Sand Hill Lakes Mitigation Bank
Second Annual Report
December 2007

Executive Summary

The Sand Hill Lakes Mitigation Bank (SLMB) consists of approximately 2,155 acres in southern Washington Co. in the Sand Hill Lakes region of the Florida Panhandle (Figure 1). It is located just west of the intersection of SR77 and SR 279 within Township 1 North, Range 14 & 15 West. It contains approximately 850 acres of wetlands, 155 acres of natural lakes and ponds, and 1,150 acres of upland buffer communities. The FDEP permit for the SHLMB was issued September 5, 2005. This is the second annual report for the SHLMB. A synoptic listing of notable activities conducted prior to this report and those anticipated in the coming year are presented below.

Perimeter fencing with gates and signs was installed prior to March of 2005. Ongoing law enforcement has been conducted at the site since purchase of the bank property. A conservation easement was recorded for the SHLMB in February of 2006, preserving the wetland, aquatic and upland communities in perpetuity. Duncan Cairns, Tyler Macmillan and David Clayton were proposed by the NWFWMD as QMS officers for the SHLMB and approved by FDEP upon submittal. In accordance with permit requirements a mitigation fund was established for the bank. An archeological/historic survey was conducted at the SHLMB and approved by the Florida Division of Historical Resources (DHR). Construction activities were initiated in July of 2006 in accordance with all permit requirements. The majority of the restoration activities were to be initiated during 2005/2006. However, due in part to the delayed permit approvals and a lengthy archeological review and approval process by DHR, the initiation of many mitigation activities were initiated approximately a year from the proposed timeline.

All stabilization of erosion areas and re-vegetation, road fill removal, bridge and culvert replacement, dam removal, removal of pine plantation or thinning of slash pine areas, shrub reduction, fuel reduction and warm season fires have been completed. The replacement of the dam at Black pond and planting of cypress at Dykes Mill Pond, and planting of wire grass, and remaining long leaf pine will occur in January 2008.

Nearly all interim mitigation activities have been met in 2007 and remaining activities will be completed by January of 2008. The interim success criteria that have been met include: less than 2% exotic vegetation; preservation areas are maintaining or improving function; upland and wet pine flatwoods have measurably increased in herbaceous ground cover and decreasing in woody vegetative cover; targeted oaks have been reduced in number with limited re-growth; adequate numbers of pine exist within the polygons to meet permit requirements; dam has been removed in slough area, slough has drained and will be replanted with cypress in January 2008; prescribed burns have occurred in accordance with the burn plans; and all erosion areas, road removal, dam, bridge and culvert replacement has been completed.

Surveys of nuisance species (flora and fauna) have been conducted throughout the past 2 years in conjunction with the monthly site inspections. In addition a yearly fall site inspection for nuisance species occurs in conjunction with the annual monitoring as well as day to day monitoring by District and FWC staff. Several small patches of torpedo

grass (*Panicum repens*) were treated with Habitat at historic boat launch areas during August and September. No live plants were observed during the fall monitoring. Minor feral hog damage was observed at Dry and Dykes Mill Pond. Traps have been set for the hogs. Water level gages were installed and surveyed in on December of 2005 for 10 locations throughout the bank, and have been read by the FWC for the last two years and data supplied to the District.

The annual sampling for this report was conducted in November 2007. Most of the management activities that will be used to restore the wetlands and uplands were implemented or completed in 2007. It is expected that in future these polygons will achieve additional success criteria as management activities continue in 2008.

Pedestrian surveys were conducted for both wetland and uplands. The pedestrian surveys were very useful in providing detailed species lists and a greater understanding of species diversity for each community. In addition the pedestrian surveys cover far more area of the polygon that may reveal late successional and threatened or endangered species. The pedestrian surveys were also useful in identifying pockets of nuisance species and determine fuel loads. Overall, species diversity was excellent throughout the SHLMB and plants were healthy.

Table of Contents

List of Figures and Tables

Tables

Introduction

The Sand Hill Lakes Mitigation Bank (SLMB) consists of 2,155 acres in the southern portion of Washington Co. in the Sand Hill Lakes region of the Florida Panhandle (Figure 1). It is located just west of the intersection of SR77 and SR 279, and is within Township 1 North, Range 14 & 15 West. It contains approximately 850 acres of wetlands including high quality cypress sloughs and strands, degraded hydric pine flatwoods, bayheads, seepage slopes, and approximately155 acres of natural solution ponds and shallow, gently-sloped lakes connected by streams and ditches. The remaining 1,150 acres of consist of secondary growth upland buffer communities (including high quality and degraded sand hill communities as well as sand pine plantation, slash pine plantation, and mixed hardwoods) (Figure 1a).

The SHLMB occurs on the divide between the Choctawhatchee and St. Andrew Bay watersheds. The majority of the proposed Bank is in the surface headwaters of Pine Log Creek, which flows westerly and southwesterly to Pine Log State Forest and ultimately to the Choctawhatchee River and Bay. However, because of the karst nature of the Sand Hill Lakes the SHLMB is also a recharge area for Econfina Creek, which, via Deer Point Lake, is the water supply for Panama City.

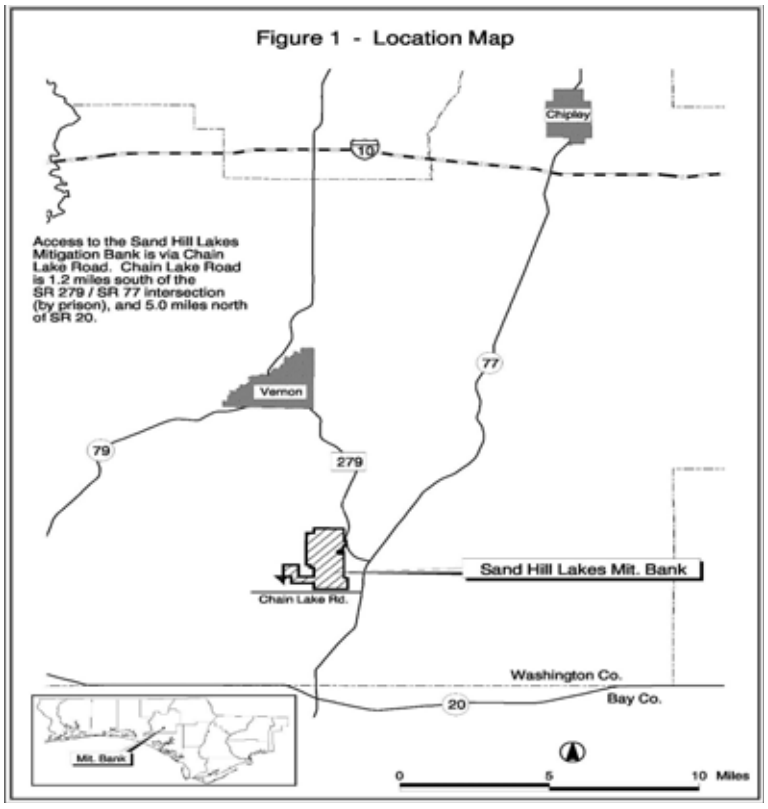
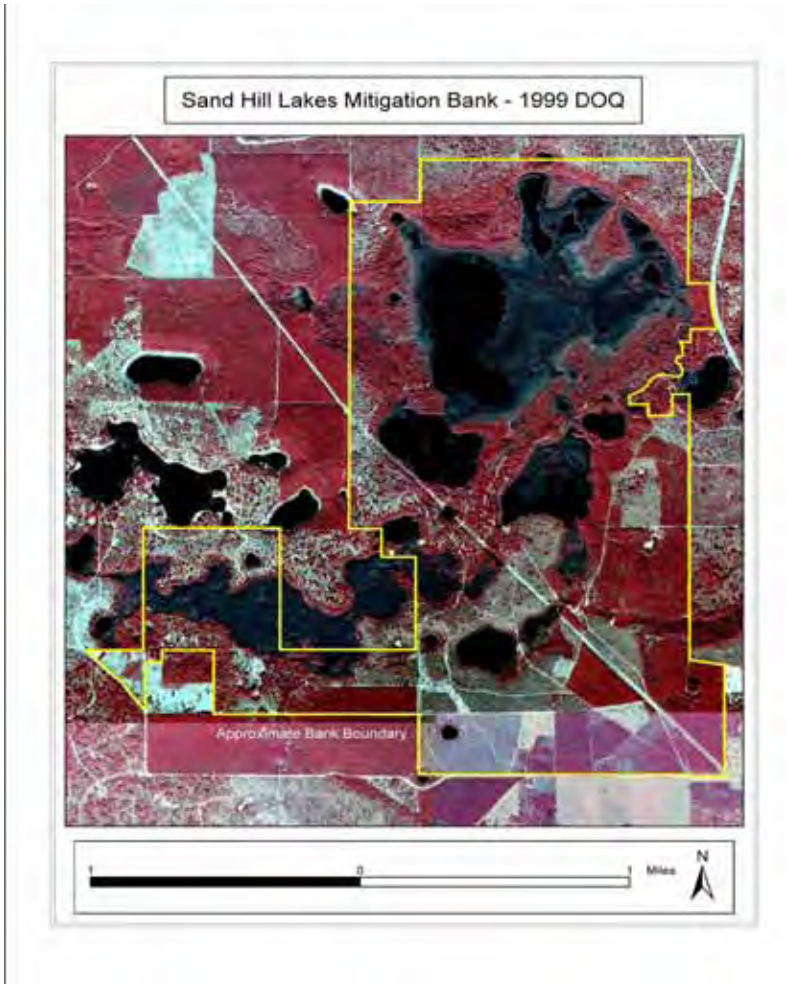


Figure 1a. SHLMB boundary map and habitats



Bank Establishment and Implementation of Permit Requirements

The permit for the Sand Hill Lakes Mitigation Bank (SHLMB) was issued by the DEP on September 5, 2005. This document represents the second annual report for the SHLMB. Perimeter fencing with gates and signs were installed prior to March of 2005. Law enforcement has been conducted at the site since the property was purchased and is ongoing at the SHLMB. A conservation easement was recorded for the SHLMB on 2/28/06, preserving the wetland, aquatic and upland communities in perpetuity. QMS officers Duncan Cairns, Tyler Macmillan and David Clayton were selected by the NWFWMD and approved by the DEP. In accordance with permit requirements a mitigation fund was established for the bank. An archeological and historic survey was conducted for the SHLMB and approved by the Division of Historical Resources. Construction activities were initiated in July of 2006, in accordance with permit requirements.

Mitigation Activities

Work Schedule

According to the proposed work schedule for the SHLMB found on page12 of the SHLMB permit, the majority of the restoration activities were to be initiated during 2005-2006. However, the restoration activities were postponed due to delays in permit issuance, recording of conservation, and additional time needed to complete and approve the archeological study. Consequently, many of the restoration activities were delayed by approximately 1 year. A revised schedule was included in the first monitoring report. In 2007, the majority of the construction and restoration activities were completed and an updated work schedule has been provided (Table 1).

Table 1. Restoration work schedule

Activity	Estimated Completion Date
Conservation easement, QMS	**Completed** 3/06
Fencing and signage	**Completed** 3/05
Site security / law enforcement / internal gaiting / road closures	Ongoing
Stabilization of 10 erosion sites	**Completed** 3/2007
Hydrologic enhancements - Replacement of Black Pond dam - Removal of Dykes Mill Pond dam - Removal of road fill at (3) sites - Construction of 2 bridges and replacement of 3 culverts	 Initiated 10/07 **Completed** 8/06 **Completed** 3/07 **Completed** 3/07
Removal of pine plantation and thinning of slash pine	**Competed** 10/2007
Removal of oak overgrowth and replanting with longleaf pine	**Competed**: Oak removed 2005/2006 Pine planted 2005 and 12/2007
80% completion of initial growing season and fuel reduction fires in areas to be maintained as oak / pine community	**Completed** 12/2005
Initial thinning, roller chopping, and fuel reduction fires in hydric pine	**Completed** Initial burns 8/05 **Completed** shrub reduction 6/07 (Gyrotrack) **Completed** Pine thinning 10/07 Completed site prep burns 12/2007
Supplemental wiregrass seeding if necessitated by onsite conditions	2008/2009
Installation of water level gages	**Completed** 12/05
Baseline assessments of vegetation	**Completed** 2004/2005
Fire Management / Monitoring Year 1 / Annual Report	**Completed** 2005/2006 report
Fire Management / Monitoring Year 2/ Annual Report	**Completed** 2007/2008 report, **Completed** winter burns 12/07
Fire Management / Monitoring Year3 / Annual Report	2009/2010 report
Fire Management / Monitoring Year 4 / Annual Report	2010/2011 report
Fire Management / Monitoring Year 5 / Annual Report	2012/2013 report
Perpetual Ecological Management	2013 +

Hydrologic Enhancements

Hydrologic enhancements include the complete removal of 3 fill-road crossings, installation of bridges at 2 crossings and 3 culverts and the removal or replacement of 2 failing water control structures, the remediation of 10 erosion areas, the stabilization of 1 boat launching site, and construction of one rain shelter (Figures 3 and 4).

The removal of the failing water control structure at Dykes Mill Pond and construction of three bridges (#1, #3, #7), and two culverts (#9, #10-A-B) was initiated in July 2006 and completed in April of 2007 in accordance with permit conditions (Figure 3). The graded areas were stabilized and seeded in early 2007 with season-appropriate, non-invasive annual grass to reduce potentially turbid runoff. Hay bales and silt fences have been left due to drought. On June 30th, the graded areas were seeded with brown-top millet. Current water levels at the bridge and culvert sites for all but Greenhead Branch are well below the replaced structures.

The removal and re-vegetation of three fill-road crossing was initiated in January of 2007 and completed in March of 2007 (Figure 3). Erosion area #6 was restored in July of 2006 as part of road enhancement project while remediation of the remaining 9 erosion sites was initiated in January and completed in April 2007. Hay bales and silt fences were installed in accordance with the permit requirements (Figure 3 and 4). The areas were planted as each site was completed. Sites were planted in accordance with the approved planting plan. Graded areas were stabilized with annual rye grass and seeded with brown-top millet on June 30, 2007. Sites were monitored during the summer and fall monitoring. Inadvertently, the contractor used Bahia grass hay to stabilize soils at the two erosion areas 1-3 (Cat Pond and the road removal at Deep Edge). The contractor was required to treat each area with herbicide until the Bahia grass was eliminated. Initial treatments occurred in May with subsequent treatments in September. No living material was observed during the fall monitoring. Supplemental wire grass and long leaf pine seedlings will be planted at these sites in 2008. In addition, poor survival was observed at the erosion sites 1, 2, 4, 5, and 10. Supplemental planting will occur in 2008 in accordance with the permit requirements.

The replacement of the water control structure at Black Pond (#2) was initiated in October 31, 2007 and is expected to be completed by the end of January 2008.

Finally, the stabilization of one boat launch area on Dry Pond was completed in September 2007. Photographic documentation for all these activities has been included in the semi-annual report.

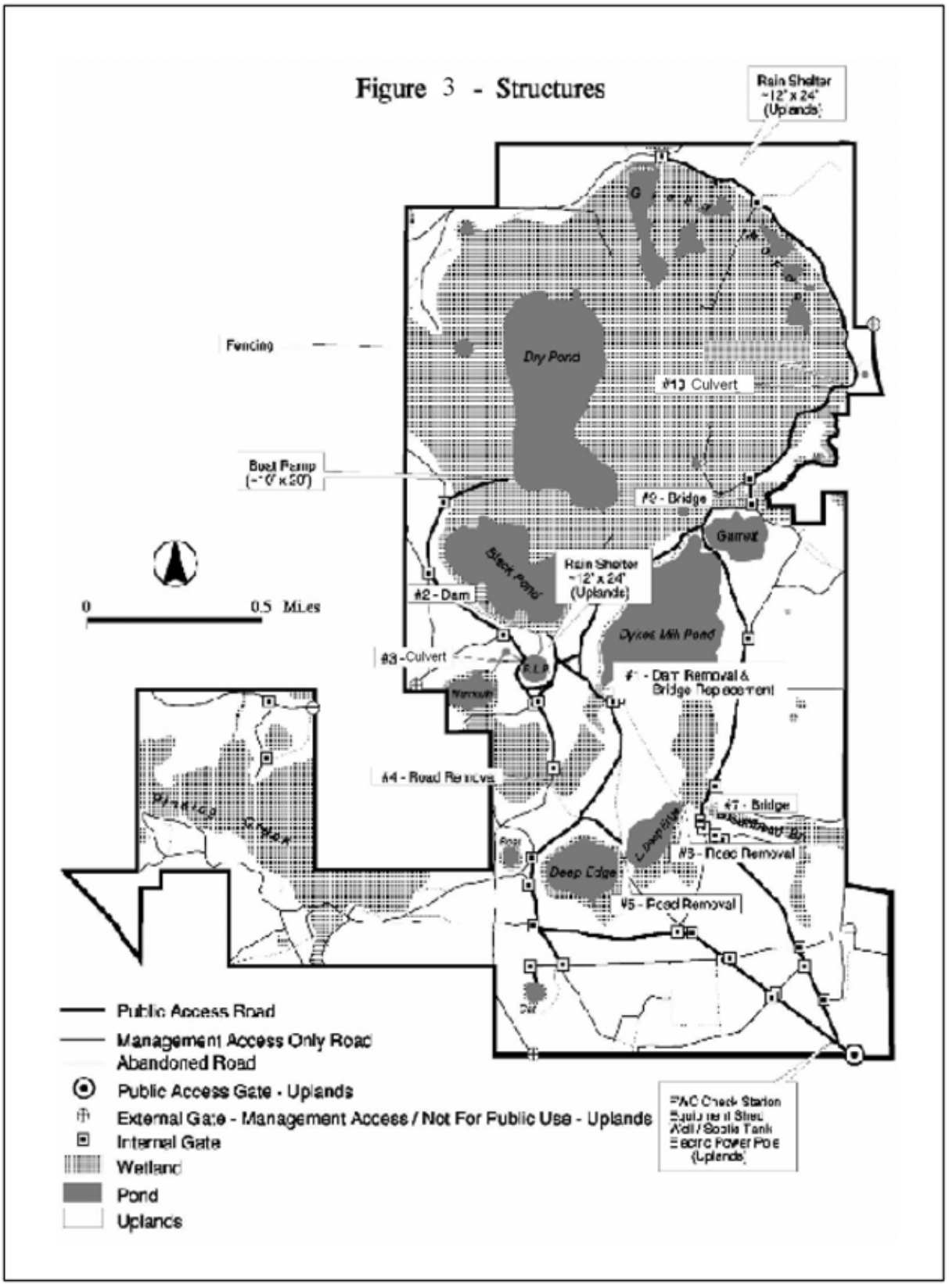
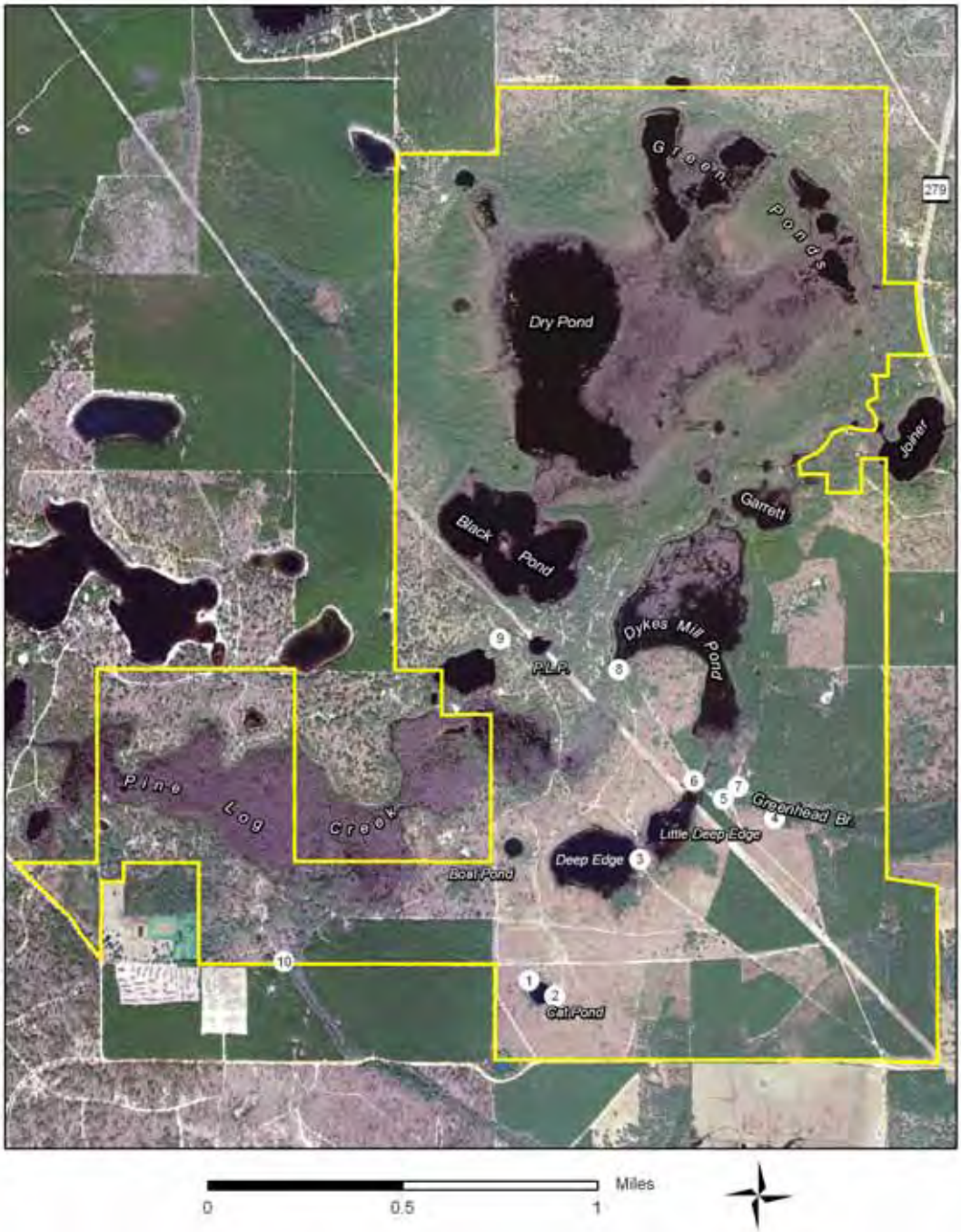


Figure 3 - Structures
Rain Shelter
~12' x 24'
(Uplands)
Fencing
Dry Pond
#10 Culvert
Well Pump
(~8' x 20')
#9 - Bridge
Garret
Black Pond
Rain Shelter
~12' x 24'
(Uplands)
#2 - Dam
0
0.5 Miles
#3 - Culvert
Dykes Mill Pond
#6 - Dirt Removal &
Bridge Replacement
#4 - Road Removal
#7 - Bridge
#8 - Road Removal
Deep Edge
#5 - Road Removal
Public Access Road
Management Access Only Road
Abandoned Road
Public Access Gate - Uplands
External Gate - Management Access / Not For Public Use - Uplands
Internal Gate
Wetland
Pond
Uplands

Figure 4 - Erosion Stabilization Sites



Fire Management

The bank is divided into 14 Management Units that range from 0.25 to ~580 acres Prescribed fire is an integral component of the management, enhancement and restoration for six of the management units (Management Units 2, 3, 8, 10, 11, and 12), and will also be used to manage portions of the power line ROW(Figure 5). The remaining Management Units are wetlands or aquatic systems not typically managed with fire, although fire from adjacent Units may be allowed to burn into them when conditions allow. Prescribed burns have generally be conducted during the growing season (March through August), although initial dormant-season fuel-reduction fires have been required in some areas. Burns are planned for 1-3, 3-5 and 5-7 year cycles, although fuel levels, prevailing weather patterns and other on-site conditions may necessitate modification of burn cycles. Burn coverage of 80% or more within a polygon has been considered a successful burn. Prescribed fire is intended to inhibit establishment of woody species, promote fire-adapted species, and stimulate seed production of desirable herbs. Fire prescriptions have been written to comply with open burning laws (Florida Statutes 590) and liability considerations. Safety and protection of property will be the priority concern of the Florida Certified Prescribed Burn Manager (FCMB).

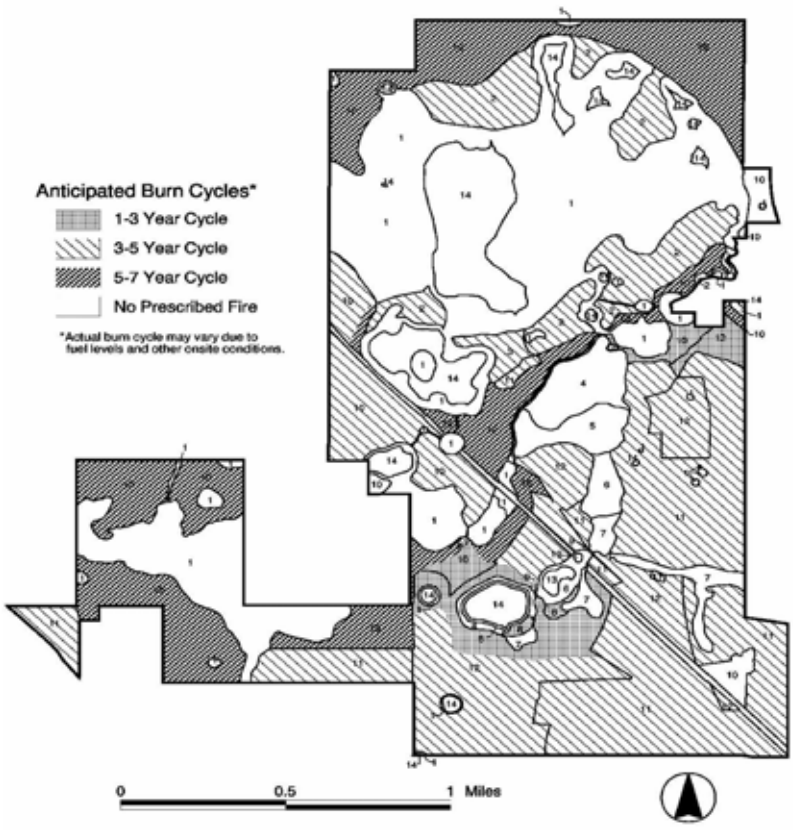
Fire was re-introduced to the SHLMB during the winter of 2004 to portions of Management Unit 11 and 12. Subsequently portions of the sand hills and hydric pine flatwoods were burned during the summer of 2005 with the remaining initial burns completed by December of 2005 in accordance with the Fire Management Plan (Figure 6). In areas with a high fuel loads such as Management Unit 2, 3, 8 and some portions of Management Unit 10 adjacent to Black pond dormant season fuel reduction fires were utilized. However in Management Unit 11 and 12 initial burns reduced fuel loads to the extent that warm season burns were conducted. Wire grass flowered in these areas following the fire and plants appeared healthy. The burns at the SHLMB have also been successful in reducing woody vegetation coverage as well as stimulating a seed bank of fire adapted species. Prior to the initiation of fire, woody goldenrod was the dominant species, but the initial fires greatly reduced the woody goldenrod cover and stimulated the wire grass.

In the 2007 monitoring, Centipede grass was not observed in areas that had hot fires. While never a large component of the vegetation, it appears that centipede grass may be removed through successive fires.

In 2007, it was anticipated that 287 acres would be burned during winter 2006/2007. However, due to the extended drought and unsafe fire conditions 69 acres were burned with 66 acres meeting the 80% requirement (Figure 7). No warm season burns were attempted due to the extended drought. During the winter 2007/2008, oak reduction, and site preparation burns are scheduled for 599 acres. The first burns were conducted on November 16, 2007. To date 314 acres have been burned in burn units 5-19 (152 acres), 5-18 (26 acres), 5-17 (6 acres), 5-16 (21 acres), 5-12 (33 acres), 5-11 (60 acres), and 5-10 (16 acres) (Figure 7a).

In addition to the prescribed burns at the SHLMB a wildfire occurred in the dry lake bottom of Dry Pond. The fire was thought to have started as the result of a lighting strike. The fire was first observed Friday (10/12/07) at about noon near the southeast corner of Dry Pond and moved north and east. DOF was contacted and arrived on site with a dozer/plow and gyrotrack. Efforts were made to extinguish the fire, but the fire continued to spot up so a containment line was established. The fire was contained to 12 acres of the lakebed and the majority of the cypress trees were saved.

Figure 5 - Anticipated Burn Cycles



Note: Numbers refer to Management Unit No.

Figure 6 - Areas Burned Since Inception of Bank Through 2006

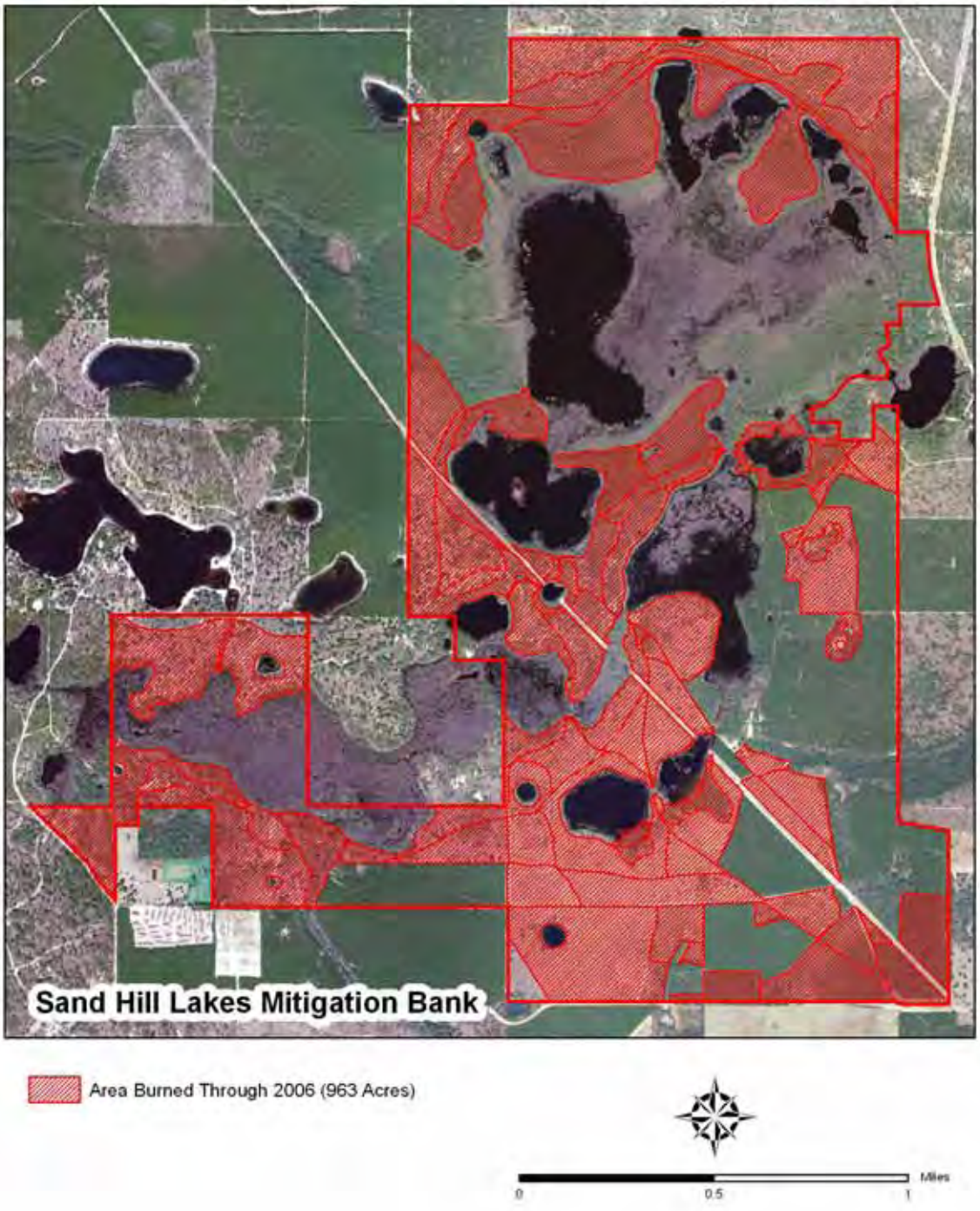


Figure 7. Winter Burns 2006/2007

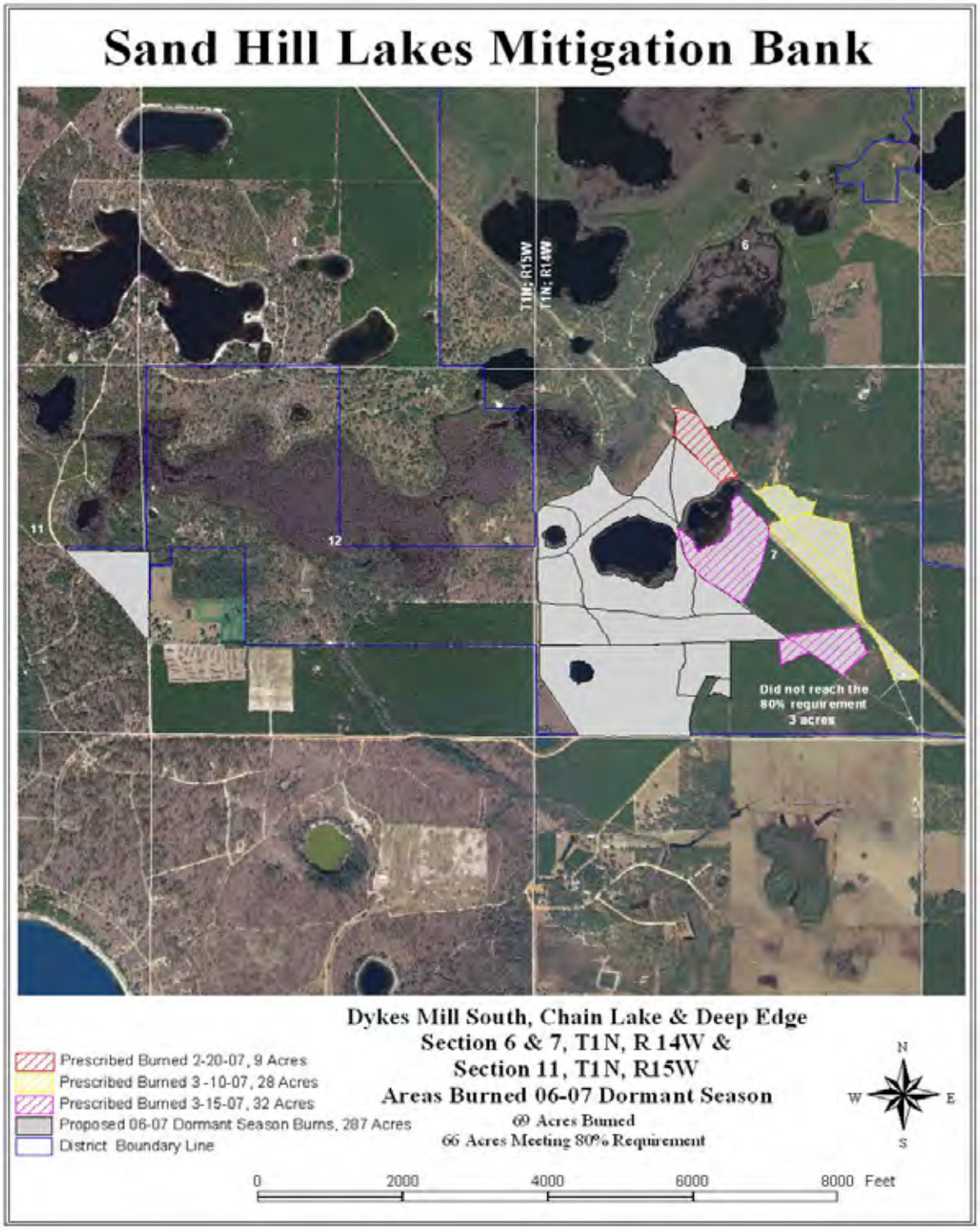
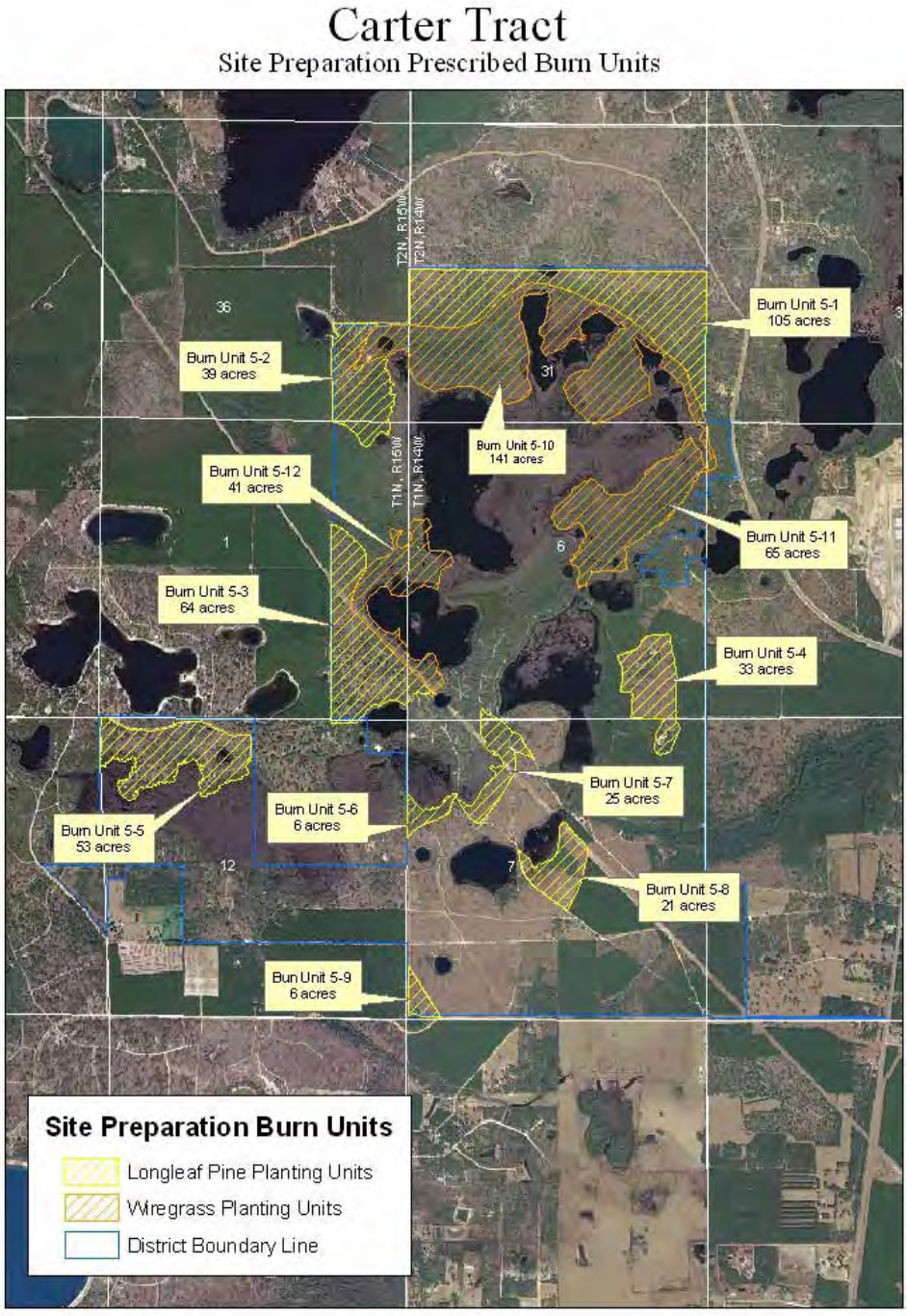


Figure 7a. 2007/2008 Winter Burns



Exotic Fauna and Vegetation

Surveys nuisance species have been conducted throughout the year in conjunction with the monthly monitoring. In 2006, one female hog was trapped and patches of torpedo grass were observed at historic boat launches. These areas were treated by the Bureau of Invasive Plant Management on July 20th 2006. In 2007, several small patches of torpedo grass were again observed at the historic boat launch areas of several ponds (Figure 8). These areas were treated twice with Habitat on July 26th and August 6, 2007. No visible living plant material was observed during subsequent site visits. Inadvertently the contractor working on the road removal and stabilization of erosion areas used inappropriate Bahia grass hay to stabilize the soils for erosion areas 1 and 2 and 3 the road removal between Deep Edge and Little Deep Edge. The contractor was required to treat these areas with herbicide until the Bahia grass was killed. Treatments occurred in May and September. No living material was observed during the fall monitoring. Supplemental planting will occur at these sites in 2008. Minor feral hog damage has been observed in scattered localities adjacent to the eastern edge of Dry Pond and western edge of Dykes Mill Pond. Traps have recently been set to trap the hogs.

Figure 8 - Nuisance and Exotic Species Tracking

Monthly Site Inspections:

Monthly inspections were conducted for the SHLMB. Copies of the monthly inspection reports are included in (Appendix 1).

Monthly Water Gage Assessments:

Water levels gauges were installed and surveyed in on December of 2005 for 10 locations throughout the bank. These locations include Black Pond, Power Line Pond, Pine Log Creek, Deep Edge Pond, Little Deep Edge Pond, Dykes Mill Pond, Ditch connecting to Pine Log Creek #7, natural channel from Joiner Lake to the Green Pond, Green Ponds, and Dry Lake (Table 2, Figure 9). The gauges were read monthly by the Florida Wildlife Conservation Commission staff and the results submitted to the NWFWMD (Table 2, Figure 9). In 2006, the water levels were above the gages until April, then from May to December then water levels were below the staff gages for all but Little Deep Edge and Dykes Mill Pond. The drought continued in 2007. Water levels were below the staff gages for all the entire year for all locations except Little Deep Edge Pond and Dykes Mill Pond, and Dry Pond.

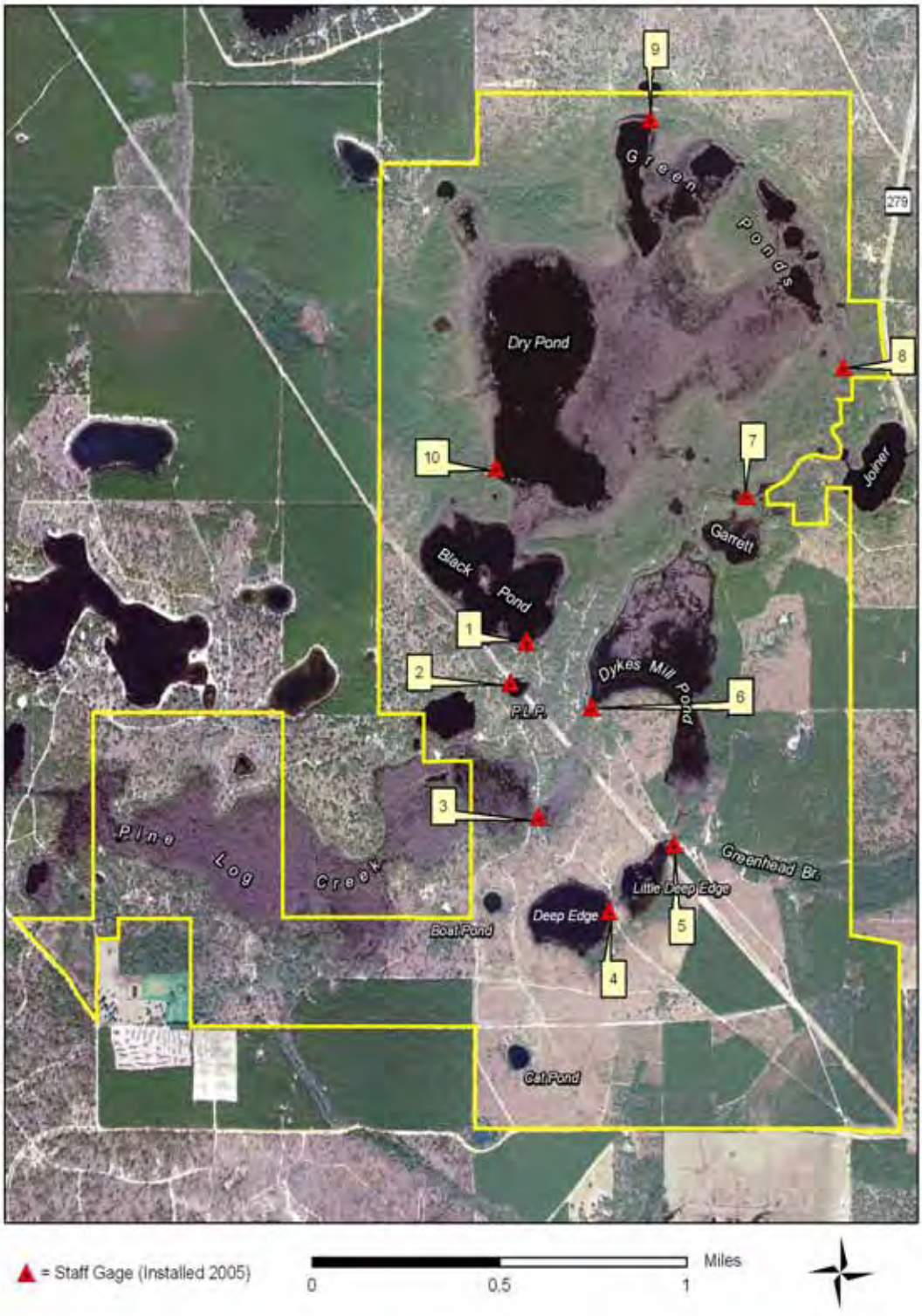
TABLE 2: WATER LEVEL STAFF GAGE READINGS - 2007

(All Readings are in Feet)

Date	Gage 1 Black Pond	Gage 2 Power Line Pond	Gage 3 Pine Log Creek	Gage 4 Deep Edge Pond	Gage 5 Little Deep Edge Pond	Gage 6 Dykes Mill Pond	Gage 7 Joiner/ Dry Ditch	Gage 8 Joiner/ Green Ponds Channel	Gage 9 Green Ponds	Gage 10 Dry Pond
1/3/07	Dry	Dry	Dry	Dry	0.50	2.80	Dry	Dry	Dry	2.18
2/6/07	Dry	Dry	Dry	Dry	0.60	3.18	Dry	Dry	Dry	Inaccessible
3/5/07	Dry	Dry	Dry	Dry	0.29	3.05	Dry	Dry	Dry	2.32
4/507	Dry	Dry	Dry	Dry	Dry	2.5	Dry	Dry	Dry	1.80
5/3/07	Dry	Dry	Dry	Dry	Dry	2.17	Dry	Dry	Dry	1.46
6/4/07	Dry	Dry	Dry	Dry	Dry	0.9	Dry	Dry	Dry	0.58
7/5/07	Dry	Dry	Dry	Dry	Dry	0.2	Dry	Dry	Dry	Dry
8/3/07	Dry	Dry	Dry	Dry	Dry	0.25	Dry	Dry	Dry	Dry
9/22/07	Dry	Dry	Dry	Dry	Dry	0.30	Dry	Dry	Dry	0.10
10/16/07	Dry	Dry	Dry	Dry	Dry	0.30	Dry	Dry	Dry	0.55
11/1/07	Dry	Dry	Dry	Dry	Dry	No data	Dry	Dry	Dry	No data
12/26/07	Dry	Dry	Dry	Dry	Dry	0.25	Dry	Dry	Dry	0.10

<Gage = Water level was down slope of staff gage.
DRY = Site is dry.
No data – site was inaccessible or unread

Figure 9 - Water Level Staff Gage Locations



Sand Hill Restoration

Activities: oak eradication, planting of pine

A total of 1,150 acres longleaf pine / wiregrass community, live oak forest and other buffer habitats occur on the SHLMB. The NWFWMD will provide perpetual ecological management for these habitats. Oak eradication in Management Unit 12 was completed for the majority of the site in August of 2005 with a small remaining portion completed in September of 2006. Turkey and live oaks were reduced to less than 150 trees per acre and stumps were painted with an approved herbicide to reduce stump sprouts. Similarly, oak coverage was reduced for significant acreage in Management Unit 10 in September of 2006. These areas have excellent wire grass cover and a well developed understory of sand hill species. To date a total of 550 acres of sandhills have had the oaks thinned, far exceeding permit requirements (Figure 10). Most of these areas have already been burned this winter and it is expected that these areas will be treated with warm season burns during the next rotation.

Prior to permit issuance, longleaf pine seedlings were planted in portions of Management Unit 12 in the winter of 2004**.** However, intense winter burns in early 2007 destroyed most of the planted pines in some areas. Additional plantings of longleaf pine at a rate of 436 trees per acre will occur in Management Unit 12 and portions of Management Unit 10 during the dormant season of 2007/2008.

Restoration activities for the existing sand pine plantation (~385 acres) and slash pine plantations (11.5 acres) were initiated in 2007 (Figure 11). The sand pine and slash pine plantations harvest began on June 15 and completed in November 16, 2007. All sand pine and slash pine scheduled for removal has been completed in accordance with permit requirements. These areas will be burned in the fall of 2008 and replanted in the winter of 2008/2009 with long leaf pine and supplemental plantings of wire grass tublings if necessary.

Figure 10 - Oak Removed Through 2006

Figure 11 - Management Unit 11 Pine Removal

Wet Flatwoods Restoration

According to the permit requirements, wet flatwood areas, Management Unit 2 and 3, the standing biomass of shrubs (primarily titi, gallberry and fetterbush) shall be reduced in cover by roller chopping, gyrotrack or hydro-axe- in a manner to promote the carrying of fire and to enhance the growth of herbaceous groundcover. A

gyrotract was used in Management Unit 2 to reduce the standing biomass of shrubs (Figure 12). The gyrotack work was initiated on March 13 and was completed by June16 2007. The black titi in these areas was extremely thick often with a dbh of 8-10". Even with the large "tree" size black titi, the gyrotrack was excellent in reducing the thick dense shrub cover to mulch. There were no noticeable track marks or ruts left by the gyrtotrack. The mulch within these areas was allowed to dry for several months prior to burning. Sites were burned in December of 2007. Shrub re-sprouts were observed in all areas. During the remainder of the growing season the shrub re-sprouts reached a height of about 3 foot in height. However shrub densities were greatly reduced, open ground was observed, and herbaceous species re-sprouted from the seedbank.

In Management Unit 3, the shrub layer was limited due to the dense overstory of planted pine. Wet flatwood herbaceous species were more common in these areas after the initial warm season burn (2006) and recent slash pine thinning (2007). The initial fire in this area reduced most of the shrubs to coppice sprouts. It was determined that the shrubs in this area could be managed through successive warm season fires. The second warm season fire is planned for Management Unit 3 in 2008.

Figure 12 - Management Unit 2 Brush Reduction

Annual Monitoring

In accordance with Specific Condition 26, all sampling locations have been identified (Figure 13). Fall monitoring methods as well as data analysis are described below. Sampling for the annual report was conducted on November 6-9, 15 and 16 2007. Raw data sheet, computational analysis, pedestrian surveys and photographic documentation are included in Appendix 2, 3 and 4. Oblique aerials were taken for the SHLMB on October 30, 2007 and have been included in Appendix 5.

The 2005-2006 Annual report by the Florida Fish and Conservation Commission was completed in October and can be found in Appendix 6 in accordance with Specific Condition 25f.

Quantitative Monitoring

Materials and Methods

Quantitative monitoring has been conducted in accordance with the methods described in Attachment H – Monitoring Plan. Quantitative vegetation monitoring occurred at the end of the growing season. This is the second annual monitoring report for the SHLMB.

The percent vegetation cover was monitored at transect locations shown in Figure 13. One-meter square quadrats were established along 600' transects at 20' intervals. In addition, each transect contained a permanently established photographic documentation stations, where qualitative quadrat (north, east, south, and west) observations were recorded (Appendix 4). Transect termini will be marked using iron rebar surrounded by PVC pipe.

Vegetation species coverage statistics were developed from the recorded coverage of each species (or bare ground or open water) within a given quadrat. The percent coverage for each species (and bare ground or open water) was generated by adding all quadrat observations together, and dividing the total coverage by the cover of each species within each transect. This represents a modified Daubenmire cover scale where vegetation species statistics are used to determine the percent cover by bare ground, water, individual species and groups, such as wetland species, invasive exotic and nuisance species, and present.

Tree density was monitored using the "line strip" (belt transect) technique. Transects were co-located with each vegetation transect. The belt transects will be 600± feet in length and 30± feet in width. Within each belt transect, the height and condition of each planted tree will be recorded.

Photographic Stations:

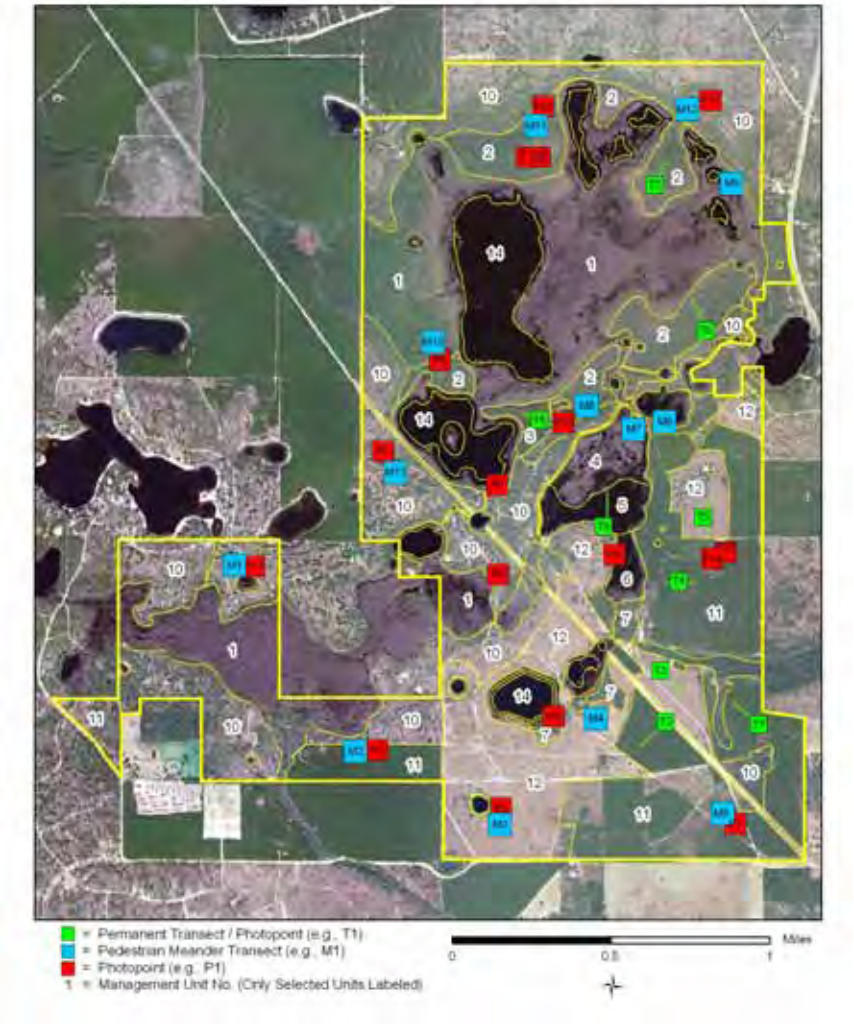
Panoramic photographs were taken from the permanently established stations at each transect (Appendix 4). **Please note: photographic station 12 was abandoned as it was not placed in the correct habitat. The photographic station was inadvertently placed in a mesic hammock on the edge of management unit 2. To remedy this, a new photopoint 12b was established in the in management unit 2 to the south of the original photo point (Figure 13).**

Wildlife Utilization:

During the vegetation monitoring described above, wildlife observations will be recorded in each community. These observations will consist of direct sightings, scat, tracks, or vocalizations.

Fuel loads and prescribed fires within wet flatwood and sandhill communities:
Semi-annual status reports will detail the condition of the communities relative to the need and potential for a burn, the conditions required for the next desirable burn, and the anticipated timeframe for the next burn. This data was included for each pedestrian survey transect (Appendix 4).

Figure 13 - Monitoring Locations



Results and Discussion

UMAM Polygon II, Management Unit 11- Sand Pine Plantation

UMAM Polygon II, Management Unit 11, consists of 383.484 acres of planted sand pine plantation that will be converted to long leaf pine and sand hill habitat. Baseline conditions indicated a sand pine canopy with nearly 100 percent canopy closure and an average of 446 sand pine trees per acre occur in the sand pine plantations. Removal of the sand pine was completed in November 2007. Three transects (transect #1, #2 and #4) were located within UMAM Polygon II, Management Unit 11.

In 2006, a total of 12 species were observed in transect 1, 9 species in transect 2, and 21 in transect 4. In general, species observed were common to sand hill communities. Wire grass was observed only in transect 2 with 5.5% cover and was the dominant species

occurring in that transect. The dominant cover class for all transects was bare ground with a range of 81% bare ground (transect 4) to 96% bare ground (transect 2). The exotic species Bahia grass (*Paspalum notatum*) was observed in transects 1 (0.1% cover) and transect 4 (1.5% cover) and may be due to the previous conversion of this area to pasture prior to conversion to a sand pine plantation. Similarly centipede grass (10.6% cover) was observed in transect 4 and was the dominant species within that transect.

In 2007, the pine canopy was harvested drastically increasing light levels reaching the ground layer. A total of 4 species were observed in transect 1, 15 in transect 2 and 22 in transect 4 (Tables 3-5, Figures 14-16). The reduction in the number of species observed in Transect 1 may be due to a combination of mechanical removal and recent pine harvest whereas other transect were harvested months earlier and had longer to re-vegetate. Wire grass was again only observed along Transect 2, but with 2.6% cover was the dominant species within that transect. The cover is reduced from the 5.5% cover observed in 2006, but this may be due to allot of mechanical damage that occurred during the pine harvest. The dominant cover class was again bare ground ranging from 68.5 to 99.29%. The reduction in bare ground from transect 4, may be due to the pines being removed earlier allowing longer for the sandhill community to recover. Bahia grass and centipede grass were observed in Transect 4 in 2007, but centipede grass was observed in Transects 1 and 4 in 2006. Similarly the cover of Bahia grass was slightly reduced in 2007, while the cover of centipede grass increased by about 5%. This may be due to increased light reaching the herbaceous layer. It is expected that the cover of centipede grass will be reduced during the site preparation burns. No wildlife or tracks were observed within these transects, probably due to the lack of vegetation.

Interim Success Criteria:
The sand pine plantation was harvested in 2007. Site preparation burns will occur during 2008 and the site will be re-planted in the winter of 2008/2009. Many of the management activities that will be used to restore UMAM II, Management Unit 11 will be implemented in 2008/2009.

Table 3. Transect 1 Species cover and occurrence (Former Sand Pine Plantation)

Date: 11/7/2007	Transect 1	Polygon: 11
Canopy Closure 0%	Overstory: None	
Scientific Name	**Common Name**	**Percent Cover**
Calicarpa americana	Beauty berry	0.1
Desmodium sp.	Tick trefoil	0.1
Ilex vomitoria	Yaupon	0.01
Quercus hemisphaerica	Diamond oak	0.5
	Bare ground	99.29

Figure 14. Transect 1. Percent Cover and occurrence (Sand Pine Plantation)

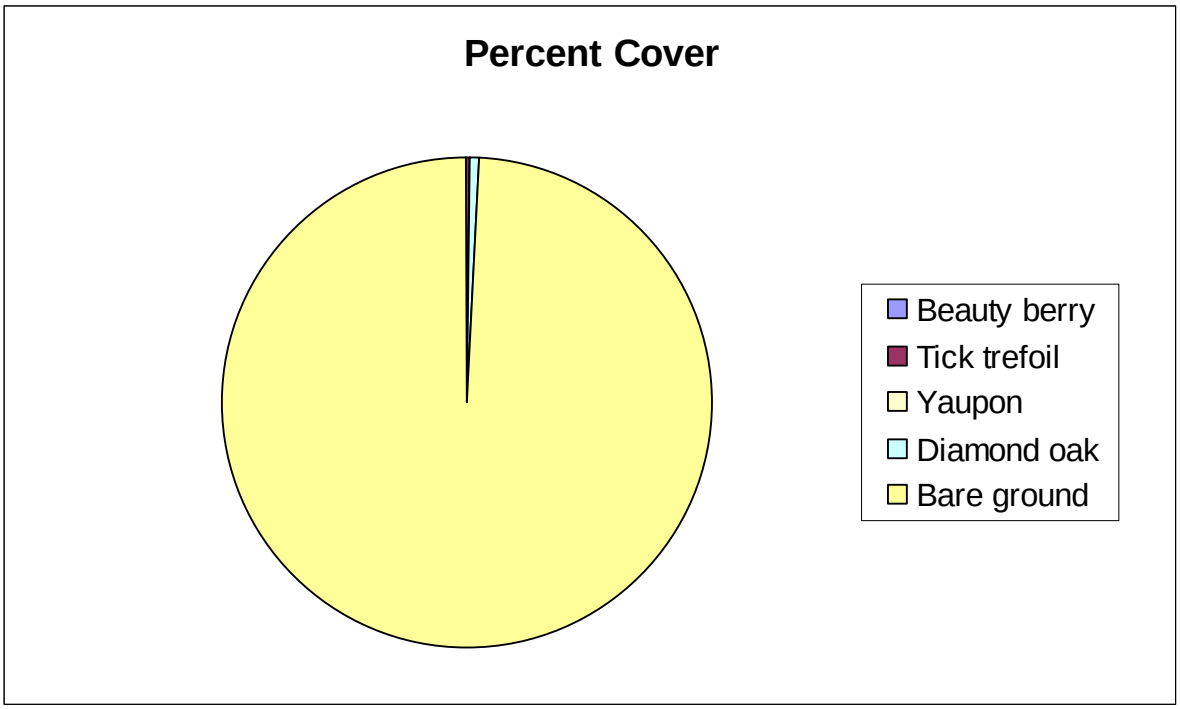


Table 4. Transect 2. Species cover and occurrence (Sand Pine Plantation)

Date: 11/7/2007	Transect 2	Polygon: 11
Overstory: None	Canopy Closure:0 %	
Scientific Name	**Common Name**	**Percent Cover**
Andropogon virginicus L. var. glaucus	Chalky bluestem	0.2
Aristida beyrichiana	Wire grass	2.6
Desmodium sp.	Ticktrefiol	0.19
Dichanthelium sp.	Witch grass	0.2
Diospyros virginiana	Persimmon	0.2
Euphorbia floridana	Greater Florida spurge	0.01
Galactia sp.	Milk pea	0.2
Ilex vomitoria	Yaupon	2
Lespedeza sp.	Lespedeza	0.06
Liatris gracilis	Slender gayfeather	0.07
Pteridium aquilinum	Bracken	1
Quercus laevis	Turkey oak	2.2
Quercus virginiana	Live oak	0.1
Scerlia sp.	Nutrush	0.07
Stylisma patens	Coastalplain dawn flower	0.2
	Bare ground	90.7

Figure 15. Transect 2: Species Cover and Occurrence (Sand Pine Plantation)

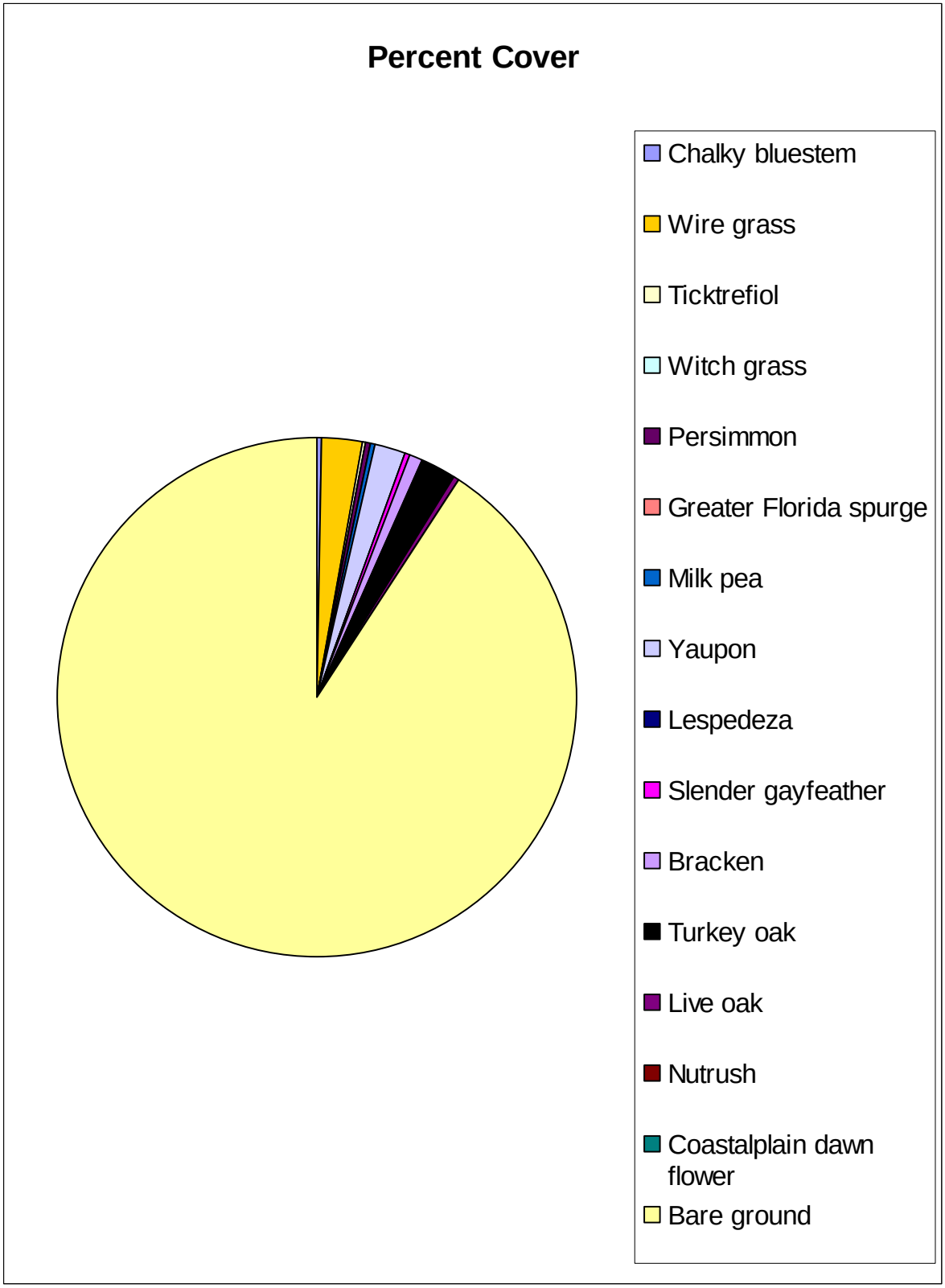
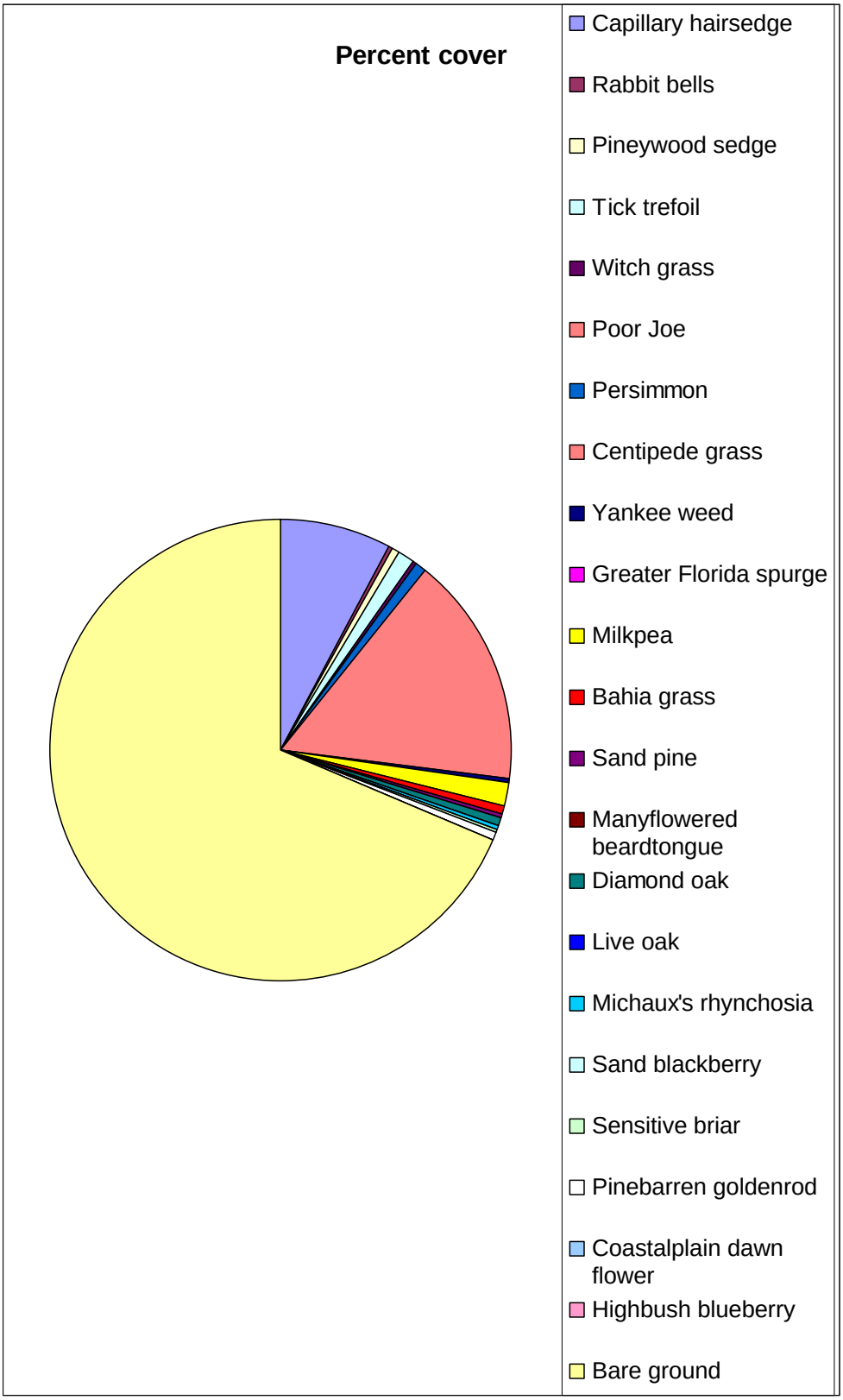


Table 5. Transect 4. Species cover and occurrence (Sand Pine Plantation)

Date: 11/7/2007	Transect 4	Polygon: 11
Overstory 0%	Canopy closure 0%	
Scientific Name	**Common Name**	**Percent Cover**
Bulbostylis ciliatifolia	Capillary hairsedge	7.8
Crotalaria rotundifolia	Rabbit bells	0.17
Cyperus retrorsus	Pineywood sedge	0.63
Desmodium	Tick trefoil	1.1
Dichanthelium sp.	Witch grass	0.17
Diodia teres	Poor Joe	0.1
Diospyros virginiana	Persimmon	0.88
Eremochloa ophiuroides	Centipede grass	16
Eupatorium compositifolium	Yankee weed	0.3
Euphorbia floridana	Greater Florida spurge	0.2
Galactia sp.	Milkpea	1.4
Paspalum notatum	Bahia grass	0.7
Pinus clausa	Sand pine	0.17
Penstemon multiflorus	Manyflowered beardtongue	0.17
Quercus hemisphaerica	Diamond oak	0.4
Quercus virginiana	Live oak	0.06
Rhynchosia michauxii	Michaux's rhynchosia	0.17
Rubus cuneifolius	Sand blackberry	0.23
Schrankia microphylla	Sensitive briar	0.1
Solidago fistulosa	Pinebarren goldenrod	0.5
Stylisma patens	Coastalplain dawn flower	0.18
Vaccinium corymbosum	Highbush blueberry	0.07
	Bare ground	68.5

Figure 16. Transect 4: Species Cover and Occurrence (Sand Pine Plantation)



UMAM Polygon I, Management Unit 12- Sand Hill

UMAM Polygon I, Management Unit 12, consists of 263.52 acres. This polygon is dominated by a sand hill community with an overstory dominated by turkey and live oaks with scattered remnant longleaf pine and an understory dominated by wire grass and a wide variety of herbaceous species. Reclamation activities within this upland community include re-introduction of fire, thinning of oaks to less than 150 trees per acre and planting of long leaf pine seedlings at a density not to exceed 200 trees per acre at final release. Fire was re-introduced to this area during the winter of 2004. A winter burn scheduled for the areas that had oak reduction. Prior to the re-introduction of fire, the dominant understory species was woody goldenrod. Oaks were thinned for the majority of Management Unit 12 in August of 2005. However, the portion of Management Unit 12 which contains Transect 5 was thinned in September of 2006. The re-introduction of fire and thinning of the turkey and live oaks have led to significant changes in the species composition. Two transects (transect #3 and #5) were located within UMAM Polygon I, Management Unit 12, and reflect baseline conditions (Table 6, 7 and Figure 16, 17).

In 2006, a total of 23 species were observed in transect 3 and 31 species in transect 5. A diverse understory of plants typical of sand hill vegetation was observed within each transect. No nuisance or exotic species cover occurred within these transects. The greatest cover class for each transect was bare ground with 47.5% (transect 3) and 68.5% for transect 5. Wire grass was the dominant vegetative species for both transects with 27.2 % cover for transect 3 and 22.2% cover for transect 5. A total of 12 species, Elliot's bluestem, wiregrass, Coastalplain honeycombhead, woody goldenrod, silver croton, witch grass, persimmon, pineland spurge, milk pea, pineweed, gopher apple and bracken fern were common to both transects.

In 2007, a total of 27 species were observed in transect 3 and 32 species in transect 5 slightly higher than last year. A diverse understory of sand hill vegetation was observed again this year and no nuisance or exotic species were observed (Table 6, 7, Figure 16 and 17). The greatest cover class again was bareground with 36.1% cover for transect 3 and 37% for transect 5. The amount of bareground for each transect was greatly reduced and may be due to the re-introduction of fire. Wire grass was again the dominant vegetative species for both transects with 23% for transect 3 and 35.6% cover for transect 5. Wire grass cover was slightly less for transect 3 but cover was significantly increased for transect 5. A total of 18 species were common to both transects and included bushy blue stem, broomsedge, wire grass, woody goldenrod, witch grass, persimmon, buckwheat, milkpea, slender shooting star, few flowered shooting star, panicum, shiners, bracken fern, bluejack oak, turkey oak, queens delight and shiny blueberry.

Longleaf pines were planted in portions of UMAM polygon I, Management Unit 12 in the winter of 2004. However, longleaf pines were only observed in Transect 3 in 2006. A belt transects 600' feet in length and 30' feet in width was co-located with the vegetation transect. The number, height and condition of each planted tree were recorded. A total of 36 trees were observed or an average of 871 trees per acre. However, the winter burn in 2006 was extremely intense and killed nearly all planted

pines. A total of 2 seedling pines were observed in 2007 both close to the ground and in the grass stage. These areas will be planted with less than 300 trees per acre during the winter of 2008. Wildlife observed included a wren, cardinal and chipping sparrow.

Interim success Criteria:
The interim success criteria have been met for UMAM I polygon I. Fire was re-introduced to the site, turkey and live oaks were thinned to less than 150 trees per acre. No nuisance or exotic species occurred were observed within the transects, fire adapted species average nearly 70% cover, woody shrubs average less than 20% cover, and long leaf pine has been planted for most of the area.

Table 6. Transect 3. Species cover and occurrence (Sand Hill)

Date: 11/7/2007	Transect 3	Polygon: 12
Overstory: Native Sandhill with Oak Removal		
Scientific Name	**Common Name**	**Percent Cover**
Andropogon glomeratus var. glaucus	Chalky blue stem	1.1
Andropogon virginicus	Broom sedge	0.6
Aristida beyrichiana	Wire grass	23
Bulbostylis ciliatifolia	Capillary hairsedge	1.5
Chrysoma pauciflosculosa	Woody goldenron	12.3
Commelina erecta	Day-flower	0.04
Dichanthelium sp.	Witch grass	2.4
Diospyros virginiana	Persimmon	0.6
Eriogonium tomentosum	Wild buckwheat	0.3
Galactia sp.	Milkpea	0.1
Gelsemium sempervirens	Yellow jasmine	0.1
Liatris gracilis	Slender gayfeather	1.4
Liatris pauciflora	Few flowered gayfeather	1.5
Panicum dichotomiflorum	Fall panic grass	1.8
Pinus paulstris	Long leaf pine	0.2
Pityopsis graminifolia	Shinners	0.1
Pteridium aquilinum	Braken fern	1.2
Quercus hemisphaerica	Diamond oak	0.04
Quercus inopina	Blue jack oak	0.3
Quercus laevis	Turkey oak	6
Quercus margaretta	Post oak	1.6
Serenoa repens	Saw palmetto	0.12
Sporobolus junceus	Pineywood dropseed	1.6
Stillingia sylvatica	Queen's delight	1
Stylisma patens	Coastalplain dawn flower	1
Vaccinium arboreum	Farkleberry	1
Vaccinium myrsinities	Dwarf blueberry	3
	Bare ground	36.1

Figure 17. Transect 3: Species Cover and Occurrence (Sand Hill)

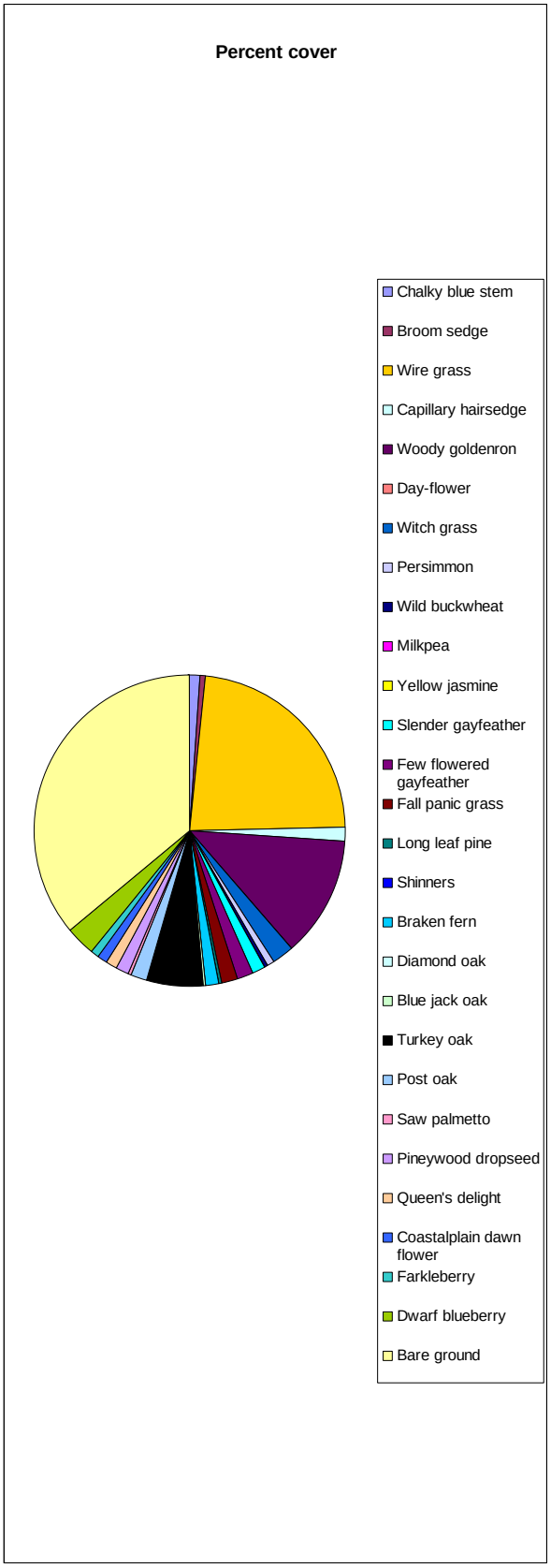
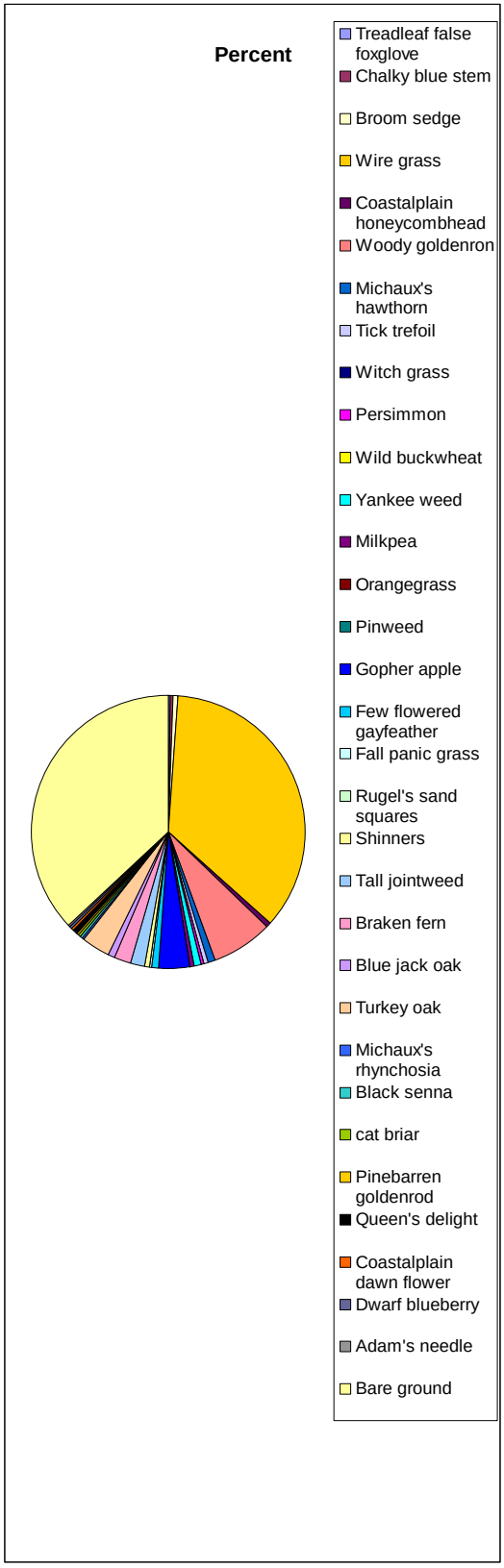


Table 7. Transect 5 Species and Occurrence (Sand Hill)

Date: 11/6/2007	Transect 5	Polygon: 12
Overstory: Sandhill with oaks cut…pines to be planted this winter		
Scientific Name	**Common Name**	**Percent Cover**
Agalinis setacea	Treadleaf false foxglove	0.3
Andropogon glomeratus var. glaucus	Chalky blue stem	0.3
Andropogon virginicus	Broom sedge	0.5
Aristida beyrichiana	Wire grass	35.6
Balduina angustifolia	Coastalplain honeycombhead	0.6
Chrysoma pauciflosculosa	Woody goldenron	7.22
Crataegus michauxii	Michaux's hawthorn	0.8
Desmodium sp.	Tick trefoil	0.5
Dichanthelium sp.	Witch grass	0.1
Diospyros virginiana	Persimon	0.2
Eriogonium tomentosum	Wild buckwheat	0.1
Eupatorium compositifolium	Yankee weed	0.6
Galactia sp.	Milkpea	0.6
Hypericum gentianoides	Orangegrass	0.03
Lechea minor	Pinweed	0.03
Licania michauxii	Gopher apple	3.5
Liatris pauciflora	Few flowered gayfeather	0.9
Panicum dichotomiflorum	Fall panic grass	0.3
Paronychia rugelii	Rugel's sand squares	0.03
Pityopsis graminifolia	Shinners	0.5
Polygonella gracilis	Tall jointweed	1.8
Pteridium aquilinum	Braken fern	2
Quercus inopina	Blue jack oak	0.6
Quercus laevis	Turkey oak	3.5
Rhynchosia michauxii	Michaux's rhynchosia	0.1
Seymeria cassioides	Black senna	0.3
Smilax sp.	cat briar	0.4
Solidago fistulosa	Pinebarren goldenrod	0.3
Stillingia sylvatica	Queen's delight	0.6
Stylisma patens	Coastalplain dawn flower	0.06
Vaccinium myrsinities	Dwarf blueberry	0.3
Yucca filamentosa	Adam's needle	0.33
	Bare ground	37

Figure 18. Transect 5: Species Cover and Occurrence (Sand Hill)



UMAM Polygon(s): VII, Management Unit 3- Planted Slash Pine Plantation

UMAM Polygon VII, Management Unit 3, consists of 11.5 acres of bedded planted slash pine that will be restored to a hydric pine flatwood. The overstory was dominated by planted slash pine. The shrub and understory was largely been shaded out by the near complete canopy closure of the slash pine. Pines were thinned to 225 trees per acre in 2007. Following the initial burn in the summer of 2005, it was determined that the shrubs could be kept to coppice sprouts with successive warm season burns. In winter 2008, wire grass tublings will be planted on 3' centers throughout the polygon.

In 2006, a total of 17 species were observed. The majority of the species were common to wet flatwoods. No nuisance or exotic species were observed. The greatest cover class observed was bare ground at 80.5%. The dominant vegetation was black ti ti with 6.5 percent coverage. The total shrub coverage was approximately 12%. No wire grass was observed within this polygon.

In 2007, a total of 18 species were observed, similar to baseline observations. The majority of the species were common to wet flatwoods. No nuisance or exotic species cover was observed. The greatest cover class was again bare ground with 77.3 percent cover. The slight increase in vegetative cover may be due to increased light reaching the understory since the dense pine canopy has been thinned. Swamp dog hobble had the greatest percent vegetative, each with 5 percent. Black titi cover was reduced from 6.5 % to 3.7%. This represents a reduction in black titi cover from the baseline observations. Overall shrub coverage within this polygon slightly increased from 12% in 2006 to 13.4% in 2007 and herbaceous cover has increased from last year. Wildlife observations included a blue jay, towhee, and cardinal.

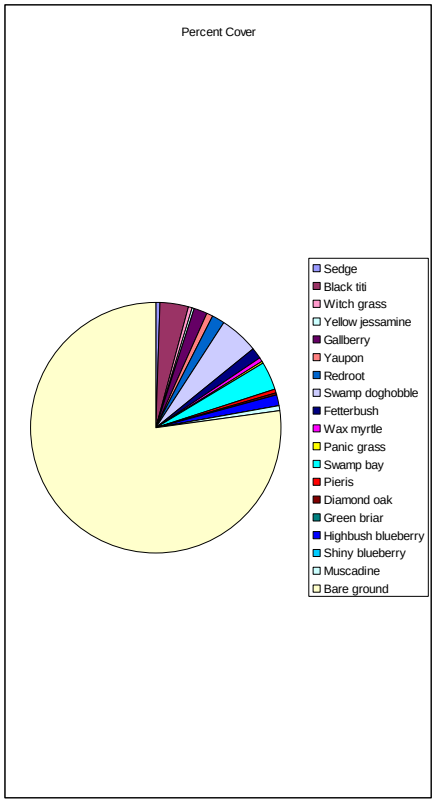
Interim success Criteria:

Many of the management activities that will be used to restore UMAM VII, Management Unit 3 have been implemented and interim management activities completed or initiated. A warm season burn was introduced in 2006, and the slash pines were reduced in density. An additional warm season fire is planned for 2008 along with the planting of wire grass plugs.

Table 8. Transect 8. Species and Occurrence (Hydric Pine)

Date: 11/8/2007 Note Transect is 26 feet not 30 as ran out of habitat	Transect 8 Overstory: Slash Pine Plantation Thinning Area	Polygon: 3
Scientific Name	**Common Name**	**Percent Cover**
Carex sp.	Sedge	0.5
Cliftonia monophylla	Black titi	3.7
Dichanthelium sp.	Witch grass	0.53
Gelsemium sempervirens	Yellow jessamine	0.3
Ilex glabra	Gallberry	1.5
Ilex vomitoria	Yaupon	1
Lachnanthes caroliana	Redroot	1.6
Leucothoe racemosa	Swamp doghobble	5
Lyonia lucida	Fetterbush	1.3
Myrica cerifera	Wax myrtle	0.7
Panicum sp.	Panic grass	0.3
Persea palustris	Swamp bay	3.7
Pieris phyllyreifolia	Pieris	0.5
Quercus hemisphaerica	Diamond oak	0.2
Smilax laurifolia	Green briar	0.07
Vaccinium corymbosum	Highbush blueberry	1.2
Vaccinium myrsinites	Shiny blueberry	0.2
Vitis rotundifolia	Muscadine	0.4
	Bare ground	77.3

Figure 19. Transect 8 Species and Occurrence



UMAM Polygon V, Management Unit 2, Hydric Pine Flatwoods

UMAM Polygon V, Management Unit 2 **c**onsists of 146.678 acres of fire suppressed, shrub dominated hydric pine that will be restored to a hydric pine flatwood. The overstory is dominated by a near impenetrable shrub layer with a largely lacking tree canopy and herbaceous layer. Reclamation activities within this polygon include re-introduction of fire, planting of longleaf and slash pine trees at a rate of 436 trees per acre**,** reduction of shrub layer (primarily titi, gallberry and fetterbush) by roller chopping, planting of wiregrass (either tubelings on 3' centers or seeding at 2-5 lbs. per acre), direct seeding or planting of wet flatwood and wet prairie species if cover is less than 40%, and annual vegetation monitoring, including monitoring for nuisance / exotic plant species**.**

Fire was re-introduced into this polygon during the summer of 2005. Two transects, 6 and 7 were established in different portions of the hydric pine flatwoods. The warm season burn was effective in reducing the overstory of shrubs in transect 7, however, by the time of the initial sampling event, the majority of the shrubs had sprouted from the roots and already formed an extremely dense shrub layer approximately 3-4' in height. The fire was less effective in the area surrounding transect 6. Many of the black ti ti within this transect did not burn.

In 2006, a total of 14 species were observed within the transect 6 and 16 in transect 7. Seven species were common to both sites, and all were shrubs. Both sites were dominated by shrubs with little overstory and little to no understory species due to the extremely thick shrub layer. No exotic species were observed. The greatest cover class observed for both transects was black ti ti with 69.87 % cover in transect 6 and 31.77 percent cover in transect 7. No wire grass was observed within this polygon. One other shrub species Fetterbush (15.3%) had significant cover within transect 6, myrtle leaved holly (15.4%) had significant cover in transect 7. Little bare ground was observed in transect 6 (3.7%) while 11.5% bare ground was observed in transect 7.

In 2007, a total of 12 species were observed within transect 6 and 9 in transect 7. Transect 6 had a similar species composition to the baseline while transect 7 had significantly fewer species observed probably due to the gyrotrack. Seven species were common to both sites, and all were shrubs. Both sites were dominated by 3-3.5' shrubs though each had an herbaceous component. While this did not represent significant cover in transect 6, 3.7% cover in transect 7 was red root, and early colonizing wetland species. The greatest cover class for both transects was bare ground with 40.8% for transect 6 and 48.2% cover for transect 7. This represents a significant shift in cover from black titi to bare ground due to the gyrotrack. Black titi cover was also greatly reduced from nearly 70% to 14% in transect 6 and from 31.77% to 28.1% cover in transect 7. The relative minor decrease in black titi cover in transect 7 may be the result of the intense warm season fire in 2006. Fetterbush was the dominant species by cover in transect 6 while black titi remained the

dominant plant species by cover in transect 7. Continued management activities will further reduce shrub coverage.

Interim Success Criteria:
Most of the management activities were completed by 2007 for of the UMAM V, Management Unit 2. Fire was introduced in 2005 and a second site prep burn occurred in December of 2007. A gyrotrack was employed (April-June) to reduce the shrub cover to basal sprouts. Wire grass tublings and long leaf pine seedlings will be planted in late December/January 2008. No exotic vegetation has been observed at anytime in this polygon.

Table 9. Transect 6 Species and Occurrence (Hydric Pine Flatwoods)

Date: 11/6/2007	Transect 6	Polygon: 2	
Overstory: gryrotracked shrub (black titi area			
Scientific Name	**Common Name**	**Percent Cover**	# species
Clethra alnifolia	Sweet pepperbush	1	1
Cliftonia monophylla	Black titi	14	2
Ilex coriaceae	Large gallberry	2.8	3
Ilex glabra	Gallberry	1.2	4
Ilex myrtifolia	Myrtle-leaf holly	8	5
Leucothoe racemosa	Swamp doghobble	3.7	6
Lyonia lucida	Fetterbush	18.7	7
Magnolia virginiana	Silver bay	1	8
Osmanthus americanus	Wild Olive	0.16	9
Persea palustris	Swamp bay	6.7	10
Rhynchospora sp.	Beakrush	0.3	11
Vaccinium corymbosum	Highbush blueberry	1.64	12
	Bare ground	40.8	

Figure 20. Transect 6: Species Cover and Occurrence (Hydric Pine Flatwoods)

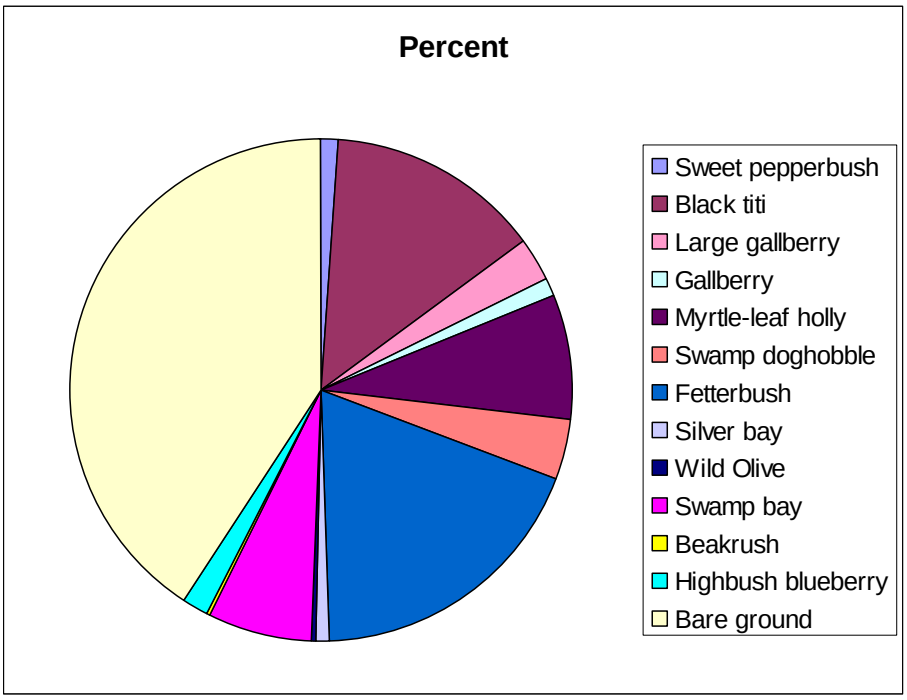
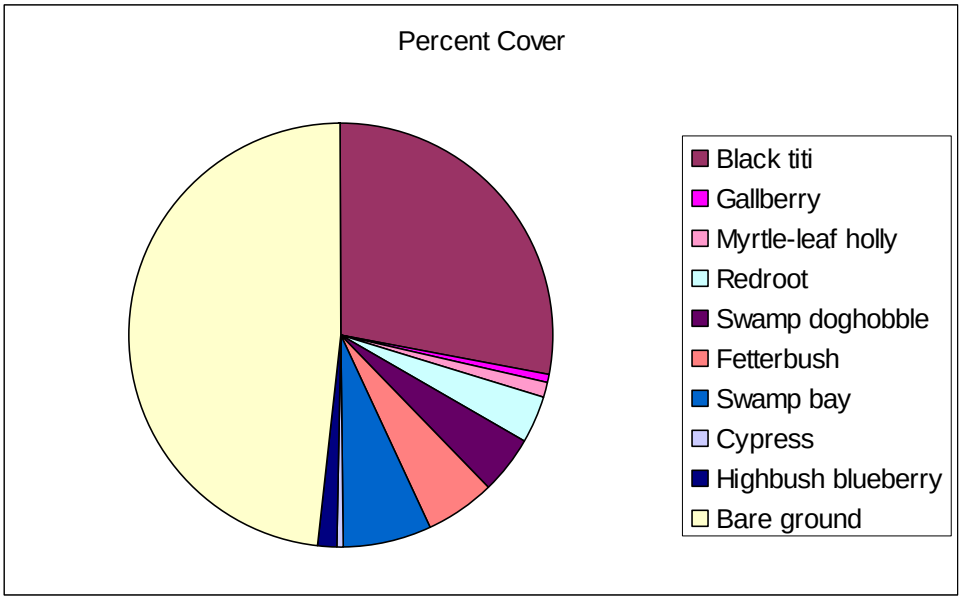


Table 10. Transect 7. Species and Occurrence (Hydric Pine Flatwoods)

Date: 11/6/2007 Transect 7 Polygon: 2
Overstory: gryrotracked shrub (black titi area)

Scientific Name	**Common Name**	**Percent Cover**	# species
Cliftonia monophylla	Black titi	28.1	1
Ilex glabra	Gallberry	0.5	2
Ilex myrtifolia	Myrtle-leaf holly	1	3
Lachnanthes caroliana	Redroot	3.7	4
Leucothoe racemosa	Swamp doghobble	4.6	5
Lyonia lucida	Fetterbush	5.1	6
Persea palustris	Swamp bay	6.7	7
Taxodium ascendens	Cypress	0.5	8
Vaccinium corymbosum	Highbush blueberry	1.6	9
	Bare ground	48.2	

Figure 21. Transect 7. Species and Occurrence (Hydric Pine Flatwoods)



UMAM Polygon V1, Management Unit 5, Inland Ponds and Sloughs

UMAM Polygon V1, Management Unit 5 consists of 24.880 acres of a dammed slough (Dykes Mill Pond) that will be restored to slough/marsh. The overstory for most of the area is absent though a fringe of cypress remains along the ponds edge. The majority of the area is dominated by water lilies and other aquatic submerged vegetation. Reclamation activities within this polygon include the removal of Dykes Mill Pond dam, and spanning the gap with railcar bridge, planting of cypress and black gum saplings and planting the area with herbaceous and shrub species, if after 2 years, the native wetland understory is < 50%. Dykes Mill Pond was removed in August of 2006 and bridge construction completed in April 2007. With the removal of the dam there have been great changes to the pond. By September 2007 most of the pond had evaporated leaving only small flooded areas. Wet prairie vegetation has greatly spread across the newly exposed sediments and a braided stream channel has emerged across most of the previously flooded area. Sampling last year occurred from a canoe while this year I was able to walk across the entire pond.

In 2006, a total of 7 species were observed within transect 9. The species were common to freshwater marshes within the region. No exotic species were observed. The dominant species observed was fragrant water lily with 45 % cover. Florida yellow bladderwort was also common with 19.2 % cover. Open water was common with 34% cover, indicating that much of the transect occurs in what is currently a pond. Wildlife was observed included wood ducks and a great egret.

In 2007, a total of 11 species were observed within transect 9. Species were common to wet prairies with some minor freshwater marsh species. This represents a major

shift in species composition and reflects the shift from an aquatic to wet prairie. No exotic species were observed. Fragrant water lily cover was greatly reduced from 45% in 2006 to 3.23% cover in 2007. Florida yellow bladderwort was not observed within the transect and open water was also greatly reduced from 34% cover to 2.2 % cover. Another significant occurrence was the cover of bare ground which did not exist in 2006, but represented 41% of the cover in 2007. The two dominant plant species were horned beaksedge with 30% cover and a beaksedge that was not in flower with 12% cover, both species common to wet soils and not tolerant of aquatic systems. A species of note, *Drosera intermedia* (Water Sundew) a state threatened species was commonly observed. Wildlife observations included a pair of sandhill cranes (State Threatened species), fresh hog tracks, little blue heron, great egret, and chipping sparrows.

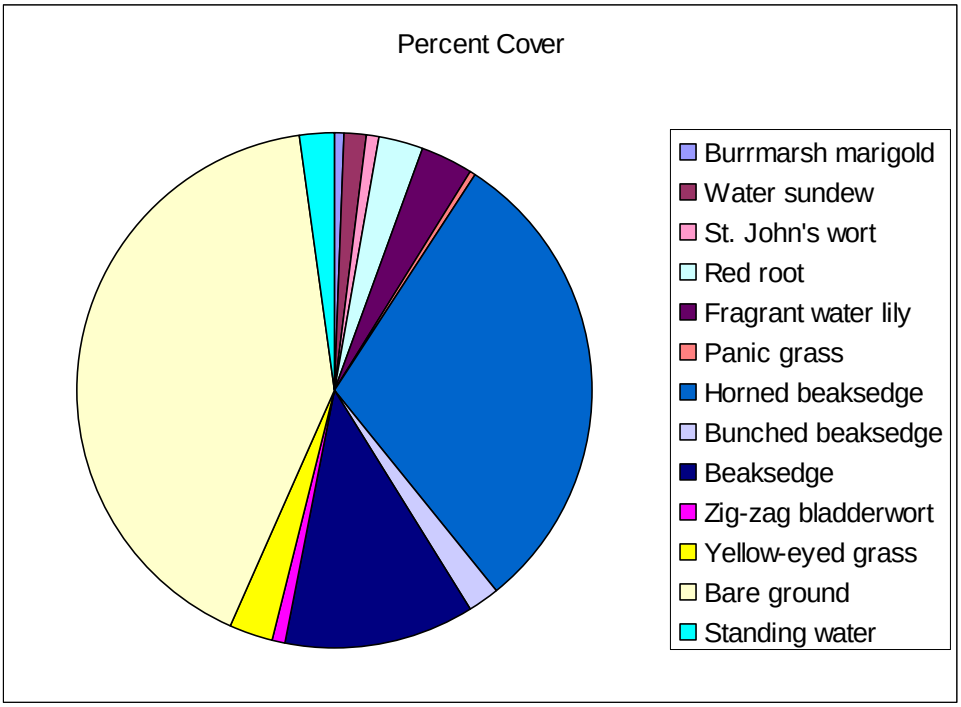
Interim Success Criteria:

Most of the management activities used to restore UMAM VI, Management Unit 5 have been completed. The archeological study was completed and the dam removed in August of 2006. The new bridge was completed in April of 2007. Since the removal of the dam the pond continues to drain. To date a shallow pond remains with the majority of the system returning to a wet prairie. Cypress trees will be planted along the edges of this system in the winter of 2007/2008.

Table 11. Transect 9. Species and Occurrence (Slough / Marsh)

Date: 11/8/2007	Transect 9	Polygon: 5
Overstory: None: Dykes Mill Pond		
Scientific Name	**Common Name**	**Percent Cover**
Bidens mitis	Burrmarsh marigold	0.61
Drosera intermedia	Water sundew	1.43
Hypericum fasciculatum	St. John's wort	0.8
Lachnanthes caroliniana	Red root	2.7
Nymphaea odorata	Fragrant water lily	3.23
Panicum sp.	Panic grass	0.33
Rhynchospora inundata	Horned beaksedge	30
Rhynchospora microcephala	Bunched beaksedge	2
Rhynchospora sp.	Beaksedge	12
Utricularia subulata	Zig-zag bladderwort	0.7
Xyris sp	Yellow-eyed grass	3
	Bare ground	41
	Standing water	2.2

Figure 22. Transect 9. Species and Occurrence



Qualitative Monitoring

Materials and Methods

Qualitative vegetation monitoring will include assessment of the vegetation, both ground cover and planted trees, wildlife use observations, and general habitat health. Pedestrian surveys increase site coverage and include a 30+ minute meandering walk-path intended to provide information useful in management and to determination the success of management activities. A walk path traversed as much habitat as possible. The pedestrian walk-path continued as long as species were being added, however, once additional species were not recorded for 3 minutes the survey was complete. Representative photos and a community description and health were provided for each walk-path. Fuel load for each habitat was determined and the presence of any threatened or endangered species were recorded. Plants were listed in the data sheet in the following categories (tree, shrub, vine or herbaceous) to give a better understanding of composition of the habitat. Wildlife observations were also recorded for each walk-path (Figure 13) provides the location and coverage of transects and the data sheets can be found in (Appendix 4).

Results and Discussion

A total of 13 pedestrian transects were located at the SHLMB (Figure 13) Three pedestrian surveys were located in Management Unit 1, portions of UMAM Polygon IV,

one in Management Unit 2, UMAM Polygon V, one in Management Unit 4, portions of UMAM Polygon IV, four in Management Unit 10, Polygon III, three in Management Unit 12, UMAM Polygon I, and one in Management Unit 14, portions of UMAM Polygon IV (Appendix 7).

Management Unit 1, UMAM Polygon IV, Preserved High Quality Forested and Herbaceous Wetlands

Management Unit 1, UMAM Polygon IV consists of 574.839 acres of a wide variety of preserved wetland habitats including approximately FLUCCS: 621 – Cypress, 617 – Mixed Wetland Hardwoods, 644 – Emergent Aquatic Wetlands, 611 – Bay Swamps, 641 – Freshwater Marshes, 616 – Inland Ponds and Sloughs, 640 – Vegetated Non-Forested Wetlands and 643 – Wet Prairies. The management goal for this polygon is the preservation of the existing high quality wetlands. Two of the pedestrian survey paths (M8 and M9) in Management Unit I, UMAM Polygon IV, were located in cypress dominated wetlands, while the third pedestrian survey path (M10) was located in an overgrown hydric pine flatwoods. However it is suggested that this transect be kept but the designation and analysis changed to the more appropriate Management Unit 2, UMAM Polygon V.

In 2006, a total of 38 species were observed in M8, while 32 species were observed in M9). Twenty nine of the species were common to both transects. Five tree species were observed in M8 while 3 tree species were observed for M9. Eight and nine shrub species were observed in M9 and M8 respectively, though cover of shrubs was not significant. Twenty one herbaceous species were observed in M8, while 19 herbaceous species were observed in M9. No nuisance or exotic species were found in M8, though a small patch of torpedo grass was observed in M9. Fuel load was low for each area and no threatened or endangered species were observed. Water levels in both areas were extremely low due to the drought and many of the herbaceous species such as pickerel weed, duck potato (*Sagittaria latifolia*) and fragrant water lily (*Nymphaea odorata*) had browned or appeared dead. Cypress seedlings were numerous in both areas. Wildlife was abundant.

In 2007, a total of 39 species were observed for M8 similar in number to last year (Appendix 4). Four new species, bushy bluestem, beauty berry, sweet pepperbush, and pale meadow beauty were observed. These were observed in the normal pool area and germinated due to the prolonged drought that has left the lake beds dry. Three species previously observed, water shield, bog buttons, and bladderwort were not observed, primarily due to the absence of an aquatic habitat. Along M9, a total of 31 species were observed, again similar in number to last year. However 8 species were not observed this year and include water shield, clustered sedge, Virginia willow, silver bay, pickerel weed, duck potato, bladderwort and yellow eyed grass. These are primarily aquatic species and were not found on the dry lake beds. Nine additional species were observed including bushy bluestem, sedge, black titi, witch grass, yaupon, sweet gum, savannah meadow beauty and American cupscale. The new species with the exception of the American cupscale are facultative wet species that have invaded the dry lake beds. Shrub cover for both transects was very low. No nuisance or exotic species were observed. Fuel load

was low for each area and no threatened or endangered species were observed. Water levels in both areas were extremely low due to the drought and many of the herbaceous species aquatic species were absent. A wildfire occurred within this polygon and destroyed approximately 12 acres of cypress by burning the roots and occasionally the trunk of the cypress. Details on the wildfire have been recorded in the Fire Management section. Aside from the continued drought this polygon is very similar to last year.

Interim Success Criteria:
Interim success criteria have been met and include exotic vegetation cover < 2% per acre, nuisance vegetation cover < 5% per acre, and maintaining or improving in ecological function. The systems are healthy and reacting normally to the droughts within the region.

Management Unit 2, UMAM Polygon V, Hydric Pine Flatwoods

Management Unit 2, UMAM Polygon V consists of 146.678 acres of FLUCCS 635 hydric pine flatwoods. The management goal for this polygon includes the enhancement and restoration of the degraded hydric pine flatwoods. Two pedestrian transects (M10 and M11) were located in Management Unit 2, UMAM Polygon V. Both of these areas are overgrown, degraded hydric pine flatwoods dominated by a variety of tree and shrub species. Both areas were burned during the summer of 2005, though fuel loads in both areas are moderate and additional fires are warranted. Dominant species cover along M10 was black ti ti with some silver bay and slash pine, while M11 was moved slightly in 2007 to better reflect the wet flatwoods. The previous transect was located in a mixed bayhead. Wire grass was present in M11, but absent in M10.

In 2006, a total of 32 species (8 trees, 17 shrubs, 4 vines and 3 herbaceous species) were observed along M10.

In 2007, shrub reduction was completed in both areas using a gyrotrack. Shrubs were thinned in June and the areas were burned in December 2007. A total of 40 species were observed in along M10 while 16 species were observed in M11 (Appendix 4). No nuisance exotic species were observed in either area. The increase in species along M10 may be due to increased access to the area due to the gyrotrack and the fact that the site is more of a mixture of wet flatwoods with species from an adjacent bayhead. Successive fires should remove the bayhead species. The lower number of species found in M11 is more reflective of wet flatwood species and an area overgrown by shrubs and the shrub layer reduced by the gyrotrack. Wildlife observed included robin, kingfisher, black vulture, phoebe, anole and cardinal.

Interim Success Criteria:

Interim success criteria include exotic vegetation cover < 2% per acre, nuisance native vegetation cover < 5% per acre, increasing herbaceous groundcover, decreasing density of woody shrub layer, planted pines are surviving and healthy and prescribed burns have been conducted in accordance with fire management plan. The interim success criteria

have been met for this polygon. No nuisance exotic or nuisance native species cover has been observed, and the prescribed burns have been conducted in accordance with the fire management plan. Shrubs were reduced to ground level in both areas using a gyrotrack and both areas while herbaceous vegetation was again observed within the polygon. These sites were burned in December 2007. Due to the numbers of existing pine trees this area will not need supplemental tree planting.

Management Unit 10, UMAM Polygon III, Xeric and Live Oak

Management Unit 10, UMAM Polygon III consists of 493.852 of FLUCCS 421 – Xeric Oak and 427 – Live Oak. Management goals include the preservation and the re-introduction of fire to upland sandhill communities dominated by oaks. Management activities include the introduction of fire using dormant season burns, and the eventual introduction of growing-season burns (anticipated 3 to 5-year and 5 to 7-year burn cycles), and the reduction of oak in portions of management unit as selected by QMS (Qualified Mitigation Supervisor), and monitoring for nuisance / exotic plant species. Other management activities may include the supplemental planting of longleaf pine (436 trees per acre) and wiregrass (6' centers or direct seeding as 2-5 pounds per acre as determined by the QMS. Live and turkey oaks were selectively harvested from portions of Management Unit 10, UMAM Polygon III in September of 2006. As a result the fuel load is high for most of these areas and a prescribed burn is scheduled for a dormant season burn in the winter of 2008/2009. Good coverage of wire grass was observed throughout Management Unit 10 so no additional planting will be required. Initial burns for portions of Management Unit 10 were conducted during the growing season. Wire grass was observed in flower for these areas. Continued warm season burns should ensure an increasing cover of wire grass throughout the polygon. Four transects were located within Polygon 10, M1, M2, M12 and M13).

In 2006, two transects M1 with 44 species (9 trees, 5 shrubs, 3 vines and 27 herbs) and M13 with 54 species (9 trees, 6 shrubs, 2 vines and 37 herbs) were species rich, while M2 with 29 species (6 trees, 6 shrubs, 3 vines and 14 herbs) and M12 with 26 species (12 trees, 3 shrubs, 3 vines and 8 herbs) were generally lacking a diverse herbaceous cover. This may be due to the shading of the understory by overstory oaks. However, all of the transects had between 19 and 35 species in common. Scattered diamond oak and sand pine may also be reflective of a historic lack of fire. No nuisance exotic coverage was observed, though a small patch of Bahia grass was found at the gate adjacent to the road for the transect M1. In the transect M1, a Florida threatened species Gulf coast lupine (*Lupinus westianus*) was located throughout the sand hill upland while smooth barked St. John's wort, a Florida Endangered species, was located adjacent to the solution pond 1. Gopher tortoise burrows were observed along pedestrian transects M12 and M13.

In 2007, two transects, M1 was observed with 67 species (10 trees, 16 shrubs, 3 vines and 38 herbaceous species) while, along M13 62 species (9 trees, 7 shrubs, 3 vines and 43 herbaceous species) was observed (Appendix 4). Along M2 38 species (8 trees, 5 shrubs, 2 vines and 23 herbaceous species) were observed and 34 species were observed along transect M12 (13 trees, 4 shrubs, 3 vines and 14 herbaceous species) (Appendix 4). M1

had 5 newly observed species and 3 species were not observed in 2007 and were sky blue lupine, bladderwort and yellow eyed grass. Ten new species were observed along M13 and two species, dwarf huckleberry and bracken fern were not observed. Along M2 13 additional species were observed while, 4 species Florida jasmine, red chokeberry, pale meadow beauty and lopsided Indian grass were not observed. Finally, M12 also had 13 additional species observed while 5 species were not observed and included American holly, gopher apple, sand pine, shiny blueberry, and Adam's needle. The observation of additional species may be due to increased scrutiny of the polygon and habitat improvement due to successive fires. Aside from a small patch of Bahia grass at the entrance to M1 no nuisance or exotic species were observed. Gulf coast lupine was observed at two transects, M1 and M13. Sand pine and Florida jasmine may have been removed by earlier fires. The habitat all appears healthy and vigorous. These areas were burned during the winter burns in December of 2007. Wildlife observed included a downy woodpecker, pileated woodpecker, raccoon tracks, otter tracks, gopher tortoise, deer tracks, turkey tracks, cardinal, towhee, titmouse and mockingbird.

Interim Success Criteria:
Several interim success criteria have already been met, the exotic species cover (Bahia grass) is a small patch and well below the 2% per acre, and no nuisance native vegetation was observed. Several of these transects are already quite diverse and continued fire within these areas will ensure a diverse sand hill community. Wire grass cover is good to excellent and oaks have been thinned for much of this polygon and these areas were again burned in December 2007. Existing numbers of pine trees meet the permit condition of less than 200 trees per acre.

Management Unit 11, UMAM Polygon II, **Upland Slash or Sand Pine Plantations**

Management Unit 11, UMAM Polygon II consists of 383.484 acres of FLUCCS 411 Longleaf Pine / Wiregrass restored from slash or sand pine plantations. The restoration goal for this area is to restore the sites to a sand hill community from a sand or slash pine plantation. Management activities will include the re-introduction of growing season burns, removal of planted pines, re-planting with 436 long leaf pine seedlings per acre and if needed the addition of wire grass tublings or seeding. Initial fire was introduced to the slash pine areas in 2005, while site prep burns will take place in the winter of 2008 for the previous sand pine areas. Trees were harvested from April to November 2007. One transect (M5) was located within Management Unit 11, UMAM Polygon II. This area had already undergone a warm season burn that greatly reduced the shrub cover. Overstory was removed in April 2007. Much of the understory was in fairly good condition with good diversity typical of the sand hills.

In 2006, a total of 50 species (6 trees, 7 shrubs, 2 vines, and 35 herbaceous species) were observed. Wire grass was the dominant grass species within the area. However, the emerging shrub layer was dominated by diamond oak.

In 2007, a total of 49 species were observed (7 trees, 8 shrubs, 2 vines and 32 herbaceous species) (Appendix 4). Nine new species were observed while 10 species initially present

were not observed. The changes in species composition may be due to the tree harvest which greatly disturbed the understory. Species were common to the sandhill community. Wire grass was common and appeared to be the dominant species. Much of the shrub layer was reduced to sprouts and much of the diamond and live oak was destroyed during the tree harvest. A site prep burn is planned for winter 2008.

Interim Success Criteria:
The interim success criteria have been met within this transect. No nuisance or exotic species were observed. Wire grass is the dominant species. The ground cover is very diverse and typical of a sandhill. The slash pine was harvested in April of this year and a site prep burn will occur during the winter of 2008.

Management Unit 12, UMAM Polygon 1, Sand Hill

Management Unit 12, UMAM Polygon 1 consists of 263.52 acres of FLUCCS: 411 – Longleaf Pine / Wiregrass (Mesic Pine Flatwoods) restored from 421 –Xeric Oak habitat. The goal for this polygon is to restore a diverse sand hill. Restoration activities include the re-introduction of growing season burns, removal of oak ≤ 12 inches DBH and herbicide treatment of stumps, planting of longleaf pine (436 trees per acre), and monitoring for nuisance / exotic plant species. Oak eradication was conducted for Management Unit 12, UMAM Polygon 1 during the summer of 2005. . Fire was re-introduced in 2004 to the polygon and cover of the once dominant shrub woody goldenrod has been greatly reduced. Since the initial fire, two additional fires, the most recent in December of 2007, further reduced shrub and woody goldenrod cover. Wire grass has flowered for two consecutive years in most of this habitat. Wire grass is again the dominant herbaceous species within this polygon. The sand hill habitat within this polygon is very diverse and considered high quality with an excellent herbaceous species composition. The majority of the polygon was planted with longleaf pines in 2004, however, several areas on the north side of Green Head Branch will be re-planted with in 2008. Two transects (M3 and M4) were located within this polygon.

In 2006, a total of 35 species (7 trees, 2 shrubs, 2 vines, and 24 herbs) were observed along pedestrian transect M3, while 68 species (8 trees, 9 shrubs, 2 vines and 49 herbs) were observed within M4. The species were typical of the sand hill though in wetter areas of M4 adjacent to Little Deep Edge Pond, more pine flatwood vegetation occurred. Small patches of centipede grass were observed along the pedestrian transect M3.

In 2007, a total of 42 species (8 trees, 7 shrubs, 2 vines and 25 herbs) were observed along M3 (Appendix 4). The additional, shrub species observed may be due to expanding the path further to the west and up an old ridgeline. Shrubs were typical of the sandhill and high in wildlife value. Twelve new species were observed within this transect and may again be due to expanding the pedestrian survey. Five species, Southern magnolia, golden aster, bracken fern, Carolina milkweed and pinewoods milkweed were not observed in this years sampling. This may be due to the later sampling when some of these species are less noticeable following flowering and fruiting. Along the pedestrian transect M4 a total of 69 species (8 trees, 11 shrubs, 2

vines and 48 herbaceous) species were observed. A total of 17 new species were seen this year and 13 species previously observed were not seen this year. The area surrounding this pedestrian meander was burned during the winter of 2007 and the fire was particularly hot killing some turkey and live oaks and also may have removed some of the less fire tolerant species. Centipede grass which was observed as a minor component in the polygon was completely absent following the fire. Another species apparently removed by the fire was the slender crab grass. Other new species may have emerged from the seedbank once the fire exposed bare ground. Wildlife observed within this polygon included rabbit and raccoon tracks, and an active gopher tortoise burrow. In addition several threatened and endangered species were observed including southern crab apple, smooth barked St. John's wort and Gulf Coast lupine.

Interim Success Criteria:
This polygon has reached many of the restoration goals set forth in the interim success criteria. The three controlled burns within this polygon have greatly reduced the cover of woody golden rod and stimulated the cover of wire grass and other grasses and forbs. Oaks have been reduced to less than 150 trees per acre and the herbaceous vegetation is dominated by wire grass. Longleaf pines have been planted throughout most of the polygon with the remaining areas to be planted in January 2008.

Management Unit 14, portions of UMAM Polygon IV, Lakes

Management Unit 14, portions of UMAM Polygon IV consists of 164.958 acres of FLUCCS 520, lakes. The goal for this polygon is the preservation of the lake and aquatic habitat. One pedestrian transect (M6) was placed within the polygon around Garret Pond. The water levels at Garret pond were very low due to the summer drought. Much of the lake bottom was exposed and had been colonized by a variety of wetland grasses and sedges. Two small pools remained.

In 2006, a total of 36 species (5 trees, 7 shrubs, 1 vine and 23 herbs) were observed. Vegetation was typical of a diverse pond within the region. A small patch of torpedo grass was observed at the boat ramp to the pond. A zone of Smooth barked St. John's wort and seedlings was observed just below the shrub layer surrounding the pond. Some species such as pickerel weed appear to have been set back by the drought and most of the leaves and stem have browned.

In 2007, a total of 24 species were observed (5 trees, 7 shrubs, 1 vine and 11 herbs) (Appendix 4). Due to the extended drought, this pond has been dry for approximately a year. The reduction in herbaceous species is due to the lack of water. Most of the absent species were aquatic or required wet conditions to thrive. The small patch of torpedo grass at the old boat launch had been sprayed during the summer and none was observed during the fall sampling. Dog fennel has continued to invade the site and many of the aquatic species were absent.

Interim Success Criteria:
Exotic vegetation cover is < 2% per acre and no nuisance native vegetation cover was observed. The site appears to be maintaining normal ecological functions during a prolonged drought.

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 1/23/07 Time: 9:30 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

Comments: Stabilization of Greenhead branch bridge, placement of rye grass, and mulch…same for Dykes Mill Pond. Area around Dykes Mill Pond needs to be cleaned up. Talked to Tyler and site manager about this…follow up…the area was cleaned up. Silt fences in one area compromised around Dykes Mill pond…discussed with project manager…follow up…silt fences back in place…also at Pine Log Creek…silt fences down…no turbid water noted…area was dry…talked to site manager about repairing and replacing silt fences…follow up visit, areas were corrected. Bridge and culverts expected to be completed by middle of March.

Culvert removed from Greenhead branch.

Met with Don Walters and contractor that will be doing the erosion sites…and spelled out permit requirements including silt fences and turbidity barriers. Checked sites prior to work initiation. All silt fences properly installed and turbidity barriers in place. Areas will be stabilized soon after work complete…planting of long leaf pine and wire grass expected to occur on 2/23/07.

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments:
See above.

Wildlife Observations: Chirping Sparrows, 8 Quail, Robin, 5 deer, Red-shouldered Hawk, Titmouse, coyote and dog tracks, Rufus Sided Towhee. Yellow jasmine, blue berry, innocence, wild olive and black ti ti in bloom.

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 2/20/07 Time: 9:30 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

Comments: Construction completed for Dykes Mill Pond, Green Head Branch Bridges, culverts almost completed for old Pine log creek, alternative flowpath for Pine log creek, and powerline pond. Most areas have been stabilized with rye grass and non invasive mulch. The erosion sites for Boggy Branch, Cat Pond and road removal for Deep Edge/Little Deep Edge have been completed and planted with wire grass and pine trees….wetlands were planted with cypress.

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments:
Construction continues on the installation of the bridges and culverts. The silt fences were inspected. Assisted in a fuel reduction burn surrounding Deep Edge and Little Deep Edge…this area had the oaks thinned and this area was burned to reduce the cover of the downed trees. This was a good fuel reduction fire and the first of several planned for this area this spring. Took lots of photographs.

Wildlife Observations: Blue jay, tufted titmouse, crow, deer tracks, coyote scat, raccoon tracks.

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 3/15/07 Time: 10:30 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

Comments: Construction completed for Dykes Mill Pond, Green Head Branch Bridges, culverts almost completed for old Pine log creek, alternative flowpath for Pine log creek, and powerline pond. Most areas have been stabilized with rye grass and non invasive mulch. The erosion sites for Boggy Branch, Cat Pond and road removal for Deep Edge/Little Deep Edge have been completed and planted with wire grass and pine trees….wetlands were planted with cypress. Bahia grass seed, stems and leaves were observed at Boggy Branch, Deep Edge Road Removal and the two erosion areas at Cat Pond. Mulch contaminated with Bahia grass seed was placed in these areas. The contractor, Orange Hill Soil and Conservation District was informed and agreed to herbicide any Bahia grass plants that were found within the restored areas for as long as it takes to control the Bahia grass. Any wire grass or cypress trees damaged by the herbicide will be re-planted.

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments:
Construction continues on the installation of the bridges and culverts. The silt fences were inspected.

Wildlife Observations: Blue jay, tufted titmouse, possum tracks, rabbit tracks.

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 4/9/07 Time: 10:00 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

Comments: Construction completed for Dykes Mill Pond, Green Head Branch Bridges, culverts almost completed for old Pine log creek, alternative flowpath for Pine log creek, and powerline pond. Guard rails and signs have been installed. Rye grass dying due to drought. Alternative seed source needed when rains finally start. Gyro-track work well underway.

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Spent 5 days flagging for Gyro-track. Need to GPS completed polygons. Removal of all shrubs within the polygons required. It is amazing how different these areas look. Will burn areas this fall.

Wildlife Observations: Blue jay, black racer, sliders, alligator, deer

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 5/07/07 Time: 11:00 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

Comments: Gyro-track work nearly completed for wet pine flatwood adjacent to Dry Pond…51 acres, an additional area behind the planted pine, and about half of the peninsula. Additional areas need flagging in the near future adjacent to the green ponds. This wet flatwood area was supposed to be burned last winter but heavy fuel loads prevented burning. Hopefully gyro-tracking will reduce cover sufficiently to prevent the fire from getting out of control.

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Spent 3 additional days flagging for Gyro-track. The Bank is extremely dry. Powerline pond completely dry as well as Garret Pond. Some green ponds also completely dry. Nearly all of Little Deep Edge pond is dry. The rookery this year has been abandoned probably due to the lack of water surrounding the shrub islands. This is the driest I have ever seen the ponds at the bank.

Wildlife Observations: Deer tracks, coyote tracks

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 6/11/07 Time: 11:00 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

Comments: Gyro-track work nearly completed for wet pine flatwood adjacent to Dry Pond…120+ acres, an additional area behind the planted pine, and about half of the peninsula.

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Spent 2 days flagging for Gyro-track. The Bank is extremely dry and continues to dry down. Powerline pond completely dry as well as Garret Pond. Most green ponds also completely dry. Nearly all of Little Deep Edge pond is dry.

Wildlife Observations: Deer tracks, turkey tracks, phoebe, blue jay

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 7/23-24/07 Time: 9:00 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

Comments: Gyro-track completed, photos taken.

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Sprayed habitat on torpedo grass at Dry pond, Garret Pond, and Green pond old boat launches. I will inspect after 2 weeks. Area between Deep Edge and Little Deep Edge covered with Bahia grass from illegal mulch. Will call Orange Hill and have them herbicide.

Wildlife Observations: Mourning dove, deer tracks, blue jay, titmouse and phoebe

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 8/6/07 Time: 9:30 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

Comments: Gyro-track starting to re-sprout.

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Areas very dry, vultures and wood storks feeding in green ponds…Dykes Mill Pond very dry, water just in pools, lots of little blue herons, snowy egrets, wood storks etc…feeding in shallow ponds that have trapped fish. Checked herbicide areas and Treated again.

Wildlife Observations: Little blue heron, snowy egret, wood stork, turkey tracks

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 9/25/07 Time: 10:00 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Everything continues to be very dry. Checked erosion areas for survival of wire grass, cypress etc…areas near greenhead branch have done well, additional spraying needed between Deep Edge and Little Deep Edge for Bahia grass…
Wildlife Observations: Deer tracks, mocking bird, red bellied wood pecker, kingfisher, wood duck, snowy egret

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 10/11/07 Time: 11:00 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Everything continues to be very dry. Most fall flowers are in mid bloom. Checking areas for winter burns. Checked gyrotrack areas, shrubs already to 3'. Checked out area around Greenhead branch for evidence of fringed orchid…Plants present but in fruit, missed flowering. Have to get with Tyler about upcoming planting and winter burns.

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 11/16/07 Time: 9:00 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Completing fall sampling. Completed nuisance and exotic species check, some feral hog damage around Dry and Dykes Mill Pond. Dykes Mill has really drained this last year…enough to walk across, vast vegetation changes. Wildlife observed included wood ducks, sandhill cranes, little blue heron, great blue heron, and phoebe.

Site Inspection Field Form **Page 1 of 1**

Name(s) of Data Collectors: David Clayton

Date: 12/13/07 Time: 11:00 am

On a monthly basis, the site will be inspected as follows:

___X____ Perimeter checked for signs of trespassing, fencing and signage integrity and infestation by exotic or nuisance vegetation;

Comments: None

___X_____ Internal Roads (Both public and maintenance) checked for signs of dumping or trespassing, erosion, bridges and road integrity, and exotic or nuisance species infestations;

Comments: No dumping, erosion or trespass.

__ X___ All construction areas checked for stabilization and re-vegetation, structure, operation, and integrity;

___X___ Powerline checked for trespassing or disturbance that may affect the integrity of the bank;

Comments: None

___X___ At least 3 polygons of each UMAM community evaluated or for those UMAM communities with less than three polygons, each UMAM polygon evaluated.

Comments: Tons of burning completed on the bank, most of the areas with downed oak or oak thinning areas have been burned. Most burns were good but a few areas did not burn as well as expected. Fall flowering mostly finished. Most of the peninsula burned really well as did the areas adjacent to the green ponds.

-TRANSECT 1 Management Unit 11, AREA Not planted until NEXT year – site worn – Plant NEXT fall

QUANTITATIVE Field Assessment Form

Date: 11/7/07 Time: 9:00am Data Collector: David Clayton 45° Sunny

Location: Management Unit 11, Transect 1

Nuisance Species: None

Fuel Load: ~~Oak~~ Some trunk-stems left over from (moderate) harvest

Wildlife Observations: None

T& E Species: None Very little vegetation remarks

Community Description: Wax Sand Pine Plantation, Newly harvested

600' transect, 20' sampling intervals

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
1	Vaccinium arboreum	3			
	Bare ground	97			
2	Bare ground	100			
3	Bare ground	100			
4	Beauty Berry	4			
	Bare ground	96			
5	Bare ground	100			
6	Bare ground	100			
7	Bare ground	100			
8	Bare ground	100			
9	Bare ground	100			
10	Bare ground	100			
11	Bare ground	100			
12	Bare ground	100			
13	Bare ground	100			
14	Bare ground	100			
15	Bare ground	100			
16	Laurel oak seedling	4			
	Bare ground	96			
17	Bare ground	100			
18	Bare ground	100			
19	Bare ground	100			
20	Bare ground	100			
21	Bare ground	100			
22	Desmodium SP.	3			
	Turkey Oak seed	1			
	Bare ground	96			
23	Ilex Vomitoria	1			
	Bare ground	99			
24	Bare ground	100			
25	Bare ground	100			
26	Laurel oak	1			
	Bare ground	99			
27	Bare ground	100			
28	Bare ground	100			
29	Turkey oak	1			
	Bare ground	99			
30	Bare ground	100			

TRANSect 2 management unit 11 – AREA Not planted or burned till winter 2008

QUANTITATIVE Field Assessment Form

Date: 11/7/07 Time: 9:30 Data Collector: David Clayton
Location:

Nuisance Species: None moderate
Fuel Load: Trunks, limbs and debris left over from Pine (Sand) harvest
Wildlife Observations: None

T&E Species: None, very little veg remains

Community Description: Wire pine Plantation (Sand) Does have remnant Sandhill community + wire grass scatter – turkey oak + other species
Adjacent Right R/Way provides seed source

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
1	Wire grass	10	23	Bare ground	100
	Bare ground	90	24	Wire grass	15
2	Turkey oak	35		Bare ground	85
	Muscadine grape vine	5	25	Persimmon	2
	Bare ground	60		Bare ground	98
3	Galactia sp	7	26	Andropogon sp	3
	Bare ground	93		Bare ground	97
4	Wire grass	3	27	Bare ground	100
	Bare ground	97	28	Wire grass	10
5	Cnidus (fat one)	2		Schiria sp	2
	Turkey oak	30		Bare ground	88
	Bare ground	68	29	Andropogon sp	5
6	Ilex Vomitoria	60		Wire grass	90
	Bracken fern	10		Panicum dichotum	5
	Bare ground	30		Desmodium	3
7	Turkey oak	3		Bare ground	97
	Bracken fern	17	30	Live oak	3
	Bare ground	80		Bare ground	97
8	Bare ground	100			
9	Wire grass	2			
	Euphorbia	2			
	Bare ground	96			
10	Bare ground	100			
11	Bare ground	100			
12	Wire grass	2			
	Wright Hypericum	2			
	Bare ground	96			
13	Bare ground	100			
14	Persimon	5			
	Bare ground	95			
15	Bare ground	100			
16	Bare ground	100			
17	Bare ground	100			
18	Bare ground	100			
19	Bare ground	100			
20	Bare ground	100			
21	Bare ground	100			
22	Wire grass	15			
	Bare ground	85			

Andropogon sp = Bushy Blue Stem

* Wire grass Sporadically Bloomed

2 pages

TRANSECT 3 Management Unit 12

QUANTITATIVE Field Assessment Form

Date: 11/7/07 **Time:** 11am **Data Collector:** Dave Clayton
Location: TRANSECT 3 Management Unit 12

Nuisance Species: None
Fuel Load: ~~Oak~~ Moderate to Low Area burned last year – Hot Fire Killed Planted Trees
Wildlife Observations:

T& E Species:

Community Description: Sandhill – Good diversity – Hot winter fire killed most remaining oaks (Oaks harvested earlier) died in fire as well as Pine Wire grass flowered + set seed

Quadrat #	Species	% Cover
1	Wire grass	20
	Vacc darrowii	3
	Bare ground	77
2	Chrysopsis	10
	AND Virgin	5
	Wiregrass	5
	Vacc darrowii	15
	Turkey oak	10
	Bare ground	3
3	Wiregrass	20
	Sparkle Berry	5
	Queens tears	15
	Bare ground	60
4	Wire grass	10
	Chrysoma	~~50~~ 50
	Turkey oak	20
	Bare ground	20
5	Wiregrass	50
	Sparkle berry	10
	Fat Shooting Star	5
	morning glory cowlily	10
	~~Angel~~ Dichanthelium	10
	Bare ground	15
6	Turkey oak	25
	Wire grass	30
	Bare ground	45
7	Wiregrass	50
	Bare ground	50
8	Dichanthelium	5
	Buckwheat	5
	Liatris fat	10
	Wire grass	15
	Scirpus sedge	50
	Bare ground	15
9	Shrubs	3
	Vaccin Arb	2
	And Virgin	3
	whitemouth glory	2
	Dichanthel	45
	Fat Shooting Star	10
	Wiregrass	10
	Bare ground	25

Quadrat #	Species	% Cover
10	Thin leaf Shooting star	20
	Buckwheat	5
	Sparkleberry	5
	Blue jack oak	10
	Vaccinium darrowii	10
	Wiregrass	30
	Bare ground	20
11	Chrysoma	70
	Wire grass	15
	Thick leaf Liatris	2
	PLLP seed	3
	Bare ground	10
12	Turkey oak	~~15~~ 15] 50
	Wire grass	35
	Pine seedlings	3
	Sparkle Berry	7
	Thin leaf Liatris	2
	Thick leaf Liatris	5
	Bare ground	33
13	Thin Shooting star	15] 55
	Wire grass	20
	Blue stem	20
	Turkey oak	5
	Sparkle berry	3] 10
	Chrysoma	2
	Shiny Blue berry	3
	Morning glory	2] 10
	Bare ground	~~35~~ 35
14	Chrysoma	50
	Wire grass	25
	Bare ground	25
15	Sporabolus (Pan	40
	Delsemium (Jasmine	5
	Turkey oak	3
	Chrysoma	2
	Persimmon	3
	Dichanthelium	2
	Bare ground	~~35~~ 5

Dave

Transect 3 page 2 Management Unit 12

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
16	Galactea	3	26	Wire grass	35
	Commelina erecta	2		Persimmon	5
	Bare ground	95		Queens [illegible]	10
17	Wire grass	25		Bare ground	50
	Chrysoma	5	27	Post oak	5
	Vaccinium darrowii	10		Desmodium	5
	Q. michauxii Postoak	40		Turkey oak	25
	Bare ground	20		Bare ground	45
18	Wire grass	50		Wire grass	20
	Panicum - tall blue	5	28	- Stylosanthes	10
	Post oak	3		Hatt's [illegible]	10
	Sparkle berry	2		Chrysoma	50
	Bare ground	40		Desmodium	10
19	Wire grass	20		Bare ground	20
	Chrysoma	5	29	Saw palmetto	5
	Dichanthelium	5		Desmodium	5
	Vaccinium darrowii	3		Vac darrowii	20
	Laurel oak	2		Wire grass	35
	Bare ground	65		Bare ground	45
20	Bracken fern	20	30	Wire grass	35
	Wire grass	25		Chrysoma	25
	Blue Panicum	10		Vaccinium darrowii	10
	Thin liatris	5		Dichanthelium	5
	Sparkle Berry	5		Bare ground	25
	Turkey oak	5			
	Bare ground	30			
21	Chrysoma	20			
	Turkey oak	10			
	Thin liatris	5			
	Wire grass	30			
	Bare ground	35			
22	Broom sedge	10			
	Persimmon	10			
	Turkey oak	5			
	Bracken fern	5			
	Bare ground	70			
23	Wire grass	10			
	Chrysoma	80			
	Bare ground	10			
24	Vaccinium darrowii	15			
	Wire grass	35			
	Bare ground	50			
25	Wire grass	25			
	Bluestem	20			
	Turkey oak	10			
	Bracken fern	10			
	Vaccinium darrowii	10			
	Bare ground	25			

TRANSECT 4, Management Unit 11

QUANTITATIVE Field Assessment Form

Date: 11/7/07 Time: 2:35 Data Collector: David Clayton

Location: Transect 4, Management Unit 11

Nuisance Species: ~~None~~ Bahia grass (patchy)

Fuel Load: Oak Mechanite - Stems, brush left over from Sandpine Harvest

Wildlife Observations: None

T& E Species: None

Community Description: Offsite sandpine - will be converted to ~~HB~~ LLP Sandhill

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
1	centipede	10	9	Bahia grass	10
	Bare ground	90		Centipede	15
2	Sandhill Sedge	25		Desmodium	5
	Centipede	35		Scrub Sedge	40
	Bare ground	40		Bare ground	30
3	Rip cup	10	10	Sand black berry	5
	Persimmon	3		Scrub oak/Asterisk	10
	Sandhill Sedge	10		Cyperus	5
	Cyperus sp	2		Centipede	45
	Centipede	45		Bare ground	35
	Bare ground	10	11	Bahia grass	5
4	Rubbish - Balls (rotten	5		Centipede	10
	Poor Jack	10		cyperus	5
	Scrub Sedge	20		Sand Sedge Scrub	30
	Centipede	45		Bare ground	50
	Bare ground	20	12	Black berry	2
5	Centipede	65		Persimmon	3
	Pensilmon	5		Cyperus	2
	Desmodium	5		Desmodium	3
	Scrub Sedge	5		Scrub Sedge	15
	Bare ground	20		Bare ground	75
6	Galactia	20	13	Centipede	15
	Centipede	55		Vaccinium corymb	2
	Sand pine	5		Desmodium	3
	Rhynchosia - Pea	5		Bare ground	80
	Bare ground	15	14	White morning glory	5
7	Centipede	5		Persimmon	10
	Callicarpa	5		Centipede	10
	Laurel oak	10		Sand Scrub Sed &	20
	Scrub Sedge	40		Bare ground	55
	Bare ground	40	15	Live oak	2
8	Persimon	5		Bare ground	98
	Cyperus	5			
	Scrub Sedge	25			
	Desmodium	5			
	Dichanthelium	5			
	Bare ground	55			

Transect 4 Management Unit 11

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
16	Bare ground	100			
17	Pennisetum	5			
	Bare ground	95			
18	centipede	20			
	Bahia grass	5			
	Bare ground	75			
19	Kyllinga sp.	5			
	centipede	2			
	Bare ground	95			
20	centipede	45			
	galactia	5			
	Sensative briar	3			
	Bare ground	47			
21	Desmodium	3			
	centipede	7			
	Bare ground	90			
22	Centipede	30			
	Bare ground	70			
23	Desmodium	3			
	galactia	2			
	Bare ground	95			
24	Bare ground	100			
25	Bare ground	100			
	centipede	5			
	galactia	3			
	Bare ground	92			
26	Bare ground	100			
27	Euphorbia sp.	3			
	Bare ground	97			
28	Euphorbia sp.	3			
	galactia	5			
	Bare ground	92			
29	Desmodium	3			
	Bare ground	97			
30	Desmodium	3			
	centipede	5			
	Bare ground	98			

TRANSECT 5 Management Unit 12
Pines to be planted January

QUANTITATIVE Field Assessment Form

Temp 67

Date: 11/16/09 Time: 9am Data Collector: David Clayton
Location: TRANSECT 5 management Unit 12
Nuisance Species: None
Fuel Load: ~~Oak~~ High – will be burned this fall/winter
Wildlife Observations: wren, cardinal, chipping sparrow

T& E Species: None
Community Description: Overgrown w/ oaks – most pines absent
Diverse sandhill species abound – shrubs low

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
1	Wiregrass	30	8	Polygala	5
	Bare ground	70		Cup cup	10
2	Crysoma	15		Bracken	10
	Wiregrass	30		Wire grass	60
	Bare ground	55		Bare ground	15
3	Crysoma	40	9	Crysoma	10
	Wire grass	30		Buckwheat	5
	Bare ground	30		Polygala	5
4	Persimmon			Wiregrass	35
	Wire grass	20		Blue jack oak	10
	Bushy Bluestem	5		Smilax bonanox	5
	Bracken	5		Bushy Blue stem	5
	gopher apple	10		Bare ground	~~30~~ 25
	Queen's Delight	10	10	Crysoma	25
	Bare ground	30		Bracken	5
5	Turkey oak	20		Wire grass	30
	Persimmon	10		gopher apple	5
	Wire grass	25		Polygala	5
	gopher apple	5		Bare ground	30
	Crysoma	5	11	Gopher apple	10
	Bare ground	45		Wiregrass	35
6	Balduina	20		Bare ground	55
	Wire grass	15	12	Wire grass	55
	Big [illegible]	5		Dog [illegible]	10
	Bracken	3		Crysoma	5
	Turkey oak	5		Bare ground	30
	polygala	~~20~~ 15	13	Buckwheat	5
	Crysoma	10		Lechea	2
	gopher apple	5		Persimmon	3
	Persimon	3		Polygala	5
	Smilax bonanox	2		[illegible]	10
	Bare ground	17		Blue jack oak	10
7	white [illegible]	2		Wire grass	~~45~~ ~~35~~ 55
	Solidago [illegible]	5		Agalinis setacea	10
	[illegible]	3	14	Blue panicum	5
	Bracken	2		~~Blue [illegible]~~ Liatris BB	3
	Wiregrass	~~45~~ 50		Crysoma	10
	Bare ground	38		Wire grass	~~35~~ 35
				Bare ground	47

12
52
62
38
23

Transect 5 Management Unit 12

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
15	Turkey oak	2	23	Sand Squaror	5
	Blue Panicum	3		Polygala	3
	Polygala	35		Hypericum	2
	Crysoma	5		Galactia	5
	Brachen	5		wiregrass	15
	Wire grass	45		Bare ground	70
	Bare ground	15	24	wire grass	10
16	Turkey oak	30		Gopher apple	5
	Wiregrass	25		Andropogon virg	10
	Bare ground	45		Bare ground	75
17	Wiregrass	35	25	Bracken	5
	Bracken	10		Wire grass	45
	Smilax bona	5		Vaccinium darrowii	5
	Turkey oak	10		Bare ground	45
	Bare ground	40	26	Wire grass	60
18	Shrubs	15		Bare ground	40
	~~[illegible]~~	5	27	Gopher apple	20
	Crysoma	~~5~~ 23		Wire grass	30
	Wiregrass	15		Andropogon vir	5
	Brackin	5		Bracken	5
	Bare ground	52		Bare ground	40
19	Yucca fil	5	28	Wire grass	45
	Solidago [illegible]	5		Gopher apple	15
	Polygala	5		Bare ground	40
	Crysoma	15	29	Wire grass	50
	Wire grass	35		Gopher apple	30
	Legume [illegible]	3		Bare ground	20
	Bare ground	32	30	Wire grass	60
20	Croton michauxii	25		Turkey oak	10
	[illegible] big	10		Desmodium	5
	Wiregrass	30		Bare ground	25
	Bushy blue stem	3			
	Crysoma	5			
	Bare ground	32			
21	Turkey oak	10			
	Crysom	45			
	Wire grass	25			
	Bare ground	20			
22	Bracken	5			
	Wire grass	20			
	Chrysoma	15			
	Galactia	5			
	Polygala	5			
Croton	Queen's delight	10			
	Bare ground	35			
[illegible]	Lechea big	5			

TRANSECT 6 ~~Patty~~ Management Unit 2

Robin
Towhee

QUANTITATIVE Field Assessment Form

Date: 1/16/07 **Time:** 11 am **Data Collector:** David Clayton
Location: Transect 6 Management Unit 2
Nuisance Species:
Fuel Load: ~~Oak~~ Moderate – will be burned this spring
Wildlife Observations: Ht – 2.5 – 3' max Towhee
T&E Species:
Community Description: Overgrown wet flatwoods – gyrotracked this spring some regrowth – mesh Black ti ti some slash pine

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
1	Bare ground	40	8	Black ti ti	30
	Clethra	10		Silk Bay	25
	Lyonia lucida	25		Lyonia lucida	20
	Leucothoe	5		Leucothoe	10
	Black ti ti	20		Bare ground	15
2	Bare ground	60	9	Lyonia lucida	~~4~~55
	Ilex coriacea	25		Leucothoe	15
	Clethra	10		Silk Bay	20
	Leucothoe	5		Bare ground	10
3	Persea pal	5	10	Ilex myrt	10
	Ilex coriacea	30		Vaccinium cory	30
	Lyonia lucida	10		Lyonia lucida	20
	Leucothoe	5		Black ti ti	5
	Clethra	5		Leucothoe	15
	Bare ground	45		Bare ground	20
4	Persea palustris	10	11	Wild olive	5
	Ilex glabra	25		Black ti ti	25
	Ilex coriacea	25		Lyonia lucida	~~45~~ 50
	~~Persea pal~~			Bare ground	20
	Bare ground	40	12	Ilex myrt	5
5	Black ti ti	25		Lyonia lucida	30
	Clethra	5		Black ti ti	15
	Lyonia lucida	10		Bare ground	50
	Leucothoe	~~5~~5	13	Rhynchospora	5
	Persea pal	5		Lyonia lucida	10
	Bare ground	50		Persea	5
6	Persea palust	15		Bare ground	80
	Vaccinium corym	10	14	Leucothoe	5
	Leucothoe	5		Black ti ti	5
	Black ti ti	10		Vaccinium corym	5
	Lyonia lucida	10		Bare ground	85
	Ilex glabra	10	15	Black ti ti	25
	Bare ground	40		Leucothoe	10
7	Silver Bay	30		Lyonia lucida	20
	Black ti ti	25		Bare ground	45
	Silk Bay	20			
	Lyonia lucida	~~15~~10			
	Bare ground	~~10~~15			

Transect 6 Management Unit 2

Quadrat #	Species	% Cover
16	Black titi	5
	Lyonia lucida	65
	Bare ground	30
17	Black titi	55
	Bare ground	45
18	Black titi	30
	Lyonia lucida	20
	Persea palustris	15
	Bare ground	45
19	Ilex glabra	55
	Black titi	20
	Silk Bay	5
	Lyonia lucida	10
	Bare ground	10
20	Yucca sp.	3
	Ilex myrt	12
	Lyonia lucida	20
	Black titi	15
	Bare ground	50
21	Black titi	5
	Ilex myrt	25
	Silk Bay	25
	Lyonia lucida	35
	Bare ground	20
22	Lyonia lucida	45
	Ilex myrt	15
	Bare ground	40
23	Black titi	30
	Leucothoe	10
	Ilex myrt	10
	Bare ground	50
24	Yucca sp.	5
	Ilex myrt	10
	Black titi	5
	Persea pauli	5
	Lyonia lucida	20
	Bare ground	55
25	Black titi	25
	Lyonia lucida	35
	Ilex myrt	15
	Persea pauli	5
	Bare ground	30
26	Persea pauli	5
	Ilex myrt	30
	Black titi	10
	Lyonia lucida	15
	Bare ground	40

Quadrat #	Species	% Cover
27	Leucothoe sp.	15
	Black titi	10
	Lyonia lucida	15
	Persea pauli	15
	Bare ground	45
28	Ilex myrt	25
	Black titi	10
	Lyonia lucida	15
	Leucothoe	5
	Bare ground	45
29	L. racemosa	20
	Black titi	10
	Lyonia lucida	15
	Bare ground	55
30	Ilex myrt	30
	Black titi	5
	Rhynchospora	5
	Bare ground	60

TRANSECT 7 Management Unit 2

QUANTITATIVE Field Assessment Form

Date: 11/8/07 Time: 10am Data Collector: David Clayton

Location: Transect 7 Management Unit 2

Nuisance Species: None

Fuel Load: Oak Moderate area gyrotracked for shrub reduction will be burned this fall/winter

Wildlife Observations: Titmouse, Red bellied Woodpecker, Robin

T& E Species:

Community Description: Overgrown wet flatwoods silver bay 3' % ... sprouts Black titi < 2.5'

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
1 (Burned 40)	Black titi	50	13	Blk titi	60
	Leucothoe rac	5		Leucothoe rac	2
	Ilex myrtifolia	5		Bare ground	38
2	red root	15	14	Black titi	50
	Black titi	35		Leucothoe rac	2
	Vacc. corym	10		Bare ground	48
	Bare ground	40	15	Lyonia luc	5
3	Black titi	60		red root	5
	Ilex myrt	5		titi	20
	Bare ground	45		Bare ground	70
4	Cyperus	15	16	Red root	30
	Black titi	30		Black titi	10
	Ilex myrt	5		Leucoth rac	5
	Bare ground	50		Bare ground	55
5	Black titi	45	17	red root	5
	Ilex myrt	5		Ilex myrt	5
	Bare ground	50		Persea pal	2
6	Black titi	30		Lyonia luc	3
	Bare ground	70		Blk titi	50
7	red root	25		Bare ground	35
	Leucothoe rac	~~[illegible]~~ 15	18	Leucoth rac	10
	Black titi	35 ~~45~~		Persea pal	10
	Bare ground	25 ~~35~~		Blk titi	65
8	red root	30		Bare ground	15
	Blk titi	10	19	Leucoth rac	30
	Bare ground	60		Blk titi	20
9	Ilex glabra	15		Bare ground	50
	Leucothoe rac	5	20	Lyonia lucid	25
	Blk titi	5		Blk titi	10
	Bare ground	75		Bare ground	65
10	Leucothoe rac	10	21	Leucoth rac	~~[illegible]~~ 25
	Black titi	30		Blk titi	10
	Bare ground	60		Bare ground	65
11	Leucoth rac	20	22	Lyonia luc	25
	Blk titi	30		Black titi	5
	Bare ground	50		Ilex myrt	5
12	Blk titi	60		Bare ground	65
	Bare ground	40			

TRANSECT 7 Management Unit 2

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
23	Persea pubes	10			
	Lyonia lucida	10			
	Black fly	20			
	Bare ground	60			
24	Leucothoe	10			
	Lyonia lucida	15			
	Bare ground	75			
25	Blk fly	50			
	Bare ground	50			
26	Persea pubes	30			
	Blk fly	60			
	Bare ground	40			
27	Vac. corymbo	5			
	Lyonia lucida	40			
	Persea pubes	30			
	Black fly	5			
	Bare ground	20			
28	Persea pubes	70			
	Lyonia lucida	10			
	Bare ground	20			
29	Persea pubes	50			
	Lyonia lucida	10			
	Vaccinium corymbosum	30			
	Bare ground	10			
30	Lyonia lucida	10			
	Bare ground	90			

TRANSect length 520'

TRANSect Length 220 300 [illegible] 520 (size of habitat)

TRANSect 8 management Unit 2

Bluejay, Towhee, Cardinal

QUANTITATIVE Field Assessment Form

Date: 1/8/07 **Time:** 2pm **Data Collector:** David Clayton

Location: TRANSect 8 management Unit 2

Nuisance Species: pine

Fuel Load: ~~Oak~~ moderate - will be burned next year

Wildlife Observations: Has had pine tree reduction - still too many + fire should reduce further

T& E Species:

Community Description: ?

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
1	Dichanthel	2	12	Vitis Rotun	10
	Red Root	3		Bare ground	90
	Bare ground	95	13	Blk titi	5
2	Lyonia lucida	3		Red Root	5
	Red Root	2		Dichan	5
	Bare ground	95		Bare ground	85
3	Vaccin Cory	3	14	Red Bay	25
	Black titi	5		Yellow Jasmine	10
	Panicum sp (fine)	7		Laurel Oak	5
	Bare ground	85		Bare ground	60
4	Red Root	10	15	Red Bay	20
	Vacc cory	3		Red Root	5
	Bare ground	87		Bare ground	75
5	Blk titi	5			
	Vacc cory	10			
	Bare ground	85			
6	Wax Myrtle	15			
	Red Root	10			
	Bare ground	75			
7	Ilex glabra	30			
	Wax Myrtle	2			
	Blk titi	2			
	Lyonia lucid	6			
	Bare ground	60			
8	Red Bay	3			
	Blk titi	7			
	Bare ground	90			
9	Vacc cory	5			
	Dichan	5			
	Vacc darrowii	5			
	Bare ground	85			
10	Ilex vom	25			
	Blk titi	5			
	Lyonia vac	5			
	BARE GROUND	65			
11	Red Bay	40			
	Blk titi	10			
	Vac cory	5			
	Bare ground	45			

TRASECT 8 Management Unit 2

ENDED at 220

Quadrat #	Species	% Cover	Quadrat #	Species	Page 2 of 2 % Cover
16	Glonia lucard	25			
	Blk ti ti	3			
	red root	2			
	Bare ground	70			
17	Smilax laur	2			
	Bare ground	98			
18	Leucothrae	2			
	Persea palustris	3			
	Cyrilla Walterian	10			
	Blk ti ti	5			
	Bare ground	80			
19	Bare ground	100			
20	red root	3			
	Vacc cor	7			
	Bare ground	90			
21	Red Root	3			
	Bare ground	97			
22	Dichan	2			
	Black ti'ti	5			
	Leucothrae	3			
	Bare ground	90			
23	Pieris	10			
	Leucothoe rac	55			
	Bare ground	45			
24	Black ti ti	5			
	Pieris	5			
	Leucothrae	20			
	Ilex coriacea	10			
	Bare ground	60			
25	Blk ti ti	20			
	Leucothoe	15			
	Pieris	5			
	Bare ground	60			
26	Leucothoe	30			
	Black ti ti	15			
	Bare ground	65			

Chipping Sparrow
Hog damage
Sandhill Cranes 2
Water Snake

QUANTITATIVE Field Assessment Form

Date: 1/18 **Time:** 3:00pm **Data Collector:** David Clayton
Location: T9, Management Unit 5
Nuisance Species: None
Fuel Load: ~~Oak~~ Low
Wildlife Observations: Little Blue heron, Cereal Egret
T& E Species: Drosera intermedia
Community Description: Dam area – Flooded marsh + floodplain forest. Dam removed + system drained – will plant Edge w/ trees/ferns spring

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover
1	RI	~~90~~ 95	12	Rynch ina	~~5~~ 40
	Bare ground	5		Drosera intermedia	5
2	RI	95		Water lily	10
	WL	5		Bare ground	45
	Bare ground	40	13	Xyris sp	50
3	Red root	3		Standing Bladderwort	5
	WL	7		Rynch spp	20
	RI	25		Bare ground	25
	Rynch	5	14	Drosera intermedia	3
	Bare ground	~~60~~ 75		Rynch inundata	30
4	Rynch	30		Water lily	5
	RI	20		Bare ground	62
			15	Red root	2
	BG	50		Xyris	3
5	Water Smartweed	5		Drosera int	5
	Ryn Fn	25		Rynch inundata	55
	WL	5		Rynch microcep	25
	Rynchos	15		Bare ground	~~40~~ ~~25~~ 40 ok
	BG	50	16	Xyris	3
6	Rynch Fn	60		Rynch inun	15
	Rynch	20		Rynch sp	70
	Water lily	5		Bare ground	10
	Bare ground	15	17	Water Lily	10
7	Xyris sp	5		Rynch inunda	15
	Rynch inundata	20		Bare ground	75
	Drosera intermedia	5	18	Rynch microcep	5
	Bare ground	70		Rynch inundata	60
8	Water lily	15		Water lily	5
	Xyris	15		Bare ground	30
	Lachnocaulon	15	19	Rynch inundata	55
	Open water	~~45~~ 55		Rynch sp	20
9	Ryn inun	60		Bare ground	25
	Rynch	10	20	Rynch inund	50
	Bare ground	30		Rynch micro	10
10	Rynch inund	20		Rynch	20
	Rynch	15		Bare ground	~~30~~ 20
	Bare ground	65	21	Bladderwort cornuta	15
11	Water lily	20		Water lily	15
	Rynch inundata	40	11 water	Drosera i	5
	Rynch	10		Rynch inundata	10
	Open water	30		Water	55

Dry ground

Wet fill

Dry

Water fill

Quadrat #	Species	% Cover	Quadrat #	Species	% Cover

Qualitative Field Assessment Form

Date: 10/25/2006 **Time:** 9:30 am **Data Collector:** David Clayton

Location: Pedestrian Transect # M1 near photo point 15

Management Unit: 10

Nuisance Species: Bahia grass at gate entrance

Fuel Load: Oak Trees have been thinned, area due to be burned this winter 2008/2009, fuel load high

Wildlife Observations: Blue jay, tufted titmouse, deer and raccoon tracks

T& E Species: Large population of Gulf Coast Lupine in sand hill and Smooth Barked St. John's Wort around pond

Community Description: Sandhill upland adjacent to a solution pond. Sandhill with good diversity and excellent groundcover. Marsh with excellent zonation consisting of an outer ring of myrtle leaved holly, and some black, then a dense zone of smooth barked St. John's wort, followed by maidencane, then open water and submerged aquatics.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Amphicarpum muhlenbergianum	Blue maidencane				X
Andropogon glomeratus	Busy blue stem				X
Aristida stricta var. beyrichiana	Wiregrass				X
Baptisia lanceolata	Gopher weed				X
Balduina angustifolia	Coastal plain honeycombhead				X
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Chrysoma pauciflosculosa	Woody Goldenrod				X
Cliftonia monophylla	Black-ti ti		X		
Crysopsis scabrella	Goldenaster				X
Cyrilla racemiflora	Titi		X		
Dalea pinatta	Summer farewell				X
Dicanthelium scoparium	Panic grass				X
Dicanthelium spp.	Panic grass				X
Eleocharis sp.	Eleocharis				X
Eriogonum tomentosum	Wild Buckwheat				X
Eupatorium capillifolium	Dog fennel				X
Eupatorium mohrii	Eupatorium				X
Euthamia caroliniana	Flat-topped goldenrod				X
Gaylussacia dumosa	Dwarf huckleberry		X		
Gelsemium sempervirens	Florida Jasmine			X	
Hypericum crux-andreae	St. Peter's wort				X
Hypericum reductum	Atlantic St. John's wort				X
Hypericum gentinoides	Pineweed				X
Hypericum tissophloeus	Smooth Bark St. John's wort		X		
Hypericum spp.	St. John's wort		X		
Ilex glabra	Gall berry		X		
Ilex myrtifolia	Myrtle leaf holly		X		
Ilex vomitoria	Yaupon		X		
Lachnocaulon anceps	White topped bog buttons				X
Licania michauxii	Gopher apple				X

Scientific Name	Common Name	Tree	Shrub	Vine	Herbaceous
Lupinus diffusus	Sky-blue lupine				X
Lupinus westianus	Gulf Coast Lupine				X
Magnolia virginiana	Silver bay	X			
Myrica cerifera	Wax myrtle		X		
Opuntia humifusa	Pricklypear cactus				X
Panicum dichotimiflorum	Fall panic grass				X
Panicum hemitomon	Maidencane				X
Paspalum notatum	Bahia grass				X
Persea barbonia	Red Bay	X			
Polygonella gracillis	Wire weed				X
Pinus clausa	Sand Pine	X			
Pinus elliottii	Slash pine	X			
Pinus palustris	Longleaf pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wireweed				X
Quercus geminata	Sand Live Oak	X			
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus virginiana	Live Oak	X			
Rhexia mariana	Pale meadow beauty				X
Rhus copallinum	Sumac		X		
Rubus cuneifolius	Sand blackberry		X		
Serenoa repens	Saw Palmetto		X		
Smilax sp.	Catbriar			X	
Stylisma patens	Coastal plain dawnflower				X
Utricularia floridana	Bladderwort				X
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Viburnum obovatum	Walter's viburnum		X		
Vitus rotundifolia	Muscadine			X	
Xyris sp.	Yellow-eyed grass				X
Yucca filamentosa	Adam's needle				X

Qualitative Field Assessment Form

Date: 10/28/2006 **Time:** 2:00 pm **Data Collector:** David Clayton

Location: Pedestrian Transect # M2 near photo point 3

Management Unit: 10

Nuisance Species: None

Fuel Load: Fuel load moderate

Wildlife Observations: **Chickadee, red bellied woodpecker**

T& E Species: None

Community Description: Sandhill upland overgrown with live and turkey oaks…good wiregrass cover, but allot of shade, recommend that oaks be thinned. Lots of deer moss on ground, a very dry site that grades down towards Pine Log Creek.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Aristida stricta var. beyrichiana	Wiregrass				X
Baptisia lanceolata	Gopher weed				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Dichanthelium sp.	Witch grass				X
Diospyros virginiana	Persimmon	X			
Galactia sp.	Milk pea				X
Eriogonum tomentosum	Wild Buckwheat				X
Gelsemium sempervirens	Florida Jasmine			X	
Hypericum crux-andreae	St. Peter's-wort				X
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Licania michauxii	Gopher apple				X
Photinia pyrifolia	Red chokeberry		X		
Pinus clausa	Sand pine	X			
Pinus palustris	Long leaf pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wire weed				X
Quercus hemisphaerica	Diamond oak	X			
Quercus laevis	Turkey oak	X			
Quercus virginiana	Live oak	X			
Rhexia mariana	Pale meadow beauty				X
Serenoa repens	Saw-palmetto		X		
Scleria sp.	Scleria				X
Smilax sp.	Catbriar			X	
Sorghastrum secundum	Lopsided Indiangrass				X
Vaccinium arboreum	Farkleberry		X		
Vaccinium corymbosum	Highbush blueberry		X		
Vaccinium darrowii	Darrow's blueberry		X		
Vitis rotundifolia	Wild muscadine grape			X	

Sporobolus Replant erosion areas
Some wiregrass ~~seen~~ ...

Qualitative Field Assessment Form

Date: 10/16/2006 **Time:** 11:00 am **Data Collector:** David Clayton
Location: Pedestrian Transect # M3 near photo point 2
Management Unit: 12

Nuisance Species: None
Fuel Load: Fuel load high due to thinned oaks… will be burned in the winter of 2006/2007

Wildlife Observations: **none**
T& E Species: Southern crab apple, gulf coast lupine

Community Description: Sandhill upland sloping down into the seepage area associated with Cat pond. Excellent diversity and groundcover. Wire grass bloomed this summer…area planted with long leaf pine

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
~~*Andropogon glomeratus*~~	Busy blue stem				X
~~*Andropogon gyrans*~~	Elliot's blue stem				X
~~*Aristida stricta var. beyrichiana*~~	Wiregrass				X
Asclepias cinerea	Carolina milkweed				X
Asclepias humistrata	Pinewoods milkweed				X
~~*Baptisia lanceolata*~~	Gopher weed				X
~~*Carphephorus*~~ *odoratissimus*	Vanilla leaf				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
~~*Dichanthelium sp.*~~	Witch grass				X
~~*Eriogonum tomentosum*~~	~~Wild Buckwheat~~				X
~~*Gaylussacia dumosa*~~	Dwarf huckleberry		X		
~~*Gelsemium sempervirens*~~	Florida Jasmine			X	
~~*Hieracium gronovii*~~	~~Hawkweed~~				X
~~*Hypericum gentianoides*~~	~~Pineweed~~				X
~~*Ilex vomitoria*~~	Yaupon		X		
~~*Liatris gracilis*~~	Slender gayfeather				X
~~*Liatris pauciflora*~~	Few flowered gayfeather				X
~~*Licania michauxii*~~	Gopher apple				X
~~*Lupinus diffusus*~~ Gulf coast	~~Skyblue lupine~~				X
Magnolia grandiflora	Southern magnolia	X			
~~*Malus angustifolia*~~	~~Southern crabapple~~	X			
~~*Polygonella gracilis*~~	~~Wire weed~~				X
~~*Pinus elliottii*~~	~~Slash pine~~	X			
~~*Pinus palustris*~~	~~Long leaf pine~~	X			
Pityopsis graminifolia	Golden Aster				X
~~*Polygonella gracilis*~~	~~Wireweed~~				X
Pteridium aquilinum	Bracken fern				X
~~*Quercus laevis*~~	~~Turkey oak~~	X			
~~*Quercus margaretta*~~	~~Sand post oak~~	X			
~~*Quercus virginiana*~~	~~Live oak~~	X			
~~*Rhexia mariana*~~	Pale meadow beauty				X
~~*Smilax sp.*~~	Catbriar			X	
~~*Tradescantia hirsutiflora*~~	Hairyflower spiderwort				X
~~*Yucca filamentosa*~~	Adam's needle				X

Bluestem
Carphephorus → Queens delight
Ilex glabra
Ilex opaca
Sand pine
Lichen

Vaccinium darrowii
Vaccinium corymbosum
Runner oak
Cyperus

Qualitative Field Assessment Form

Date: 10/28/2006 **Time:** 4:00 pm **Data Collector:** David Clayton

Location: Pedestrian Transect # M4 near photo point 4

Management Unit: 12

Nuisance Species: None

Fuel Load: Fuel load low to moderate, area was burned but shrubs are returning...some kill off of oaks from previous burns...should be burned in the next year

Wildlife Observations: **Blue jay, titmouse, red bellied woodpecker, active gopher tortoise burrow near pond**

T& E Species: None observed

Community Description: Sandhill upland sloping down into the seepage area associated with Little Deep Edge pond. Excellent diversity and groundcover. Wire grass bloomed this summer...

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Andropogon glomeratus	Busy blue stem				X
Andropogon gyrans	Elliot's blue stem				X
Aristida stricta var. beyrichiana	Wiregrass				X
Asimina angustifolia	Slimleaf pawpaw		X		
Aster pilosus	Frost-aster				X
Aster wateri	Walter's aster				X
Balduina angustifolia	Coastalplain honeycombhead				X
Baptisia lanceolata	Gopher weed				X
Carphephorus odoratissimus	Vanilla leaf				X
Ceanothus microphyllus	Littleleaf buckrush				X
Croton argyranthemus	Silver croton				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Crysopsis scabrella	Goldenaster				X
Cyperus sp.	Cyperus				X
Dalea pinatta	Summer farewell				X
Dicanthelium spp.	Panic grass				X
Digitaria filiformis	Slender crabgrass				X
Diospyros virginiana	Persimon	X			
Elephantopus carolinianus	Elephant's foot				X
Eremochloa ophiuroides	Centipede grass				X
Eriogonum tomentosum	Wild Buckwheat				X
Eryngium yuccifolium	Rattlesnake master				X
Eupatorium capillifolium	Dog fennel				X
Eupatorium hyssopifolium var. lacinatum	Hyssopleaf thoroughwort				X
Eupatorium leucolepis	Justiceweed				X
Eupatorium serotinum	Late thoroughwort				X
Galactia volubilis	Milkpea				X
Gaura filipes	Slenderstalk beeblossom				X
Gelsemium sempervirens	Florida Jasmine			X	
Hieracium gronovii	Hawkweed				X
Helianthus radula	Rayless sunflower				X
Hypericum crux-andreae	St. Peter's wort				X
Hypericum gentianoides	Pineweed				X
Ilex glabra	Gall berry		X		

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Liatris pauciflora	Few flowered gayfeather				X
Licania michauxii	Gopher apple				X
Lobelia glandulosa	Glade lobelia				X
Lupinus diffusus	Skyblue lupine				X
Opuntia humifusa	Pricklypear cactus				X
Paronychia rugelii	Sand-squares				X
Penstemon multiflorus	Penstemon				X
Polygonella gracilis	Wire weed				X
Pinus elliottii	Slash pine	X			
Pinus palustris	Long leaf pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wireweed				X
Pteridium aquilinum	Bracken fern				X
Quercus elliottii	Runner oak		X		
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus margaretta	Sand post oak	X			
Quercus virginiana	Live oak	X			
Rhexia mariana	Pale meadow beauty				X
Rubus cuneifolius	Sand blackberry		X		
Serenoa repens	Saw palmetto		X		
Solidago odora var. chapmanii	Chapman's goldenrod				X
Seymeria cassioides	Senna seymaria				X
Smilax sp.	Catbriar			X	
Stillingia sylvatica	Queen's delight				X
Trichostema setaceum	Forked blue curls				X
Vaccinium arboreum	Sparkle berry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Viola sororia	Common blue violet				X
Yucca filamentosa	Adam's needle				X

Qualitative Field Assessment Form

Date: 10/28/2006 **Time:** 4:50 pm **Data Collector:** David Clayton

Location: Pedestrian Transect # M5 near photo point 1

Management Unit: 11

Nuisance Species: None

Fuel Load: Planted pine, fuel load moderate, area was burned but shrubs are returning...should be burned in the next year

Wildlife Observations: **squirrel nest**

T& E Species: None observed

Community Description: Sandhill upland upslope of black pond. Sandhill with good diversity and excellent groundcover. Wire grass bloomed this summer...area planted with long leaf pine.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Andropogon glomeratus	Busy blue stem				X
Andropogon gyrans	Elliot's blue stem				X
Aristida stricta var beyrichiana	Wiregrass				X
Asimina angustifolia	Slimleaf pawpaw		X		
Aster pilosus	Frost aster				X
Aster waterı	Walter's aster				X
Baptisia lanceolata	Gopher weed				X
Carphephorus odoratissimus	Vanilla leaf				X
Ceanothus microphyllus	Littleleaf buckrush				X
Croton argyranthemus	Silver croton				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Crysopsis scabrella	Goldenaster				X
Dalea pinatta	Summer farewell				X
Dicanthelium spp.	Panic grass				X
Digitaria filiformis	Slender crabgrass				X
Diospyros virginiana	Persimon	X			
Elephantopus carolinianus	Elephant's foot				X
Eremochloa ophiuroides	Centipede grass				X
Eriogonum tomentosum	Wild Buckwheat				X
Eupatorium capillifolium	Dog fennel				X
Eupatorium serotinum	Late thoroughwort				X
Galactia volubilis	Milkpea				X
Gelsemium sempervirens	Florida Jasmine			X	
Hieracium gronovii	Hawkweed				X
Hypericum crux-andreae	St. Peter's wort				X
Ilex glabra	Gall berry		X		
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Liatris pauciflora	Few flowered gayfeather				X
Licania michauxii	Gopher apple				X
Opuntia humifusa	Pricklypear cactus				X
Penstemon multiflorus	Penstemon				X
Pinus elliottii	Slash pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wireweed				X

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Quercus hemispheaxica	Diamond oak	X			
Quercus inoana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus margaretta	Sand post oak	X			
Rubus cuneifolius	Sand blackberry		X		
Solidago odora var. chapmanii Sempervirens	Chapman's goldenrod				X
Seymeria cassioides	Senna seymaria				X
Smilax sp	Catbriar			X	
Stillingia sylvatica	Queen's delight				X
Trichostema setaceum	Forked blue curls				X
Vaccinium arboreum	Sparkle berry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Yucca filamentosa	Adam's needle				X

Rhus copallina
Rabbit tobacco
Bejaria
Asimina angustifolia
Ilex opaca
Wood sorrel

Qualitative Field Assessment Form

Date: 10/16/2006 **Time** 11:15 am **Data Collector:** David Clayton

Location: Pedestrian Transect # M6

Management Unit: 14

Nuisance Species: scattered patches of torpedo grass at boat landing

Fuel Load: Low

Wildlife Observations: white ibis, snipe, turkey tracks, raccoon tracks, deer tracks, alligator tracks

T& E Species:.Smooth barked St. John's wort around the edge of pond

Community Description:Edge dominated by slash pine and shrubs with some black gun and cypress. Majority of pond has dried down and dominated by Rhynchospora and Eleocharis. Most species appear healthy though some have died from drought

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Bushy blue stem				X
Bidens mitis	Bur marsh marigold				X
Brasenia schreberi	Water shield				X
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Cliftonia monophylla	Black ti ti		X		
Cyrilla racemiflora	Red ti ti		X		
Dicanthelium spp.	Panic grass				X
Eleocharis sp.	Eleocharis				X
Eupatorium capillifolium	Dog fennel				X
Hypericum lissophloeus	Smooth barked St. John's wort		X		
Hypericum spp.	St. John's wort		X		
Ilex vomitoria	Yaupon		X		
Lachnanthese caroliniana	Red root				X
Lachnocaulon anceps	White topped bog buttons				X
Lycopus rubellus	Water horehound				X
Numphar advena	Spatterdock				X
Nymphaea odorata	Fragrant water lily				X
Nyssa sylvatica	Black gun	X			
Panicum dichotimiflorum	Fall panic grass				X
Panicum hemitomon	Maidencane				X
Panicum repens	Torpedo grass				X
Persea palustris	Swam bay	X			
Pinus elliottii	Slash Pine	X			
Pontederia cordata	Pickerel weed				X
Quercus hemisphaerica	Diamond Oak	X			
Rhexia mariana	Pale meadow beauty				X
Rynchospora inundata	Horned beakrush				X
Sacciolepis striata	American cupscale				X
Sagittaria latifolia	Duck potato				X
Smilax sp.	Catbrlar			X	
Taxodium ascendens	Cypress	X			
Triadeum virginicum	Marsh St. John's wort				X
Utricularia floridana	Bladderwort				X
Vaccinium corymbosum	High bush blue berry		X		
Xyris sp.	Yellow-eyed grass				X

Qualitative Field Assessment Form

Date: 10/16/2006 **Time:** 1:15 pm **Data Collector:** David Clayton

Location: Pedestrian Transect # M7

Management Unit: 4

Nuisance Species: None

Fuel Load: Low

Wildlife Observations: Blue jay, raccoon tracks, deer tracks

T& E Species: Hypericum lissophloeus (Smooth barked St. John's wort

Community Description: Water ponded due to dike. Floating mats of yellow eyed grass, sphagnum, and bur marsh marigold. Dominated by cypress with some black gum. Most species appear healthy

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Bushy blue stem				X
Bidens mitis	Bur marsh marigold				X
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Cliftonia monophylla	Black ti ti		X		
Cyrilla racemiflora	Red ti ti		X		
Dicanthelium spp.	Panic grass				X
Eleocharis sp.	Eleocharis				X
Eupatorium capillifolium	Dog fennel				X
Hypericum lissophloeus	Smooth barked St. John's wort		X		
Hypericum spp.	St. John's wort		X		
Ilex glabra	Gall berry		X		
Ilex vomitoria	Yaupon		X		
Lachnanthese carolintana	Red root				X
Lachnocaulon anceps	White topped bog buttons				X
Lycopus rubellus	Water horehound				X
Numphar advena	Spatterdock				X
Nymphaea odorata	Fragrant water lily				X
Nyssa sylvatica	Black gun	X			
Panicum dichotimiflorum	Fall panic grass				X
Panicum hemitomon	Maidencane				X
Persea palustris	Swam bay	X			
Pinus elliottii	Slash Pine	X			
Pontederia cordata	Pickerel weed				X
Quercus hemisphearica	Diamond Oak	X			
Rhexia mariana	Pale meadow beauty				X
Rynchospora inundata	Horned beakrush				X
Sagittaria latifolia	Duck potato				X
Smilax sp.	Catbriar			X	
Taxodium ascendens	Cypress	X			
Triadeum virginicum	Marsh St. John's wort				X
Utricularia floridana	Bladderwort				X
Vaccinium corymbosum	High bush blue berry		X		
Xyris sp.	Yellow-eyed grass				X

Qualitative Field Assessment Form

Date: 10/16/2006 **Time:** 12:15 pm **Data Collector:** David Clayton

Location: Pedestrian Transect # M8

Management Unit: 1 and parts of two…moved point into dry pond and adjacent wetland

Nuisance Species: None

Fuel Load: Low

Wildlife Observations: ~~Cardinal, white ibis, phoebe, towhee, red bellied wood pecker, deer and raccoon tracks~~ titmouse wood duck pied billgrebe

T& E Species: ~~One-toed amphiuma…listed by FNAI but not the state or feds~~

Community Description: Swamp dominated by pond cypress with a fringe of black gum…little water present due to drought. Trees healthy, numerous cypress seedlings. Some herbaceous plants have died from lack of water. Most species appear healthy

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Bidens mitis	Bur marsh marigold				X
Brasenia schreberi	Water shield				X
Campsis radicans	Trumpet vine			X	
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Cliftonia monophylla	Black ti ti		X		
Cyrilla racemiflora	Red ti ti		X		
Dicanthelium spp.	Panic grass				X
Eleocharis sp.	Eleocharis				X
Erianthus giganteus	Giant plume grass				X
Eupatorium capillifolium	Dog fennel				X
Gelsemium sempervirens	Florida Jasmine			X	
Hypericum spp.	St. John's wort		X		
Ilex myrtifolia	Myrtle leaf holly		X		
Ilex vomitoria	Yaupon		X		
Itea virginica	Virginia willow		X		
Lachnanthese caroliniana	Red root				X
Lachnocaulon anceps	White topped bog buttons				X
Lycopus rubellus	Taper leaf waterhorehound				X
Magnolia virginiana	Silver bay	X			
Myrica cerifera	Wax myrtle		X		
Numphar advena	Spatterdock				X
Nymphaea adorata	Fragrant water lily				X
Nyssa sylvatica	Black gum	X			
Panicum dichotiniflorum	Fall panic grass				X
Panicum hemitomon	Maidencane				X
Persea palustris	Swam bay	X			
Pinus taeda	Loblolly pine	X			
Pontederia cordata	Pickerel weed				X
Rynchospora inundata	Horned beakrush				X
Sagittaria latifolia	Duck potato				X
Smilax sp.	Catbriar			X	
Taxodium ascendens	Cypress	X			
Triadeum virginicum	Marsh St. John's wort				X
Utricularia floridana	Bladderwort				X
Vaccinium corymbosum	High bush blueberry		X		
Woodwardia aerolata	Netted chain fern				X
Xyris sp.	Yellow-eyed grass				X

Erianthus giganteus

Qualitative Field Assessment Form

Date: 10/25/2006 **Time:** 4 pm **Data Collector:** David Clayton
Location: Pedestrian Transect # M9 anole Red root dominates
Management Unit: 1

Nuisance Species: small patch of torpedo grass along shoreline + cypress seedlings
Fuel Load: Low great blue heron

Wildlife Observations: Titmouse, wood duck, white ibis, deer tracks, anole, blue jay.
T&E Species: None blue jay Alligator

Community Description: Green ponds dominated by pond cypress…no water present due to drought, evidence of sublimation and some tree fall due to loss of peat. Most trees healthy, numerous cypress seedlings of 1 to several yeas of age. Some herbaceous plants such as pickerel weed brown from lack of water.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Bidens mitis	Bur marsh marigold				X
Brasenia schreberi	Water shield				X
Carex glaucescens	Clustered Sedge				X
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Cliftonia monoplylla	Black ti ti		X		
Eleocharis inundata	Spikerush				X
Eleocharis sp.	Eleocharis				X
Eupatorium capillifolium	Dog fennel				X
Gelsemium sempervirens	Florida jasmine			X	
Hypericum sp.	St. John's wort		X		
Ilex myrtifolia	Myrtle leaf holly		X		
Itea virginica	Virginia willow		X		
Lachnanthese caroliniana	Red root				X
Lycopodium alopecuroides	Foxtail club-moss				X
Lycopus rubellus	Taper leaf water horehound				X
Magnolia virginiana	Silver bay	X			
Myrica cerifera	Wax myrtle		X		
Namphar advena	Spatterdock				X
Nymphaea odorata	Fragrant water lily				X
Panicum hemitomon	Maidencane				X
Panicum repens	Torpedo grass				X
Persea palustris	Swamp Bay	X			
Pontederia cordata	Pickerel weed				X
Rynchospora inundata	Horned beakrush				X
Rynchospora microcephala	Small headed beakrush				X
Sagittaria latifolia	Duck potato				X
Taxodium ascendens	Cypress	X			
Utricularia floridana	Bladderwort				X
Xyris sp.	Yellow-eyed grass				X

Ilex, Cyrilla
Spangly panicum
Rhexia alifanus
Blue stem

Qualitative Field Assessment Form

Date: 10/282006 **Time:** 11:30 am **Data Collector:** David

Location: Pedestrian Transect # M10 near photo point 8

Management Unit: 1 Due to species composition, analyzed under hydric pine f

Unit 2

Nuisance Species: None

Fuel Load: Moderate

Wildlife Observations: Blue jay, kingfisher, red bellied wood pecker, catbird, re

T& E Species:

Community Description: Overstory dominated by black ti ti, slash pine and red

composed of a wide variety of shrub and herbs…burned last year, good re-grow

Scientific Name	Common Name	Tree	Shrub	Vi
Callicarpa americana	American beautyberry		X	
Clethra alnifolia	Sweet pepperbush		X	
Cliftonia monoplylla	Black ti ti		X	
Cyrilla racemiflora	Red ti ti		X	
Cuscuta gronovii	Scaldweed dodder			X
Gelsemium sempervirens	Florida Jasmine			X
Gordonia lasianthus	Loblolly bay	X		
Hypericum crux-andreae	St. John's wort			
Ilex coriaceae	Big gallberry		X	
Ilex glabra	Gallbberry		X	
Ilex vomitoria	Yaupon		X	
Kalmia hirsuta	Wicki		X	
Leucothoe racemosa	Dog hobble		X	
Lyonia lucida	Fetterbush		X	
Myrica caroliniensis	Evergreen bayberry		X	
Osmunda regalis	Royal fern			
Oxydendrom arboreum	Sourwood	X		
Persea borbonia	Red bay	X		
Pinus elliottii	Slash pine	X		
Quercus hemisphaerica	Diamond oak	X		
Quercus nigra	Water oak	X		
Quercus virginiana	Live oak	X		
Rhododendron viscosum	Swamp honeysuckle		X	
Rubus argutus	Black berry		X	
Serenoa repens	Saw-palmetto		X	
Smilax sp.	Catbriar			X
Taxodium ascendens	Cypress	X		
Toxicodendron vernix	Poison sumac		X	
Vaccinium corymbosum	High bush blueberry		X	
Viburnum rufidulum	Rusty black haw		X	
Vitus rotundifolia	Wild muscadine grape			X
Woodwardia aerolata	Netted chain fern			

Qualitative Field Assessment Form

Date: 10/25/2006 **Time:** 11:30 am **Data Collector:** David Clayton

Location: Pedestrian Transect # M11 near photo point 12

Management Unit: 2

Nuisance Species: None observed

Fuel Load: medium, very hot fire last year, fair amount of deadfall due to fire, many oaks have died or are sprouting, wire grass in flower

Wildlife Observations: ~~Blue jay, squirrel, red bellied woodpecker~~ Robin

T& E Species: Southern Crab Apple (Florida Threatened)

Community Description: Degraded wet flatwoods overgrown by hardwoods grading into a hardwood swamp. Many oaks killed by fire, some reprouting. Remnant sandhill and flatwood species

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Busy blue stem				X
Andropogon gyrans	Giant blue stem				X
Aristida stricta var. beyrichiana	Wiregrass				X
Callicarpa americana	American Beautyberry		X		
Carphephorus paniculatus	Hairy trilisa				X
Cephalanthus occidentalis	Button bush		X		
Clethra alnifolia	Sweet pepper bush				X
Cliftonia monophylla	Black ti ti		X		
Dicanthelium spp.	Panic grass				X
Eupatorium capillifolium	Dog fennel				X
Gaylussacia dumosa	Dwarf huckleberry		X		
Gelsemium sempervirens	Florida Jasmine			X	
Hypericum crux-andreae	St. Peter's wort				X
Ilex coriacea	Large gall berry		X		
Ilex glabra	Gall berry		X		
Ilex vomitoria	Yaupon		X		
Liquidambar styraciflua	Sweet gum	X			
Lyonia lucida	Fetter bush		X		
Magnolia virginiana	Silver bay	X			
Magnolia grandiflora	Southern magnolia	X			
Malus angustifolia	Southern crab apple	X			
Myrica cerifera	Wax myrtle		X		
Myrica caroliniensis	Evergreen bayberry		X		
Persea borbonia	Red Bay	X			
Persea palustris	Swamp Bay	X			
Pinus clausa	Sand Pine	X			
Pinus elliottii	Slash pine	X			
Osmanthus americanus	Wild olive		X		
Osmunda cinnamomea	Cinnamon fern				X
Oxydendrum arboreum	Sourwood	X			
Quercus geminata	Sand Live Oak	X			
Quercus hemisphearica	Diamond oak	X			
Quercus margaretta	Sand post oak	X			
Quercus nigra	Water oak	X			
Quercus virginiana	Live oak	X			
Rubus cuneifolius	Sand blackberry		X		
Scleria sp.	Scleria				X
Sebastiana fruticosa	Sebastain bush		X		
Serenoa repens	Saw Palmetto		X		

Scientific Name	Common Name	Tree	Shrub	Vine	Herbaceous
Smilax sp	Catbriar			X	
Symplocos tinctoria	Horse Sugar		X		
Trichostema setaceum	Blue curls				X
Vaccinium arboreum	Farkle berry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Vitus rotundifolia	Muscadine			X	

Dean relying species
more herbaceous

Qualitative Field Assessment Form

Date: 10/25/2006 **Time:** 10:30 am **Data Collector:** David Clayton
Location: Pedestrian Transect # M12 near photo point 11
Management Unit: 10

Nuisance Species: None observed
Fuel Load: Oak Trees have been thinned, area due to be burned winter 2007/2008, fuel load high

Wildlife Observations: Blue jay, red bellied wood pecker, deer tracks, active gopher tortoise burrow

T& E Species: Active gopher tortoise burrow

Mockingbird cardinal Tufted chickadee Towhee
Will be burned this fall

Community Description: Sand hill that has been overgrown with diamond and live oak. Good wire grass cover remains throughout the majority of the site. All oaks under 8" in diameter have been cut down. Few sand hill understory species remain. Quite a few secondary or weedy species such as persimmon and black cherry

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Busy blue stem				X
Aristida stricta var. beyrichiana	Wiregrass				X
Diospyros virginiana	Persimon	X			
Eupatorium capillifolium	Dog fennel				X
Gelsemium sempervirens	Florida jasmine			X	
Ilex opaca	American holly	X			
Licania michauxii	Gopher apple				X
Opuntia humifusa	Pricklypear cactus				X
Pinus clausa	Sand Pine	X			
Pinus elliottii	Slash pine	X			
Pinus palustris	Longleaf pine	X			
Prunus caroliniana	Cherry laurel	X			
Prunus serotina	Black cherry	X			
Quercus geminata	Sand live oak	X			
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus virginiana	Live oak	X			
Scleria sp.	Scleria				X
Smilax sp.	Catbriar			X	
Trichostema setaceum	Blue curls				X
Vaccinium arboreum	Farkleberry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Vitis rotundifolia	Muscadine			X	
Yucca filamentosa	Adam's needle				X

Bulbostylis
Dichanthelium
Chrysopsis
Eup cap
Chamaecrista
Osmanthus
Post oak
Black titi
Wire
Nidosalis head softy
Polygonum gracilis
Beach oak Fagus
Heterotheca subra
Persea borbonia
Penstemon
Hypericum sp

Qualitative Field Assessment Form

Date: 10/16/2006 **Time:** 1:11 pm **Data Collector:** David Clayton

Location: Pedestrian Transect # M13 near photo point 7, Management Unit 10

Nuisance Species: None

Fuel Load: Oak Trees have been thinned, area due to be burned winter 2007/2008, fuel load high

Wildlife Observations: **Blue jay, gopher tortoise burrow, 6 pt buck**

T& E Species: None observed

Community Description: Sandhill upland upslope of black pond. Sandhill with good diversity and excellent groundcover. Wire grass bloomed this summer…area planted with long leaf pine.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Andropogon glomeratus	Busy blue stem				X
Andropogon gyrans	Elliot's blue stem				X
Aristida stricta var. beyrichiana	Wiregrass				X
Aster waterı	Walter's aster				X
Baptisia lanceolata	Gopher weed				X
Balduina angustifolia	Coastal plain honeycombhead				X
Bulbostylis ciliatifolia	Capillary hair sedge				X
Carphephorus odoratissimus	Vanilla leaf				X
Carphephorus paniculatus	Hairy trilisa				X
Croton argyranthemus	Silver croton				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Cnidoscolus stimulosus	Tread softly				X
Crysopsis scabrella	Goldenaster				X
Dalea pinatta	Summer farewell				X
Dicanthelium spp.	Panic grass				X
Eriogonum tomentosum	Wild Buckwheat				X
Eupatorium capillifolium	Dog fennel				X
Eupatorium mohrii	Eupatorium				X
Galactia volubilis	Milkpea				X
Gaylussacia dumosa	Dwarf huckleberry		X		
Gelsemium sempervirens	Florida Jasmine			X	
Haplopappus divaricatus	Scratch daisy				X
Hieracium gronovii	Hawkweed				X
Hypericum crux-andreae	St. Peter's wort				X
Ilex opaca	American holly	X			
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Liatris pauciflora	Few flowered gayfeather				X
Licania michauxii	Gopher apple				X
Lupinus diffusus	Sky-blue lupine				X
Opuntia humifusa	Pricklypear cactus				X
Panicum dichotomiflorum	Fall panic grass				X
Polygonella gracilis	Wire weed				X
Pinus clausa	Sand Pine	X			
Pinus elliottii	Slash pine	X			
Pinus palustris	Longleaf pine	X			
Pityopsis graminifolia	Golden Aster				X

11/14 [illegible]

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Polygonella gracilis	Wireweed				X
Pteridium aquilinum	Bracken fern				X
Quercus geminata	Sand Live Oak	X			
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus margaretta	Sand post oak	X			
Rhexia mariana	Pale meadow beauty				X
Seymeria cassioides	Senna seymaria				X
Serenoa repens	Saw Palmetto		X		
Smilax sp	Catbriar			X	
Stylisma patens	Coastal plain dawnflower				X
Vaccinium arboreum	Sparkle berry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Yucca filamentosa	Adam's needle				X

Rhus copalina
grape vine
Soladago sempervirens

Runner oak

Blue curls

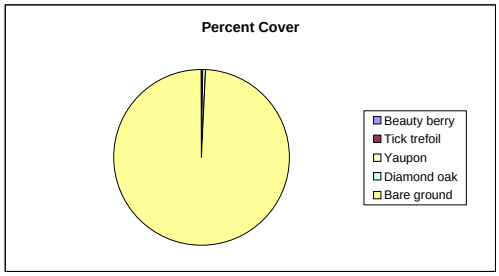
Big panic grass

SHLMB Transect analysis

Date: 11/7/2007
Name of data collector: David Clayton
Transect 1
Polygon: 11
Overstory: None (Sand pine harvested)
Canopy Closure approximately 0%

Range:

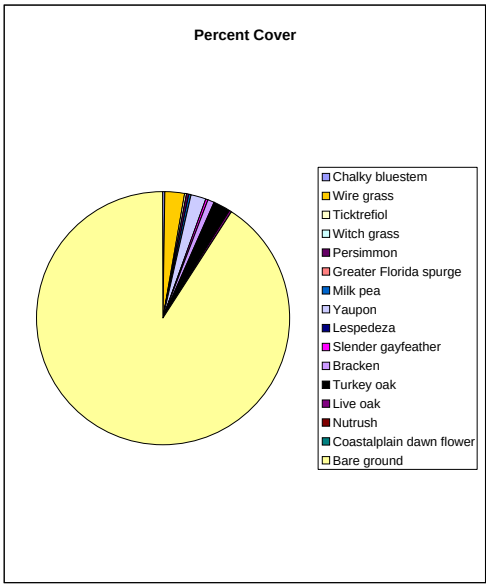
Scientific Name	Common Name	% Cover
Calicarpa americana	Beauty berry	0.1
Desmodium sp.	Tick trefoil	0.1
Ilex vomitoria	Yaupon	0.01
Quercus hemisphaerica	Diamond oak	0.5
	Bare ground	99.3



Quad #	Species	% Species Cover	Quad #	Species	% Species Cover		
1	Bare ground	97	1	Bare ground	97		
	Vacc arb	3		Bare ground	100		
2	Bare ground	100	2	Bare ground	100		
3	Bare ground	100	3	Bare ground	96		
4	Call amer	4	4	Bare ground	100		
	Bare ground	96		Bare ground	100		
5	Bare ground	100	5	Bare ground	100		
6	Bare ground	100	6	Bare ground	100		
7	Bare ground	100	7	Bare ground	100		
8	Bare ground	100	8	Bare ground	100		
9	Bare ground	100	9	Bare ground	100		
10	Bare ground	100	10	Bare ground	100		
11	Bare ground	100	11	Bare ground	100		
12	Bare ground	100	12	Bare ground	100		
13	Bare ground	100	13	Bare ground	100		
14	Bare ground	100	14	Bare ground	96		
15	Bare ground	100	15	Bare ground	100		
16	Querc hemis	4	16	Bare ground	100		
	Bare ground	96		Bare ground	100		
17	Bare ground	100	17	Bare ground	100		
18	Bare ground	100	18	Bare ground	100		
19	Bare ground	100	19	Bare ground	96		
20	Bare ground	100	20	Bare ground	99		
21	Bare ground	100	21	Bare ground	100		
22	Desmod sp	3	22	Bare ground	100		
	Querc hemis	1		Bare ground	99		
	Bare ground	96		Bare ground	100		
23	Ilex vom	1	23	Bare ground	100		
	Bare ground	99		Bare ground	99		
24	Bare ground	100	24	Bare ground	100	2982	0.994
25	Bare ground	100	25	Call amer	4		0.001333
26	Querc hemis	1	26	Desmod sp	3		0.001
	Bare ground	99		Ilex vom	1		0.000333
27	Bare ground	100	27	Querc hemis	4		
28	Bare ground	100	28	Querc hemis	1		
29	Querc hemis	1	29	Querc hemis	1		
	Bare ground	99		Querc hemis	1		0.002333
30	Bare ground	100	30	Vacc arb	3		0.001
		3000					
							0.17
							1.17

Date: 11/7/2007
Name of data collector: David Clayton
Transect 2
Polygon: 11
Overstory: None (Sand pine harvested)
Canopy Closure:0 %

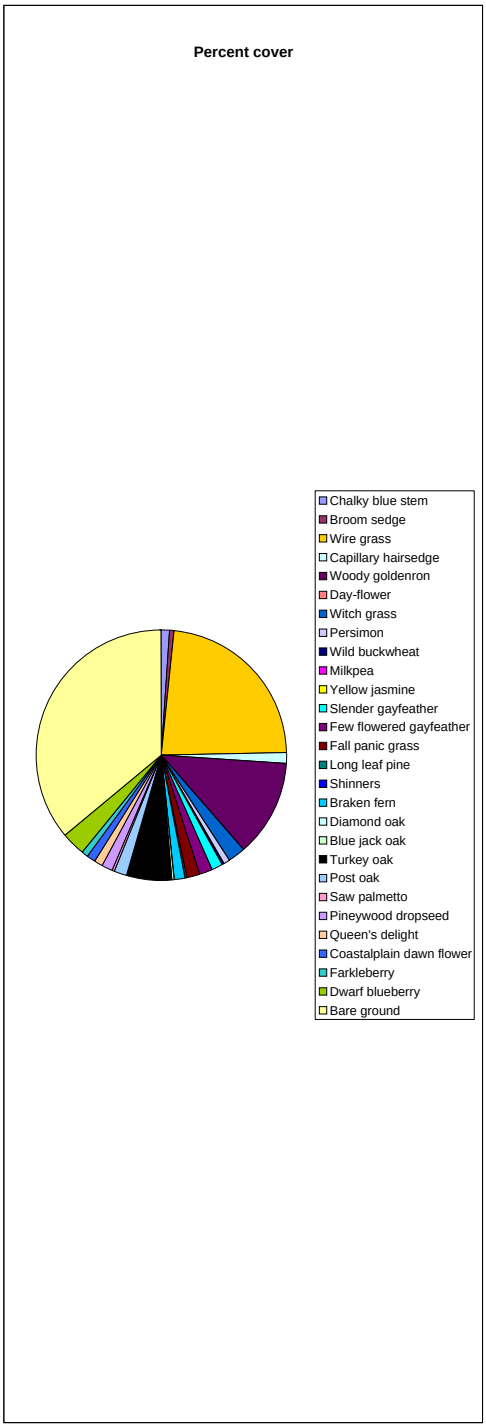
Scientific Name	Common Name	% Cover	Quad #	Species	Cover	Species	Cover	
Andropogon virginicus L. var. glaucus	Chalky bluestem	0.2	1	aris bery	10	And vir	3	
Aristida beyrichiana	Wire grass	2.6		bar grnd	90	And vir	5	0.0027
Desmodium sp.	Ticktrefiol	0.19	2	Quer lae	35	aris bery	10	
Dichanthelium sp.	Witch grass	0.2		Styl pat	5	aris bery	3	
Diospyros virginiana	Persimmon	0.2		bar grnd	60	aris bery	2	
Euphorbia floridana	Greater Florida spurge	0.01	3	gala sp	7	aris bery	2	
Galactia sp.	Milk pea	0.2		bar grnd	93	aris bery	15	
Ilex vomitoria	Yaupon	2	4	aris bery	3	aris bery	15	
Lespedeza sp.	Lespedeza	0.06		bar grnd	97	aris bery	10	
Liatris gracilis	Slender gayfeather	0.07	5	Lia gra	2	aris bery	20	0.0257
Pteridium aquilinum	Bracken	1		Quer lae	30	bar grnd	90	
Quercus laevis	Turkey oak	2.2		bar grnd	68	bar grnd	60	
Quercus virginiana	Live oak	0.1	6	Ilex vom	60	bar grnd	93	
Scerlia sp.	Nutrush	0.07		Pter aqu	10	bar grnd	97	
Stylisma patens	Coastalplain dawn flower	0.2		bar grnd	30	bar grnd	68	
	Bare ground	90.7	7	Quer lae	3	bar grnd	30	
				Pter aqu	17	bar grnd	80	
				bar grnd	80	bar grnd	100	



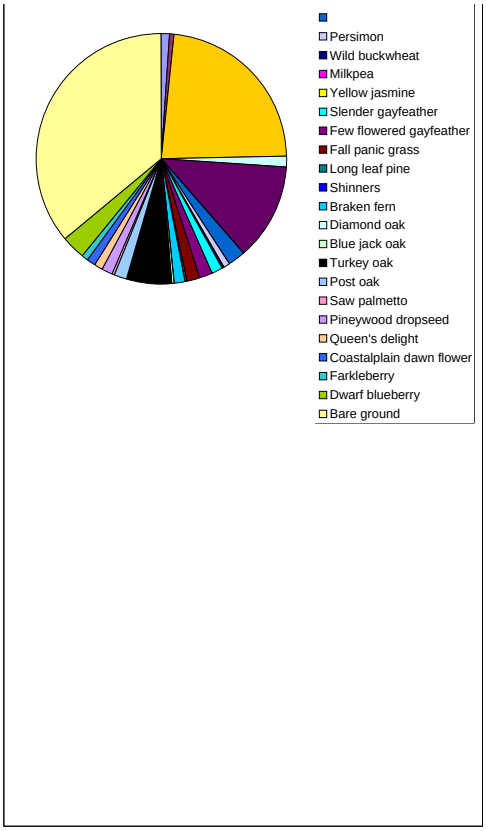
		100				
8	bar grnd	100	bar grnd	96		
9	aris bery	2	bar grnd	100		
	Euph flo	2	bar grnd	100		
	bar grnd	96	bar grnd	96		
10	bar grnd	100	bar grnd	100		
11	bar grnd	100	bar grnd	95		
12	Les sp	2	bar grnd	100		
	aris bery	2	bar grnd	100		
	bar grnd	96	bar grnd	100		
13	bar grnd	100	bar grnd	100		
14	dio vir	5	bar grnd	100		
	bar grnd	95	bar grnd	100		
15	bar grnd	100	bar grnd	100		
16	bar grnd	100	bar grnd	85		
17	bar grnd	100	bar grnd	100		
18	bar grnd	100	bar grnd	85		
19	bar grnd	100	bar grnd	98		
20	bar grnd	100	bar grnd	97		
21	bar grnd	100	bar grnd	100		
22	aris bery	15	bar grnd	88		
	bar grnd	85	bar grnd	67		
23	bar grnd	100	bar grnd	97	0.9073	
24	aris bery	15	des sp	3	0.001	
	bar grnd	85	dichan sp	5	0.0017	
25	dio vir	2	dio vir	5		
	bar grnd	98	dio vir	2	0.0023	
26	And vir	3	Euph flo	2	0.0007	
	bar grnd	97	gala sp	7	0.0023	
27	bar grnd	100	Ilex vom	60	0.02	
28	aris bery	10	Les sp	2	0.0007	
	scl sp	2	Lia gra	2	0.0007	
	bar grnd	88	Pter aqu	10		
29	And vir	5	Pter aqu	17	0.009	
	aris bery	20	Quer lae	35		
	dichan sp	5	Quer lae	30		
	des sp	3	Quer lae	3	0.0227	
	bar grnd	67	quer vir	3	0.001	
30	quer vir	3	scl sp	2	0.0007	
	bar grnd	97	Styl pat	5	0.0017	
		3000				

Date: 11/7/2007
Name of data collector: David Clayton
Transect 3
Polygon: 12 Hard winter burn killed may oaks and pines including planted pines
Overstory: Native Sandhill with Oak Removal

Scientific Name	Common Name	% Cover	Quad #	Species	Cover			
Andropogon glomeratus var. glaucus	Chalky blue stem	1.1	1	Aris bery	20	and glau	20	1
Andropogon virginicus	Broom sedge	0.6		Vac arb	3	and glau	20	
Aristida beyrichiana	Wire grass	23		Bar grnd	77	And vir	5	
Bulbostylis ciliatifolia	Capillary hairsedge	1.5	2	Chry pau	10	And vir	3	
Chrysoma pauciflosculosa	Woody goldenron	12.3		And vir	5	And vir	10	1
Commelina erecta	Day-flower	0.04		Aris bery	5	Aris bery	20	
Dichanthelium sp.	Witch grass	2.4		Vac myr	15	Aris bery	5	
Diospyros virginiana	Persimon	0.6		Quer lae	60	Aris bery	20	
Eriogonium tomentosum	Wild buckwheat	0.3		Bar grnd	5	Aris bery	10	
Galactia sp.	Milkpea	0.1	3	Aris bery	20	Aris bery	50	
Gelsemium sempervirens	Yellow jasmine	0.1		Vac arb	5	Aris bery	30	
Liatris gracilis	Slender gayfeather	1.4		Stil syl	15	Aris bery	50	
Liatris pauciflora	Few flowered gayfeather	1.5		Bar grnd	60	Aris bery	15	
Panicum dichotomiflorum	Fall panic grass	1.8	4	Chry pau	50	Aris bery	10	
Pinus paulstris	Long leaf pine	0.2		Quer lae	20	Aris bery	30	
Pityopsis graminifolia	Shinners	0.1		Aris bery	10	Aris bery	15	
Pteridium aquilinum	Braken fern	1.2		Bar grnd	20	Aris bery	45	
Quercus hemisphaerica	Diamond oak	0.04	5	Aris bery	50	Aris bery	20	
Quercus inopina	Blue jack oak	0.3		Vac arb	10	Aris bery	25	
Quercus laevis	Turkey oak	6		Lia grac	5	Aris bery	25	
Quercus margaretta	Post oak	1.6		styli pat	10	Aris bery	50	
Serenoa repens	Saw palmetto	0.12		dichan sp	10	Aris bery	20	
Sporobolus junceus	Pineywood dropseed	1.6		Bar grnd	15	Aris bery	25	
Stillingia sylvatica	Queen's delight	1	6	Quer lae	25	Aris bery	30	
Stylisma patens	Coastalplain dawn flower	1		Aris bery	30	Aris bery	10	
Vaccinium arboreum	Farkleberry	1		Bar grnd	45	Aris bery	35	#
Vaccinium myrsinities	Dwarf blueberry	3	7	Aris bery	50	Aris bery	25	
	Bare ground	36.1		*Bar grnd*	50	Aris bery	35	#
			8	dichan sp	5	Aris bery	20	
				Eri tomen	5	Aris bery	35	#
		100		Lia grac	10	Aris bery	35	
				Aris bery	15	Bar grnd	77	
				bulb cil	50	Bar grnd	5	
				Bar grnd	15	Bar grnd	60	
			9	Pity gram	3	Bar grnd	20	
				Vac arb	2	Bar grnd	15	
				And vir	3	Bar grnd	45	
				styl pat	2	*Bar grnd*	50	
				dichan sp	45	Bar grnd	15	
				Lia grac	10	Bar grnd	25	
				Aris bery	10	Bar grnd	20	
				Bar grnd	25	Bar grnd	10	
			10	Lia pauc	20	Bar grnd	30	
				Eri tomen	5	Bar grnd	30	
				Vac arb	5	Bar grnd	25	
				Quer ino	10	Bar grnd	45	
				Vac myr	10	Bar grnd	95	
				Aris bery	30	Bar grnd	20	
				Bar grnd	20	Bar grnd	40	
			11	Chry pau	70	Bar grnd	65	
				Aris bery	15	Bar grnd	30	
				pin paul	3	Bar grnd	35	
				Lia grac	2	Bar grnd	70	
				Bar grnd	10	Bar grnd	10	
			12	Quer lae	15	Bar grnd	50	
				Aris bery	45	Bar grnd	25	#
				pin paul	3	Bar grnd	50	1087
				Lia grac	5	Bar grnd	45	



	Lia pauc	2	Bar grnd	20	#
	Bar grnd	30	Bar grnd	35	
13	Lia pauc	15	Bar grnd	25	
	Aris bery	20	bulb cil	50	2
	Quer lae	5	Chry pau	10	
	Vac arb	3	Chry pau	50	
	Chry pau	2	Chry pau	70	
	Vac myr	3	Chry pau	2	
	styl pat	2	Chry pau	50	
	and glau	20	Chry pau	2	
	Bar grnd	30	Chry pau	5	
14	Chry pau	50	Chry pau	5	
	Aris bery	25	Chry pau	20	
	Bar grnd	25	Chry pau	80	
15	panic dichot	40	Chry pau	50	#
	gel semp	5	Chry pau	25	#
	Quer lae	3	comm erec	2	0
	Chry pau	2	desm sp	5	
	dios vir	3	desm sp	10	
	dichan sp	2	desm sp	5	1
	Bar grnd	45	dichan sp	10	
16	Gal sp	3	dichan sp	5	
	comm erec	2	dichan sp	45	
	Bar grnd	95	dichan sp	2	
17	Aris bery	25	dichan sp	5	72 2
	Chry pau	5	dichan sp	5	#
	Vac myr	10	dios vir	3	
	quer mar	40	dios vir	10	
	Bar grnd	20	dios vir	5	1
18	Aris bery	50	Eri tomen	5	
	panic dichot	5	Eri tomen	5	0
	quer mar	3	Gal sp	3	0
	Vac arb	2	gel semp	5	0
	Bar grnd	40	Lia grac	5	
19	Aris bery	20	Lia grac	10	
	Chry pau	5	Lia grac	10	
	dichan sp	5	Lia grac	2	
	Vac myr	3	Lia grac	5	
	Quer hem	2	Lia grac	10	1
	Bar grnd	65	Lia pauc	20	



20	pter aqu	20	Lia pauc	2			
	Aris bery	25	Lia pauc	15			
	panic dichot	10	Lia pauc	5			
	Lia pauc	5	Lia pauc	5	47	2	
	Vac arb	5	panic dichot	40			
	Quer lae	5	panic dichot	5			
	Bar grnd	30	panic dichot	10		2	
21	Chry pau	20	pin paul	3			
	Quer lae	10	pin paul	3		0	
	Lia pauc	5	Pity gram	3		0	
	Aris bery	30	pter aqu	20			
	Bar grnd	35	pter aqu	5			
22	And vir	10	pter aqu	10		1	
	dios vir	10	Quer hem	2		0	
	Quer lae	5	Quer ino	10		0	
	pter aqu	5	Quer lae	60			
	Bar grnd	70	Quer lae	20			
23	Aris bery	10	Quer lae	25			
	Chry pau	80	Quer lae	15			
	Bar grnd	10	Quer lae	5			
24	Vac myr	15	Quer lae	3			
	Aris bery	35	Quer lae	5			
	Bar grnd	50	Quer lae	10			
25	Aris bery	25	Quer lae	5			
	and glau	20	Quer lae	10			
	Quer lae	10	Quer lae	25	183	6	
	pter aqu	10	quer mar	40			
	Vac myr	10	quer mar	3			
	Bar grnd	25	quer mar	5		2	
26	Aris bery	35	sern rep	5		0	
	dios vir	5	Stil syl	15			
	Stil syl	10	Stil syl	10			
	Bar grnd	50	Stil syl	10			
27	quer mar	5	styl pat	2			
	desm sp	5	styl pat	2			
	Quer lae	25	styli pat	10		2	
	Bar grnd	45	Vac arb	3			
	Aris bery	20	Vac arb	5			
28	Stil syl	10	Vac arb	10			
	Lia grac	10	Vac arb	2			
	Chry pau	50	Vac arb	5			
	desm sp	10	Vac arb	3			
	Bar grnd	20	Vac arb	2	35	1	
29	sern rep	5	Vac arb	5			
	desm sp	5	Vac myr	15			
	Vac myr	20	Vac myr	10			
	Aris bery	35	Vac myr	3			
	Bar grnd	35	Vac myr	10			
30	Aris bery	35	Vac myr	3			
	Chry pau	25	Vac myr	15			
	Vac myr	10	Vac myr	10		3	
	dichan sp	5	Vac myr	20			
	Bar grnd	25	Vac myr	10		#	

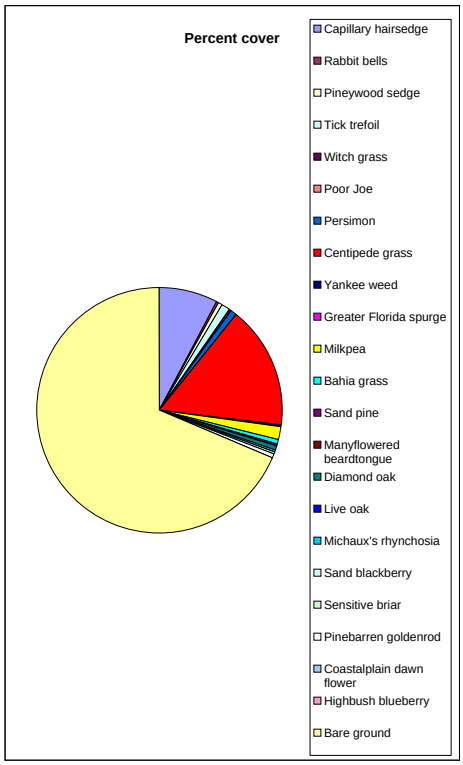
3000

Transect 3 planted pine plot

Planted Long Leaf Pine Seedling	cond
1	grass stage
1	grass stage

Date: 11/7/2007
Name of data collector: David Clayton
Transect 4
Polygon: 11
Overstory: Sand pine stand with pines removed

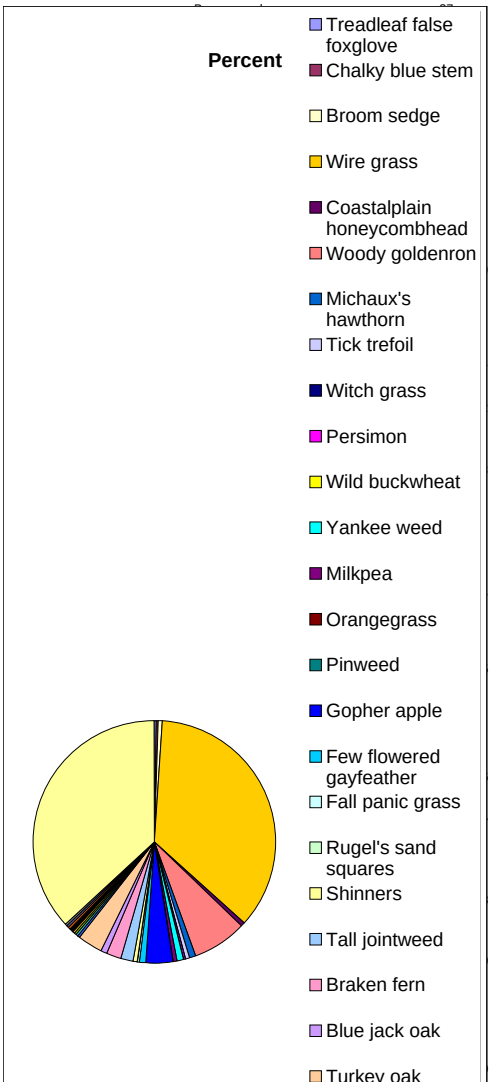
Scientific Name	Common Name	% Cover
Bulbostylis ciliatifolia	Capillary hairsedge	7.8
Crotalaria rotundifolia	Rabbit bells	0.17
Cyperus retrorsus	Pineywood sedge	0.63
Desmodium	Tick trefoil	1.1
Dichanthelium sp.	Witch grass	0.17
Diodia teres	Poor Joe	0.1
Diospyros virginiana	Persimon	0.88
Eremochloa ophiuroides	Centipede grass	16
Eupatorium compositifolium	Yankee weed	0.3
Euphorbia floridana	Greater Florida spurge	0.2
Galactia sp.	Milkpea	1.4
Paspalum notatum	Bahia grass	0.7
Pinus clausa	Sand pine	0.17
Penstemon multiflorus	Manyflowered beardtongue	0.17
Quercus hemisphaerica	Diamond oak	0.4
Quercus virginiana	Live oak	0.06
Rhynchosia michauxii	Michaux's rhynchosia	0.17
Rubus cuneifolius	Sand blackberry	0.23
Schrankia microphylla	Sensitive briar	0.1
Solidago fistulosa	Pinebarren goldenrod	0.5
Stylisma patens	Coastalplain dawn flower	0.18
Vaccinium corymbosum	Highbush blueberry	0.07
	Bare ground	68.5
		100



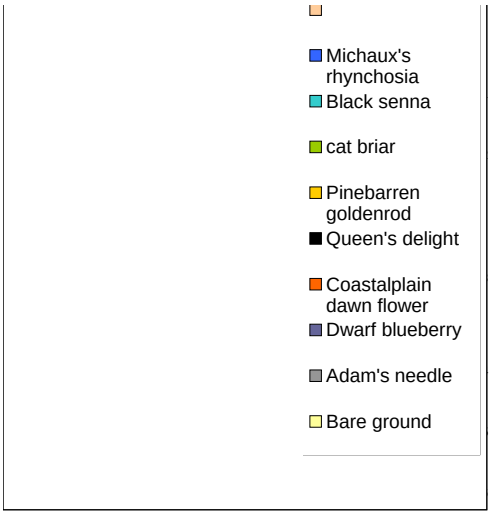
Quad #	Species	Cover				
1	Ere oph	10	bar grnd	90		
	bar grnd	90	bar grnd	40		
2	bul cil	25	bar grnd	10		
	Ere oph	35	bar grnd	20		
	bar grnd	40	bar grnd	20		
3	Eup cap	10	bar grnd	15		
	Dio vir	3	bar grnd	40		
	bul cil	10	bar grnd	55		
	cyp ret	2	bar grnd	30		
	Ere oph	65	bar grnd	30		
	bar grnd	10	bar grnd	50		
4	Cro rot	5	bar grnd	75		
	Dio ter	10	bar grnd	80		
	bul cil	20	bar grnd	55		
	Ere oph	45	bar grnd	98		
	bar grnd	20	bar grnd	100		
5	Ere oph	65	bar grnd	95		
	Pen mult	5	bar grnd	75		
	des sp	5	bar grnd	95		
	bul cil	5	bar grnd	47		
	bar grnd	20	bar grnd	90		
6	gal sp	20	bar grnd	70		
	pin cla	5	bar grnd	95		
	Rhy mic	5	bar grnd	100		
	bar grnd	15	bar grnd	100		
	Ere oph	55	bar grnd	100		
7	Ere oph	5	bar grnd	97		
	gal sp	5	bar grnd	92		
	quer hem	10	bar grnd	97	2053	#
	bul cil	40	bar grnd	92		
	bar grnd	40	bul cil	25		
8	dios vir	5	bul cil	10		
	cyp ret	5	bul cil	20		
	bul cil	25	bul cil	5		
	des sp	5	bul cil	40		
	dich sp	5	bul cil	25		
	bar grnd	55	bul cil	40		
9	pas not	10	bul cil	30	230	
	Ere oph	15	bul cil	15		8
	des sp	5	bul cil	20		
	bul cil	40	Cro rot	5		0
	bar grnd	30	cyp ret	2		
10	rub cun	5	cyp ret	5		
	sol fist	15	cyp ret	5		
	cyp ret	5	cyp ret	5		
	Ere oph	45	cyp ret	2	19	1
	bar grnd	30	des sp	5		
11	pas not	5	des sp	5		
	Ere oph	10	des sp	5		
	cyp ret	5	des sp	3		
	bul cil	30	des sp	3		
	bar grnd	50	des sp	3		
12	rub cun	2	des sp	3		
	dios vir	3	des sp	3		
	cyp ret	2	des sp	3	33	1
	des sp	3	dich sp	5		0
	bul cil	15	Dio ter	10		
	bar grnd	75	Dio vir	3	0.1	
13	Ere oph	15	dios vir	5		
	vac cory	2	dios vir	3		
	des sp	3	dios vir	10		
	bar grnd	80	dios vir	5	26	1
14	styl pat	5	Ere oph	10		
	dios vir	10	Ere oph	35		
	Ere oph	10	Ere oph	65		
	bul cil	20	Ere oph	45		
	bar grnd	55	Ere oph	65		
15	quer vir	2	Ere oph	55		
	bar grnd	98	Ere oph	5		
16	bar grnd	100	Ere oph	15		
17	dios vir	5	Ere oph	45		
	bar grnd	95	Ere oph	10		
18	Ere oph	20	Ere oph	15		
	pas not	5	Ere oph	10		
	bar grnd	75	Ere oph	20		
19	quer hem	3	Ere oph	2		
	Ere oph	2	Ere oph	45		
	bar grnd	95	Ere oph	30		
20	Ere oph	45	Ere oph	2		
	gal sp	5	Ere oph	5	479	#
	shr am	3	Eup cap	10	0.3333	
	bar grnd	47	euph flor	3		
21	des sp	3	euph flor	3	0.2	
	gal sp	7	gal sp	20		
	bar grnd	90	gal sp	5		
22	Ere oph	30	gal sp	5		
	bar grnd	70	gal sp	7		
23	des sp	3	gal sp	5	42	1
	Ere oph	2	pas not	10		
	bar grnd	95	pas not	5		
24	bar grnd	100	pas not	5	0.6667	
25	bar grnd	100	Pen mult	5	0.1667	
26	bar grnd	100	pin cla	5	0.16	
27	euph flor	3	quer hem	10		
	bar grnd	97	quer hem	3	0.4333	
28	euph flor	3	quer vir	2	0.0667	
	gal sp	5	Rhy mic	5	0.1667	
	bar grnd	92	rub cun	5		
29	des sp	3	rub cun	2	0.2333	
	bar grnd	97	shr am	3	0.1	
30	des sp	3	sol fist	15	0.5	
	Ere oph	5	styl pat	5	0.1667	
	bar grnd	92	vac cory	2	0.0667	

Date: 11/6/2007
Name of data collector: David Clayton
Transect 5
Polygon: 12
Overstory: Sandhill with oaks cut…pines to be planted this winter

Scientific Name	Common Name	% Cover	Quad #
Agalinis setacea	Treadleaf false foxglove	0.3	1
Andropogon glomeratus var. glaucus	Chalky blue stem	0.3	
Andropogon virginicus	Broom sedge	0.5	2
Aristida beyrichiana	Wire grass	35.6	
Balduina angustifolia	Coastalplain honeycombhead	0.6	
Chrysoma pauciflosculosa	Woody goldenron	7.22	3
Crataegus michauxii	Michaux's hawthorn	0.8	
Desmodium sp.	Tick trefoil	0.5	
Dichanthelium sp.	Witch grass	0.1	4
Diospyros virginiana	Persimon	0.2	
Eriogonium tomentosum	Wild buckwheat	0.1	
Eupatorium compositifolium	Yankee weed	0.6	
Galactia sp.	Milkpea	0.6	
Hypericum gentianoides	Orangegrass	0.03	
Lechea minor	Pinweed	0.03	5
Licania michauxii	Gopher apple	3.5	
Liatris pauciflora	Few flowered gayfeather	0.9	
Panicum dichotomiflorum	Fall panic grass	0.3	
Paronychia rugelii	Rugel's sand squares	0.03	
Pityopsis graminifolia	Shinners	0.5	
Polygonella gracilis	Tall jointweed	1.8	6
Pteridium aquilinum	Braken fern	2	
Quercus inopina	Blue jack oak	0.6	
Quercus laevis	Turkey oak	3.5	
Rhynchosia michauxii	Michaux's rhynchosia	0.1	
Seymeria cassioides	Black senna	0.3	
Smilax sp.	cat briar	0.4	
Solidago fistulosa	Pinebarren goldenrod	0.3	
Stillingia sylvatica	Queen's delight	0.6	
Stylisma patens	Coastalplain dawn flower	0.06	
Vaccinium myrsinities	Dwarf blueberry	0.3	
Yucca filamentosa	Adam's needle	0.33	7



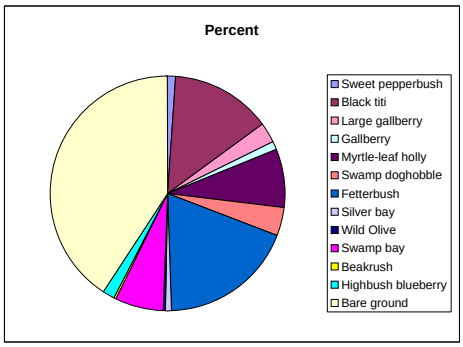
Species	Cover		
ari ber	30	agal set	10 0.3333
bar grnd	70	and glo	5
cry pau	15	and glo	2
ari ber	30	and glo	3 0.33
bar grnd	55	and vir	10
cry pau	40	and vir	5 0.5
ari ber	30	ari ber	30
bar grnd	30	ari ber	30
ari ber	20	ari ber	30
and glo	5	ari ber	20
pter aq	5	ari ber	25
lic mic	10	ari ber	15
sti syl	10	ari ber	50
bar grnd	50	ari ber	60
quer lae	20	ari ber	43
dios vir	10	ari ber	30
ari ber	25	ari ber	35
lic mic	5	ari ber	55
cry pau	5	ari ber	55
bar grnd	35	ari ber	40
bald ang	20	ari ber	65
ari ber	15	ari ber	25
lia gra	5	ari ber	35
pter aq	3	ari ber	35
quer lae	5	ari ber	30
pol gra	15	ari ber	25
cry pau	10	ari ber	20
lic mic	5	ari ber	15
dios vir	3	ari ber	10
smi sp	2	ari ber	45
bar grnd	17	ari ber	60
styl pat	2	ari ber	30
sol fist	5	ari ber	45
dich sp	3	ari ber	50 1068
pter aq	2	ari ber	60 35.6
ari ber	50	bald ang	20 0.6667
bar grnd	38	bar grnd	70
pol gra	5	bar grnd	55
Eup cap	10	bar grnd	30
pter aq	10	bar grnd	50
ari ber	60	bar grnd	35
bar grnd	15	bar grnd	17
cry pau	10	bar grnd	38
pol gra	5	bar grnd	15
ari ber	43	bar grnd	25
quer ino	10	bar grnd	30
smi sp	5	bar grnd	55
and glo	2	bar grnd	30
bar grnd	25	bar grnd	42
cry pau	25	bar grnd	15
pter aq	5	bar grnd	45
lic mic	5	bar grnd	40
ari ber	30	bar grnd	57
pol gra	5	bar grnd	32
bar grnd	30	bar grnd	22
lic mic	10	bar grnd	20
ari ber	35	bar grnd	35
bar grnd	55	bar grnd	70
ari ber	55	bar grnd	75
desm sp	10	bar grnd	45
cry pau	5	bar grnd	40
bar grnd	30	bar grnd	40
erio tomen	5	bar grnd	40
lec min	2	bar grnd	20 1113
dios vir	3	bar grnd	25 37.1
pol gra	5	cra mich	25 0.8333
sem cass	10	cry pau	15
quer ino	10	cry pau	40
ari ber	55	cry pau	5
agal set	10	cry pau	10
Pan dic	5	cry pau	10
lia gra	3	cry pau	25
cry pau	10	cry pau	5
ari ber	40	cry pau	10
bar grnd	42	cry pau	5
que ino	2	cry pau	23
Pan dic	3	cry pau	15
pol gra	5	cry pau	5 228
cry pau	5	cry pau	45 7.6
pter aq	5	cry pau	15
ari ber	65	desm sp	10
bar grnd	15	desm sp	5 0.5
que lae	30	dich sp	3 0.1
ari ber	25	dios vir	10
bar grnd	45	dios vir	3
ari ber	35	dios vir	3 0.2
pter aq	10	erio tomen	5 0.1667
smi sp	5	Eup cap	10 0.3333
quer lae	10	gal sp	5
bar grnd	40	gal sp	5 0.33
pity gram	15	hyp gen	2 0.06
cry pau	23	lec min	2 0.0667
pter aq	5	lia gra	5
bar grnd	57	lia gra	3
yuc fil	5	lia gra	15
sol fist	5	lia gra	5 0.9333
pol gra	5	lic mic	10
cry pau	15	lic mic	5
ari ber	35	lic mic	5
ryn mi	3	lic mic	5
bar grnd	32	lic mic	10
cra mich	25	lic mic	5



	lia gra	15	lic mic	20	3.5
	and glo	3	lic mic	15	
	ari ber	30	lic mic	30	105
	cry pau	5	Pan dic	5	
	bar grnd	22	Pan dic	3	0.2667
	quer lae	10	par ru	5	0.33
	cry pau	45	pity gram	15	0.5
	ari ber	25	pol gra	15	
	bar grnd	20	pol gra	5	
	pter aq	5	pol gra	5	
	ari ber	20	pol gra	5	
	cry pau	15	pol gra	5	
	gal sp	5	pol gra	5	
	pol gra	5	pol gra	5	1.7667
	sti syl	10	pol gra	5	
	lia gra	5	pol gra	3	53
	bar grnd	35	pter aq	5	
	par ru	5	pter aq	3	
	pol gra	3	pter aq	2	
	hyp gen	2	pter aq	10	
	gal sp	5	pter aq	5	
	ari ber	15	pter aq	5	
	bar grnd	70	pter aq	10	
	ari ber	10	pter aq	5	
	lic mic	5	pter aq	5	
	and vir	10	pter aq	5	60
	bar grnd	75	pter aq	5	2
	pter aq	5	que ino	2	0.0667
	ari ber	45	que lae	30	1
	vac myr	5	quer ino	10	
	bar grnd	45	quer ino	10	
	ari ber	60	quer lae	20	
	bar grnd	40	quer lae	5	
27	lic mic	20	quer lae	10	
	ari ber	30	quer lae	10	105
	and vir	5	quer lae	10	3.5
	pter aq	5	ryn mi	3	0.1
	bar grnd	40	sem cass	10	0.3333
28	ari ber	45	smi sp	2	
	lic mic	15	smi sp	5	
	bar grnd	40	smi sp	5	0.4
29	ari ber	50	sol fist	5	
	lic mic	30	sol fist	5	0.33
	bar grnd	20	sti syl	10	
30	ari ber	60	sti syl	10	0.6667
	quer lae	10	styl pat	2	0.0667
	desm sp	5	vac myr	5	
	bar grnd	25	yuc fil	5	
		3000			

Date: 11/6/2007
Name of data collector: David Clayton
Transect 6
Polygon: 2
Overstory: gryrotracked shrub (black titi area)

Scientific Name	Common Name	% Cover
Clethra alnifolia	Sweet pepperbush	1
Cliftonia monophylla	Black titi	14
Ilex coriaceae	Large gallberry	2.8
Ilex glabra	Gallberry	1.2
Ilex myrtifolia	Myrtle-leaf holly	8
Leucothoe racemosa	Swamp doghobble	3.7
Lyonia lucida	Fetterbush	18.7
Magnolia virginiana	Silver bay	1
Osmanthus americanus	Wild Olive	0.16
Persea palustris	Swamp bay	6.7
Rhynchospora sp.	Beakrush	0.3
Vaccinium corymbosum	Highbush blueberry	1.64
	Bare ground	40.8
		100

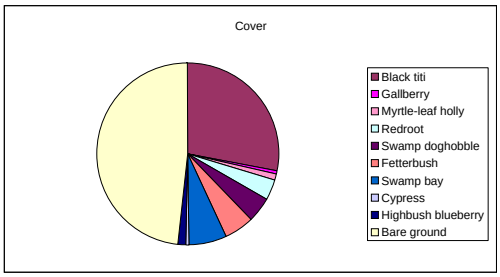


Quad #	Species	Cover				
1	cle aln	10	bar grnd	40		
	Lyo luc	25	bar grnd	60		
	Leu rac	5	bar grnd	45		
	cli mon	20	bar grnd	40		
	bar grnd	40	bar grnd	50		
2	Ilex cor	25	bar grnd	40		
	cle aln	10	bar grnd	15		
	Leu rac	5	bar grnd	15		
	bar grnd	60	bar grnd	10		
3	Pers pal	5	bar grnd	20		
	Ilex cor	30	bar grnd	20		
	Lyo luc	10	bar grnd	50		
	Leu rac	5	bar grnd	80		
	cle aln	5	bar grnd	85		
	bar grnd	45	bar grnd	45		
4	Pers pal	10	bar grnd	30		
	Ilex gla	25	bar grnd	45		
	Ilex cor	25	bar grnd	35		
	bar grnd	40	bar grnd	10		
5	cli mon	25	bar grnd	50		
	cle aln	5	bar grnd	20		
	Lyo luc	10	bar grnd	40		
	Leu rac	5	bar grnd	50		
	Pers pal	5	bar grnd	55		
	bar grnd	50	bar grnd	30		
6	Pers pal	15	bar grnd	40		
	vac cor	10	bar grnd	45		
	Leu rac	5	bar grnd	45	1225	#
	cli mon	10	bar grnd	55		
	Lyo luc	10	bar grnd	60		
	Ilex gla	10	cle aln	10		
	bar grnd	40	cle aln	10		
7	mag vir	30	cle aln	5	30	1
	cli mon	25	cle aln	5		
	Pers pal	20	cli mon	20		
	Lyo luc	10	cli mon	25		
	bar grnd	15	cli mon	10		
8	cli mon	30	cli mon	25		
	Pers pal	25	cli mon	30		
	Lyo luc	20	cli mon	5		
	Leu rac	10	cli mon	25		
	bar grnd	15	cli mon	15		
9	Lyo luc	55	cli mon	5		
	Leu rac	15	cli mon	25		
	Pers pal	20	cli mon	5		
	bar grnd	10	cli mon	55		
10	Ilex myrt	10	cli mon	30		
	vac cor	30	cli mon	20		
	Lyo luc	20	cli mon	15		
	cli mon	5	cli mon	5		
	Leu rac	15	cli mon	30		
	bar grnd	20	cli mon	5		
11	Osman amer	5	cli mon	25		

	cli mon	25	cli mon	10	
	Lyo luc	50	cli mon	10	
	bar grnd	20	cli mon	10	
12	Ilex myrt	5	cli mon	10	420
	Lyo luc	30	cli mon	5	14
	cli mon	15	Ilex cor	25	
	bar grnd	50	Ilex cor	30	
13	Rhy sp	5	Ilex cor	25	2.8333
	Lyo luc	10	Ilex gla	25	
	Pers pal	5	Ilex gla	10	1.1667
	bar grnd	80	Ilex myrt	10	
14	Leu rac	5	Ilex myrt	5	
	cli mon	5	Ilex myrt	55	
	vac cor	5	Ilex myrt	12	
	bar grnd	85	Ilex myrt	25	
15	cli mon	25	Ilex myrt	15	
	Leu rac	10	Ilex myrt	10	
	Lyo luc	20	Ilex myrt	10	
	bar grnd	45	Ilex myrt	15	
16	cli mon	5	Ilex myrt	30	
	Lyo luc	65	Ilex myrt	25	242
	bar grnd	30	Ilex myrt	30	8.0667
17	cli mon	55	Leu rac	5	
	bar grnd	45	Leu rac	5	
18	cli mon	30	Leu rac	5	
	Lyo luc	20	Leu rac	5	
	Pers pal	15	Leu rac	5	
	bar grnd	35	Leu rac	10	
19	Ilex myrt	55	Leu rac	15	
	cli mon	20	Leu rac	15	
	Pers pal	5	Leu rac	5	
	Lyo luc	10	Leu rac	10	
	bar grnd	10	Leu rac	10	
20	vac cor	3	Leu rac	15	110
	Lyo luc	20	Leu rac	5	3.6667
	Ilex myrt	12	Lyo luc	25	
	cli mon	15	Lyo luc	10	
	bar grnd	50	Lyo luc	10	
21	cli mon	5	Lyo luc	10	
	Ilex myrt	25	Lyo luc	10	
	Pers pal	25	Lyo luc	20	
	Lyo luc	25	Lyo luc	55	
	bar grnd	20	Lyo luc	20	
22	Lyo luc	45	Lyo luc	50	
	Ilex myrt	15	Lyo luc	30	
	bar grnd	40	Lyo luc	10	
23	cli mon	30	Lyo luc	20	
	Leu rac	10	Lyo luc	65	
	Ilex myrt	10	Lyo luc	20	
	bar grnd	50	Lyo luc	10	
24	vac cor	5	Lyo luc	20	
	Ilex myrt	10	Lyo luc	25	
	cli mon	5	Lyo luc	45	
	Pers pal	5	Lyo luc	20	
	Lyo luc	20	Lyo luc	25	
	bar grnd	55	Lyo luc	15	
25	cli mon	25	Lyo luc	15	
	Lyo luc	25	Lyo luc	15	560
	Ilex myrt	15	Lyo luc	15	18.667
	Pers pal	5	mag vir	30	1
	bar grnd	30	Osman amer	5	0.1667
26	Pers pal	5	Pers pal	5	
	cli mon	10	Pers pal	10	
	Lyo luc	15	Pers pal	5	
	bar grnd	40	Pers pal	15	
	Ilex myrt	30	Pers pal	20	
27	Leu rac	15	Pers pal	25	
	cli mon	10	Pers pal	20	
	Lyo luc	15	Pers pal	5	
	Pers pal	15	Pers pal	15	
	bar grnd	45	Pers pal	5	
28	Ilex myrt	25	Pers pal	25	
	cli mon	10	Pers pal	5	
	Lyo luc	15	Pers pal	5	
	Leu rac	5	Pers pal	5	
	bar grnd	45	Pers pal	15	200
29	Pers pal	20	Pers pal	20	6.6667
	cli mon	10	Rhy sp	5	
	Lyo luc	15	Rhy sp	5	0.3333
	bar grnd	55	vac cor	10	
30	Ilex myrt	30	vac cor	30	
	cli mon	5	vac cor	5	
	Rhy sp	5	vac cor	3	53
	bar grnd	60	vac cor	5	1.64

Date: 11/6/2007
Name of data collector: David Clayton
Transect 7
Polygon: 2
Overstory: gryrotracked shrub (black titi area)

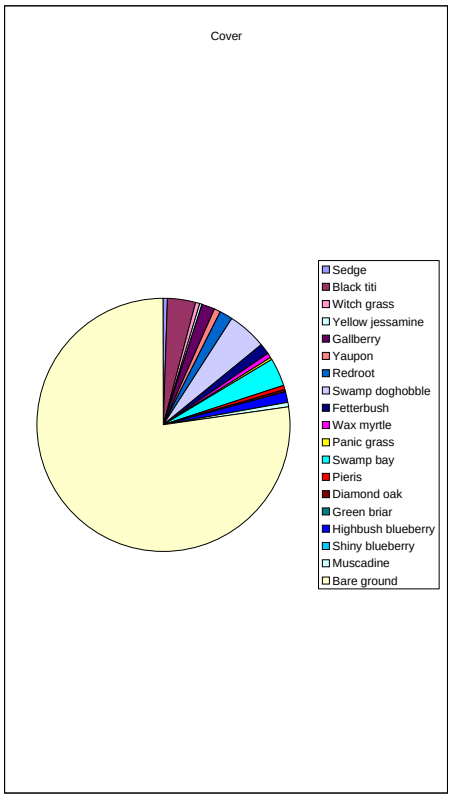
Scientific Name	Common Name	% Cover
Cliftonia monophylla	Black titi	28.1
Ilex glabra	Gallberry	0.5
Ilex myrtifolia	Myrtle-leaf holly	1
Lachnanthes caroliana	Redroot	3.7
Leucothoe racemosa	Swamp doghobble	4.6
Lyonia lucida	Fetterbush	5.1
Persea palustris	Swamp bay	6.7
Taxodium ascendens	Cypress	0.5
Vaccinium corymbosum	Highbush blueberry	1.6
	Bare ground	48.2



Quad #	Species	Cover			
1	Ilex myrt	5	Bar grnd	40	
	leu rac	5	Bar grnd	40	
	cli mon	50	Bar grnd	45	
	Bar grnd	40	Bar grnd	50	
2	lach car	15	Bar grnd	50	
	cli mon	35	Bar grnd	70	
	vac cor	10	Bar grnd	25	
	Bar grnd	40	Bar grnd	60	
3	cli mon	50	Bar grnd	75	
	Ilex myrt	5	Bar grnd	60	
	Bar grnd	45	Bar grnd	50	
4	Tax asc	15	Bar grnd	40	
	cli mon	30	Bar grnd	38	
	Ilex myrt	5	Bar grnd	48	
	Bar grnd	50	Bar grnd	70	
5	cli mon	45	Bar grnd	55	
	Ilex myrt	5	Bar grnd	35	
	Bar grnd	50	Bar grnd	15	
6	cli mon	30	Bar grnd	50	
	Bar grnd	70	Bar grnd	65	
7	lach car	25	Bar grnd	65	
	leu rac	15	Bar grnd	65	
	cli mon	35	Bar grnd	60	
	Bar grnd	25	Bar grnd	75	
8	lach car	30	Bar grnd	50	
	cli mon	10	Bar grnd	10	
	Bar grnd	60	Bar grnd	20	
9	Ilex gla	15	Bar grnd	20	
	leu rac	5	Bar grnd	10	1446
	cli mon	5	Bar grnd	90	48.2
	Bar grnd	75	cli mon	50	
10	leu rac	10	cli mon	35	
	cli mon	30	cli mon	50	
	Bar grnd	60	cli mon	30	
11	leu rac	20	cli mon	45	
	cli mon	30	cli mon	30	
	Bar grnd	50	cli mon	35	
12	cli mon	60	cli mon	10	
	Bar grnd	40	cli mon	5	
13	cli mon	60	cli mon	30	
	leu rac	2	cli mon	30	
	Bar grnd	38	cli mon	60	
14	cli mon	50	cli mon	60	
	leu rac	2	cli mon	50	
	Bar grnd	48	cli mon	20	
15	Lyon luc	5	cli mon	10	
	lach car	5	cli mon	50	
	cli mon	20	cli mon	65	
	Bar grnd	70	cli mon	20	
16	lach car	30	cli mon	10	
	cli mon	10	cli mon	10	
	leu rac	5	cli mon	5	
	Bar grnd	55	cli mon	20	
17	lach car	5	cli mon	50	
	Ilex myrt	5	cli mon	60	845
	per pal	2	cli mon	5	28.167
	Lyon luc	3	Ilex gla	15	0.5
	cli mon	50	Ilex myrt	5	
	Bar grnd	35	Ilex myrt	5	
18	leu rac	10	Ilex myrt	5	
	per pal	10	Ilex myrt	5	
	cli mon	65	Ilex myrt	5	30
	Bar grnd	15	Ilex myrt	5	1
19	leu rac	30	lach car	15	
	cli mon	20	lach car	25	
	Bar grnd	50	lach car	30	
20	Lyon luc	25	lach car	5	
	cli mon	10	lach car	30	110
	Bar grnd	65	lach car	5	3.6667
21	leu rac	25	leu rac	5	
	cli mon	10	leu rac	15	
	Bar grnd	65	leu rac	5	
22	Lyon luc	25	leu rac	10	
	cli mon	5	leu rac	20	
	Ilex myrt	5	leu rac	2	
	Bar grnd	65	leu rac	2	
23	per pal	10	leu rac	5	
	Lyon luc	10	leu rac	10	
	cli mon	20	leu rac	30	
	Bar grnd	60	leu rac	25	139
24	leu rac	10	leu rac	10	4.6333
	Lyon luc	15	Lyon luc	5	
	Bar grnd	75	Lyon luc	3	
25	cli mon	50	Lyon luc	25	
	Bar grnd	50	Lyon luc	25	
26	per pal	30	Lyon luc	10	
	cli mon	60	Lyon luc	15	
	Bar grnd	10	Lyon luc	40	
27	vac cor	5	Lyon luc	10	
	Lyon luc	40	Lyon luc	10	153
	per pal	30	Lyon luc	10	5.1
	cli mon	5	per pal	2	
	Bar grnd	20	per pal	10	
28	per pal	70	per pal	10	
	Lyon luc	10	per pal	30	
	Bar grnd	20	per pal	30	
29	per pal	50	per pal	70	202
	Lyon luc	10	per pal	50	6.7333
	vac cor	30	Tax asc	15	0.5
	Bar grnd	10	vac cor	10	
30	Lyon luc	10	vac cor	5	
	Bar grnd	90	vac cor	30	1.6

Date: 11/8/2007
Name of data collector: David Clayton
Transect 8 Note Transect is 26 feet not 30 as ran out of habitat
Polygon: 2
Overstory: Slash Pine Plantation Thinning Area

Scientific Name	Common Name	% Cover
Carex sp.	Sedge	0.5
Cliftonia monophylla	Black titi	3.7
Dichanthelium sp.	Witch grass	0.53
Gelsemium sempervirens	Yellow jessamine	0.3
Ilex glabra	Gallberry	1.5
Ilex vomitoria	Yaupon	1
Lachnanthes caroliana	Redroot	1.6
Leucothoe racemosa	Swamp doghobble	5
Lyonia lucida	Fetterbush	1.3
Myrica cerifera	Wax myrtle	0.7
Panicum sp.	Panic grass	0.3
Persea palustris	Swamp bay	3.7
Pieris phyllyreifolia	Pieris	0.5
Quercus hemisphaerica	Diamond oak	0.2
Smilax laurifolia	Green briar	0.07
Vaccinium corymbosum	Highbush blueberry	1.2
Vaccinium myrsinites	Shiny blueberry	0.2
Vitis rotundifolia	Muscadine	0.4
	Bare ground	77.3
		100



Quad #	Species	Cover				
1	dic sp	2	bar grnd	95		
	lach car	3	bar grnd	95		
	bar grnd	95	bar grnd	85		
2	Lyo luc	3	bar grnd	87		
	lach car	2	bar grnd	85		
	bar grnd	95	bar grnd	75		
3	vac cor	3	bar grnd	60		
	Cli mon	5	bar grnd	90		
	Pan sp	7	bar grnd	85		
	bar grnd	85	bar grnd	65		
4	lach car	10	bar grnd	45		
	vac cor	3	bar grnd	90		
	bar grnd	87	bar grnd	85		
5	Cli mon	5	bar grnd	60		
	vac cor	10	bar grnd	75		
	bar grnd	85	bar grnd	70		
6	Myr cer	15	bar grnd	98		
	lach car	10	bar grnd	80		
	bar grnd	75	bar grnd	100		
7	Ilex gla	30	bar grnd	90		
	Myr cer	2	bar grnd	97		
	Cli mon	2	bar grnd	90		
	Lyo luc	6	bar grnd	35		
	bar grnd	60	bar grnd	60		
8	Per pal	3	bar grnd	60	2012	
	Cli mon	7	bar grnd	55	77.385	
	bar grnd	90	carex sp	10	0.3846	
9	vac cor	5	Cli mon	5		
	dic sp	5	Cli mon	5		
	Vac myr	5	Cli mon	2		
	bar grnd	85	Cli mon	7		
10	Ilex vom	25	Cli mon	5		
	Cli mon	5	Cli mon	10		
	Leu rac	5	Cli mon	5		
	bar grnd	65	Cli mon	3		
11	Per pal	40	Cli mon	5		
	Cli mon	10	Cli mon	5		
	vac cor	5	Cli mon	5		
	bar grnd	45	Cli mon	20	92	
12	vit rot	10	Cli mon	15	3.5385	
	bar grnd	90	dic sp	2		
13	Cli mon	5	dic sp	5		
	lach car	5	dic sp	5		
	dic sp	5	dic sp	2	0.5385	
	bar grnd	85	gel sem	10	0.3846	
14	Per pal	0	Ilex gla	10		
	Per pal	25	Ilex gla	30	1.5385	
	gel sem	10	Ilex vom	25	0.9615	
	quer hem	5	lach car	3		
	bar grnd	60	lach car	2		
15	Per pal	20	lach car	10		
	lach car	5	lach car	10		
	bar grnd	75	lach car	5		
16	Lyo luc	25	lach car	5		
	Cli mon	3	lach car	2		
	lach car	2	lach car	3	43	
	bar grnd	70	lach car	3	1.6538	
17	smi lau	2	Leu rac	5		
	bar grnd	98	Leu rac	2		
18	Leu rac	2	Leu rac	3		
	Per pal	3	Leu rac	55		
	carex sp	10	Leu rac	20		
	Cli mon	5	Leu rac	15		
	bar grnd	80	Leu rac	30	5	
19	bar grnd	100	Lyo luc	3		
20	lach car	3	Lyo luc	6		
	vac cor	7	Lyo luc	25	1.3077	
	bar grnd	90	Myr cer	15		
21	lach car	3	Myr cer	2	0.6538	
	bar grnd	97	Pan sp	7	0.2692	
22	dic sp	2	Per pal	3		
	Cli mon	5	Per pal	40		
	Leu rac	3	Per pal	0		
	bar grnd	90	Per pal	25		
23	Pier phy	10	Per pal	20	3.6923	
	Leu rac	55	Per pal	3		
	bar grnd	35	Per pal	5	96	
24	Cli mon	5	Pier phy	10		
	Per pal	5	Pier phy	5	0.5769	
	Leu rac	20	quer hem	5	0.1923	
	Ilex gla	10	smi lau	2	0.0769	
	bar grnd	60	vac cor	3		
25	Cli mon	20	vac cor	3		
	Leu rac	15	vac cor	10		
	Pier phy	5	vac cor	5	1.2692	
	bar grnd	60	vac cor	5		
26	Leu rac	30	vac cor	7	33	
	Cli mon	15	Vac myr	5	0.1923	
	bar grnd	55	vit rot	10	0.3846	

87/560 2600

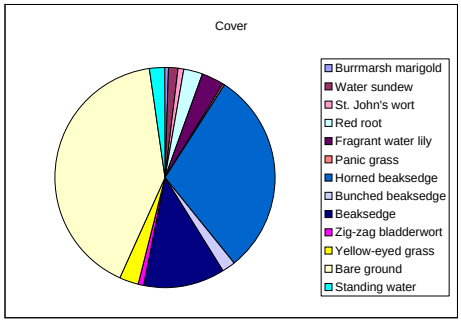
Tree Transect 87trees average of 13.3" 16800

87/16800 43560

225 trees/acre

Date: 11/8/2007
Name of data collector: David Clayton
Transect 9 Note Transect is 26 feet not 30 as ran out of habitat
Polygon: 5
Overstory: Dykes Mill Pond

Scientific Name	Common Name	% Cover
Bidens mitis	Burrmarsh marigold	0.61
Drosera intermedia	Water sundew	1.43
Hypericum fasciculatum	St. John's wort	0.8
Lachnanthes caroliniana	Red root	2.7
Nymphaea odorata	Fragrant water lily	3.23
Panicum sp.	Panic grass	0.33
Rhynchospora inundata	Horned beaksedge	30
Rhynchospora microcephala	Bunched beaksedge	2
Rhynchospora sp.	Beaksedge	12
Utricularia subulata	Zig-zag bladderwort	0.7
Xyris sp	Yellow-eyed grass	3
	Bare ground	41
	Standing water	2.2
		100



Quad #	Species	Cover				
1	Rhy in	95	bar grnd	5		
	bar grnd	5	bar grnd	5		
2	Rhy in	95	bar grnd	50		
	bar grnd	5	bar grnd	50		
3	lach car	3	bar grnd	50		
	Nym od	7	bar grnd	15		
	Rhy in	35	bar grnd	70		
	Rhy sp	5	bar grnd	55		
	bar grnd	50	bar grnd	30		
4	Rhy in	20	bar grnd	65		
	Rhy sp	30	bar grnd	30		
	bar grnd	50	bar grnd	45		
5	dro int	5	bar grnd	25		
	Rhy in	25	bar grnd	62		
	Nym od	5	bar grnd	40		
	rhy sp	15	bar grnd	20		
	bar grnd	50	bar grnd	75		
6	Rhy in	30	bar grnd	70		
	Rhy sp	50	bar grnd	25		
	Nym od	5	bar grnd	20		
	bar grnd	15	bar grnd	70		
7	xyr sp	5	bar grnd	65		
	Rhy in	20	bar grnd	75		
	dro int	5	bar grnd	75		
	bar grnd	70	bar grnd	40		
8	Nym od	15	bar grnd	70	1277	
	xyr sp	15	bar grnd	40	40.9	
	lach car	15	bar grnd	35		
	bar grnd	55	Bid mit	20	0.6667	
9	Rhy in	60	dro int	5		
	Rhy sp	10	dro int	5		
	bar grnd	30	dro int	5		
10	Rhy in	20	dro int	3		
	Rhy sp	15	dro int	5		
	bar grnd	65	dro int	5		
11	Nym od	20	dro int	5		
	Rhy in	40	dro int	5	43	
	Rhy sp	10	dro int	5	1.4333	
	bar grnd	30	Hyper fas	10		
12	Rhy in	40	Hyper fas	10	0.6667	
	dro int	5	lach car	3		
	Nym od	10	lach car	15		
	bar grnd	45	lach car	2		
13	xyr sp	50	lach car	25		
	Utr sub	5	lach car	30	80	
	Rhy sp	20	lach car	5	2.6667	
	bar grnd	25	Nym od	7		
14	dro int	3	Nym od	5		
	Rhy in	30	Nym od	5		
	bar grnd	62	Nym od	15		
	Nym od	5	Nym od	20		
15	lach car	2	Nym od	10		
	xyr sp	3	Nym od	5		
	dro int	5	Nym od	10		
	Rhy in	25	Nym od	5	97	
	rhy mic	25	Nym od	15	3.2333	
	bar grnd	40	pan sp	10	0.3333	
16	xyr sp	5	Rhy in	95		
	Rhy in	15	Rhy in	95		
	Rhy sp	60	Rhy in	35		
	bar grnd	20	Rhy in	20		
17	Nym od	10	Rhy in	25		
	Rhy in	15	Rhy in	30		
	bar grnd	75	Rhy in	20		
18	rhy mic	5	Rhy in	60		
	Rhy in	20	Rhy in	20		
	Nym od	5	Rhy in	40		
	bar grnd	70	Rhy in	40		
19	Rhy in	55	Rhy in	30		
	rhy sp	20	Rhy in	25		
	bar grnd	25	Rhy in	15		
20	Rhy in	50	Rhy in	15		
	rhy mic	10	Rhy in	20		
	Rhy sp	20	Rhy in	55		
	bar grnd	20	Rhy in	50		
21	Utr sub	15	Rhy in	10		
	Nym od	15	Rhy in	10		
	dro int	5	Rhy in	5		
	Rhy in	10	Rhy in	5		
	standing wate	55	Rhy in	25		
22	Rhy in	10	Rhy in	25		
	dro int	5	Rhy in	50		
	Rhy sp	75	Rhy in	30		
	standing wate	10	Rhy in	20	890	
23	Rhy in	5	Rhy in	20	29.667	
	dro int	5	rhy mic	25		
	rhy sp	20	rhy mic	5		
	bar grnd	70	rhy mic	10		
24	lach car	25	rhy mic	10	1.6667	
	dro int	5	Rhy sp	5		
	Rhy in	5	Rhy sp	30		
	bar grnd	65	rhy sp	15		
25	Rhy in	25	Rhy sp	50		
	bar grnd	75	Rhy sp	10		
26	Rhy in	25	Rhy sp	15		
	bar grnd	75	Rhy sp	10		
27	Rhy in	50	Rhy sp	20		
	rhy mic	10	Rhy sp	60		
	bar grnd	40	rhy sp	20		
28	Rhy in	30	Rhy sp	20		
	bar grnd	70	Rhy sp	75	350	
29	Hyper fas	10	rhy sp	20	11.667	
	lach car	30	standing wate	55		
	Rhy in	20	standing wate	10	2.1667	
	bar grnd	40	Utr sub	5		

30	Bid mit	20	Utr sub	15	0.6667
	pan sp	10	xyr sp	5	
	Rhy in	20	xyr sp	15	
	lach car	5	xyr sp	50	
	Hyper fas	10	xyr sp	3	
	bar grnd	35	xyr sp	5	2.6
		3000			

Qualitative Field Assessment Form

Date: 11/15/2007 **Time:** 9:30 am **Data Collector:** David Clayton
Location: Pedestrian Transect # M1 near photo point 15
Management Unit: 10

Nuisance Species: Bahia grass at gate entrance will be sprayed, does not extend into habitat
Fuel Load: Oak Trees have been thinned, area due to be burned this winter 2008/2009, fuel load high

Wildlife Observations: Deer tracks

T& E Species: Large population of Gulf Coast Lupine in sand hill and Smooth Barked St. John's Wort around pond

Community Description: Sandhill upland adjacent to a solution pond. Sandhill with good diversity and excellent groundcover. Marsh zonation still present, pond dry most of year, center full of dog fennel.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Amphicarpum muhlenbergianum	Blue maidencane				X
Andropogon glomeratus	Busy blue stem				X
Aristida stricta var. beyrichiana	Wiregrass				X
Baptisia lanceolata	Gopher weed				X
Baulduina angustifolia	Coastal plain honeycombhead				X
Bulbostylis ciliatifolia	Cappilary hairsedge				X
Ceanothus microphyllus	Redroot				X
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Chrysoma pauciflosculosa	Woody Goldenrod				X
Cliftonia monoplylla	Black ti ti		X		
Crysopsis scabrella	Goldenaster				X
Cyrilla racemiflora	Titi		X		
Dalea pinatta	Summer farewell				X
Dicanthelium scoparium	Panic grass				X
Dicanthelium spp.	Panic grass				X
Eleocharis sp.	Eleocharis				X
Eriogonum tomentosum	Wild Buckwheat				X
Eupatorium capillifolium	Dog fennel				X
Eupatorium mohrii	Eupatorium				X
Euthamia caroliniana	Flat-topped goldenrod				X
Galactia sp.	Milk pea				X
Gaylussacia dumosa	Dwarf huckleberry		X		
Gelsemium sempervirens	Florida Jasmine			X	
Hypericum crux-andreae	St. Peter's wort				X
Hypericum reductum	Atlantic St. John's wort				X
Hypericum gentinoides	Pineweed				X
Hypericum lissophloeus	Smooth Bark St. John's wort		X		
Hypericum spp.	St. John's wort		X		
Ilex glabra	Gall berry		X		
Ilex myrtifolia	Myrtle leaf holly		X		
Ilex vomitoria	Yaupon		X		
Lachnocaulon ancepts	White topped bog buttons				X

Scientific Name	Common Name	Tree	Shrub	Vine	Herbaceous
Licania michauxii	Gopher apple				X
Lupinus diffusus	Sky-blue lupine				X
Lupinus westianus	Gulf Coast Lupine				X
Magnolia virginiana	Silver bay	X			
Myrica cerifera	Wax myrtle		X		
Opuntia humifusa	Pricklypear cactus				X
Panicum dichotimiflorum	Fall panic grass				X
Panicum hemitomon	Maidencane				X
Paspalum notatum	Bahia grass				X
Persea borbonia	Red Bay	X			
Penstemon multiflorus	Many flowered beardtongue				X
Polygonella gracillis	Wire weed				X
Pinus clausa	Sand Pine	X			
Pinus elliottii	Slash pine	X			
Pinus palustris	Longleaf pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wireweed				X
Quercus geminata	Sand Live Oak	X			
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus virginiana	Live Oak	X			
Rhexia mariana	Pale meadow beauty				X
Rhus copallinum	Sumac		X		
Rubus cuneifolius	Sand blackberry		X		
Serenoa repens	Saw Palmetto		X		
Scoparia dulcis	Sweet Broom				X
Smilax sp.	Catbriar			X	
Stylisma patens	Coastal plain dawnflower				X
Utricularia floridana	Bladderwort				X
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Viburnum obovatum	Walter's viburnum		X		
Vitus rotundifolia	Muscadine			X	
Xyris sp.	Yellow-eyed grass				X
Yucca filamentosa	Adam's needle				X

*** Present in initial survey but not observed, ** New observation, * Nuisance Exotic Species

Pedestrian Transect: Upland Sand Hill with oak eradication: Note: Gulf Coast Lupine in upper left photo

Marsh showing in background and gulf coast lupine (threatened) in foreground

Qualitative Field Assessment Form

Date: 11/15//2007 **Time:** 5:00 pm **Data Collector:** David Clayton
Location: Pedestrian Transect # M2 near photo point 3
Management Unit: 10

Nuisance Species: None
Fuel Load: Fuel load moderate

Wildlife Observations: **Deer, turkey and raccoon tracks, cardinal**
T& E Species: None

Community Description: Sandhill upland overgrown with live and turkey oaks…good wiregrass cover, but allot of shade. Lots of deer moss on ground, a very dry site that grades down towards Pine Log Creek.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Aster pilosus	Frost aster				X
Aristida stricta var. beyrichiana	Wiregrass				X
Balduina angustifolia	Coastalplain honeycombhead				X
Baptisia lanceolata	Gopher weed				X
Bulbostylis ciliatifolia	Capillary hairsedge				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Dichanthelium sp.	Witch grass				X
Diospyros virginiana	Persimmon	X			
Galactia sp.	Milk pea				X
Eriogonum tomentosum	Wild Buckwheat				X
Eupatorium compositifolium	Yankeeweed				X
Gelsemium sempervirens	Florida Jasmine			X	
Hypericum crux-andreae	St. Peter's-wort				X
Ilex opaca	American holly	X			
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Liatris pauciflora	Fewflower gayfeather				X
Licania michauxii	Gopher apple				X
Opuntia humifusa	Prickypear cactus				X
Penstemon multiflorus	Manyflowered beardstongue				X
Photinia pyrifolia	Red chokeberry		X		
Pinus clausa	Sand pine	X			
Pinus palustris	Long leaf pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wire weed				X
Quercus incana	Blue jack oak	X			
Quercus hemisphaerica	Diamond oak	X			
Quercus laevis	Turkey oak	X			
Quercus virginiana	Live oak	X			
Rhexia mariana	Pale meadow beauty				X
Rubus cuneifolius	Sand blackberry				X
Scleria sp.	Scleria				X
Serenoa repens	Saw-palmetto		X		
Smilax sp.	Catbriar			X	
Solidago fistulosa	Pinebarren goldenrod				X
Sorghastrum secundum	Lopsided Indiangrass				X
Stylisma patens	Coastalplain dawnflower				X

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Vaccinium arboreum	Farkleberry		X		
Vaccinium corymbosum	Highbush blueberry		X		
Vaccinium darrowii	Darrow's blueberry		X		
Vitis rotundifolia	Wild muscadine grape			X	
Yucca filamentosa	Adam's needle				X

*** New observation ** Not observed in 2007

M2: Oaks with good wiregrass cover

M2 Sandhill, oaks and wiregrass

Qualitative Field Assessment Form

Date: 11/15/2007 **Time:** 4:30 pm **Data Collector:** David Clayton
Location: Pedestrian Transect # M3 near photo point 2
Management Unit: 12

Nuisance Species: None
Fuel Load: Fuel load high due to thinned oaks… will be burned in the winter of 2006/2007

Wildlife Observations: **none**
T& E Species: Southern crab apple

Community Description: Sandhill upland sloping down into the seepage area associated with Cat pond. Excellent diversity and groundcover. Wire grass bloomed this summer…area planted with long leaf pine

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Andropogon glomeratus	Busy blue stem				X
Andropogon gyrans	Elliot's blue stem				X
Aristida stricta var. beyrichiana	Wiregrass				X
Asclepias cinerea	Carolina milkweed				X
Asclepias humistrata	Pinewoods milkweed				X
Baptisia lanceolata	Gopher weed				X
Carphephorus odoratissimus	Vanilla leaf				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Dichanthelium sp.	Witch grass				X
Eriogonum tomentosum	Wild Buckwheat				X
Gaylussacia dumosa	Dwarf huckleberry		X		
Gelsemium sempervirens	Florida Jasmine			X	
Hieracium gronovii	Hawkweed				X
Hypericum gentianoides	Pineweed				X
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Liatris pauciflora	Few flowered gayfeather				X
Licania michauxii	Gopher apple				X
Lupinus diffusus	Skyblue lupine				X
Magnolia grandiflora	Southern magnolia	X			
Malus angustifolia	Southern crabapple	X			
Polygonella gracillis	Wire weed				X
Pinus elliottii	Slash pine	X			
Pinus palustris	Long leaf pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wireweed				X
Pteridium aquilinum	Bracken fern				X
Quercus laevis	Turkey oak	X			
Quercus margaretta	Sand post oak	X			
Quercus virginiana	Live oak	X			
Rhexia mariana	Pale meadow beauty				X
Smilax sp.	Catbriar			X	
Tradescantia hirsutiflora	Hairyflower spiderwort				X
Yucca filamentosa	Adam's needle				X

Pedestrian Transect M3: Cat pond and surrounding uplands

M3: Upland with good wiregrass cover

Qualitative Field Assessment Form

Date: 11/15/2007 **Time:** 4:00 pm **Data Collector:** David Clayton
Location: Pedestrian Transect # M4 near photo point 4
Management Unit: 12

Nuisance Species: None
Fuel Load: burned last winter, good wire grass response really starting to look good.

Wildlife Observations: **rabbit and raccoon tracks, active gopher tortoise burrow**
T& E Species: None observed

Community Description: Sandhill upland sloping down into the seepage area associated with Little Deep Edge pond. Excellent diversity and groundcover.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Andropogon glomeratus	Busy blue stem				X
Andropogon gyrans	Elliot's blue stem				X
Andropogon virginicus	Broomsedge				X
Aristida stricta var. beyrichiana	Wiregrass				X
Asimina angustifolia	Slimleaf pawpaw		X		
Aster pilosus	Frost aster				X
Aster wateri	Walter's aster				X
Balduina angustifolia	Coastalplain honeycombhead				X
Baptisia lanceolata	Gopher weed				X
Bulbostylis capillaris	Capillary hairsedge				X
Carphephorus corymbosum	Coastplain chaffhead				X
Carphephorus odoratissimus	Vanilla leaf				X
Ceanothus microphyllus	Littleleaf buckrush				X
Croton argyranthemus	Silver croton				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Crysopsis scabrella	Goldenaster				X
Cyperus sp.	Cyperus				X
Dalea pinatta	Summer farewell				X
Dicanthelium spp.	Witch grass				X
Digitaria filiformis	Slender crabgrass				X
Diospyros virginiana	Persimon	X			
Elephantopus carolinianus	Elephant's foot				X
Eremochloa ophiuroides	Centipede grass				X
Eriogonum tomentosum	Wild Buckwheat				X
Eryngium yuccifolium	Rattlesnake master				X
Eupatorium capillifolium	Dog fennel				X
Eupatorium hyssopifolium . var. laciniatum	Hyssopleaf thoroughwort				X
Eupatorium leucolepis	Justiceweed				X
Eupatorium serotinum	Late thoroughwort				X
Galactia volubilis	Milkpea				X
Gaura filipes	Slenderstalk beeblossom				X
Gelsemium sempervirens	Florida Jasmine			X	
Haplopappus divaricatus	Scratch daisy				X
Hieracium gronovii	Hawkweed				X

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Helianthus radula	Rayless sunflower				X
Hypericum crux-andreae	St. Peter's wort				X
Hypericum gentianoides	Pineweed				X
Ilex glabra	Gall berry		X		
Gaylussacia dumosa	Dwarf huckleberry		X		
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Liatris pauciflora	Few flowered gayfeather				X
Licania michauxii	Gopher apple				X
Lobelia glandulosa	Glade lobelia				X
Lupinus diffusus	Skyblue lupine				X
Opuntia humifusa	Pricklypear cactus				X
Osmanthus americanus	Wild olive		X		
Paronychia rugelii	Sand-squares				X
Penstemon multiflorus	Penstemon				X
Polygonella gracilis	Wire weed				X
Pinus elliottii	Slash pine	X			
Pinus palustris	Long leaf pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wireweed				X
Pteridium aquilinum	Bracken fern				X
Pterocaulon virgatum	Blackroot				X
Quercus elliottii	Runner oak		X		
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus margaretta	Sand post oak	X			
Quercus virginiana	Live oak	X			
Rhexia mariana	Pale meadow beauty				X
Rhus copallinum	Winged sumac		X		
Rubus cuneifolius	Sand blackberry		X		
Scleria sp.	Scleria				X
Serenoa repens	Saw palmetto		X		
Solidago fistulosa	Pinebarrens goldenrod				X
Solidago stricta	Wand goldenrod				X
Seymeria cassioides	Senna seymaria				X
Smilax sp.	Catbriar			X	
Sporobolus junceus	Pineywoods dropseed				X
Stillingia sylvatica	Queen's delight				X
Stylisma patens	Coastalplain dawnflower				X
Trichostema setaceum	Forked blue curls				X
Vaccinium arboreum	Sparkle berry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Stylodon carneus	Stylodon				X
Viola sororia	Common blue violet				X
Vitis rotundifolia	Muscadine			X	
Woodwardia virginica	Virginia chain fern				X
Xyris sp.	Yellow-eyed grass				X
Yucca filamentosa	Adam's needle				X

** New Observation, * Not observed in 2007

Pedestrian Transect M4: Upland Sand Hill: Note: Wiregrass

Qualitative Field Assessment Form

Date: 11/15/2007 **Time:** 5:30 pm **Data Collector:** David Clayton
Location: Pedestrian Transect # M5 near photo point 1
Management Unit: 11

Nuisance Species: None
Fuel Load: Slash Pine harvested, will be burned this winter

Wildlife Observations: **squirrel**
T& E Species: None observed

Community Description: Wire grass bloomed this summer…slash pine harvested.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Andropogon glomeratus	Busy blue stem				X
Andropogon gyrans	Elliot's blue stem				X
Andropogon virginicus	Broom sedge				X
Aristida stricta var. beyrichiana	Wiregrass				X
Asimina angustifolia	Slimleaf pawpaw		X		
Aster pilosus	Frost aster				X
Aster wateri	Walter's aster				X
Baptisia lanceolata	Gopher weed				X
Berlandiera pumila	Green eyes				X
Carphephorus odoratissimus	Vanilla leaf				X
Ceanothus microphyllus	Littleleaf buckrush				X
Croton argyranthemus	Silver croton				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Crysopsis scabrella	Goldenaster				X
Dalea pinatta	Summer farewell				X
Dicanthelium spp.	Panic grass				X
Digitaria filiformis	Slender crabgrass				X
Diospyros virginiana	Persimon	X			
Elephantopus carolinianus	Elephant's foot				X
Eremochloa ophiuroides	Centipede grass				X
Eriogonum tomentosum	Wild Buckwheat				X
Eupatorium capillifolium	Dog fennel				X
Eupatorium serotinum	Late thoroughwort				X
Galactia volubilis	Milkpea				X
Gaylussacia dumosa	Dwarf huckleberry		X		
Gelsemium sempervirens	Florida Jasmine			X	
Gomphrena serrata	Globe amaranth				X
Hieracium gronovii	Hawkweed				X
Hypericum crux-andreae	St. Peter's wort				X
Ilex glabra	Gall berry		X		
Ilex opaca	American holly	X			
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Liatris pauciflora	Few flowered gayfeather				X
Licania michauxii	Gopher apple				X
Opuntia humifusa	Pricklypear cactus				X
Penstemon multiflorus	Penstemon				X

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Pinus elliottii	Slash pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wireweed				X
Pterocaulon pycnostachyum	Black root				**X**
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus margaretta	Sand post oak	X			
Rhus copallinum	Winged sumac		X		
Rubus cuneifolius	Sand blackberry		X		
Rumex hastatulus	Heartwing dock				X
Schrankia microphylla	Sensitive briar			X	
Solidago fistulosa	Pinebarrens goldenrod				X
Seymeria cassioides	Senna seymaria				X
Smilax sp.	Catbriar			X	
Stillingia sylvatica	Queen's delight				X
Trichostema setaceum	Forked blue curls				X
Vaccinium arboreum	Sparkle berry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Yucca filamentosa	Adam's needle				X

** New observation, * Not seen in 2007

Pedestrian Transect M5: Note: Planted slash pine stand harvested

Qualitative Field Assessment Form

Date: 11/16/07 **Time** 9:00 Am **Data Collector:** David Clayton
Location: Pedestrian Transect # M6
Management Unit: 14

Nuisance Species: none
Fuel Load: Low

Wildlife Observations: snipe, mourning dove
T& E Species:.Smooth barked St. John's wort around the edge of pond

Community Description:Edge dominated by slash pine and shrubs with some black gun and cypress. Pond has dried down and dominated by dog fennel, Rhynchospora and Eleocharis. Most species appear healthy though some have died from drought

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Bushy blue stem				X
Andropogon virginicus	Broomsedge				X
Bidens mitis	Bur marsh marigold				X
Brasenia schreberi	Water shield				X
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Cliftonia monoplylla	Black ti ti		X		
Cyrilla racemiflora	Red ti ti		X		
Dicanthelium spp.	Witch grass				X
Eleocharis sp.	Eleocharis				X
Eupatorium capillifolium	Dog fennel				X
Hypericum lissophloeus	Smooth barked St. John's wort		X		
Hypericum spp.	St. John's wort		X		
Ilex vomitoria	Yaupon		X		
Lachnanthese caroliniana	Red root				X
Lachnocaulon ancepts	White topped bog buttons				X
Lycopus rubellus	Water horehound				X
Numphar advena	Spatterdock				X
Nymphaea odorata	Fragrant water lily				X
Nyssa sylvatica	Black gun	X			
Panicum dichotimiflorum	Fall panic grass				X
Panicum hemitomon	Maidencane				X
Panicum repens	Torpedo grass				X
Persea palustris	Swam bay	X			
Pinus elliottii	Slash Pine	X			
Pontederia cordata	Pickerel weed				X
Quercus hemisphaerica	Diamond Oak	X			
Rhexia mariana	Pale meadow beauty				X
Rynchospora inundata	Horned beakrush				X
Sacciolepis striata	American cupscale				X
Sagittaria latifolia	Duck potato				X
Smilax sp.	Catbriar			X	
Taxodium ascendens	Cypress	X			
Triadeum virginicum	Marsh St. John's wort				X
Utricularia floridana	Bladderwort				X
Vaccinium corymbosum	High bush blue berry		X		
Xyris sp.	Yellow-eyed grass				X

** New Observation, * Not observed in 2007

Pedestrian Transect M6: Note: Garret Pond dry

Qualitative Field Assessment Form

Date: 11/16/2007 **Time:** 8:00 am **Data Collector:** David Clayton
Location: Pedestrian Transect # M7
Management Unit: 4

Nuisance Species: None
Fuel Load: Low

Wildlife Observations: Sandhill cranes, raccoon, deer and hog tracks, great egret and little blue heron
T& E Species:.Hypericum lissophloeus (Smooth barked St. John's wort, water sundew

Community Description: Little water left due to drought. Few floating mats of yellow eyed grass, sphagnum, and bur marsh marigold. Dominated by cypress with some black gum. Most species appear healthy though some lost to drought

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Bushy blue stem				X
Bidens mitis	Bur marsh marigold				X
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Cliftonia monoplylla	Black ti ti		X		
Cyrilla racemiflora	Red ti ti		X		
Dicanthelium spp.	Panic grass				X
Drosera intermedia	Water sundew				X
Eleocharis sp.	Eleocharis				X
Eupatorium capillifolium	Dog fennel				X
Hypericum lissophloeus	Smooth barked St. John's wort		X		
Hypericum spp.	St. John's wort		X		
Ilex glabra	Gall berry		X		
Ilex vomitoria	Yaupon		X		
Lachnanthese caroliniana	Red root				X
Lachnocaulon ancepts	White topped bog buttons				X
Lycopus rubellus	Water horehound				X
Numphar advena	Spatterdock				X
Nymphaea odorata	Fragrant water lily				X
Nyssa sylvatica	Black gun	X			
Panicum dichotimiflorum	Fall panic grass				X
Panicum hemitomon	Maidencane				X
Persea palustris	Swam bay	X			
Pinus elliottii	Slash Pine	X			
Pontederia cordata	Pickerel weed				X
Quercus hemisphearica	Diamond Oak	X			
Rhexia alifanus	Savannah meadow beauty				X
Rhexia mariana	Pale meadow beauty				X
Rhynchospora inundata	Horned beaksedge				X
Rhynchospora microcephalla	Bunched beaksedge				X
Sagittaria latifolia	Duck potato				X
Smilax sp.	Catbriar			X	
Taxodium ascendens	Cypress	X			
Triadeum virginicum	Marsh St. John's wort				X
Utricularia cornuta	Horned wort				X
Utricularia floridana	Bladderwort				X
Vaccinium corymbosum	High bush blue berry		X		
Xyris sp.	Yellow-eyed grass				X

** New observation, * Not observed in 2007

Pedestrian Transect M7: Note: floating mats

Qualitative Field Assessment Form

Date: 11/16/2007 **Time:** 11 am **Data Collector:** David Clayton
Location: Pedestrian Transect # M8
Management Unit: I and II

Nuisance Species: None
Fuel Load: Low

Wildlife Observations: Titmouse, wood duck, pied billed grebe

T& E Species:.None

Community Description: Swamp dominated by pond cypress with a fringe of black gum…little water present due to drought. Trees healthy, numerous cypress seedlings. Some herbaceous plants have died from lack of water. Most species appear healthy

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Bushy bluestem				X
Bidens mitis	Bur marsh marigold				X
Brasenia schreberi	Water shield				X
Callicarpa americana	Beauty berry		X		
Campsis radicans	Trumpet vine			X	
Centella asiatica	Centella				X
Clethra alniflora	Sweet pepperbush		X		
Cephalanthus occidentalis	Button bush		X		
Cliftonia monoplylla	Black ti ti		X		
Cyrilla racemiflora	Red ti ti		X		
Dicanthelium spp.	Panic grass				X
Eleocharis sp.	Eleocharis				X
Erianthus giganteus	Giant plume grass				X
Eupatorium capillifolium	Dog fennel				X
Gelsemium sempervirens	Florida Jasmine			X	
Hypericum spp.	St. John's wort		X		
Ilex myrtifolia	Myrtle leaf holly		X		
Ilex vomitoria	Yaupon		X		
Itea virginica	Virginia willow		X		
Lachnanthese caroliniana	Red root				X
Lachnocaulon ancepts	White topped bog buttons				X
Lycopus rubellus	Taper leaf waterhorehound				X
Magnolia virginiana	Silver bay	X			
Myrica cerifera	Wax myrtle		X		
Numphar advena	Spatterdock				X
Nymphaea odorata	Fragrant water lily				X
Nyssa sylvatica	Black gun	X			
Panicum dichotimiflorum	Fall panic grass				X
Panicum hemitomon	Maidencane				X
Persea palustris	Swam bay	X			
Pinus taeda	Loblolly pine	X			
Pontederia cordata	Pickerel weed				X
Rhexia mariana	Pale meadowbeauty				X
Rynchospora inundata	Horned beakrush				X
Sagittaria latifolia	Duck potato				X
Smilax sp.	Catbriar			X	
Taxodium ascendens	Cypress	X			
Triadeum virginicum	Marsh St. John's wort				X
Utricularia floridana	Bladderwort				X

Scientific Name	**Common Name**	**Tree**	**Shrub**	**Vine**	**Herb**
Vaccinium corymbosum	High bush blueberry		X		
Woodwardia aerolata	Netted chain fern				X
Xyris sp.	Yellow-eyed grass				X

** New Observation, * Not seen in 2007

Pedestrian Transect M8: Note: pond mostly dry

Qualitative Field Assessment Form

Date: 11/16/2007 **Time:** 4 pm **Data Collector:** David Clayton
Location: Pedestrian Transect # M9
Management Unit: 1

Nuisance Species: None
Fuel Load: Low

Wildlife Observations: Alligator great blue heron, anole, blue jay
T& E Species: None

Community Description: Green ponds: dominated by pond cypress… Most trees healthy, numerous cypress seedlings of 1 to several yeas of age. Some herbaceous plants such as pickerel weed brown from lack of water.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Bushy bluestem				X
Bidens mitis	Bur marsh marigold				X
Brasenia schreberi	Water shield				X
Carex glaucescens	Clustered Sedge				X
Centella asiatica	Centella				X
Cephalanthus occidentalis	Button bush		X		
Cliftonia monoplylla	Black ti ti		X		
Cyperus sp.	Sedge				X
Cyrilla racemiflora	Titi		X		
Dichanthelium sp.	Witch grass				X
Eleocharis inundata	Spikerush				X
Eleocharis sp.	Eleocharis				X
Eupatorium capillifolium	Dog fennel				X
Gelsemium sempervirens	Florida jasmine			X	
Hypericum sp.	St. John's wort		X		
Ilex vomitoria	Yaupon		X		
Ilex myrtifolia	Myrtle leaf holly		X		
Itea virginica	Virginia willow		X		
Lachnanthese caroliniana	Red root				X
Liquidambar styraciflua	Sweet gum	X			
Lycopodium alopecuroides	Foxtail club-moss				X
Lycopus rubellus	Water horehound				X
Magnolia virginiana	Silver bay	X			
Myrica cerifera	Wax myrtle		X		
Numphar advena	Spatterdock				X
Nymphaea odorata	Fragrant water lily				X
Panicum hemitomon	Maidencane				X
Panicum repens	Torpedo grass				X
Persea palustris	Swamp Bay	X			
Pluchea odorata	Sweetscent				X
Pontederia cordata	Pickerel weed				X
Rhexia alifanus	Savannah meadowbeauty				X
Rynchospora inundata	Horned beakrush				X
Rynchospora microcephala	Small headed beakrush				X
Sacciolepis striata	American cupscale				X
Sagittaria latifolia	Duck potato				X
Taxodium ascendens	Cypress	X			
Utricularia floridana	Bladderwort				X
Xyris sp.	Yellow-eyed grass				X

** New Observation, not observed in 2007

Pedestrian Transect: Green Ponds: Note: sunken wooden boat

Can you find the Alligator?

Most looks like this (dry)

Qualitative Field Assessment Form

Date: 10/282006 **Time:** 11:30 am **Data Collector:** David Clayton
Location: Pedestrian: M10 near photo point 8
Management Unit: 1 **Due to species composition, analyzed under hydric pine flatwoods, Management Unit 2**

Nuisance Species: None
Fuel Load: Moderate

Wildlife Observations: Wild pig tracks, black vulture, kingfisher, phoebe, anole and cardinal
T& E Species:

Community Description: Overstory dominated by black ti ti, slash pine and red bay, understory composed of a wide variety of shrub and herbs…burned last year, good re-growth.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Acer rubrum	Red maple	X			
Arundinaria gigantea	Switchcane				X
Callicarpa americana	American beautyberry		X		
Clethra alnifolia	Sweet pepperbush		X		
Cliftonia monoplylla	Black ti ti		X		
Cyrilla racemiflora	Red ti ti		X		
Cuscuta gronovii	Scaldweed dodder			X	
Gelsemium sempervirens	Florida Jasmine			X	
Gordonia lasianthus	Loblolly bay	X			
Hypericum crux-andreae	St. John's wort				X
Ilex coriaceae	Big gallberry		X		
Ilex glabra	Gallbberry		X		
Ilex vomitoria	Yaupon		X		
Kalmia hirsuta	Wicki		X		
Lachnanthes caroliana	Redroot				X
Leucothoe racemosa	Dog hobble		X		
Lycopus rubellus	Waterhorehound				X
Lyonia lucida	Fetterbush		X		
Myrica caroliniensis	Evergreen bayberry		X		
Osmunda regalis	Royal fern				X
Oxydendrom areboreum	Sourwood	X			
Persea borbonia	Red bay	X			
Pinus elliottii	Slash pine	X			
Pteridium aquilinum	Brachen fern				X
Quercus hemisphaerica	Diamond oak	X			
Quercus nigra	Water oak	X			
Quercus virginiana	Live oak	X			
Rhododendron viscosum	Swamp honeysuckle		X		
Rhus copallinum	Winged sumac		X		
Rubus argutus	Black berry		X		
Serenoa repens	Saw-palmetto		X		
Smilax laurifolia	Catbriar			X	
Smilax sp.	Catbriar			X	
Taxodium ascendens	Cypress	X			
Toxicodendron vernix	Poison sumac		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccimium myrsinities	Shiny blueberry		X		
Viburnum rufidulum	Rusty black haw		X		
Vitus rotundifolia	Wild muscadine grape			X	
Woodwardia aerolata	Netted chain fern				X

* New observation

Pedestrian Transect M10: Loblolly Bays

Gyrotracked Shrub area

Qualitative Field Assessment Form

Date: 10/25/2006 **Time:** 11:30 am **Data Collector:** David Clayton

Location: Pedestrian Transect # M11 and Photo point 12 moved to represent wet flatwoods habitat. Original transect and photopoint were too upslope in an upland oak habitat. Transect and photopoint moved to overgrown wetland dominated by shrubs but had remnant long leaf pine used for turpentine. The area was gyrotracked during the late spring and summer. This refects baseline vegetation for the new transect and photo point. Intensive management will be used to return to wet flatwoods.

Management Unit: 2

Nuisance Species: None observed

Fuel Load: medium, low area gyrotracked earlier this year and burned

Wildlife Observations: Robin

T& E Species: none

Community Description: Degraded wet flatwoods overgrown by shrubs grading into a hardwood swamp. Area gyrotracked during the spring. Area has minimal black titi and has an excellent chance of recovery to wet flatwoods.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Busy blue stem				X
Clethra alnifolia	Sweet pepper bush				X
Cliftonia monoplylla	Black ti ti		X		
Dicanthelium spp.	Witch grass				X
Gelsemium sempervirens	Florida Jasmine			X	
Ilex coriacea	Large gall berry		X		
Ilex glabra	Gall berry		X		
Ilex myrtifolia	Myrtle-leaved holly		X		
Lachnanthes caroliana	Red root				X
Lyonia lucida	Fetter bush		X		
Magnolia virginiana	Silver bay	X			
Myrica cerifera	Wax myrtle		X		
Persea palustris	Swamp Bay	X			
Pinus elliottii	Slash pine	X			
Osmunda cinnamomea	Cinnamon fern				X
Rhycospora sp.	Beakrush				X

* Observed during 2007

Pedestrian Transect: Degraded Wet flatwoods prior to gyrotrack

Post Gyrotrack

Qualitative Field Assessment Form

Date: 10/25/2006 **Time:** 10:30 am **Data Collector:** David Clayton
Location: Pedestrian Transect # M12 near photo point 11 **Management Unit:** 10

Nuisance Species: None observed
Fuel Load: Oak Trees have been thinned, area due to be burned winter 2007/2008, fuel load high

Wildlife Observations: Tohee, cardinal, titmouse, chickadee, mockingbird T& E Species: Active gopher tortoise burrow

Community Description: Sand hill that has been overgrown with diamond and live oak. Good wire grass cover remains throughout the majority of the site.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Busy blue stem				X
Aristida stricta var. beyrichiana	Wiregrass				X
Castanea pumila	Chinkapin	X			
Chrysoma pauciflosculosa	Woody goldenrod				X
Cliftonia monophylla	Black titi		X		
Cnidoscolus stimulosus	Tread softly				X
Dichanthelium sp.	Witch grass				X
Diorospyros virginiana	Persimon	X			
Bulbostylis ciliatifolia	Capillary hairsedge				X
Eupatorium capillifolium	Dog fennel				X
Gelsemium sempervirens	Florida jasmine			X	
Hypericum crux-andreae	St. Peter's wort				X
Ilex opaca	American holly	X			
Licania michauxii	Gopher apple				X
Opuntia humifusa	Pricklypear cactus				X
Osmanthus americana	Wild olive		X		
Penstemon multiflorus	Many flowered beardstongue				X
Persea borbonia	Red bay	X			
Pinus clausa	Sand Pine	X			
Pinus elliottii	Slash pine	X			
Pinus palustris	Longleaf pine	X			
Polygonella gracilis	Wireweed				X
Prunus caroliniana	Cherry laurel	X			
Prunus serotina	Black cherry	X			
Quercus geminata	Sand live oak	X			
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus margaretta	Sand post oak	X			
Quercus virginiana	Live oak	X			
Rhexia mariana	Meadow beauty				X
Scleria sp.	Scleria				X
Smilax sp.	Catbriar			X	
Trichostema setaceum	Blue curls				X
Vaccinium arboreum	Farkleberry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Vitus rotundifolia	Muscadine			X	
Yucca filamentosa	Adam's needle				X

** New Observation, Not observed in 2007

Pedestrian Transect: Upland Sand Hill with oak eradication

Still lots of downed trees

Qualitative Field Assessment Form

Date: 10/16/2006 **Time:** 1:11 pm **Data Collector:** David Clayton

Location: Pedestrian Transect # M13 near photo point 7, Management Unit 10

Nuisance Species: None

Fuel Load: Oak Trees have been thinned, area burned winter 2007/2008, fuel load low

Wildlife Observations: **downy woodpecker, pileated woodpecker, raccoon tracks, otter tracks, tortoise burrow , 6 pt buck**

T& E Species: Gulf coast lupine

Community Description: Sandhill upland upslope of black pond. Sandhill with good diversity and excellent groundcover. Wire grass bloomed this summer…area planted with long leaf pine.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Agalinis setacea	Threadleaf false foxgloves				X
Andropogon glomeratus	Busy blue stem				X
Andropogon virginicus	Broom sedge				X
Aristida stricta var. beyrichiana	Wiregrass				X
Aster wateri	Walter's aster				X
Baptisia lanceolata	Gopher weed				X
Baulduina angustifolia	Coastal plain honeycombhead				X
Bulbostylis ciliatifolia	Capillary hair sedge				X
Carphephorus odoratissimus	Vanilla leaf				X
Carphephorus paniculatus	Hairy trilisa				X
Ceanothus microphyllus	Redroot				X
Croton argyranthemus	Silver croton				X
Chrysoma pauciflosculosa	Woody Goldenrod				X
Cnidoscolus stimulosus	Tread softly				X
Crysopsis scabrella	Goldenaster				X
Dalea pinatta	Summer farewell				X
Dicanthelium spp.	Panic grass				X
Eriogonum tomentosum	Wild Buckwheat				X
Eupatorium capillifolium	Dog fennel				X
Eupatorium mohrii	Eupatorium				X
Euthamia caroliniana	Flat-topped goldenrod				X
Galactia volubilis	Milkpea				X
Gaylussacia dumosa	Dwarf huckleberry		X		
Gelsemium sempervirens	Florida Jasmine			X	
Haplopappus divaricatus	Scratch daisy				X
Hieracium gronovii	Hawkweed				X
Hypericum crux-andreae	St. Peter's wort				X
Hypericum gentianoides	Orangeweed				X
Ilex opaca	American holly	X			
Ilex vomitoria	Yaupon		X		
Liatris gracilis	Slender gayfeather				X
Liatris pauciflora	Few flowered gayfeather				X
Licania michauxii	Gopher apple				X
Lupinus diffusus	Sky-blue lupine				X
Lupinus westianus	Gulf coast lupine				X
Opuntia humifusa	Pricklypear cactus				X
Panicum dichotimiflorum	Fall panic grass				X

Scientific Name	**Common Name**	**Tree**	**Shrub**	**Vine**	**Herb**
Penstemon multiflorus	Many flower beardstongue				X
Polygonella gracilis	Wire weed				X
Pinus clausa	Sand Pine	X			
Pinus elliottii	Slash pine	X			
Pinus palustris	Longleaf pine	X			
Pityopsis graminifolia	Golden Aster				X
Polygonella gracilis	Wireweed				X
Pteridium aquilinum	Bracken fern				X
Quercus geminata	Sand Live Oak	X			
Quercus hemisphearica	Diamond oak	X			
Quercus incana	Blue jack oak	X			
Quercus laevis	Turkey oak	X			
Quercus margaretta	Sand post oak	X			
Quercus pumila	Runner oak		X		
Rhexia mariana	Pale meadow beauty				X
Rhus copallinum	Winged sumac		X		
Seymeria cassioides	Senna seymaria				X
Serenoa repens	Saw Palmetto		X		
Smilax sp	Catbriar			X	
Solidago fistulosa	Pinebarren goldenrod				X
Stylisma patens	Coastal plain dawnflower				X
Trichostema setaceum	Narrow-leaved blue curls				X
Vaccinium arboreum	Sparkle berry		X		
Vaccinium corymbosum	High bush blueberry		X		
Vaccinium myrsinites	Shiny blue berry		X		
Vitis rotundiflora	Muscadine			X	
Yucca filamentosa	Adam's needle				X

** Added in 2007, not observed in 2007

Pedestrian Transect: Upland Sand Hill with oak eradication: Note: Wiregrass and felled oaks