Vision • Commitment • Pride

FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:
Hinds County BOE

Prepared By:
John Randall Giachelli
MFC

Time Period Covered by This Plan:
2012 - 2021

Date Plan Prepared:
2012-02-22

Plan Type:
Stewardship / Stewardship

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

Property Name: 16-6N-4W

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

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LANDOWNER INFORMATION

Organization:	Hinds County Schools	
Name:	Hinds County BOE	
Mailing Address:	13192 Hwy 18	
City, State, Zip:	Raymond, MS 39154	
Country:	United States of America	
Contact Numbers:	Home Number:	601-857-5222
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	Fax Number:	
E-mail Address:	shandley@hinds.k12.ms.us	
Social Security Number (optional):		

FORESTER INFORMATION

Name:	John Randall Giachelli , Service Forester	
Forester Number:	02503	
Organization:	MFC	
Street Address:	3139 Hwy 468	
City, State, Zip:	Pearl, MS 39208	
Contact Numbers:	Office Number:	601-420-6018
	Fax Number:	
E-mail Address:	rgiachelli@mfc.state.ms.us	

PROPERTY LOCATION

County:	Hinds	Total Acres:	652	Latitude:	-90.61	Longitude:	32.36
Section:	16	Township:	6N	Range:	4W		

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

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.

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 West Hinds County. Access to this section can be reached off Goat Hill Road. This section consist of 206 acres of loblolly pine plantation, 366 acres of natural pine and mixed hardwood, 39 acres of bottomland hardwood that is a designated Streamside Management Zone and 40 acres of non-forest. The hardwood consists of Red Oak, White Oak, Hickory, Sweetgum, Poplar, Ash and miscellaneous species. 73 acres of the mature natural area will be final harvested in 2012 with other areas planned for final harvesting during the remainder of this plan. There is a boundary line issue on the West line that leaves 37 acres as inoperable.

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.

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: Memphis and Riedtown

Archaeological and Cultural Resources

There is a residential lease on the southern portion of the property lake. This can be accessed from Askew-Ferry road. All silvicultural activities will take this property into consideration.

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.

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 be 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.

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

Memphis
Slopes are 5 to 40 percent. This component is on uplands. The parent material consists of loess 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 very 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 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. Loblolly Site Index = 105.

Riedtown
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 30 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

STRATA

Strata 1
Strata Description

Strata 1: Stands 1, 15 and 18

Acres : 134

This strata consists of an advanced generation Loblolly Pine plantation that is 12 years old.The strata is well stocked and will need thinned during the life of this plan.

Strata Recommendations

These stands will be managed to a 35 to 40 year rotation. During this time frame, management activities such as thinnings, mid-rotation release to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production. This strata will need to be first thinned and burned to promote growth and the health of the stands.

Activity Recommendations

Harvest

The stands will receive a corridor thin in 2014. The stands will then need a cool season silviculture burn in 2016 to reduce fuel loads and competing vegetation.

Strata 2

Strata Description

Strata 2 : Stands 5, 9, 11, 12 and 16

Acres : 70

This strata is a well stocked Loblolly Pine plantation that is 9 years old. The stands will need thinned and burned during this plan.

Strata Recommendations

These stands will be managed to a 35 to 40 year rotation. During this time frame, management activities such as thinnings, mid-rotation release to control undesirable species, and prescribed burning to improve wildlife habitat will be used to keep stands at full production. The strata will need first thinned to premote healthy growth.

Activity Recommendations

Harvest

In 2017 this strata will receive a corridor thinning. This will be the first thin on this 70 acres.

Strata 3

Strata Description

Strata 3 : 2, 4, 8 and 19-23

Acres : 287

This strata consists of mainly hardwood with scattered Loblolly pine thoughout. The hardwood is mainly Red Oak, White Oak, Poplar, Ash, Sweetgum and miscellaneous

species. It is a well stocked strata that is 61 years old and will have some acres final harvested during this plan.

Strata Recommendations

These stands will be managed to 65 to 75 year rotation. During this time frame management activities such as thinning from underneath to remove poor quality and overcrowded trees will be done. At the end of the rotation, a final harvest will be conducted and reforestation activities will be completed to return these stands to full production. Some stands in this strata will be harvested and regenerated with advanced generation Loblolly Pine seedlings during this plan.

Activity Recommendations

Harvest

In 2012 stand 19 will be final harvested. This is a 76 acre stand that will have a 2 acre streamside management zone left for water quality and esosion purposes. The stand will be sprayed aerially with herbicide and burned the following summer to produce a clean planting site. The site will be planted with advanced generation Loblolly Pine seedlings at 622 trees per acre on a 7x10 foot spacing.

Harvest

In 2013 stand 21 that is 93 acres will be final harvested. All merchantable timber will be removed and artificially regenerated. The stand will be sprayed and burned the following summer to produce a good planting site. It will then be planted with advanced generation Loblolly Pine seedlings at 622 trees per acre on a 7x10 foot spacing.

Harvest

In 2020 stand 20 that is 86 aces will be final harvested. It will be sprayed aerially and burned the following summer to produce a quality planting site. The stand will then be planted with advance generation Loblolly Pine seedlings at 622 trees per acre on a 7x10 foot spacing.

Strata 4

Strata Description

Strata 4 : Stand 7

Acres : 39

This is a well stocked hardwood stand that serves as a streamside management zone to a large lake on the property. It consists of Red Oak, White Oak, Sweetgum and miscellaneous species.

Strata Recommendations

These stands will be managed as permanent SMZ's. Mature timber will harvested without reducing crown cover below 50 %. Thinning will be completed along with adjoining timber sales. No activities are scheduled for this stand during this plan.

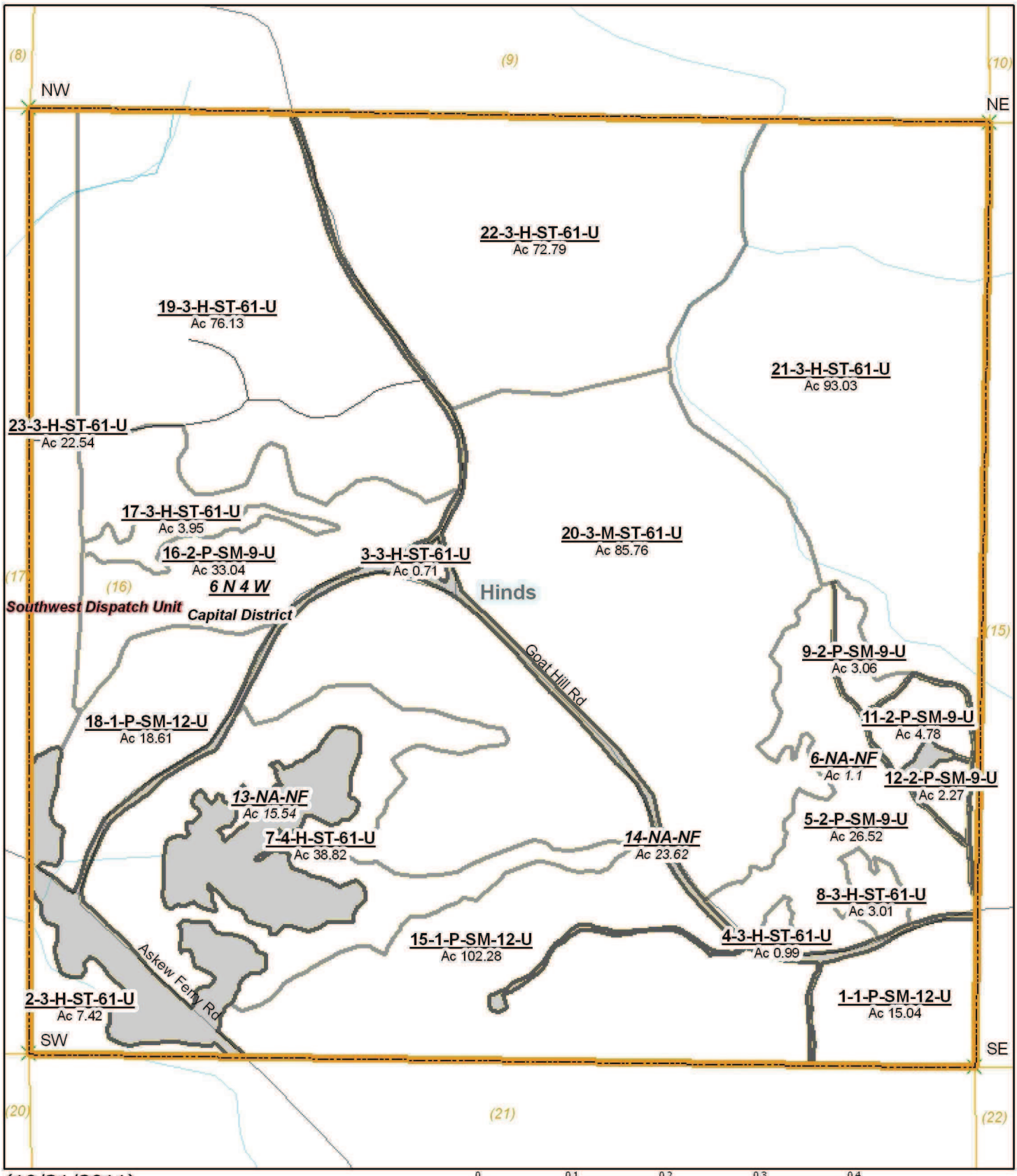
OTHER PLAN ACTIVITIES

Boundary Lines

Boundary line painting will be on a five year rotation starting in 2015.

Hinds County Board of Education

SEC 16 TWN 6N RGE 4W
2012 to 2021
651.68 Acres



(10/31/2011)

Hinds County Board of Education

Property
Property (1)

Category 1: Stands
Sub-Merchantable (8)
Sawtimber (11)

Category 3: Non-Forest Stands
Non-Forest (4)

Property Roads/Trails
Access Road (2)

Management Compartment
Management (1)

Hydrology (Lines)
Intermittent Stream (1)

MFC Basemap

County Boundary
County Boundary (1)

Quadrangle Grid
USGS Quad (1)

PLS Townships
PLS Townships (1)

Survey Districts
District 2 (1)

Blockgroup (Census 2000)
Blockgroup (Census 2000) (1)

Block (Census 2000)
Block (Census 2000) (4)

Tract/BNA (Census 2000)
Tract/BNA (Census 2000) (1)

County Roads
County Roads (8)

School Sections
School Sections (1)

Public School Districts
HINDS COUNTY SCHOOL DISTRICT (1)

US Congressional District
US Cong Dist #2 (1)

MS Senate
26 (1)

MS House
63 (1)

Intermittent Streams
Intermittent Streams (6)

Dam Locations
Dam Locations (1)

Hydrologic Units (Basins)
LOWER BIG BLACK RIVER (1)

Historic Forest Boundary
Loblolly/Shortleaf Pine-Oak (1)

MS Forest Habitat
DEEP LOESS PLAINS (1)

Physiographic Region
LOESS HILLS (1)

Soil Associations
memphis-natchez-collins (1)

Surface Geology
CATAHOULA (1)
VICKSBURG/CHICKASAWHAY (1)

Recreational Facilities
Other (1)

MFC Districts
MFC Districts (1)

MFC Dispatch Units
MFC Dispatch Units (1)

MS Outline
MS Outline (1)

Stand Activity Schedule for
Hinds County Schools
16 6N 4W

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
2012					
3	19	Harvest, Mechanical, Final, Machine, Misc Hardwood	76	$2,660.00	$108,122.92
		Yearly Totals	76	$2,660.00	$108,122.92
2013					
3	19	Site Preparation, Chemical, Broadcast, Aerial, Combination	76	$4,940.00	$0.00
3	19	Site Preparation, Other, Burn, Hand, Cut-Over	76	$1,900.00	$0.00
3	21	Harvest, Mechanical, Final, Machine, Misc Red Oak	93	$3,255.00	$200,415.00
		Yearly Totals	245	$10,095.00	$200,415.00
2014					
1	1	Harvest, Mechanical, Thin, Machine, Loblolly	15	$526.40	$4,835.36
1	15	Harvest, Mechanical, Thin, Machine, Loblolly	102	$3,579.80	$32,883.02
1	18	Harvest, Mechanical, Thin, Machine, Loblolly	17	$586.60	$5,388.34
3	19	Regeneration, Artificial, Plant, Hand, Loblolly	76	$6,460.00	$0.00
3	21	Site Preparation, Chemical, Broadcast, Aerial, Combination	93	$6,045.00	$0.00
3	21	Site Preparation, Other, Burn, Hand, Combination	93	$2,325.00	$0.00
		Yearly Totals	396	$19,522.80	$43,106.72
2015					
3	21	Regeneration, Artificial, Plant, Hand, Loblolly	93	$7,905.00	$0.00
		Yearly Totals	93	$7,905.00	$0.00
2016					
1	1	Wildlife Management, Other, Burn, Hand, Habitat Improvement	15	$375.00	$0.00
1	15	Wildlife Management, Other, Burn, Hand, Habitat Improvement	102	$2,550.00	$0.00

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
1	18	Wildlife Management, Other, Burn, Hand, Habitat Improvement	17	$425.00	$0.00
		Yearly Totals	134	$3,350.00	$0.00
2017					
2	5	Harvest, Mechanical, Thin, Machine, Loblolly	27	$928.20	$8,526.18
2	9	Harvest, Mechanical, Thin, Machine, Loblolly	3	$107.10	$983.79
2	11	Harvest, Mechanical, Thin, Machine, Loblolly	5	$167.30	$1,536.77
2	12	Harvest, Mechanical, Thin, Machine, Loblolly	2	$79.45	$729.81
2	16	Harvest, Mechanical, Thin, Machine, Loblolly	33	$1,156.40	$10,622.36
		Yearly Totals	70	$2,438.45	$22,398.91
2020					
3	20	Harvest, Mechanical, Final, Machine, Loblolly	86	$3,010.00	$74,820.00
		Yearly Totals	86	$3,010.00	$74,820.00
2021					
3	20	Site Preparation, Chemical, Broadcast, Aerial, Combination	86	$5,590.00	$0.00
3	20	Site Preparation, Other, Burn, Hand, Combination	86	$2,150.00	$0.00
		Yearly Totals	172	$7,740.00	$0.00
		Grand Totals	**1,272**	**$56,721.25**	**$448,863.55**