



Vision • Commitment • Pride

# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
HARRISON COUNTY BOE

Prepared By:  
Randy Wilson  
MS Forestry Commission

Time Period Covered by This Plan:  
2011 - 2021

Date Plan Prepared:  
2012-02-15

Plan Type:  
Stewardship / Stewardship

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

**Property Name: 16\_5\_11**

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: HARRISON COUNTY BOE  
Mailing Address: 11072 Highway 49  
City, State, Zip: Gulfport, MS 39503  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 228-539-6503  
Fax Number:  
E-mail Address: jtrosclair@harrison.k12.ms.us  
Social Security Number (optional): 646000430

**FORESTER INFORMATION**

Name: Randy Wilson , Service Forester  
Forester Number: 00000  
Organization: MS Forestry Commission  
Street Address: 14601 County Farm Rd.  
City, State, Zip: Gulfport, MS 39503  
Contact Numbers: Office Number: 228-831-3359  
Fax Number:  
E-mail Address: rwilson@mfc.state.ms.us

**PROPERTY LOCATION**

County: Harrison    Total Acres: 650    Latitude: -89.1    Longitude: 30.61  
Section: 16    Township: 5S    Range: 11W

**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 composed of planted slash pine plantations (148 acres), naturally regenerated longleaf and slash (229 acres) and planted longleaf (88 acres). Forty-seven acres are non-forested roadways (Highway 67 and county roads). Saucier Creek runs the entire length of the section from north to south and as a result 128 acres are in streamside management zones which will be managed in accordance with Mississippi's Best Management Practices.

The section can be easily accessed by Highway 67 as well as Turan Road.

*Recommended Activities*

During the time period covered by this management plan, reforestation, prescribed fire, thinnings, invasive species control and boundary line maintenance will be performed on this section.

*Water Resources*

Saucier Creek has been identified as a perennial water resource and will be managed according in accordance with Mississippi's Best Management practices as a streamside management zone (SMZ). Intermittent streams and drains identified will be also 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 this section.

*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.

*Archeological/Cultural Resources*

No archeological or cultural resources were identified during the reconnaissance of this section. However if any should be discovered the prescribed activities will be altered to protect sensitive areas.

**GENERAL PROPERTY RECOMMENDATIONS**

*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*

This property will managed so as to be aesthetically pleasing to the landowner as well as the community. This is especially important on this section due to the large daily volume of traffic on Highway 67. Prescribed practices will be scheduled so as to give the general public a positive outlook on silvicultural practices.

*Boundary Lines*

Boundary lines will be maintained on this section in 2013 and 2017.

*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.

*Forest Protection*

A healthy, vigorously growing forest is the best defense to an attack from a variety of insects, pests and pathogens.

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**SOIL TYPES**

*Poarch*

The Poarch component makes up 85 percent of the map unit. Slopes are 5 to 12 percent. This component is on hillslopes. The parent material consists of sandy and 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 moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 45 inches during January, February, March, December. 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 = 90. Longleaf Site Index = 73. Slash Site Index = 90.

*Harleston*

The Harleston component makes up 85 percent of the map unit. Slopes are 2 to 5 percent. This component is on stream terraces. The parent material consists of loamy alluvium. 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 moderate. 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 January, February, March, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. Loblolly Site Index = 90.

*Nugent*

The Nugent component makes up 55 percent of the map unit. Slopes are 0 to 2 percent. This component is on natural levees. The parent material consists of sandy alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 57 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. The Jena component makes up 30 percent of the map unit. Slopes are 0 to 2 percent. This component is on natural levees. The parent material consists of loamy alluvium. 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 low. This soil is frequently 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 5w. This soil meets hydric criteria.

*Ruston*

The Ruston component makes up 95 percent of the map unit. Slopes are 2 to 5 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 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 3e. This soil does not meet hydric criteria. Loblolly Site Index = 91. Longleaf Site Index = 76. Slash Site Index = 91.

*Smithdale*

The Smithdale component makes up 85 percent of the map unit. Slopes are 12 to 17 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 6e. This soil does not meet hydric criteria. Loblolly Site Index = 86. Longleaf Site Index = 69. Slash Site Index = 85.

*Atmore*

The Atmore component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on depressions. The parent material consists of loamy marine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly 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 not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, October, November, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. Loblolly Site Index = 90. Longleaf Site Index = 72. Slash Site Index = 90.

*Saucier*

The Saucier component makes up 45 percent of the map unit. Slopes are 5 to 12 percent. This component is on coastal plains. The parent material consists of loamy over clayey marine 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 low. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 39 inches during January, February, March. 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 Smithton component makes up 20 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly 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. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3w. This soil meets hydric criteria.

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*Eustis*

The Eustis component makes up 42 percent of the map unit. Slopes are 8 to 17 percent. This component is on hillslopes. The parent material consists of Sandy Marine Deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is 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. 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 7s. This soil does not meet hydric criteria. The Poarch component makes up 33 percent of the map unit. Slopes are 8 to 12 percent. This component is on hillslopes. The parent material consists of sandy and 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 moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 45 inches during January, February, March, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

*Ponzer*

The Ponzer component makes up 59 percent of the map unit. Slopes are 0 to 1 percent. This component is on drainageways. The parent material consists of Decomposed Organic Material over Loamy Alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly 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 frequently flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 60 percent. Nonirrigated land capability classification is 7w. This soil meets hydric criteria. The soil has a slightly sodic horizon within 30 inches of the soil surface. The Smithton component makes up 18 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly 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 frequently flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

## **STRATA**

*Strata 1 (Stands 7, 9, 12 and 14)*

**Stand Description**

This strata is composed of machine planted slash pine (148 acres) in the pulpwood size class. The strata is approximately 21 years old, with the exception of stand 9 which is 13 years old. The overall basal area is 90 with an estimated 455 trees per acre.



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Stand Recommendations

This strata is scheduled to receive a prescribed burn in 2013, and 2018.

A first thinning is scheduled for 2014. The forester in charge will perform a timber cruise to determine average diameter, tons per acre and basal area. If the strata has sufficient basal area across all stands, then the forester will request a thinning to reduce the basal area to +/-65. This may be achieved by row thinning, corridor thinning or operator select thinning.

*Strata 4 (Stands 5, 6, and 8)*

Stand Description

This strata is a naturally occurring, uneven aged longleaf stand consisting of 229 acres. The saplings in this stand range in age from 2 years to 12 years of age. The stand is adequately stocked with primarily longleaf saplings with a few slash present particularly south of Highway 67.

Stand Recommendations

This stand will be allowed to grow into the pulpwood and small chip and saw size class before any future harvests are scheduled. The strata is scheduled to receive a prescribed burn in 2013, and 2018.

*Strata 5 (Stands 2, 3, and 4)*

Stand Description

This strata is 128 acres and is composed of mixed pine and hardwood in the sawtimber size class. Most of the acreage is along Saucier Creek with some acreage in two perennial streams that flow into Saucier Creek from the west. In accordance with Mississippi's Best Management Practices, this strata will be managed as a streamside management zone (SMZ).

Strata Recommendations

This strata will be used as a natural fire break for the prescribed fires conducted in 2013, and 2018.

During extremely dry periods this strata may prove operable. If such conditions exist, the forester will evaluate these areas and possibly schedule a harvest at their discretion. Great care will be taken in this strata to ensure that harvest activities do not interfere with Mississippi's Best Management Practices or to reflect negatively on general forestry practices from the public traveling along Highway 67.

*Strata 6 (Stands 1 and 11)*

Strata Description

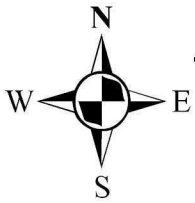
This strata is currently composed of a final harvest cutover (88 acres). Due to the late fall completion of the final harvest, site preparation was not feasible during fiscal year 2012.

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Strata Recommendations

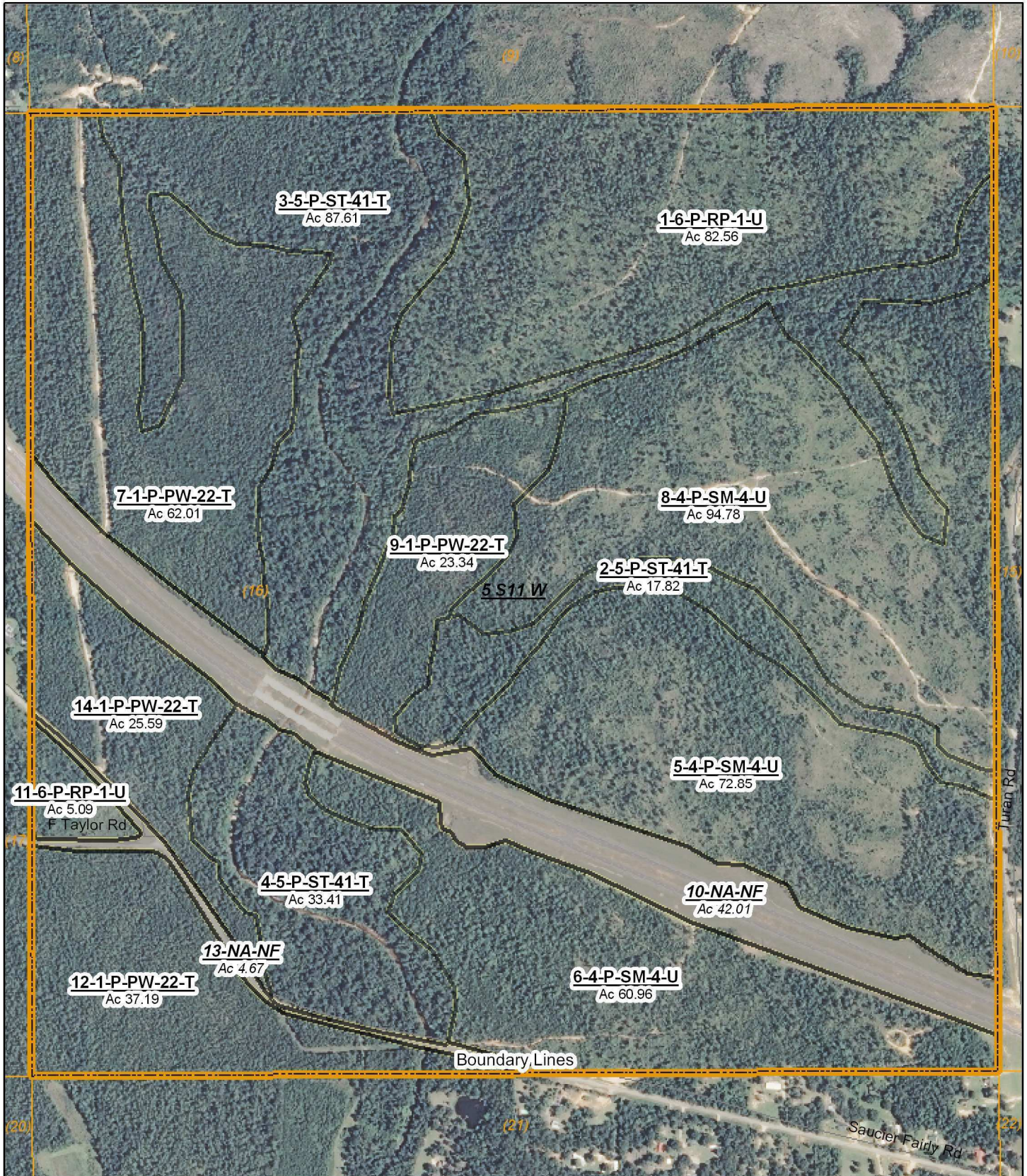
This strata is scheduled to be chemically site prepared in late summer, with a site preparation burn conducted in early fall and planted with containerized longleaf at a rate of 605 trees per acre.

The strata is scheduled to receive a prescribed fire in 2018. Prior to the prescribed fire being executed the forester in charge will ensure the seedlings will survive.

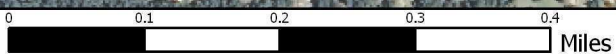


# HARRISON COUNTY BOARD OF EDUCATION

Section 16, Township 05S, Range 11W  
2012 to 2021  
640 Acres



(11/13/2012)



Stand Activity Schedule for  
HARRISON COUNTY BOE  
16 5S 11W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2013</b>					
1	7	Fire Protection, Other, Burn, Hand, Fuel Reduction	62	\$1,054.00	\$0.00
1	9	Fire Protection, Other, Burn, Hand, Fuel Reduction	23	\$276.00	\$0.00
1	12	Fire Protection, Other, Burn, Hand, Fuel Reduction	37	\$555.00	\$0.00
1	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	26	\$390.00	\$0.00
4	5	Fire Protection, Other, Burn, Hand, Hazard Mitigation	73	\$1,825.00	\$0.00
4	6	Fire Protection, Other, Burn, Hand, Hazard Mitigation	61	\$1,525.00	\$0.00
4	8	Fire Protection, Other, Burn, Hand, Hazard Mitigation	95	\$2,375.00	\$0.00
5	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	88	\$0.00	\$0.00
5	4	Fire Protection, Other, Burn, Hand, Fuel Reduction	33	\$330.00	\$0.00
6	1	Site Preparation, Other, Burn, Hand, Cut-Over	83	\$2,075.00	\$0.00
6	1	Regeneration, Artificial, Plant, Hand, Longleaf	83	\$7,885.00	\$0.00
6	1	Site Preparation, Chemical, Broadcast, Aerial, Combination	83	\$6,640.00	\$0.00
6	11	Site Preparation, Chemical, Broadcast, Aerial, Combination	5	\$400.00	\$0.00
6	11	Fire Protection, Other, Burn, Hand, Fuel Reduction	5	\$77.50	\$0.00
6	11	Regeneration, Artificial, Plant, Hand, Longleaf	5	\$475.00	\$0.00
<b>Yearly Totals</b>			<b>762</b>	<b>\$25,882.50</b>	<b>\$0.00</b>
<b>2014</b>					
1	7	Harvest, Mechanical, Thin, Machine, Slash	62	\$2,170.00	\$16,617.24
1	12	Harvest, Mechanical, Thin, Machine, Slash	37	\$1,295.00	\$7,061.82
1	14	Harvest, Mechanical, Thin, Machine, Slash	26	\$910.00	\$4,962.36

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>Yearly Totals</b>			<b>125</b>	<b>\$4,375.00</b>	<b>\$28,641.42</b>
<b>2018</b>					
1	7	Fire Protection, Other, Burn, Hand, Fuel Reduction	62	\$1,550.00	\$0.00
1	9	Fire Protection, Other, Burn, Hand, Fuel Reduction	23	\$575.00	\$0.00
1	12	Fire Protection, Other, Burn, Hand, Fuel Reduction	37	\$925.00	\$0.00
1	14	Fire Protection, Other, Burn, Hand, Fuel Reduction	26	\$639.75	\$0.00
4	5	Fire Protection, Other, Burn, Hand, Fuel Reduction	73	\$1,825.00	\$0.00
4	6	Fire Protection, Other, Burn, Hand, Fuel Reduction	61	\$1,524.00	\$0.00
4	8	Fire Protection, Other, Burn, Hand, Fuel Reduction	95	\$2,375.00	\$0.00
5	3	Fire Protection, Other, Burn, Hand, Fuel Reduction	11	\$275.00	\$0.00
5	4	Fire Protection, Other, Burn, Hand, Fuel Reduction	33	\$835.25	\$0.00
6	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	83	\$2,064.00	\$0.00
<b>Yearly Totals</b>			<b>504</b>	<b>\$12,588.00</b>	<b>\$0.00</b>
<b>Grand Totals</b>			<b>1,391</b>	<b>\$42,845.50</b>	<b>\$28,641.42</b>