZOO BASIN DRYLANDS (1)

Physiographic Region

Delta (1)

Soil Associations

- dundee-forestdale-dubbs (1)
- alligator-sharkey-dundee (1)

Surface Geology

ALLUVIUM (1)

MFC Districts

MFC Districts (1)

MFC Dispatch Units

MFC Dispatch Units (1)

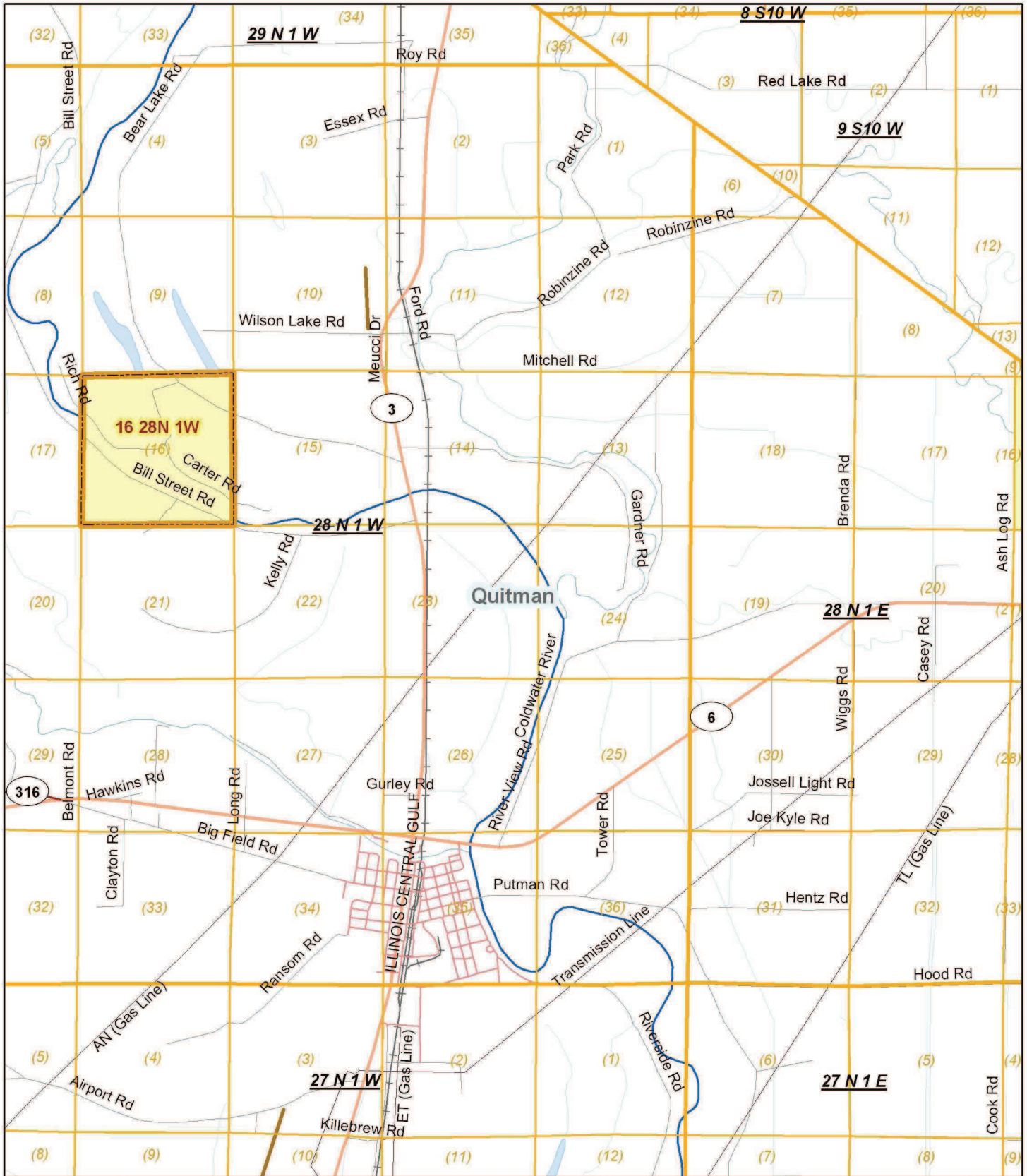
MS Outline

MS Outline (1)

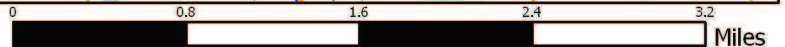


Quitman County BOE - S16 T28N 1W

Bear Lake Section
2012 to 2021
624.42 Acres



(01/12/2012)



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

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
1	7	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	23	\$3,976.00	\$0.00
1	8	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	20	\$3,424.75	\$0.00
1	9	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	43	\$7,504.00	\$0.00
1	13	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	12	\$2,100.00	\$0.00
1	14	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	33	\$5,787.25	\$0.00
1	15	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	5	\$852.25	\$0.00
1	16	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	5	\$819.00	\$0.00
1	20	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	4	\$728.00	\$0.00
1	21	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	8	\$1,379.00	\$0.00
1	23	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	2	\$381.50	\$0.00
1	24	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	1	\$197.75	\$0.00
1	25	Regeneration, Artificial, Supplemental, Hand, Nuttall Oak	0	\$84.00	\$0.00
4	6	Regeneration, Artificial, Plant, Hand, Nuttall Oak	95	\$16,625.00	\$0.00
Yearly Totals			251	\$43,858.50	\$0.00
2014					
1	7	Harvest, Mechanical, Thin, Machine, Misc Hardwood	23	\$795.20	\$10,564.80
1	8	Harvest, Mechanical, Thin, Machine, Misc Hardwood	20	\$684.95	\$9,100.05
1	9	Harvest, Mechanical, Thin, Machine, Misc Hardwood	43	\$1,500.80	\$19,939.20
1	13	Harvest, Mechanical, Thin, Machine, Misc Hardwood	12	\$420.00	\$5,580.00
1	14	Harvest, Mechanical, Thin, Machine, Misc Hardwood	33	\$1,157.45	\$15,377.55

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
1	15	Harvest, Mechanical, Thin, Machine, Misc Hardwood	5	\$170.45	\$2,264.55
1	16	Harvest, Mechanical, Thin, Machine, Misc Hardwood	5	\$163.80	\$2,176.20
1	20	Harvest, Mechanical, Thin, Machine, Misc Hardwood	4	\$145.60	\$1,934.40
1	21	Harvest, Mechanical, Thin, Machine, Misc Hardwood	8	\$275.80	\$3,664.20
1	23	Harvest, Mechanical, Thin, Machine, Misc Hardwood	2	\$76.30	\$1,013.70
1	24	Harvest, Mechanical, Thin, Machine, Misc Hardwood	1	\$39.55	\$525.45
1	25	Harvest, Mechanical, Thin, Machine, Misc Hardwood	0	\$16.80	\$223.20

			Yearly Totals	156	\$5,446.70	\$72,363.30
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2017

1	7	Harvest, Mechanical, Final, Machine, Misc Hardwood	23	\$805.00	\$12,696.00
1	8	Harvest, Mechanical, Final, Machine, Misc Hardwood	20	\$684.95	\$10,802.64
1	9	Harvest, Mechanical, Final, Machine, Misc Hardwood	43	\$1,500.80	\$23,669.76
1	13	Harvest, Mechanical, Final, Machine, Misc Hardwood	12	\$420.00	\$6,624.00
1	14	Harvest, Mechanical, Final, Machine, Misc Hardwood	33	\$1,157.45	\$18,254.64
1	15	Harvest, Mechanical, Final, Machine, Misc Hardwood	5	\$170.45	\$2,688.24
1	16	Harvest, Mechanical, Final, Machine, Misc Hardwood	5	\$163.80	\$2,583.36
1	20	Harvest, Mechanical, Final, Machine, Misc Hardwood	4	\$145.60	\$2,296.32
1	21	Harvest, Mechanical, Final, Machine, Misc Hardwood	8	\$275.80	\$4,349.76
1	23	Harvest, Mechanical, Final, Machine, Misc Hardwood	2	\$76.30	\$1,203.36
1	24	Harvest, Mechanical, Final, Machine, Misc Hardwood	1	\$39.55	\$623.76
1	25	Harvest, Mechanical, Final, Machine, Misc Hardwood	0	\$16.80	\$264.96

			Yearly Totals	156	\$5,456.50	\$86,056.80
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			Grand Totals	562	\$54,761.70	\$158,420.10
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