



Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Choctaw BOE

Prepared By:
Bubba Pope
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: Log Cabin S16-17N-11E

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

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LANDOWNER INFORMATION

Name: Choctaw BOE
Mailing Address: PO Box 398
City, State, Zip: Ackerman, MS 39735
Country: United States of America
Contact Numbers: Home Number:
Office Number: 662-285-6239
Fax Number:
E-mail Address:
Social Security Number (optional):

FORESTER INFORMATION

Name: Bubba Pope , Service Forester
Forester Number: 01004
Organization: MS Forestry Commission
Street Address: PO Box 295
City, State, Zip: Ackerman, MS 39735
Contact Numbers: Office Number: 662-285-6728
Fax Number:
E-mail Address: spope@mfc.state.ms.us

PROPERTY LOCATION

County: Choctaw Total Acres: 646 Latitude: -89.15 Longitude: 33.34
Section: 16 Township: 17N Range: 11E

DISCLAIMER

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.

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 the 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

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protecting your forest from insects, disease, and wildfire. Recommendations are based on observation and assessment of the site.

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.

Water Quality

Streamside management zones have or will be established along the stream and a protective vegetative zone maintained along the perimeter. Water diversions will be installed and maintained where needed on access roads to prevent erosion.

PROPERTY DESCRIPTION

General Property Information

This section is known as the "Log Cabin Hill" section and is located on Highway 12. The majority of the section is loblolly pine. Log Cabin Hill has approximately 578 forested acres of various sized timber. This section has 71 non-forested acres. There are no management activities being recommended during this plan for the non-forested acres.

Water Resources

One significant creek was identified during a reconnaissance of the property. Intermittent streams and drains were also identified and will be managed in accordance with Mississippi's Best Manage 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.

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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:

Archeological or Cultural Resources

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 managements measures will be applied immediately in order preserve these sensitive areas.

GENERAL PROPERTY RECOMMENDATIONS

Forest Protection

A health vigorously growing stand is the best defense to an attack form 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

Boundary lines will be maintained by the Mississippi Forestry Commission on a 3 year rotation. All lines will be marked in red paint.

SOIL TYPES

MP

The Maben component makes up 71 percent of the map unit. Slopes are 12 to 35 percent. This component is on uplands. The parent material consists of stratified sandy to clayey 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 Providence component makes up 24 percent of the map unit. Slopes are 12 to 15 percent. This component is on uplands. The parent material consists of silty loess over sandy marine deposits. Depth to a root restrictive layer, fragipan, is 18 to 38 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 moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. This soil does not meet hydric criteria.

SR

The Smithdale component makes up 75 percent of the map unit. Slopes are 8 to 35 percent. This component is on hillslopes. 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. 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 = 80.

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OrD2

The Ora component makes up 90 percent of the map unit. Slopes are 8 to 12 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 30 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. Loblolly Site Index = 83.

PoC2

The Providence component makes up 90 percent of the map unit. Slopes are 5 to 8 percent. This component is on uplands. The parent material consists of silty loess over sandy marine deposits. Depth to a root restrictive layer, fragipan, is 18 to 38 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 moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 87. Longleaf Site Index = 73.

Oa

The Oaklimeter component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. 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 24 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria. Loblolly Site Index = 90.

OrC2

The Ora component makes up 90 percent of the map unit. Slopes are 5 to 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 30 inches during February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 83.

SN

The Smithdale component makes up 46 percent of the map unit. Slopes are 12 to 35 percent. This component is on hillslopes. The parent material consists of loamy

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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. 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. The Maben component makes up 37 percent of the map unit. Slopes are 12 to 35 percent. This component is on uplands. The parent material consists of stratified sandy to clayey 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.

STRATA

Strata 1

Strata Description

Strata 1- 27 Acres

Contains stand 3.

This area is 27 acres of pine pulpwood that was planted in 1992 by hand with North Mississippi loblolly pine trees.

Strata Recommendations

The area should be looked at for the possibility for a first thinning around the year 2017.

Activity Recommendations

Harvest

Recommended that this area be first thinned in the year 2017. The area should be thinned to 80 square feet basal area. This will be achieved by thinning the weaker and diseased trees first to achieve the 80 square feet basal area.

Strata 2

Strata Description

Strata 2 - 212 Acres

Contains stands 2 and 5.

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This strata is 212 acres of sub-merchantable loblolly pines. The area was harvested and hand planted in the year 1998.

Strata Recommendations

Activity Recommendations

Harvest

Recommended that this area be first thinned in the year 2016. The area should be thinned to 80 square feet basal area. This will be achieved by thinning the weaker and diseased trees first to achieve the 80 square feet basal area.

Strata 3

Strata Description

Strata 3 - 22 Acres

Contains stand 6.

This area is 22 acres of pine pulpwood left as an SMZ.

Strata Recommendations

No activities are planned for the next 10 years.

Strata 6

Strata Description

Strata 6 - 291 Acres

Contains stands 10 and 14.

This area is 291 acres of pine sawtimber. The area is split into two different timber sells. stand 10 should be cut in the year 2014 and stand 14 should be cut in the year 2021.

Strata Recommendations

If prices are good the area should have a regeneration harvest between the year 2014-2015.

Activity Recommendations

Harvest

The area should be planned on being clear cut in the year 2014 if the prices are good.

Strata 12

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Strata Description

Strata 12 - 23 Acres

Contains strand 7.

This area is 23 acres of pine chip-n-saw. This stand was harvest and re-planted in 1986.

Strata Recommendations

Activity Recommendations

Harvest

Recommended that this area be first thinned in the year 2014. The area should be thinned to 80 square feet basal area. This will be achieved by thinning the weaker and diseased trees first to achieve the 80 square feet basal area.

Harvest

This area should be looked at in the year 2019 for the possibility of a second thinning. If the area is ready for thinning, it should be thinned to a uniform stand of 80 square feet of basal area.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Description

The boundary lines are painted every 4 years in either red or orange boundary paint to make sure the property lines are clearly visible.

Line Recommendations

The boundary lines are painted every 4 years in either red or orange boundary paint to make sure the property lines are clearly visible.

Activity Recommendations

Property Activities

By keeping lines well painted, it makes it easier to find property lines.

Fire Control

Line Description

These lines are used for easy access and maintained for easy fire control.

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Line Recommendations

Lines should be pushed and maintained every 4 years.

Activity Recommendations

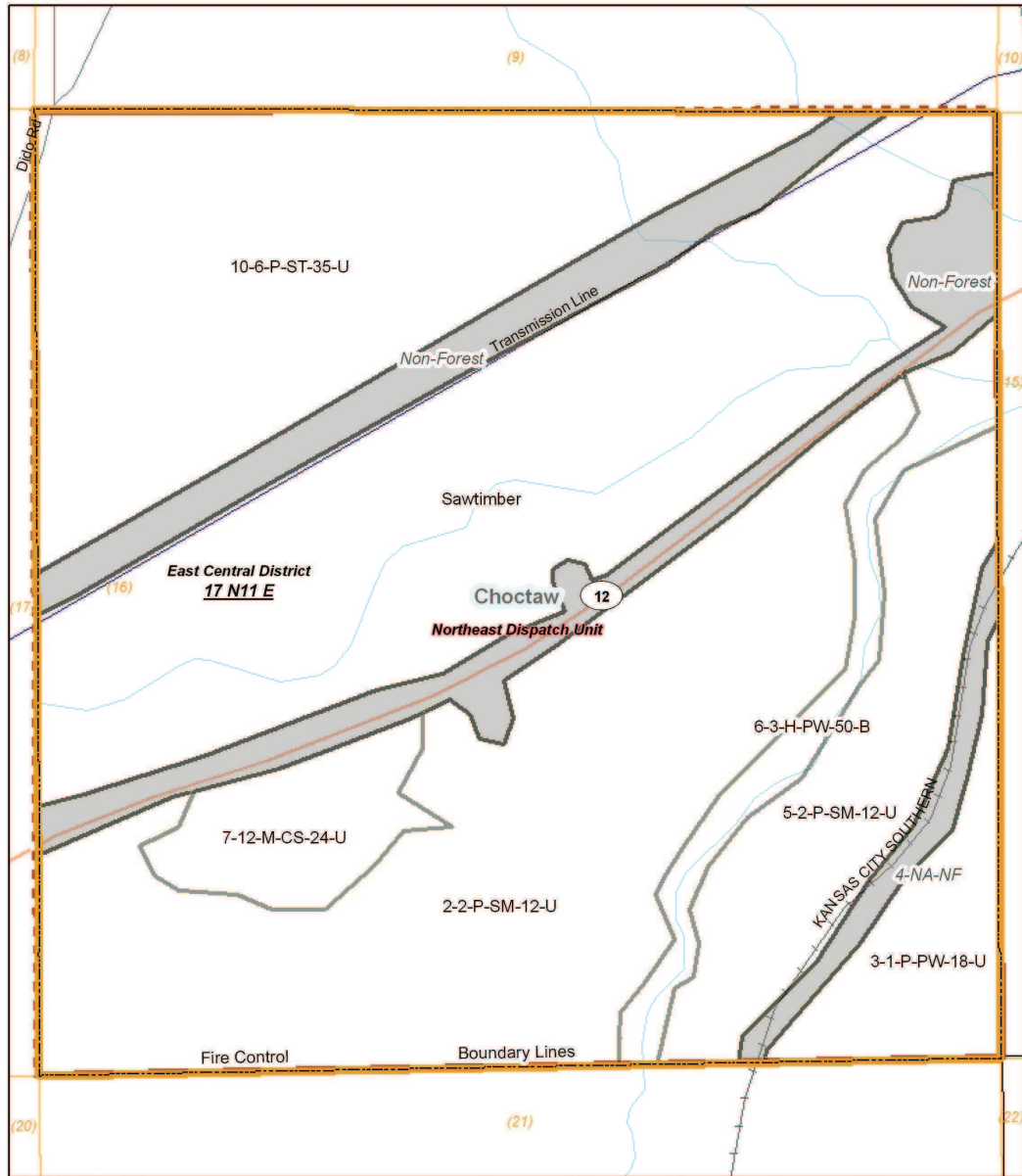
Fire Protection

Due to well kept fire lanes, accessible roads, and good communication with the community makes for easier fire protection.

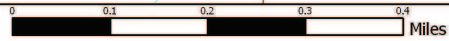
Log Cabin Hill

Log Cabin Hill

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2012 to 2021
645



(11/21/2011)



Log Cabin Hill



Log Cabin Hill

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2012 to 2021
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(11/21/2011)





Log Cabin Hill

Property



Category 1: Stands

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

Category 2: Stands

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

Category 3: Non-Forest Stands

- Non-Forest

Category 4: Not in Plan Stands

- Not in Plan

Category 5: Features Only Plan Stand

- Features Only Plan

Restricted Sites

- Archeology
- Cemetery
- Red-Cockaded Woodpecker
- Gopher Tortoise
- Picture Bogg Plant

Forest Health (Points)

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

Hydrology (Points)

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

Wildlife (Points)

- Food Plot
- Water Hole
- Feeder

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

Cruise Plots

- Pre-Cruise
- Post-Cruise

Other

- Towers
- Logging Deck
- Locked
- 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

Boundary Lines (cont)

- 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

Fire Control

- Temporary Line
- Permanent Fire Break

Wildlife (Lines)

- Green Strip

Fire

- Mitigation Burn
- Silviculture Burn
- Site-Prep Burn
- Wildfire

School Land Lease

- Hunting
- Minerals
- Recreation

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
- 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

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

Activities by Client and FY Report

Filters Applied: County: Choctaw
 Client Class:
 District:
 Client: Choctaw BOE
 STR: 16 17N 11E
 Year: 2012 Through 2021

Client Name	Year	Activity Name	Practice	STR	Est. Acres	Est. Cost	Est. Revenue
Choctaw BOE							
2014							
Harvest							
Final							
				16 17N 11E	131	\$4,585.00	\$146,764.54
				Totals	131	\$4,585.00	\$146,764.54
Thin							
				16 17N 11E	23	\$805.00	\$3,450.00
				Totals	23	\$805.00	\$3,450.00
				Totals	154	\$5,390.00	\$150,214.54
				Summary for 'Act_Name' = Harvest			
				Totals	154	\$5,390.00	\$150,214.54
				Summary for 'PlanYear' = 2014			
				Totals	154	\$5,390.00	\$150,214.54
2015							
Regeneration							
Plant							
				16 17N 11E	131	\$13,100.00	\$0.00
				Totals	131	\$13,100.00	\$0.00
				Totals	131	\$13,100.00	\$0.00
				Summary for 'Act_Name' = Regeneration			
				Totals	131	\$13,100.00	\$0.00
Site Preparation							
Broadcast							
				16 17N 11E	131	\$13,100.00	\$0.00

Client Name	Year	Activity Name	Practice	STR	Est. Acres	Est. Cost	Est. Revenue
				Totals	131	\$13,100.00	\$0.00
				Totals	131	\$13,100.00	\$0.00
				Totals	262	\$26,200.00	\$0.00
	2016	Harvest	Thin				
				16 17N 11E	161	\$5,635.00	\$24,150.00
					52	\$1,820.00	\$7,800.00
				Totals	213	\$7,455.00	\$31,950.00
				Totals	213	\$7,455.00	\$31,950.00
				Totals	213	\$7,455.00	\$31,950.00
	2017	Harvest	Thin				
				16 17N 11E	27	\$945.00	\$9,720.00
				Totals	27	\$945.00	\$9,720.00
				Totals	27	\$945.00	\$9,720.00
				Totals	27	\$945.00	\$9,720.00
	2019	Harvest	Thin				
				16 17N 11E	23	\$805.00	\$8,280.00
				Totals	23	\$805.00	\$8,280.00

Client Name	Year	Activity Name	Practice	STR	Est. Acres	Est. Cost	Est. Revenue
				Totals	Summary for 'Act_Name' = Harvest 23	\$805.00	\$8,280.00
				Totals	Summary for 'PlanYear' = 2019 23	\$805.00	\$8,280.00
2021							
Harvest							
			Final	16 17N 11E	160	\$5,600.00	\$116,640.00
				Totals	160	\$5,600.00	\$116,640.00
				Totals	Summary for 'Act_Name' = Harvest 160	\$5,600.00	\$116,640.00
Regeneration							
			Plant	16 17N 11E	160	\$16,000.00	\$0.00
				Totals	160	\$16,000.00	\$0.00
				Totals	Summary for 'Act_Name' = Regeneration 160	\$16,000.00	\$0.00
Site Preparation							
			Broadcast	16 17N 11E	160	\$16,000.00	\$0.00
				Totals	160	\$16,000.00	\$0.00
				Totals	Summary for 'Act_Name' = Site Preparation 160	\$16,000.00	\$0.00
				Totals	Summary for 'PlanYear' = 2021 480	\$37,600.00	\$116,640.00
				Totals	Summary for 'ClientName' = Choctaw BOE 1159	\$78,395.00	\$316,804.54
Grand Totals					1159	\$78,395.00	\$316,804.54