



Vision • Commitment • Pride

# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Jefferson County Schools

Prepared By:  
J. Ted Ratcliff  
Miss. Forestry Comm.

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-01-04

Plan Type:  
Stewardship / Stewardship

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

**Property Name: 16-9N-4E**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Organization: Jefferson County Schools  
Name: Jefferson County Schools  
Mailing Address: P.O. Box 157  
City, State, Zip: Fayette, MS 39069  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 601-786-3791  
Fax Number:  
E-mail Address:  
Social Security Number (optional): 640000000

**FORESTER INFORMATION**

Name: J. Ted Ratcliff, Service Forester  
Forester Number: 00717  
Organization: Miss. Forestry Comm.  
Street Address: P. O. Box 452  
City, State, Zip: Meadville, MS 39653  
Contact Numbers: Office Number: 601-754-9111  
Fax Number: 601-384-2437  
E-mail Address: [tratcliff@mfc.state.ms.us](mailto:tratcliff@mfc.state.ms.us)

**PROPERTY LOCATION**

County: Jefferson    Total Acres: 363    Latitude: -90.81    Longitude: 31.75  
Section: 16    Township: 9N    Range: 4E

**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.

**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.

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*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 eastern portion of the county about sixteen miles east of Fayette. Pap Goza Road runs through the central portion of the section. Approximately 347 acres are forested, of the 363 total acres.

*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.

*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.

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*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: Lorman and Loring.

*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:**

No Archeological or Cultural Resources Were Identified during the reconnaissance of the property. However, if Archeological or Cultural Resources are discovered anytime on the property special management measures will be applied immediately to preserve these sensitive areas.

## **GENERAL PROPERTY RECOMMENDATIONS**

*Forest Protection*

A healthy and 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

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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.

**SOIL TYPES**

*Lorman*

The Lorman soils are the predominate soils found on this section. Slopes are 5 to 35 percent. 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 very low. Available water to a depth of 60 inches is moderate. Shrink-swell potential is very high. 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 Loring component makes up 23 percent of the map unit. Slopes are 12 to 20 percent. The parent material consists of loess. Depth to a root restrictive layer, fragipan, is 14 to 35 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 18 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. This soil does not meet hydric criteria.

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**STANDS**

*STRATA 1 (Stands 3 and 4)*

Stand Description

This stand consist of approximately 86 acres of pine plantation that was planted in 2003 following a harvest. This stand is well stocked and in good growing condition.

Stand Recommendations

This stand will be managed to grow to a 35 to 40 year rotation. At maturity it will be regenerated back into Loblolly Pine.

Activity Recommendations

Harvest

This stand should be ready to be thinned in 2019. This will be a first thin, pay as cut sale. The row integrity is not good so corridors will have to be cut by the logger. Corridors will be no wider than 20 feet. The distance between corridors will be no less than 30 feet.

Crop trees shall be left uncut and evenly distributed over the sale area at an average stocking rate of 70 square feet basal area. Areas where basal areas are below 70 square feet shall not be thinned.

Fire Protection

A prescribed fire in 2020 is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission and other certified prescribed burning vendors are available to conduct prescribed burning.

*STRATA 2 (Stand 1)*

Stand Description

This stand consist of approximately 51 acres of pine plantation that was planted in 1996 following a harvest. This stand is overstocked and in poor growing condition.

Stand Recommendations

This stand will be managed to grow to a 35 to 40 year rotation. At maturity it will be regenerated back into Loblolly Pine.

Activity Recommendations



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Harvest

This stand was to be thinned in 2012 but was not developed enough so it has been postponed until 2016. This will be a first thin, pay as cut sale. The row integrity is not good so corridors will have to be cut by the logger. Corridors will be no wider than 20 feet. The distance between corridors will be no less than 30 feet.

Crop trees shall be left uncut and evenly distributed over the sale area at an average stocking rate of 70 square feet basal area. Areas where basal areas are below 70 square feet shall not be thinned.

Fire Protection

A prescribed fire in 2018 is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission and other certified prescribed burning vendors are available to conduct prescribed burning.

*STRATA 3 (Stand 8,13,15, and 17)*

Stand Description

This stand consist of approximately 61 acres of pine plantation that was planted in 2000 following a harvest. This stand is well stocked and in good growing condition.

Stand Recommendations

This stand will be managed to grow to a 35 to 40 year rotation. At maturity it will be regenerated back into Loblolly Pine.

Activity Recommendations

Harvest

This stand should be ready to be thinned in 2014. This will be a first thin, pay as cut sale. The row integrity is not good so corridors will have to be cut by the logger. Corridors will be no wider than 20 feet. The distance between corridors will be no less than 30 feet.

Crop trees shall be left uncut and evenly distributed over the sale area at an average stocking rate of 70 square feet basal area. Areas where basal areas are below 70 square feet shall not be thinned.

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**Fire Protection**

A prescribed fire in 2014 is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission and other certified prescribed burning vendors are available to conduct prescribed burning.

**Harvest**

A second thin in 2020 should be taken into consideration due to the growth of the stand and the local market. The stand should be thinned back to a 70-80 basal area. Only pulpwood size, lower quality form, overcrowded and suppressed, or diseased stems should be removed.

*STRATA 4 (Stand 2)*

**Stand Description**

This stand consist of approximately 93 acres of pine plantation that was planted in 2006 following a harvest. This stand is well stocked and in good growing condition.

**Stand Recommendations**

This stand will be managed to grow to a 35 to 40 year rotation. At maturity it will be regenerated back into Loblolly Pine.

**Activity Recommendations**

**Harvest**

This operation will be a harvester select 1st thinning in 2021. Corridors will be cut to allow access due to poor row integrity of a maximum width of 20 feet at a minimum of 30 feet apart. The remaining trees should be thinned to a basal area of approximately 70 square feet and should exhibit potential of future sawtimber quality. Only pulpwood size, lower quality form, overcrowded and suppressed, or diseased stems should be removed.

*STRATA 6 (Stand 12)*

**Stand Description**

Consist of approximately 6 acres of naturally seeded pine and hardwood pulpwood. There is a large amount of hardwood brush present in the understory.

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Stand Recommendations

This stand will be managed as a mixed stand, upon final harvest it will be converted to Loblolly pine.

Activity Recommendations

Harvest

This operation will be a harvester select 1st thinning in 2014. Corridors will be cut to allow access due to poor row integrity of a maximum width of 20 feet at a minimum of 30 feet apart. The remaining trees should be thinned to a basal area of approximately 70 square feet and should exhibit potential of future sawtimber quality. Only pulpwood size, lower quality form, overcrowded and suppressed, or diseased stems should be removed.

Fire Protection

A prescribed fire in 2016 is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission and other certified prescribed burning vendors are available to conduct prescribed burning.

*STRATA 7 (Stand 11)*

Stand Description

Consist of approximately 8 acres of naturally seeded pine pulpwood. Does have a large amount of hardwood encroachment in the understory.

Stand Recommendations

This stand will be managed to grow to a 35 to 40 year rotation. At maturity it will be regenerated back into Loblolly Pine.

Activity Recommendations

Harvest

This stand should be ready to be thinned in 2014. This will be a first thin, pay as cut sale. This is a natural stand so corridors will have to be cut by the logger. Corridors will be no wider than 20 feet. The distance between corridors will be no less than 30 feet.

Crop trees shall be left uncut and evenly distributed over the sale area at an average stocking rate of 70 square feet basal area. Areas where basal areas are below 70 square feet shall not be thinned.

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**Fire Protection**

A prescribed fire in 2016 is recommended for this site in order to reduce fuel loading and the potential for a wildfire to occur. A prescribed burning plan must be developed and followed in the application of the burn. Because of equipment, personnel and weather requirements, the application of a prescribed fire is limited to only those days that meet requirements of the burning plan. A certified prescribed burning manager should be employed to conduct the burn. The Mississippi Forestry Commission and other certified prescribed burning vendors are available to conduct prescribed burning.

**Harvest**

A second thin in 2020 should be taken into consideration due to the growth of the stand and the local market. The stand should be thinned back to a 70-80 basal area. Only pulpwood size, lower quality form, overcrowded and suppressed, or diseased stems should be removed.

*STRATA 13 (Stand 5, 6, 7, and 14)*

**Stand Description**

This stand consist of approximately 42 acres in a Streamside Management Zone. Timber is predominately hardwood ranging from sawtimber size to premerchantable. The basal area is approximately 60 square feet.

**Strata Recommendations**

Since this strata will be managed as a permanent SMZ, only selective cutting will occur in these areas. Selective cutting will occur as adjoining sales are performed. The harvesting will focus on removing the mature timber and will not remove more than 50 percent of the existing stand.

**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.



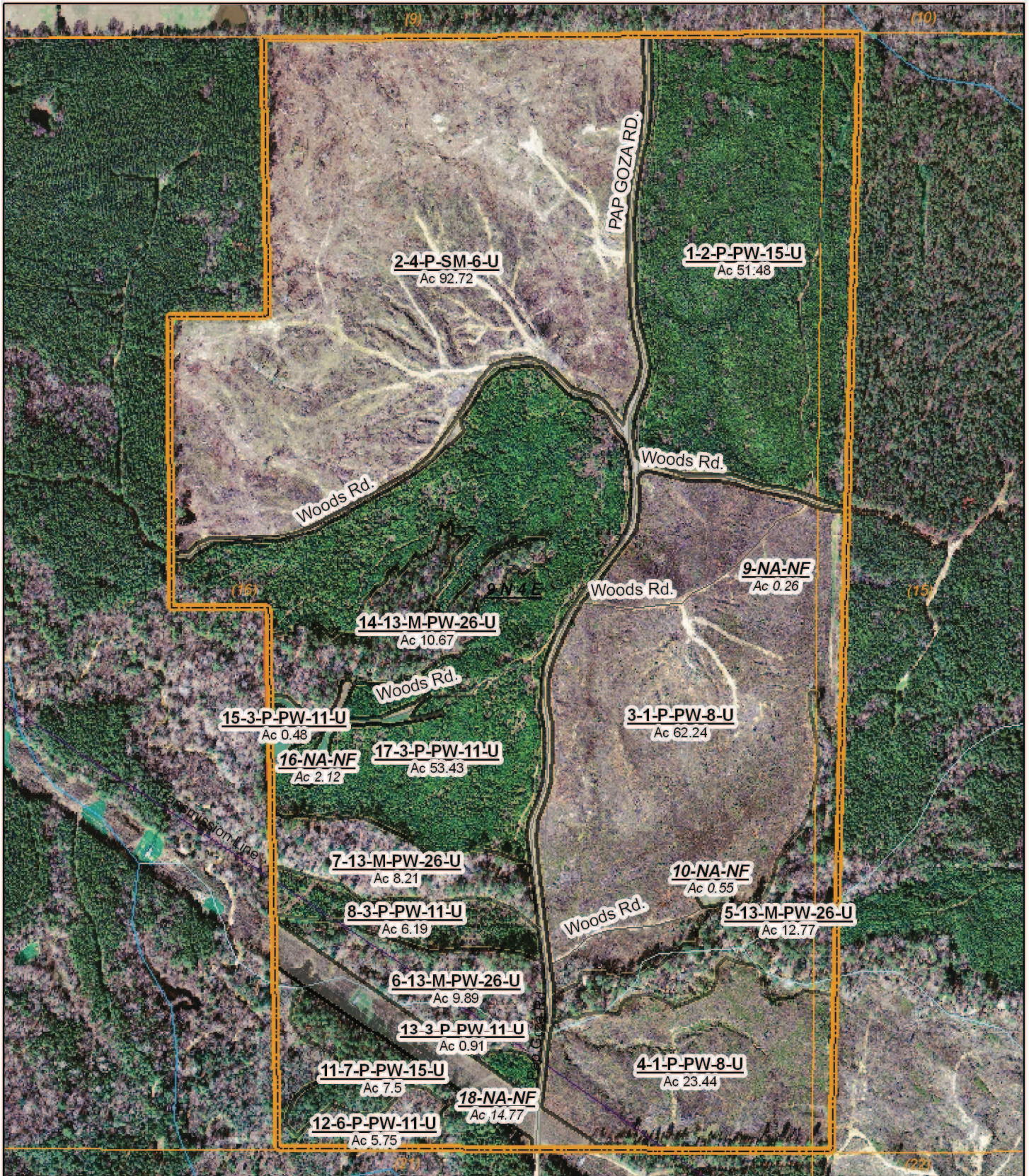


# JEFFERSON COUNTY SCHOOLS

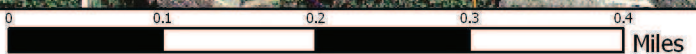
PAP GOZA ROAD Sect.16-T9N-R4E

2012 to 2021

363.37 Acres



(12/28/2011)





# LEGEND



## Property

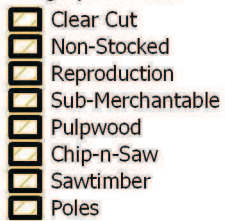


Property

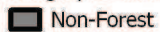
## Category 1: Stands



## Category 2: Stands

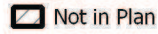


## Category 3: Non-Forest Stands



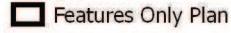
Non-Forest

## Category 4: Not in Plan Stands



Not in Plan

## Category 5: Features Only Plan Stand



Features Only Plan

## Property Roads/Trails



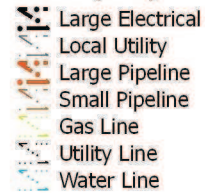
## Boundary Lines



## Boundary Lines (cont)



## Utilities (Lines)



Stand Activity Schedule for  
Jefferson County Schools  
16 9N 4E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2014</b>					
3	8	Harvest, Mechanical, 1st Thin, Machine, Loblolly	6	\$210.00	\$1,800.00
3	13	Harvest, Mechanical, 1st Thin, Machine, Loblolly	1	\$20.00	\$231.48
3	15	Harvest, Mechanical, 1st Thin, Machine, Loblolly	1	\$20.00	\$231.48
3	17	Harvest, Mechanical, 1st Thin, Machine, Loblolly	53	\$1,068.60	\$12,367.98
6	12	Harvest, Mechanical, Thin, Machine, Loblolly	6	\$210.00	\$1,380.00
7	11	Harvest, Mechanical, 1st Thin, Machine, Loblolly	8	\$280.00	\$2,400.00
Yearly Totals			75	\$1,808.60	\$18,410.94
<b>2016</b>					
2	1	Harvest, Mechanical, 1st Thin, Machine, Loblolly	51	\$1,020.00	\$11,574.96
3	8	Fire Protection, Other, Burn, Hand, Hazard Mitigation	6	\$180.00	\$0.00
3	13	Fire Protection, Other, Burn, Hand, Hazard Mitigation	1	\$30.00	\$0.00
3	15	Fire Protection, Other, Burn, Hand, Hazard Mitigation	1	\$30.00	\$0.00
3	17	Fire Protection, Other, Burn, Hand, Hazard Mitigation	53	\$1,590.00	\$0.00
6	12	Fire Protection, Other, Burn, Hand, Hazard Mitigation	6	\$180.00	\$0.00
7	11	Fire Protection, Other, Burn, Hand, Hazard Mitigation	8	\$240.00	\$0.00
Yearly Totals			126	\$3,270.00	\$11,574.96
<b>2018</b>					
2	1	Fire Protection, Other, Burn, Hand, Hazard Mitigation	51	\$1,530.00	\$0.00
Yearly Totals			51	\$1,530.00	\$0.00
<b>2019</b>					

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue	
1	3	Harvest, Mechanical, 1st Thin, Machine, Loblolly	62	\$1,240.00	\$18,999.90	
1	4	Harvest, Mechanical, 1st Thin, Machine, Loblolly	23	\$805.00	\$6,900.00	
			<b>Yearly Totals</b>	<b>85</b>	<b>\$2,045.00</b>	<b>\$25,899.90</b>
<b>2020</b>						
1	3	Fire Protection, Other, Burn, Hand, Hazard Mitigation	62	\$1,860.00	\$0.00	
1	4	Fire Protection, Other, Burn, Hand, Hazard Mitigation	23	\$690.00	\$0.00	
3	8	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	6	\$210.00	\$3,280.02	
3	13	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	1	\$35.00	\$590.00	
3	15	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	1	\$35.00	\$590.00	
3	17	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	53	\$1,855.00	\$29,499.80	
7	11	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	8	\$240.00	\$4,720.00	
			<b>Yearly Totals</b>	<b>154</b>	<b>\$4,925.00</b>	<b>\$38,679.82</b>
<b>2021</b>						
4	2	Harvest, Mechanical, 1st Thin, Machine, Loblolly	93	\$3,255.00	\$29,999.94	
			<b>Yearly Totals</b>	<b>93</b>	<b>\$3,255.00</b>	<b>\$29,999.94</b>
			<b>Grand Totals</b>	<b>584</b>	<b>\$16,833.60</b>	<b>\$124,565.56</b>