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FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For: Greene County BOE

Prepared By: James Shumpert MS Forestry Commission

Time Period Covered by This Plan: 2012 - 2021

Date Plan Prepared: 2012-02-17

Plan Type: Stewardship / Stewardship

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

Property Name: S16 - T4N - R7W

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LANDOWNER INFORMATION

Name: Greene County BOE

Mailing Address: 528 West Oak Street

City, State, Zip: Leakesville, MS 39451

Country: United States of America

Contact Numbers: Home Number:

Office Number: 601-394-2364 Fax Number: 601-394-5542

E-mail Address:

Social Security Number (optional): 646000392

FORESTER INFORMATION

Name: James Shumpert, Service Forester

Forester Number: 02470

Organization: MS Forestry Commission

Street Address: P.O. Box 428

City, State, Zip: Leakesville, MS 39451

Contact Numbers: Office Number: 601-394-2785

Fax Number: 601-947-2947

E-mail Address: jshumpert@mfc.state.ms.us

PROPERTY LOCATION

County: Greene Total Acres: 654 Latitude: -88.7 Longitude: 31.31

Section: 16 Township: 4N Range: 7W

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.

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

The section is located in the Indian Hill Community of Greene County and is accessed by the George Williams Road; it also has a good network of woods roads throughout the property.

The section is mainly comprised of slash pine plantations; however, part of the section is a loblolly pine plantation. The mixed stand of slash and loblolly pine west of the George Williams Road was thinned in 2007 and is in the chip-n-saw product class. The pine plantations east and north of the George Williams Road are slash pine and are in the pulpwood product class. The stand at the northwest corner of the section is mainly pine sawtimber, but there is no access to it, which is the reason it was not cut when the rest of the section was harvested. The remaining forested stands in this section are hardwood drains. These areas represent a total of \pm 650 forested acres in timber management. In addition, this section has \pm 4 non-forested acres in leased agricultural fields and public roads with no forest management activities planned.

The soils on this section are primarily sandy loam in nature.

Water Resources

Mill Creek flows across the northwest corner of this section. Several other drains head up on this section and flow into Bear Creek and Big Creek. Perennial and intermittent streams and drains identified will be managed in accordance with Mississippi's Best Management Practices.

Archeological and 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.

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

The property was evaluated for the presence of threatened and endangered (T&E) species. Evidence of gopher tortoises was found on portions of this property. A more intense survey should be conducted to identify all gopher tortoise burrows within the boundaries of the property. Management activities should be designed and implemented to protect this species where the tortoise burrows are found.

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. Soils on this section are primarily sandy loam in nature.

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.

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.

Cogongrass Control

Cogongrass is present on every School Trust section in Greene County. While it appears that total eradication of this invasive species is impossible, every precaution must be made to prevent further spread. Treatment costs for cogongrass control are not addressed in the activities portion of this plan due to the uncertainty of the extent of cogongrass infestation on each section. An assessment is now being made to determine the best way to treat this problem.

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.

Ecological Restoration

Ecological restoration is the process of assisting the recovery of an ecosystem that has be degraded, damaged, or destroyed. A reconnaissance of the property has been conducted and no ecological restoration activities are recommended at this time.

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.

STANDS

1-3-P-CS-27-U (87 Acres)

Stand Description

The stand is a mixture of slash and loblolly pine that was planted in 1987 and was thinned in 2007; the stand is now in the chip-n-saw product class. The stand has also had some beetle activity in it in past years.

Stand Recommendations

The stand is recommended to have a second thin conducted in 2020. A prescribe burn should be carried out every three or four years to control undesirable vegetation and hardwood species.

Activity Recommendations

Harvest

The stand should have a marked thin in 2020 to remove all merchantable pines that do not have a DBH of 10 inches or above.

Fire Protection

A prescribed fire 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 (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

The stand is recommended to have a prescribe burn conducted in 2014 and again in 2017 to reduce the amount of undesirable vegetation and hardwood completion.

3-1-M-PW-45-U (44 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

4-1-M-PW-45-U (2 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

6-1-M-PW-45-U (6 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

7-1-M-PW-45-U (1 Acre)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

8-2-P-PW-21-U (94 Acres)

Stand Description

The stand contains slash pine which was planted in 1990 that is in the pulpwood and chip-n-saw product class. The stands average DBH is 7, with a basal area of 75, and 230 trees per acre.

Stand Recommendations

The stand is recommended to be thinned in 2018.

Activity Recommendations

Harvest

The stand should be thinned in 2018 to reduce the basal area to 60 and leave about 160 trees per acre.

9-1-M-PW-45-U (2 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

10-1-M-PW-45-U (21 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

11-1-M-PW-45-U (3 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

12-1-M-PW-45-U (14 Acres)

Stand Description

The stand is made up of small creeks and drains, which will be managed as a Streamside Management Zone (SMZ). The timber type is primarily hardwood pulpwood with some scattered slash pine sawtimber mixed in. The primary species of hardwood are sweet bay, black gum, red maple, yellow poplar, beech, magnolia, and water oak.

Stand Recommendations

The stand should have all merchantable pine that is over mature, damaged, suppress, and diseased marked to be remove when the adjacent stand's harvest is conduct. The basal area will be reduce to no lower than 55 so it will open the tree canopy and increase the diameter and height of the remaining timber. All Mississippi's Best Management Practices (BMP's) will be followed when harvest is conducted.

The stand is recommended to be managed as a corridor to provide wildlife species food and cover, and to preserve water quality.

13-5-P-PW-24-U (320 Acres)

Stand Description

The stand contains slash pine which was planted in 1987 that is in the pulpwood and chip-n-saw product class. The stands average DBH is 7, with a basal area of 75, and 270 trees per acre.

Stand Recommendations

The stand is recommended to be thinned in 2016. A prescribed burn should be carried out every three or four years to control undesirable vegetation and hardwood species.

Activity Recommendations

Harvest

The stand should be thinned in 2016 to reduce the basal area to 60 and leave about 160 trees per acre.

Fire Protection

A prescribed fire 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 (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

The stand is recommended to have a prescribe burn conducted in 2018 to reduce the amount of debris, undesirable vegetation, and hardwood completion.

14-6-CC-U (9 Acres)

Stand Description

The stand is an old abandoned hay field that was no longer being leased. The stand had a chemical site preparation on it and was planted with genetically improved loblolly pines in January 2012.

Stand Recommendations

The stand is recommended to serve as a corridor to provide wildlife species food and cover.

The stand has no timber harvesting activities recommended for the duration of this plan.

15-6-CC-U (1 Acre)

Stand Description

The stand is an old abandoned hay field that was no longer being leased. The stand had a chemical site preparation on it and was planted with genetically improved loblolly pines in January 2012.

Stand Recommendations

The stand is recommended to serve as a corridor to provide wildlife species food and cover.

The stand has no timber harvesting activities recommended for the duration of this plan.

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16-3-P-CS-27-U (50 Acres)

Stand Description

The stand is a mixture of slash and loblolly pine that was planted in 1987 and was thinned in 2007; the stand is now in the chip-n-saw product class. The stand has also had some beetle activity in it in past years.

Stand Recommendations

The stand is recommended to have a second thin conducted in 2020. A prescribe burn should be carried out every three or four years to control undesirable vegetation and hardwood species.

Activity Recommendations

Fire Protection

A prescribed fire 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 (on a limited basis) and other certified prescribed burning vendors are available to conduct prescribed burning.

The stand is recommended to have a prescribe burn conducted in 2014 and again in 2017 to reduce the amount of undesirable vegetation and hardwood completion.

Harvest

The stand should have a marked thin in 2020 to remove all merchantable pines that do not have a DBH of 10 inches or above.

OTHER PLAN ACTIVITIES

Boundary Lines

Line Recommendations

The section's boundary lines are well established and recommended to be maintained on a five year rotation.

Activity Recommendations

Property Activities

The boundary line will be painted in 2016, 2021, and will be maintained on a 5 year cycle. Routine inspections and general maintenance of the boundary lines will ensure overall appearance and aesthetics of the property.



Section 16, Township 04 North, Range 07 West

George Williams Road 2012 to 2021 654.42 Acres



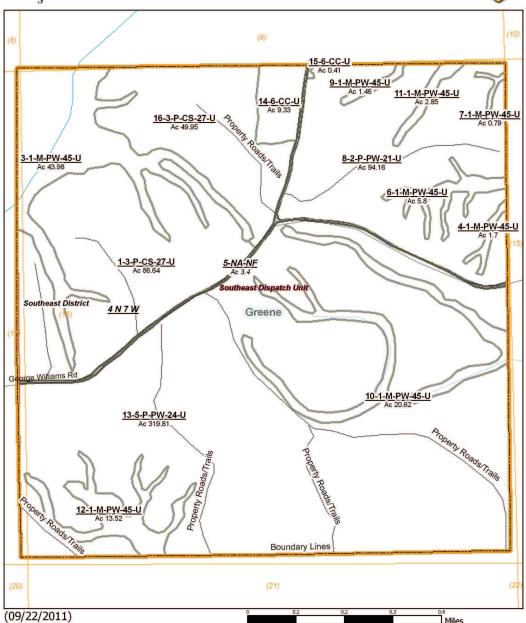




Section 16, Township 04 North, Range 07 West

George Williams Road 2012 to 2021 654.42 Acres



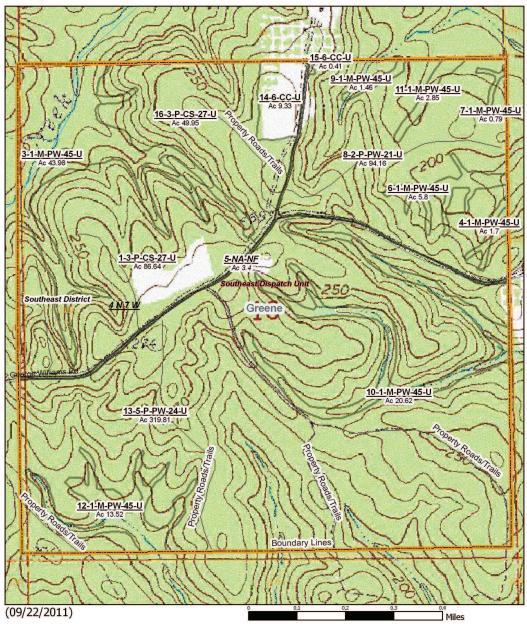




Section 16, Township 04 North, Range 07 West

George Williams Road 2012 to 2021 654.42 Acres





Legend

Section 16, Township 04 North, Range 07 West



Property Property (1)	Category 3: Non-Forest Stands Non-Forest (1)	Boundary Lines Property (1)	
Froperty (1)	INOTIFICIESE (1)	Troperty (1)	
Category 1: Stands	Property Roads/Trails		
Chip-n-Saw (2)	Access Road (8)		
Pulpwood (10)			
Clear Cut (2)			
MFC Basemap			
County Boundary	Public School Districts	Physiographic Reg	dan.
County Boundary (1)	GREENE COUNTY SCHOOL DISTR	, , ,	ion
County Boundary (1)	GREENE COUNTY SCHOOL DISTR	(I) Fille Belt (1)	
Quadrangle Grid	US Congressional District	Soil Associations	
USGS Quad (1)	US Cong Dist #4 (1)	mclaurin-heid	
PLS Townships	MS Senate	prentiss-rose	lla-benndale (1)
PLS Townships (1)	43 (1)	Surface Geology	
		PASCAGOULA	A/HATTIESBURG (1)
Survey Districts	MS House	MFC Districts	
District 5 (1)	105 (1)	MFC Districts	(1)
Blockgroup (Census 2000)	Perennial Streams	- I'll c bistrice	(1)
Blockgroup (Census 2000) (1)	Perennial Streams (1)	MFC Dispatch Unit	
Block (Census 2000)	Intermittent Streams	MFC Dispatch	n Units (1)
☐ Block (Census 2000) (2)	Intermittent Streams (1)	MS Outline	
Elock (college 2000) (2)	Incommedia of carro (2)	MS Outline (1)
Tract/BNA (Census 2000)	Hydrologic Units (Basins)		9
☐ Tract/BNA (Census 2000) (1)	LOWER CHICKASAWHAY RIVER ((1)	
County Roads	Historic Forest Boundary		
County Roads (3)	Longleaf Pine with Loblolly Pine-S	Slash Pine (1)	
School Sections	MS Forest Habitat		
School Sections (1)	SOUTHERN CLAY HILLS (1)		

Stand Activity Schedule for Greene County BOE 16 4N 7W

		20 7			
Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2014					
3	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	87	\$2,166.00	\$0.00
3	16	Fire Protection, Other, Burn, Hand, Fuel Reduction	50	\$1,248.75	\$0.00
		Yearly Totals	137	\$3.414.75	\$0.00
2016					
5	13	Harvest, Mechanical, 1st Thin, Machine, Slash	320	\$11,200.00	\$108,076.80
		Yearly Totals	320	\$11.200.00	\$108,076.80
2017					
3	1	Fire Protection, Other, Burn, Hand, Fuel Reduction	87	\$2,166.00	\$0.00
3	16	Fire Protection, Other, Burn, Hand, Fuel Reduction	50	\$1,248.75	\$0.00
		Yearly Totals	137	\$3,414.75	\$0.00
2018					
2	8	Harvest, Mechanical, 1st Thin, Machine, Slash	94	\$3,290.00	\$32,956.40
5	13	Fire Protection, Other, Burn, Hand, Fuel Reduction	320	\$7,995.25	\$0.00
		Yearly Totals	414	\$11,285.25	\$32,956.40
2020					
3	1	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	87	\$3,045.00	\$30,322.98
3	16	Harvest, Mechanical, 2nd Thin, Machine, Loblolly	50	\$1,748.25	\$17,409.57
		Yearly Totals	137	\$4.793.25	\$47.732.55
		Grand Totals	1.144	\$34,108.00	\$188.765.75