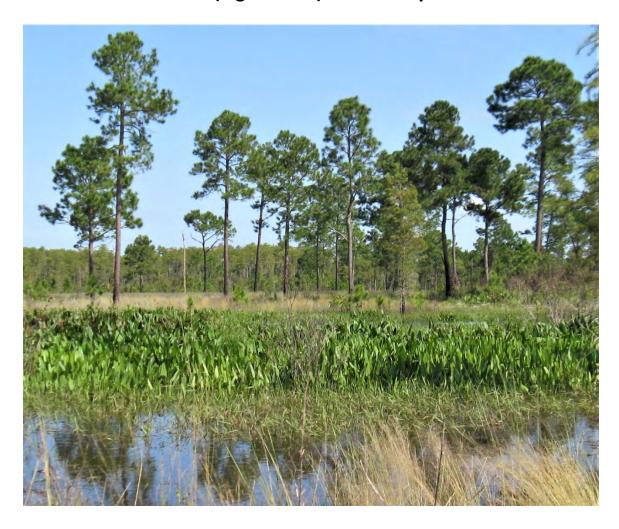
Sand Hill Lakes Mitigation Bank Combined FDEP/USACE 2023 (Eighteenth) Annual Report



FDEP Permit No. 0227351-001, Issued 9/6/2005 USACE Permit SAJ-2002-5061 (NW-DEB), issued 5/17/2006

> Northwest Florida Water Management District 81 Water Management Drive Havana, Florida 32333-4712

Executive Summary

Located in southern Washington County in the Sand Hill Lakes region of the Florida Panhandle (Figure 1), the Sand Hill Lakes Mitigation Bank (SHLMB) consists of approximately 2,155 acres (~850 acres of wetlands; ~155 acres of natural lakes and ponds; ~1,150 acres of upland communities; Figure 2). Acquired in 2002 for the express purpose of establishing a mitigation bank, the Florida Department of Environmental Protection (FDEP) bank permit was issued September 5, 2005 and the corresponding US Army Corps of Engineers (USACE) permit was issued on May 17, 2006.

This <u>Combined FDEP/USACE 2023</u> (<u>Eighteenth</u>) <u>Annual Report</u> is written in accordance with Specific Conditions 26 and 28 of the FDEP permit. All restoration activities described in the state and federal permits have been implemented (including, though not limited to, habitat restoration, fire management, hydrologic enhancements, erosion stabilization, management of exotic and/or invasive vegetation, management of feral hog populations, annual quantitative and qualitative monitoring of vegetation). Restored habitats are improving, vegetation species diversity is increasing, and interim success criteria have been met since 2010.

Initial credits releases occurred in 2006 and 2008; 1st Interim Credit Release was in 2010; 2nd Interim Credit Release was in 2013; 3rd Interim Credit Release was in 2018; 4th Interim Credit Release was in 2023. The Final Credit Release will be requested upon attainment of final success criteria as described in Specific Condition 22 of the FDEP permit. To facilitate effective management of the site and to comply with differing USACE and FDEP credit assessment methodologies, the SHLMB is divided into Management Unit polygons for management prescriptions (Figure 3), UMAM¹ polygons for FDEP credit assessment (Figure 4), and WRAP² polygons for USACE credit assessment (Figure 5).

Prior to 2023, annual fall vegetation monitoring of the SHLMB (Specific Condition 26, FDEP permit) was conducted by Northwest Florida Water Management District (NWFWMD) staff. In 2023, annual vegetation monitoring was conducted by Florida Natural Areas Inventory (FNAI) staff under NWFWMD Contract 24-012 (Appendix A).

The semiannual report (Specific Condition 27, FDEP Permit) for the period July – December 2023, as allowed by Specific Condition 28 of the FDEP Permit, is included as an attachment to this annual report (Appendix B).

Water level staff gage readings (2006 – 2023) are reported in Appendix C.

¹ Uniform Mitigation Assessment Method.

² Wetland Rapid Assessment Procedure.

Annual panoramic monitoring photos (Specific Condition 26, FDEP permit), taken 2006 – 2023 at approved points, are available online at https://nwfwater.com/water-resources/regional-wetlandmitigation-program/regional-mitigation-plan/nwfwmd-mitigation-sites/choctawhatchee-watershedmitigation-sites/sand-hill-lakes-mitigation-bank/panoramic-photos/. In Appendix D attached, panoramic photos from 2006 and 2023 are shown.

Certification:

We certify, to the best of our knowledge, that this report represents a true and accurate description of the activities and site conditions at the time of this report.

Robert F. Lide

Robert F. Lide, Senior Environmental Scientist, QMS Team Member 23 January 2024

Philip Garrett
Philip Garrett, Senior Environmental Scientist, QMS Team Member

23 January 2024

Coakley Taylor
Coakley Taylor, Lands Manager, QMS Team Member

23 January 2024

Contents

	Executive Summary	
	Work Activity Schedule and Completion Date	1
	Hydrologic Enhancements	5
	Fire Management	8
	Site Management and Maintenance (Exotic and/or Invasive Vegetation and Fauna; Nuisance Vegetation; Fencing; Security; Public Use Data)	10
	Water Level Staff Gages	15
	Appendix A (Quantitative and Qualitative Vegetation Monitoring)	⊅
	Appendix B (July – December 2023 Semiannual Report)	B
	Appendix C (Water Level Staff Gage Readings)	0
	Appendix D (Panoramic Photo Monitoring)	D
igur	e 1. Location Map (from 2005 FDEP Permit)	i\
igur	e 2. Generalized land Cover	۰۰۰۰۰ ۱
igur	e 3. Management Units	v
igur	e 4. UMAM Polygons	vi
igur	e 5. WRAP Polygons	vii
igur	e 6. Hydrologic Enhancements	6
igur	e 7. Erosion Stabilization	7
igur	e 8. Prescribed Fire 2023	9
igur	e 9. Exotic Vegetation Treatment Areas	11
igur	e 10. Feral Hog Damage Areas	12
igur	e 11. Nuisance Shrub Treatment Areas	13
igur	e 12. Perimeter Fencing Inspection	14
igur	e 13. Water Level Staff Gages	16
Γable	2 1. Work Activity Schedule (adapted from Specific Condition 14, FDEP Permit)	1

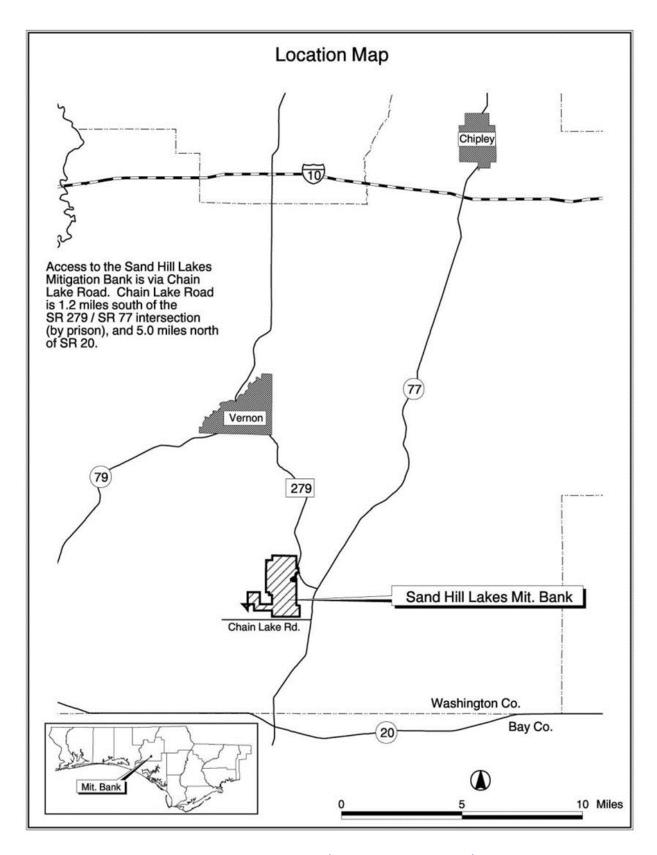


FIGURE 1. LOCATION MAP (FROM 2005 FDEP PERMIT)

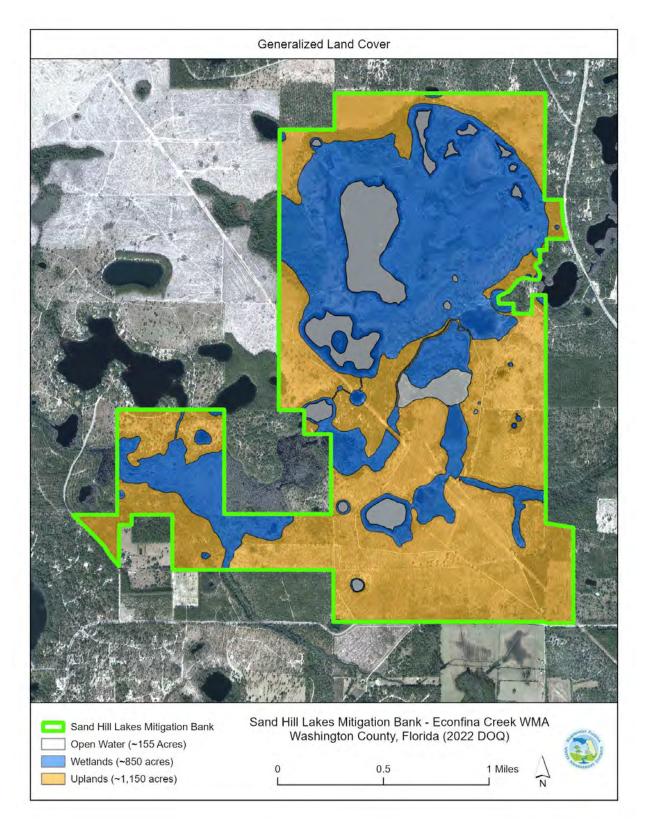


FIGURE 2. GENERALIZED LAND COVER

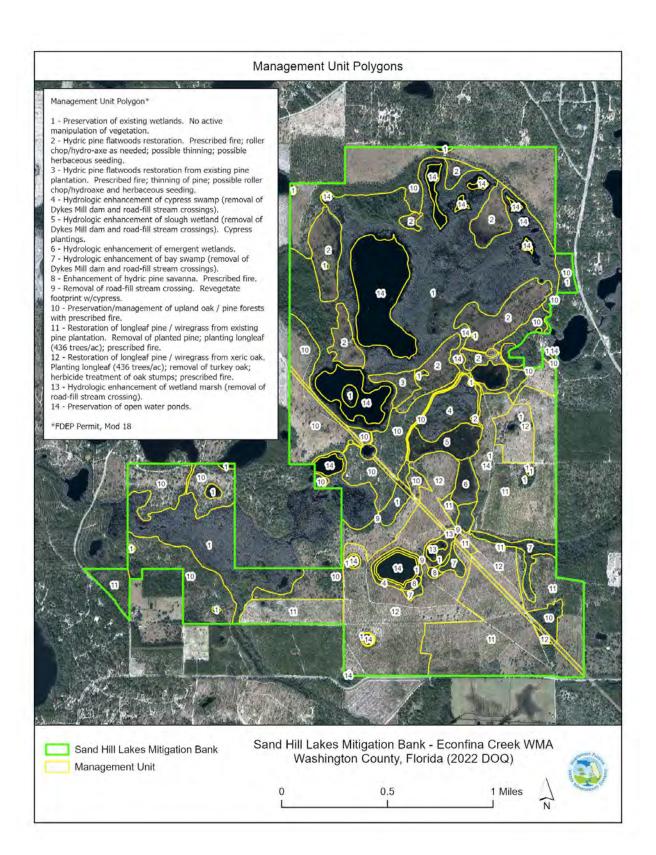


FIGURE 3. MANAGEMENT UNITS

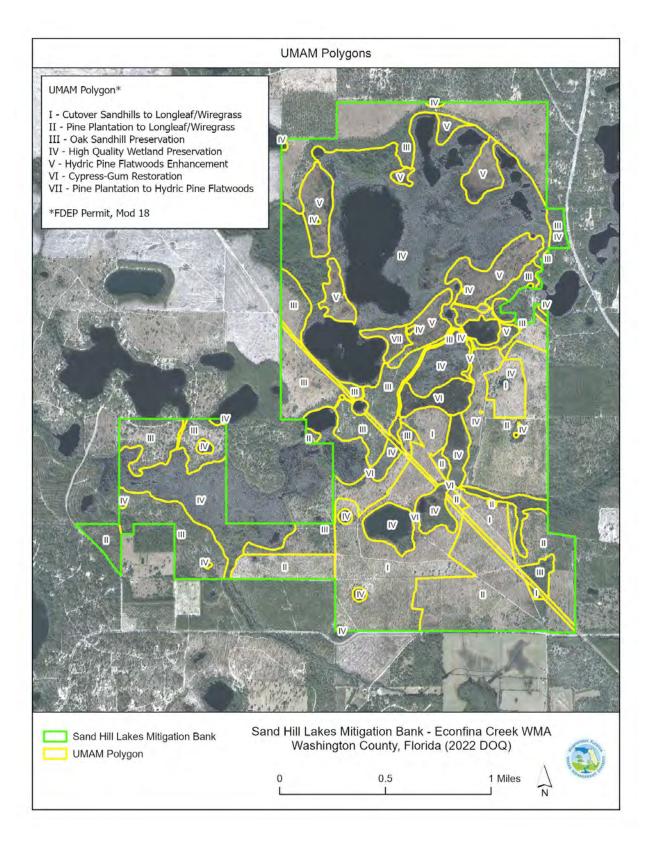


FIGURE 4. UMAM POLYGONS

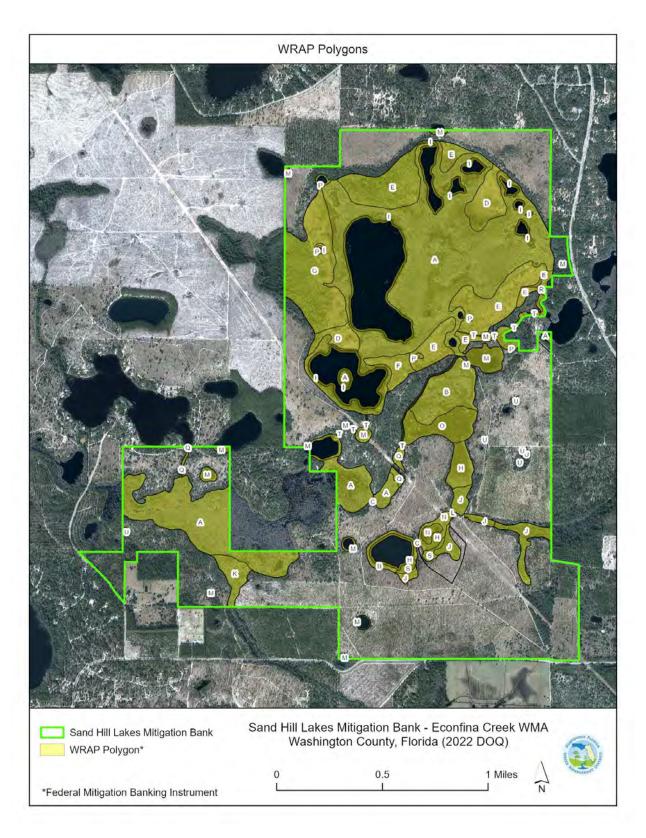


FIGURE 5. WRAP POLYGONS

Work Activity Schedule and Completion Date Specific Condition 14 (FDEP Permit)

TABLE 1. WORK ACTIVITY SCHEDULE (ADAPTED FROM SPECIFIC CONDITION 14, FDEP PERMIT)

Activity	Completion Date
Conservation Easement, QMS	2006
Fencing and signage of site.	2005
Site security / law enforcement / internal gating / road closures.	Ongoing
Stabilization of 10 erosion sites.	2007
Hydrologic enhancements:	
-Replacement of Black Pond dam	2008
-Removal of Dykes Mill Pond dam	2006
-Removal of road-fill at 3 sites	2007
-Construction of 3 bridges and 2 box culverts	2007
Removal of pine plantation and replanting with longleaf pine.	*2007 (Initial Completion) *2012 (Additional thinning of Management Unit 3; Eradication of sand pine volunteers on 158 acres of former sand pine plantation)

Activity	Completion Date
Removal of oak overgrowth and replanting with longleaf pine.	*2005 (Longleaf pine planted) *2006 (Initial oak removal) *2007 (Additional longleaf pine planted) *2009 (Additional oak removal) *2010 (Oak/shrub reduction on 150 acres) *2011 (Additional oak removal) 2012 (Additional oak removal in 40 acres of sandhill restoration area)
80% completion of initial growing-season burns in areas to be maintained as oak / pine community.	2005
Initial thinning, roller chopping, and fuel-reduction burns in hydric pine.	*2005 (Initial burns) *2007 (Thinning of pine) *2008 (Shrub reduction via Gyro-trac)

Activity	Completion Date
Supplemental wiregrass seeding if necessitated by onsite conditions.	*2012 (Initial work completed)
To date within the 163.88 acres of hydric pine flatwoods restoration site, 1.18 million wiregrass plugs, 182,700 cut over muhly grass, 122,600 tooth ache grass and 72,600 mixed hydric pine flatwoods wildflowers have been established in the hydric pine flatwoods restoration area in accordance with Specific Condition 10. Road fill removal areas were planted with sapling cypress and black gum and shrub species in 2009 in accordance with Specific Condition 10.	*2017 (Supplemental planting) *2021 (Supplemental planting) *Additional supplemental plantings may occur as conditions warrant)
A total of 646 acres of sandhill and sandhill restoration were planted with longleaf pine at a rate of 436 trees per acre in accordance with Specific Condition 10.	
A total of 454.5 acres of sandhill understory was restored by planting wiregrass on 3' centers (2,199,780 plants).	
In 2017, 32,000 plants from 20 sandhill species grown from seed collected at the SHLMB were installed in sandhill restoration.	
In 2021, 12 acres of sandhill restoration east of Dykes Mill Pond were planted with 8 sandhill species on 6' centers.	
Installation of water level gages.	2005
Baseline assessment of vegetation.	2006
Fire Management / Baseline Monitoring / 1 st Annual Report	2006
Fire Management / Monitoring Year 1 / 2nd Annual Report	2007
Fire Management / Monitoring Year 2/ 3rd Annual Report	2008
Fire Management / Monitoring Year 3 / 4th Annual Report	2009
Fire Management / Monitoring Year 4 / 5th Annual Report	2010
Fire Management / Monitoring Year 5 / 6th Annual Report	2011

Activity	Completion Date
Fire Management / Monitoring Year 6 / 7th Annual Report	2012
Fire Management / Monitoring Year 7 / 8th Annual Report	2013
Fire Management / Monitoring Year 8 / 9th Annual Report	2014
Fire Management / Monitoring Year 9/ 10th Annual Report	2015
Fire Management / Monitoring Year 10 /11th Annual Report	2017
Fire Management / Monitoring Year 11 /12th Annual Report	2018
Fire Management / Monitoring Year 12 /13th Annual Report	2019
Fire Management / Monitoring Year 13 /14th Annual Report	2020
Fire Management / Monitoring Year 14 /15th Annual Report	2021
Fire Management/ Monitoring Year 15 / 16TH Annual Report	2022
Fire Management/ Monitoring Year 16 / 17th Annual Report	2023
Fire Management/ Monitoring Year 17 / 18th Annual Report	2024
Perpetual Ecological Management	Perpetual

Hydrologic Enhancements

Specific Condition 12 (FDEP Permit)

Hydrologic enhancements (Figure 6) included replacement of the failed Black Pond Dam, removal of the Dykes Mill Pond Dam, removal of road-fill at three sites (Pine Log Creek; Deep Edge Pond; Little Deep Edge Pond), construction of bridges at two sites (Dykes Mill Pond and Joiner Ditch), and construction of two box culverts (Power Line Pond; Green Ponds Channel). Per permit conditions, a boat ramp on the west side of Dry Pond was rehabilitated and ten erosion sites (Figure 7) were stabilized. All hydrologic enhancements (structures, road-fill removals, erosion stabilization areas) continue to function as designed.

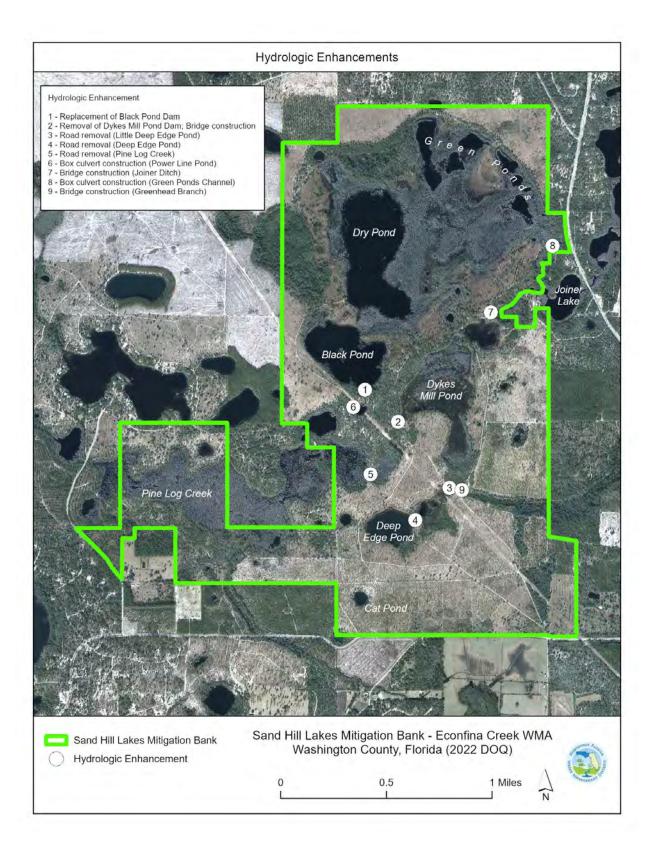


FIGURE 6. HYDROLOGIC ENHANCEMENTS

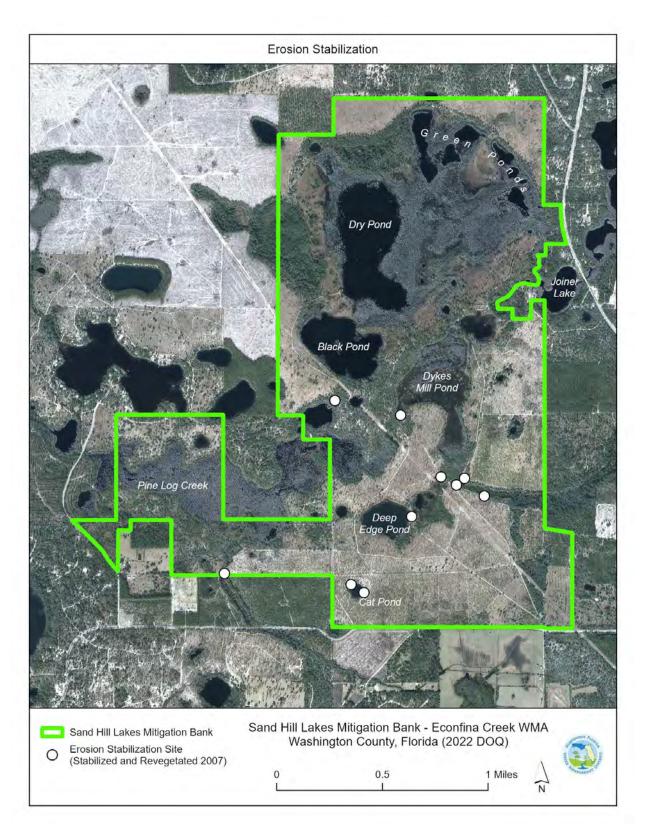


FIGURE 7. EROSION STABILIZATION

Fire Management

Specific Condition 11 (FDEP Permit)

Prescribed fire, reintroduced in the fall of 2004, is an integral component of the management, enhancement, and restoration at the SHLMB. Sandhill habitat (longleaf pine / wiregrass) is burned on a targeted two-year cycle, whereas hydric pine flatwoods have been burned annually since 2019. From December 2022 to May 2023, approximately 1,250 acres (Figure 8) were burned (~585 acres of dormant-season burns conducted December 2022; ~665 acres of growing-season burns conducted March – May 2023).

Fire will continue to be implemented in 2024 and beyond per permit conditions, fuel loads, and site conditions. Fire prescriptions are written in compliance with Chapter 590, Florida Statutes; all fires are implemented and supervised by a Florida Certified Prescribed Burn Manager.

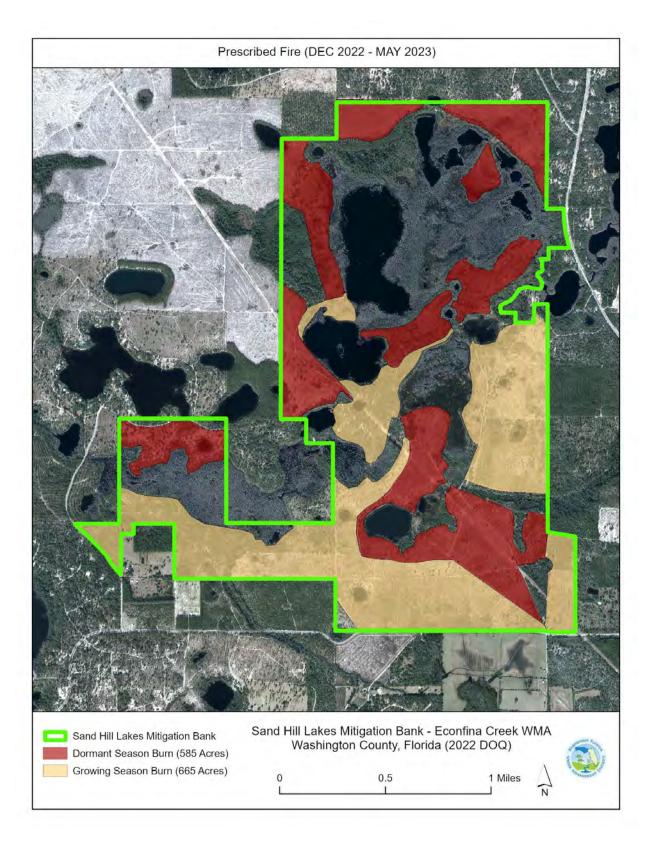


FIGURE 8. PRESCRIBED FIRE 2023

Site Management and Maintenance (Exotic and/or Invasive Vegetation and Fauna; Nuisance Vegetation; Fencing; Security; Public Use Data)

Specific Condition 25 (FDEP Permit)

Surveys of exotic and/or invasive vegetation are conducted throughout the year. In 2023, minor occurrences of exotic vegetation (including cogongrass) were identified and treated with herbicides (Figure 9). Surveys shall continue in 2024.

Damage to restoration areas by feral hogs was observed in 2023 (Figure 10). A contract is being negotiated with the US Department of Agriculture, Animal and Plant Health Inspection Service (APHIS) to implement a hog management plan in 2024.

On approximately 99 acres of hydric pine flatwoods, nuisance shrubs were spot treated in 2023 with herbicides to maintain shrub cover at or below 5% (Figure 11). Shrub cover will continue to be quantitatively monitored on an annual basis to identify any area in need to treatment to stay within permit conditions.

Perimeter fencing is inspected in accordance with permit conditions. The most recent inspection revealed 13 locations where minor fence repairs (i.e., minor holes; limbs or small trees downed on fence) are required (Figure 12). Repairs will be made, and inspections shall continue in 2024.

The NWFWMD maintains a cooperative agreement with the Florida Fish and Wildlife Conservation Commission (FWC) to manage public access and site security (limited hunting, fishing, other passive public usage, patrols); collect biological data on harvested game and fish; monitor hunting and fishing pressures on natural resources; man a Check Station on all days the site is open to the public; and other duties such as keeping management access roads mowed. A five-year renewal of the current contract is anticipated to be executed in 2024. The most recent FWC report is available online at https://nwfwater.com/water-resources/regional-wetland-mitigation-sites/sand-hill-lakes-mitigation-bank/fwc-reports/.

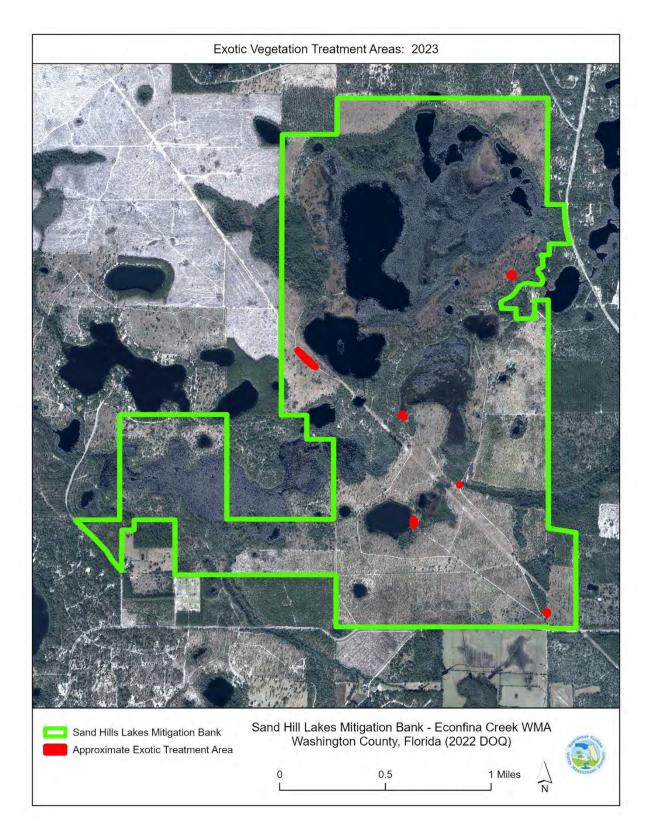


FIGURE 9. EXOTIC VEGETATION TREATMENT AREAS

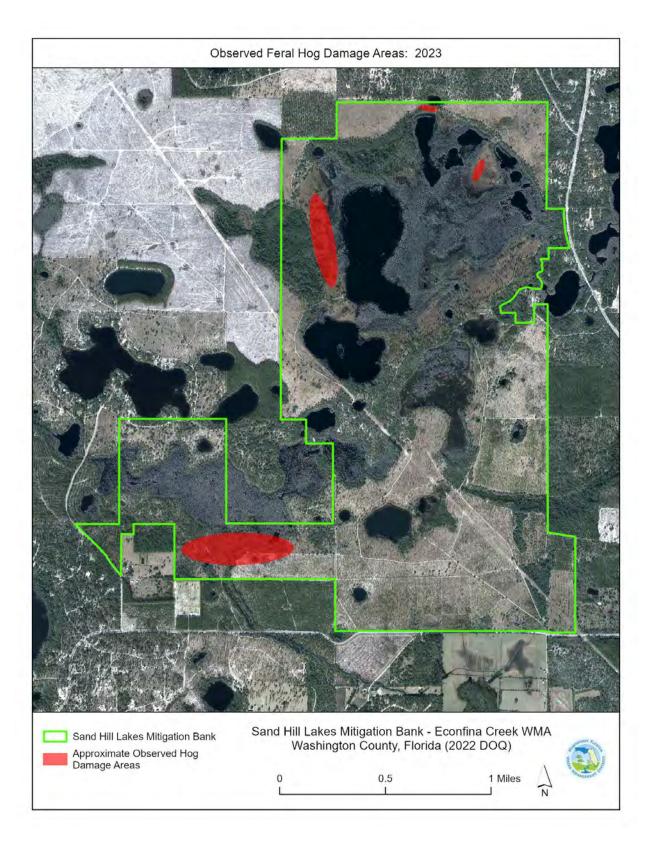


FIGURE 10. FERAL HOG DAMAGE AREAS

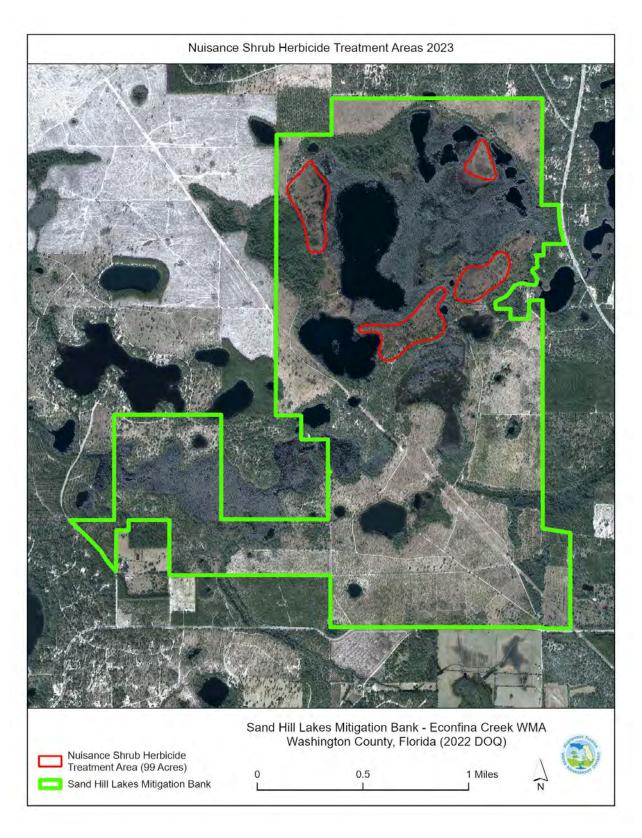


FIGURE 11. NUISANCE SHRUB TREATMENT AREAS

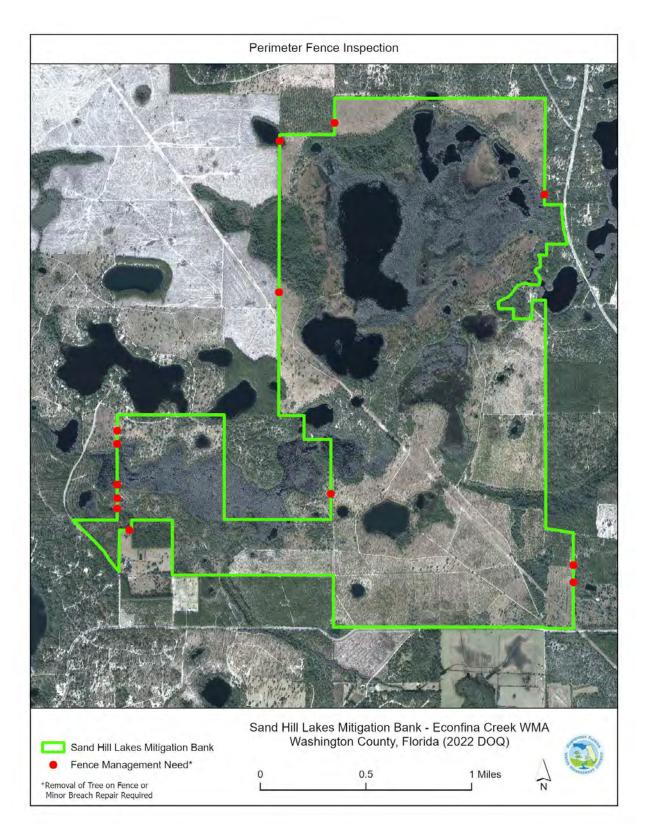


FIGURE 12. PERIMETER FENCING INSPECTION

Water Level Staff Gages

Specific Condition 12 (FDEP Permit)

Water level gages were installed at 10 locations in 2005 and are read monthly by Florida Fish and Wildlife Conservation Commission (FWC) staff (Figure 7). Data are reported in Appendix C.

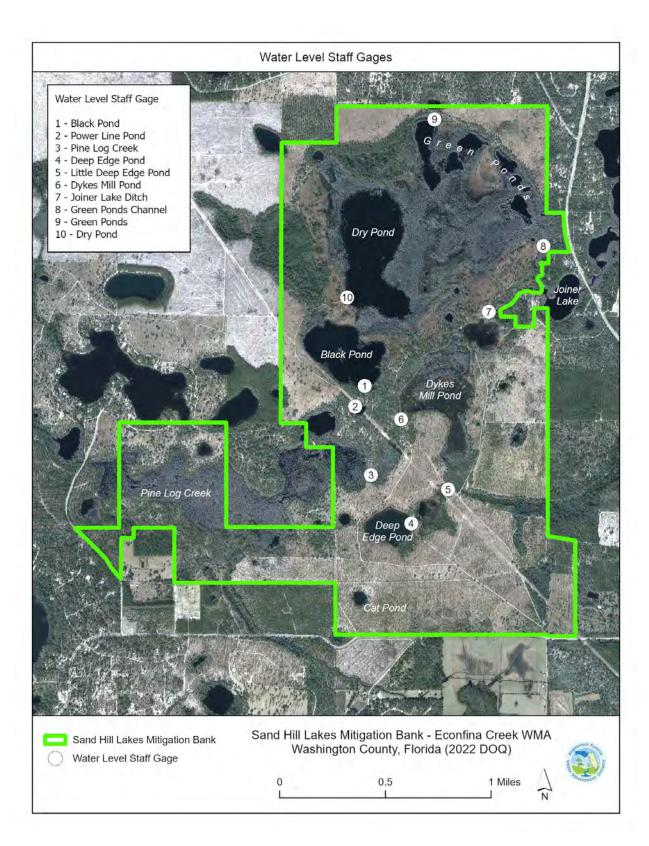


FIGURE 13. WATER LEVEL STAFF GAGES

Appendix A (Quantitative and Qualitative Vegetation Monitoring)

Vegetation Monitoring at Sand Hill Lakes Mitigation Bank Northwest Florida Water Management District

Fall 2023

Kimberely Alexander
Allie Heiker
Ethan Hughes
Amy Jenkins

Florida Natural Area Inventory 1018 Thomasville Road, Suite 200-C Tallahassee, FL 32303 Frank Price, Director

ANNUAL MONITORING INTRODUCTION

Annual fall vegetation monitoring of the Sand Hill Lakes Mitigation Bank (SHLMB) was conducted October/November 2023, by the Florida Natural Areas Inventory (FNAI). Prior to 2023, site vegetation was monitored by Northwest Florida Water Management District (NWFWMD) staff. This report complies with Specific Condition 26 of FDEP Permit 0227351-001 (issued 9/6/2005).

Quantitative and qualitative monitoring was used to document the current plant species composition and vegetation structure of different habitats, and belt transects were used to measure longleaf pine (*Pinus palustris*) seedling survival in sandhill restoration and enhancement areas. Fall monitoring methods and data analysis are described below. Pedestrian surveys were conducted for both wetland and uplands. The pedestrian surveys are particularly useful in providing detailed species lists and help in determining community diversity. Species diversity is good to excellent throughout the SHLMB and is significantly higher than baseline.

The dates of annual sampling for the 2023 annual report were October 31 to November 2, and November 6 to November 8. All quantitative and qualitative sampling was completed by FNAI botanists Kim Alexander, Allie Heiker, Amy Jenkins, and Ethan Hughes. Philip Garrett (NWFWMD) accompanied FNAI on several surveys and assisted with access. Plant taxonomy throughout this monitoring report follows Wunderlin, R. P., B.F. Hansen, A.R. Franck, and F.B. Essig. 2017. Atlas of Florida Plants (htpp://florida.plantatlas.usf.edu/), Institute for Systematic Botany, University of South Florida, Tampa.

QUANTITATIVE MONITORING

METHODS

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

Percent vegetation cover was monitored at transect locations shown in Figure 1. One-meter square quadrats were established along 600-foot transects at 20-foot intervals. The start point of each transect is a permanent marker, and the approximate transect bearing was determined from prior monitoring reports. A 300-foot tape measure was used to establish the transect, taken in two parts. Quadrats were taken beginning at 20 feet and were always located along the left side of the tape. Data recorded in each quadrat consisted of the visually estimated percent cover of each plant species including individuals rooted in the the quadrat as well as overhanging. Cover was estimated using a modified Daubenmire cover scale with 8 categories. Canopy over 2 m in height was excluded from cover estimates. Only the lower 2 m portions of larger individuals were counted as cover, including the lower portions of tree trunks rooted in quadrats. Bare ground was estimated in each quadrat as a percentage of ground not obscured by plant cover. Plant cover estimates were converted to mid-point values and

averaged across each transect. Relative cover (in which all plant cover and bare ground is given as a proportion of 100 percent cover) was also calculated and is reported in separate charts.

To measure the success of longleaf pine plantings in Sandhill restoration and enhancement areas, trees were measured using the "line strip" (belt transect) technique. Belt transects measuring 30 feet by 600 feet were co-located along each sandhill quantitative transect, using the measuring tape as the center line. All trees with a measurable diameter at breast height (DBH) were counted. The height of each tree was measured using a range finder, and a measuring tape was used to record DBH. Values are reported as a tally by height class.

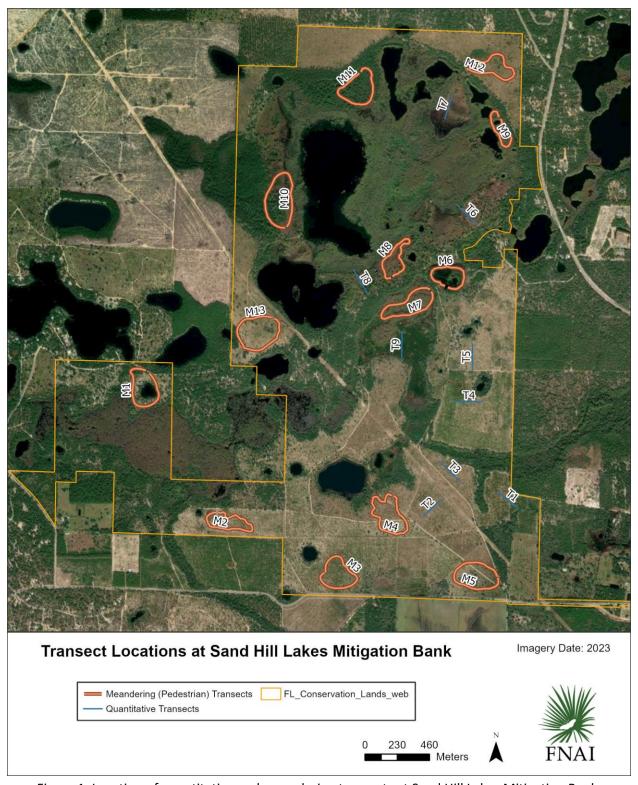


Figure 1. Location of quantitative and meandering transects at Sand Hill Lakes Mitigation Bank.

RESULTS AND DISCUSSION

Management Unit 11, UMAM Polygon II, Sand Pine Plantation (Transects T1, T2 and T4)

UMAM Polygon II, Management Unit 11, consists of 382.16 acres of planted sand pine plantation that have been restored to sandhills (longleaf pine / wiregrass community). Baseline conditions indicated a sand pine canopy with 100 percent canopy closure and an average of 880 sand pine trees per acre in the sand pine plantations. Removal of the sand pine was completed in November 2007 followed by planting of longleaf pine at 436 trees per acre. In 2021, eight sandhill species (145,450 plugs) were planted in the sandhill adjacent to Little Deep Edge Pond with the goal of augmenting the developing sandhill diversity.

Quantitative Transects

Baseline herbaceous monitoring identified 10 species within Transect T1, 16 in Transect T2, and 20 in Transect T4.

During the 2022 monitoring, 13 species were observed in Transect T1, 11 in Transect T2 and 22 within Transect T4. Wiregrass had the greatest vegetative cover for each transect ranging from 65.5 percent in Transect T1 to 42 percent in Transect T2. Bare ground ranged from 15.2 percent in Transect T2 to 35.8 percent in Transect T4.

During the 2023 monitoring, 50 species were observed in Transect T1, 47 in Transect T2, and 43 in Transect T4 (Tables 1-3; Figures 2-4). Wiregrass had the greatest vegetative cover for each transect ranging from 52 percent in Transect T4 to 23 percent in Transect T2. Bare ground ranged from 20 percent in Transect T1 to 50 percent in Transect T2. Woody cover was low, ranging from 7 percent in Transect T4 to 11 percent in Transect T1.

Interim Success Criteria:

The sand pine plantations were harvested in 2007. Site preparation burns were conducted during the winter of 2008 and planted with longleaf pine in the winter of 2008-2009. Wiregrass plugs were planted on 3-foot centers in the former sand pine plantations in 2008 and completed in 2010. The area is burned on a targeted two-year rotation. Wiregrass cover continues to be the dominant species. On average, planted longleaf pine densities remain near or below 200 trees per acre. Trees are healthy and vigorous, although there has been some loss of young trees along Transect T1. Bahia and centipede grass cover continues to be monitored and treated as needed. Only small amounts of these pasture grasses were seen along the transects.

Table 1. Percent cover of plant species in Transect T1 - Sandhill Restoration sampled on November 8, 2023.

Scientific name	Common name	Average percent cover per quadrat
Acalypha gracilens	slender threeseed mercury	0.12
Agalinis sp.	false foxglove	0.02
Andropogon gyrans	Elliott's bluestem	0.47
Andropogon sp.	bluestem	0.02
Andropogon virginicus	broomsedge bluestem	0.67
Aristida purpurascens	arrowfeather threeawn	1.05
Aristida sp.	threeawn	0.07
Aristida stricta	wiregrass	42.53
Asteraceae		0.02
Balduina angustifolia	coastalplain honeycomb-head	0.02
Baptisia lanceolata	gopherweed	0.02
Bulbostylis ciliatifolia	capillary hairsedge	0.03
Callicarpa americana	American beautyberry	0.60
Carphephorus odoratissimus	vanillaleaf	0.05
Chrysoma pauciflosculosa	woody goldenrod	0.58
Chrysopsis lanuginosa	Lynn Haven goldenaster	0.97
Coleataenia anceps	beaked panicum	0.13
Croton glandulosus	vente conmigo	0.07
Cyperus sp.	flatsedge	0.73
Desmodium lineatum	sand tick-trefoil	0.12
Dichanthelium aciculare	needleleaf witchgrass	0.40
Dichanthelium sp.	witchgrass	0.37
Dichanthelium strigosum	roughhair witchgrass	0.23
Digitaria filiformis var. filiformis	slender crabgrass	0.47
Diodia teres	poor joe	0.02
Eremochloa ophiuroides	centipede grass	2.50
Eupatorium compositifolium	yankeeweed	2.65
Euphorbia exserta	coastal sand spurge	0.02
Euphorbia sp.	spurge	0.05
Galactia sp.	milkpea	0.80
Hieracium gronovii	queen-devil	0.02
Hypericum gentianoides	orangegrass	0.20
llex vomitoria	yaupon	0.25
Lespedeza hirta	hairy lespedeza	0.58
Muhlenbergia capillaris	hairawn muhly	0.25
Opuntia humifusa	pricklypear	0.22
Paronychia rugelii	Rugel's nailwort	0.02
Paspalum setaceum	thin paspalum	0.03
Physalis sp.	groundcherry	0.02
Pinus elliottii	slash pine	0.02
Pinus palustris	longleaf pine	0.25
Pityopsis aspera	pineland silkgrass	1.68
Quercus hemisphaerica	laurel oak	1.45
Rubus cuneifolius	sand blackberry	7.58
Schizachyrium stoloniferum	creeping little bluestem	2.83

Scientific name	Common name	Average percent cover per quadrat
Smilax auriculata	earleaf greenbrier	0.07
Stylisma sp.	dawnflower	0.03
Tragia urens	wavyleaf noseburn	0.03
Vaccinium arboreum	sparkleberry	0.02
Yucca filamentosa	Adam's needle	0.02
Bare Ground		19.87

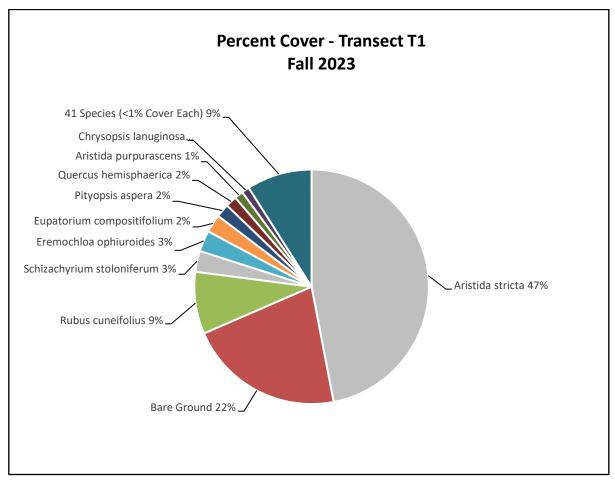


Figure 2. Percent relative cover of plant species in Transect T1 - Sandhill Restoration.

Table 2. Percent cover of plant species in Transect T2 - Sandhill Restoration sampled on November 7, 2023.

Scientific name	Common name	Average percent cover per quadrat
Agalinis divaricata	pineland false foxglove	0.27
Andropogon gyrans	Elliott's bluestem	0.02
Andropogon sp.	bluestem	0.65
Andropogon ternarius	splitbeard bluestem	0.03
Andropogon virginicus	broomsedge bluestem	0.05
Aristida purpurascens var. tenuispica	Hillsboro threeawn	0.07
Aristida stricta	wiregrass	23.03
Balduina angustifolia	coastalplain honeycomb-head	1.15
Bulbostylis ciliatifolia	capillary hairsedge	1.08
Bulbostylis stenophylla	sandyfield hairsedge	0.02
Chrysoma pauciflosculosa	woody goldenrod	2.03
Chrysopsis lanuginosa	Lynn Haven goldenaster	0.78
Cyperus sp.	flatsedge	0.02
Dalea pinnata	summer farewell	0.02
Dichanthelium aciculare	needleleaf witchgrass	0.58
Dichanthelium ovale	eggleaf witchgrass	0.02
Dichanthelium sp.	witchgrass	0.63
Eragrostis sp.	lovegrass	0.30
Eriogonum tomentosum	dogtongue wild buckwheat	0.05
Eupatorium compositifolium	yankeeweed	0.38
Euphorbia exserta	coastal sand spurge	0.03
Galactia sp.	milkpea	0.22
Gaylussacia dumosa	dwarf huckleberry	0.40
Hypericum gentianoides	orangegrass	0.15
Ilex vomitoria	yaupon	2.20
Lechea sessiliflora	pineland pinweed	0.47
Liatris gracilis	slender gayfeather	0.05
Liatris gracins Liatris tenuifolia	shortleaf gayfeather	0.03
Lupinus sp.	lupine	0.07
Mimosa quadrivalvis	sensitive brier	0.12
Opuntia humifusa		
•	pricklypear	0.03
Pinus palustris	longleaf pine	0.23
Pityopsis aspera	pineland silkgrass	
Polygonella gracilis	tall jointweed	0.03
Pteridium aquilinum	bracken	0.02
Quercus geminata	sand live oak	0.02
Quercus incana	bluejack oak	0.02
Quercus laevis	turkey oak	2.80
Rhynchosia cytisoides	royal snoutbean	0.02
Schizachyrium sanguineum	crimson bluestem	0.58
Schizachyrium sp.	little bluestem	0.73
Schizachyrium stoloniferum	creeping little bluestem	0.68
Solidago odora	anisescented goldenrod	0.33
Stylisma sp.	dawnflower	0.20
Tephrosia chrysophylla	scurf hoary-pea	0.02
Vaccinium arboreum	sparkleberry	0.02
Vaccinium elliottii	Elliott's blueberry	0.02

Scientific name	Common name	Average percent cover per quadrat
Bare Ground		50.17

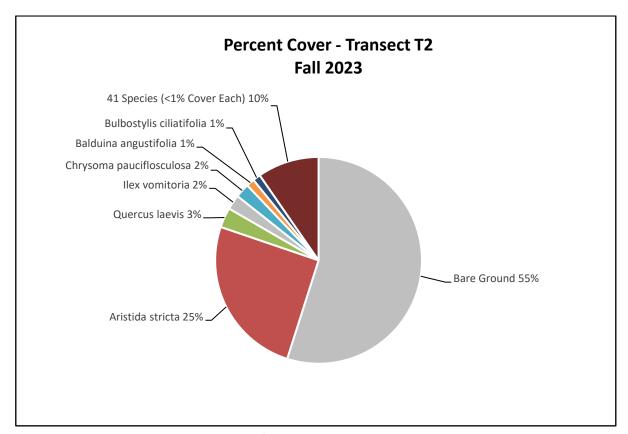


Figure 3. Percent relative cover of plant species in Transect T2 - Sandhill Restoration.

Table 3. Percent cover of plant species in Transect T4 - Sandhill Restoration sampled on November 6, 2023.

Scientific name	Common name	Average percent cover per quadrat
Andropogon sp.	bluestem	0.17
Aristida stricta	wiregrass	52.17
Baptisia lanceolata	gopherweed	0.12
Bulbostylis ciliatifolia	capillary hairsedge	0.35
Chrysoma pauciflosculosa	woody goldenrod	0.38
Crocanthemum carolinianum	Carolina frostweed	0.02
Crotalaria rotundifolia	rabbitbells	0.38
Cyperus sp.	flatsedge	0.43
Desmodium lineatum	sand tick-trefoil	0.07
Dichanthelium aciculare	needleleaf witchgrass	0.50
Dichanthelium sp.	witchgrass	0.12
Diodia teres	poor joe	1.43
Diospyros virginiana	common persimmon	0.28
Eupatorium compositifolium	yankeeweed	0.60
Euphorbia curtisii	Curtis' spurge	0.02
Fabaceae		0.02
Froelichia floridana	cottonweed	0.12
Galactia sp.	milkpea	1.55
Houstonia procumbens	roundleaf bluet	0.35
llex vomitoria	yaupon	0.05
Lechea sessiliflora	pineland pinweed	0.72
Liatris tenuifolia	shortleaf gayfeather	0.02
Mimosa quadrivalvis	sensitive brier	0.07
Opuntia humifusa	pricklypear	0.18
Paspalum notatum	bahiagrass	0.40
Paspalum setaceum	thin paspalum	0.07
Penstemon multiflorus	manyflower beardtongue	1.02
Pinus palustris	longleaf pine	0.52
Pityopsis aspera	pineland silkgrass	0.07
Pityopsis graminifolia	narrowleaf silkgrass	0.02
Quercus geminata	sand live oak	1.25
Rhynchosia cytisoides	royal snoutbean	0.42
Rhynchospora sp.	beaksedge	0.02
Rubus cuneifolius	sand blackberry	2.55
Smilax auriculata	earleaf greenbrier	0.22
Stylisma sp.	dawnflower	0.13
Stylosanthes biflora	sidebeak pencil flower	0.02
Tephrosia chrysophylla	scurf hoary-pea	0.38
Tephrosia mohrii	pineland hoary-pea	0.05
Tragia urens	wavyleaf noseburn	0.03
Vaccinium elliottii	Elliott's blueberry	0.05
Vaccinium stamineum	deerberry	0.02
Yucca filamentosa	Adam's needle	1.42
Bare Ground		41.70

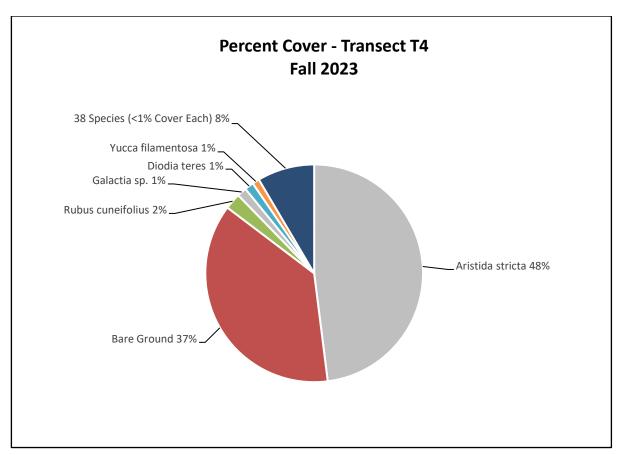


Figure 4. Percent relative cover of plant species in Transect T4 - Sandhill Restoration.

Planted Longleaf Pine Seedlings

Planted tree densities were determined by counting all the seedlings in a 30' X 600' belt transect co-located with and centered along each quantitative transect. The resulting total was then converted to trees per acre. All trees with a measurable diameter at breast height (DBH) were counted. The height of each tree was measured using a range finder, and a measuring tape was used to record DBH.

In 2023, the survival of longleaf pine seedlings along each transect was observed to be trees between 87 and 264 trees per acre. Overall health of the planted seedlings was excellent. Trees averaged 22 feet in height, and the average DBH was 4.4 inches (Figures 5-7).

Hardwood species and standing dead trees in each belt transect as well as longleaf pine seedlings were also noted. Transect T1 had 2 hardwoods, 23 dead longleaf pines, and no longleaf pine seedlings. Transect T2 had 24 hardwoods (all sandhill oaks, i.e., turkey and bluejack), 3 dead longleaf pines, and 1 longleaf pine seedling. Transect 4 had 6 dead longleaf pines and no hardwoods or longleaf pine seedlings.

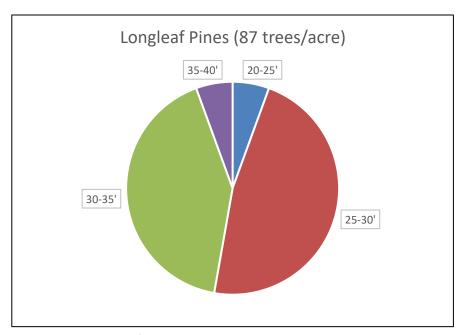


Figure 5. Longleaf Pine stems in Transect T1 - Sandhill Restoration.

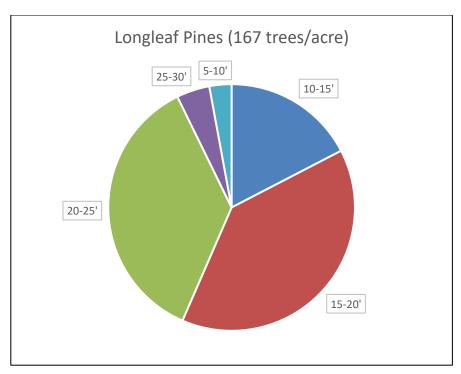


Figure 6. Longleaf Pine stems in Transect T2 - Sandhill Restoration.

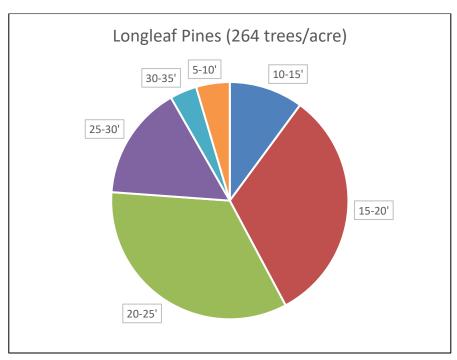


Figure 7. Longleaf Pine stems in Transect T4 - Sandhill Restoration.

Management Unit 12, UMAM Polygon I, Sandhill Enhancement (Transects T3 and T5)

UMAM Polygon I, Management Unit 12, consists of 263.52 acres. At the time of purchase, the sandhill overstory was dominated by turkey and live oaks with scattered remnant longleaf pine and an understory dominated by hardwood shrubs, woody goldenrod, wiregrass, and a variety of herbaceous species. Reclamation activities included reintroduction of fire, thinning of oaks to less than 150 trees per acre, and reestablishment of longleaf pine. Fire was reintroduced during the winter of 2004. Currently, longleaf pines dominate the overstory with scattered turkey, sand live oak, and bluejack oak. The understory is dominated by wiregrass.

Quantitative Transects

Baseline sampling indicated 23 species within Transect T3 and 31 species in Transect T5.

During the 2022 monitoring, 31 species were observed within Transect T3. A total of 21 species were observed within Transect T5. Wiregrass cover was the greatest cover class observed with 27.5 percent cover in Transect T3 and 52.8 percent within Transect T5. Bare ground cover was 34.3 percent within Transect T3 and 19 percent within Transect T5.

During the 2023 monitoring, 51 species were observed in Transect T3. A total of 45 species were observed in Transect T5 (Tables 4 and 5, Figures 8 and 9). Wiregrass cover was the greatest cover class observed with 19 percent cover in Transect T3 and 25 percent within Transect T5. Bare ground cover was 57 percent within Transect T3 and 43 percent within Transect T5. Woody cover was low, ranging from 11 percent in Transect T3 to 4 percent in Transect T5.

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 and longleaf pine have been planted. No nuisance or exotic species were observed, fire adapted species dominate the vegetative cover.

Table 4. Percent cover of plant species in Transect T3 - Sandhill Enhancement sampled on November 6-7, 2023.

Scientific name	Common name	Average percent cove per quadrat				
Agalinis divaricata	pineland false foxglove	0.68				
Andropogon ternarius	splitbeard bluestem	0.05				
Aristida stricta	wiregrass	18.50				
Balduina angustifolia	coastalplain honeycomb-head	2.58				
Baptisia lanceolata	gopherweed	0.10				
Bulbostylis ciliatifolia	capillary hairsedge	0.78				
Chrysoma pauciflosculosa	woody goldenrod	5.48				
Chrysopsis lanuginosa	Lynn Haven goldenaster	0.25				
Crotalaria rotundifolia	rabbitbells	0.02				
Croton argyranthemus	silver croton	0.03				
Cyperus filiculmis	wiry flatsedge	0.02				
Cyperus sp.	flatsedge	0.02				
Dalea pinnata	summer farewell	0.37				
Desmodium sp.	tick-trefoil	0.02				
Dichanthelium aciculare	needleleaf witchgrass	0.02				
Dichanthelium sp.	witchgrass	0.18				
Diodia teres	poor joe	0.02				
Diospyros virginiana	common persimmon	0.12				
Eriogonum tomentosum	dogtongue wild buckwheat	0.07				
Eupatorium compositifolium	yankeeweed	0.18				
Euphorbia curtisii	Curtis' spurge	0.02				
Galactia sp.	milkwort	0.10				
Gaylussacia dumosa	dwarf huckleberry	0.80				
Geobalanus oblongifolius	gopher apple	0.25				
Hypericum gentianoides	orangegrass	0.28				
Lechea sessiliflora	pineland pinweed	1.90				
Liatris gracilis	slender gayfeather	0.85				
Liatris tenuifolia	shortleaf gayfeather	0.12				
Mimosa quadrivalvis	sensitive brier	0.02				
Opuntia humifusa	pricklypear	0.08				
Paronychia rugelii	Rugel's nailwort	0.28				
Pinus palustris	longleaf pine	0.60				
Pityopsis aspera	pineland silkgrass	0.32				
Pityopsis sp.	silkgrass	0.05				
Polygala nana	candyroot	0.02				
Polygala rugelii	yellow milkwort	0.25				
Polygonella gracilis	tall jointweed	0.32				
Pteridium aquilinum	bracken	0.57				
Quercus incana	bluejack oak	0.25				
Quercus laevis	turkey oak	1.67				
Rhynchosia cytisoides	royal snoutbean	0.02				
Schizachyrium stoloniferum	creeping little bluestem	2.85				
Seymeria sp.	blacksenna	0.02				
Smilax auriculata	earleaf greenbrier	0.13				
Solidago odora	anisescented goldenrod	0.27				

Scientific name	Common name	Average percent cover per quadrat
Sporobolus junceus	pineywoods dropseed	0.12
Stylisma sp.	dawnflower	0.08
Tephrosia chrysophylla	scurf hoary-pea	0.13
Vaccinium darrowii	Darrow's blueberry	1.67
Vaccinium elliottii	Elliott's blueberry	0.05
Vaccinium myrsinites	shiny blueberry	0.08
Bare Ground		56.58

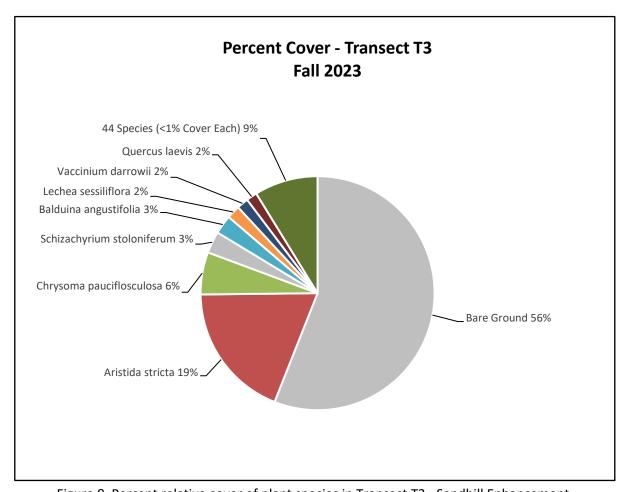


Figure 8. Percent relative cover of plant species in Transect T3 - Sandhill Enhancement.

Table 5. Percent cover of plant species in Transect T5 - Sandhill Enhancement sampled on November 2, 2023.

Scientific name	Common name	Average percent cove per quadrat					
Andropogon sp.	bluestem	0.12					
Andropogon ternarius	splitbeard bluestem	0.38					
Aristida stricta	wiregrass	24.63					
Asteraceae		0.02					
Bulbostylis ciliatifolia	capillary hairsedge	1.00					
Chamaecrista fasciculata	partridge pea	0.02					
Chrysoma pauciflosculosa	woody goldenrod	0.05					
Crataegus sp.	0.02						
Cyperus sp.	flatsedge	0.05					
Dichanthelium ovale	eggleaf witchgrass	0.28					
Dichanthelium sp.	witchgrass	0.02					
Diodia virginiana	Virginia buttonweed	0.05					
Diospyros virginiana	common persimmon	0.48					
Eriogonum tomentosum							
Eupatorium compositifolium	yankeeweed						
Froelichia floridana	cottonweed	0.12					
Galactia minor	leafy milkpea	0.02					
Geobalanus oblongifolius	gopher apple	0.68					
Hieracium gronovii	queen-devil	0.02					
Houstonia procumbens	roundleaf bluet	0.02					
llex glabra	gallberry	0.02					
llex vomitoria	yaupon	0.12					
Lechea sessiliflora	pineland pinweed	0.25					
Lespedeza hirta	hairy lespedeza	0.05					
Liatris chapmanii	Chapman's gayfeather	1.10					
Mimosa quadrivalvis	sensitive brier	0.12					
Opuntia humifusa	pricklypear	0.22					
Panicum sp.	panicgrass	0.05					
Panicum virgatum	switchgrass	0.25					
Penstemon multiflorus	manyflower beardtongue	0.05					
Pityopsis aspera	pineland silkgrass	2.08					
Polygala sp.	milkwort	0.02					
Pteridium aquilinum	bracken	0.53					
Quercus geminata	sand live oak	0.02					
Quercus incana	bluejack oak	1.57					
Quercus laevis	turkey oak	0.65					
Rhynchospora sp.	beaksedge	0.02					
Ruellia ciliosa	ciliate wild petunia	0.02					
Schizachyrium stoloniferum	creeping little bluestem	8.05					
Serenoa repens	saw palmetto	0.12					
Smilax auriculata	earleaf greenbrier	0.32					
Solidago odora	anisescented goldenrod	0.72					
Stylisma sp.	dawnflower	0.03					
Symphyotrichum concolor	eastern silver aster	0.92					
Tephrosia chrysophylla	scurf hoary-pea	0.12					

Scientific name	Common name	Average percent cover per quadrat
Bare Ground		43.42

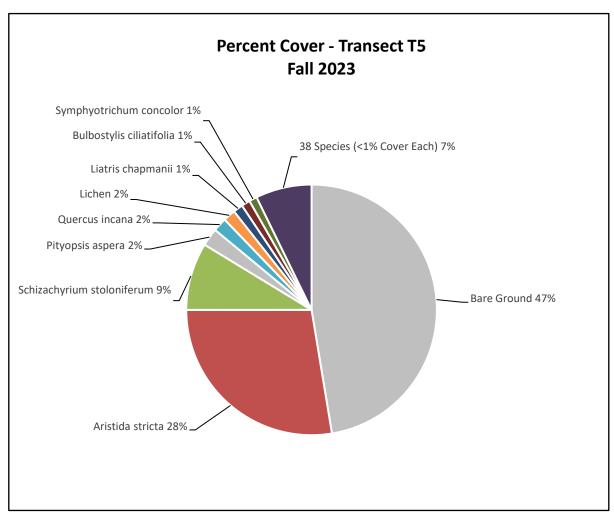


Figure 9. Percent relative cover of plant species in Transect T5 - Sandhill Enhancement.

Planted Longleaf Pine Seedlings

Longleaf pine seedlings were planted in the sandhills at a rate of 436 trees per acre.

In 2023, the survival of longleaf pine seedlings was 97 trees per acre in Transect T3 and 145 trees per acre in Transect T5. Overall health of the planted seedlings was excellent. Trees averaged 20 feet in height, and the average DBH was 3.7 inches (Figures 10 and 11).

Hardwood species and standing dead trees in each belt transect as well as longleaf pine seedlings were also noted. Transect T3 had 18 hardwoods (a mix of sandhill oaks, i.e., turkey, sand post, and bluejack, sand live oak, and persimmon), no dead longleaf pines, and 1 longleaf pine seedling. Transect T5 had 13 hardwoods (a mix of sandhill oaks, i.e., turkey and bluejack, and persimmon), no dead longleaf pines, and 2 longleaf pine seedlings.

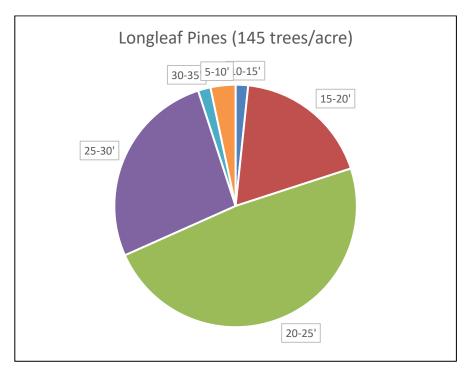


Figure 10. Longleaf Pine stems in Transect T3 – Sandhill Enhancement.

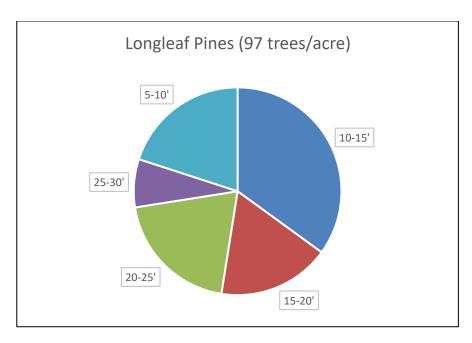


Figure 11. Longleaf Pine stems in Transect T5 – Sandhill Enhancement.

Management Unit 3, UMAM Polygon VII, Planted Slash Pine Plantation (Transect T8)

UMAM Polygon VII, Management Unit 3, consists of 11.53 acres of bedded planted slash pine restored to a hydric pine flatwood. The overstory was dominated by planted slash pine at 880 trees per acre. The shrub layer was well developed, and the understory largely absent due to the coverage of the trees and shrubs. Pines were thinned to 400 trees per acre in 2007. Trees were harvested again in 2012 to 200 trees per acre. Shrubs were eradicated using herbicide for two years. In winter 2012, wiregrass and toothache grass plugs were planted on three-foot centers. The restored slash pine plantation is burned annually starting in 2019.

Quantitative Transects

Baseline monitoring indicated a total of 17 species. Nine of the observed species were shrubs.

During the 2022 monitoring, 25 species were observed in Transect T8. The site diversity continues to improve as the site develops. Bare ground was low at 20.7 percent. Nuisance shrub species cover was 2.5 percent and herbaceous species cover was 96.5 percent cover.

During the 2023 monitoring, 51 species were observed in Transect T8 (Table 6, Figure 12). Weedy species such as purple bluestem are abundant, but wiregrass is consistently found along the transect, occurring in 17 of 30 quadrats. Bare ground cover was 42 percent. Woody cover was low, averaging just under 6 percent, yet less than 2 percent would be considered nuisance species (titi and vines).

Interim Success Criteria:

The management activities used to restore UMAM VII, Management Unit 3 have been completed. A diverse wet flatwoods understory continues to develop.

Table 6. Percent cover of plant species in Transect T8 - Hydric Pine Flatwoods Restoration sampled on November 1, 2023.

Scientific name	Common name	Average percent cove per quadrat			
Amphicarpum muehlenbergianum	blue maidencane				
Andropogon glomeratus var. glaucopsis	purple bluestem	9.12			
Andropogon sp.	bluestem	0.43			
Andropogon virginicus	broomsedge bluestem	0.63			
Aristida stricta	wiregrass	5.08			
Bidens mitis	smallfruit beggarticks	0.13			
Burmannia biflora	bluethread	0.02			
Calamovilfa curtissii	Curtiss' sandgrass	0.12			
Carphephorus odoratissimus	vanillaleaf	1.37			
Centella asiatica	spadeleaf	4.27			
Cliftonia monophylla	black titi	0.30			
Coleataenia anceps	beaked panicum	0.02			
Coleataenia longifolia	ciliate redtop panicum	0.47			
Ctenium aromaticum	toothache grass	0.85			
Cyperus sp.	flatsedge	0.07			
Cyrilla racemiflora	titi	1.02			
Dichanthelium ensifolium	cypress witchgrass	0.92			
Dichanthelium leucothrix	rough witchgrass	0.87			
Dichanthelium sp.	witchgrass	0.15			
Drosera capillaris	pink sundew	0.05			
Eubotrys racemosus	swamp doghobble	0.05			
Eupatorium mohrii	Mohr's thoroughwort	1.07			
Euthamia caroliniana	slender flattop goldenrod	0.92			
Fuirena scirpoidea	southern umbrellasedge	0.02			
Gaylussacia dumosa	dwarf huckleberry	0.02			
Gaylussacia mosieri	woolly huckleberry	0.25			
Hypericum cistifolium	roundpod St. John's wort	0.02			
Hypericum fasciculatum	peelbark St. John's wort	0.05			
Hypericum microsepalum	flatwoods St. John's wort	2.33			
Hypericum sp.	St. John's wort	0.02			
Hypericum tetrapetalum	fourpetal St. John's wort	0.02			
llex cassine var. myrtifolia	myrtle-leaved holly	0.37			
llex glabra	gallberry	0.37			
Juncus marginatus	grassleaf rush	0.20			
Juncus scirpoides	needlepod rush	0.02			
Kellochloa verrucosa	warty panicgrass	5.00			
Lachnanthes caroliana	Carolina redroot	0.88			
Lachnocaulon anceps	whitehead bogbutton	0.02			
Lechea sessiliflora	pineland pinweed	0.12			
Ludwigia maritima	seaside primrosewillow	0.03			
Lycopodiella alopecuroides	foxtail club-moss	0.57			
Oldenlandia uniflora	clustered mille graines	0.28			
Paspalum setaceum	thin paspalum	0.17			
Persea palustris	swamp bay	0.58			
Pinus elliottii	slash pine	0.13			

Scientific name	Common name	Average percent cover per quadrat
Poaceae		0.02
Polygala lutea	orange milkwort	0.02
Rhexia mariana	pale meadowbeauty	0.15
Rhexia petiolata	fringed meadowbeauty	0.03
Rhexia sp.	meadowbeauty	0.08
Rhynchospora chalarocephala	loosehead beaksedge	0.35
Rhynchospora fascicularis	fascicled beaksedge	0.82
Rhynchospora gracilenta	slender beaksedge	0.07
Rhynchospora sp.	beaksedge	1.05
Sabatia brevifolia	shortleaf rosegentian	0.03
Scleria reticularis	netted nutrush	0.05
Smilax auriculata	earleaf greenbrier	0.02
Solidago fistulosa	pinebarren goldenrod	2.12
Sphagnum sp.	sphagnum moss	2.38
Syngonanthus flavidulus	yellow hatpins	0.05
Vaccinium corymbosum	highbush blueberry	0.28
Woodwardia virginica	Virginia chain fern	0.25
Xyris brevifolia	shortleaf yellow-eyed grass	0.22
Xyris caroliniana	Carolina yellow-eyed grass	0.02
Xyris elliottii	Elliott's yellow-eyed grass	0.83
Xyris serotina	acid swamp yellow-eyed grass	0.05
Xyris sp.	yellow-eyed grass	0.07
Bare Ground		41.67

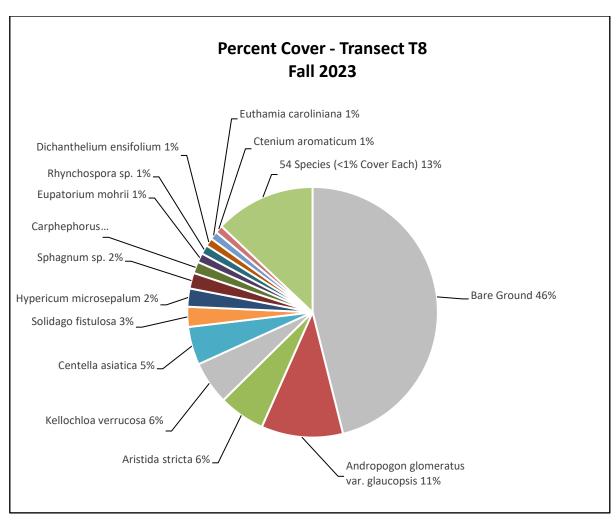


Figure 12. Percent relative cover of plant species in Transect T8 - Hydric Pine Flatwoods Restoration.

Management Unit 2, UMAM Polygon V, Hydric Pine Flatwoods (Transects T6 and T7)

UMAM Polygon V, Management Unit 2 consists of 163.88 acres of fire suppressed shrub dominated hydric pine flatwoods that have been restored to a hydric pine flatwood. The overstory was dominated by a near impenetrable shrub layer and absent herbaceous layer. Reclamation activities within this polygon included removal of shrub overstory utilizing a Gyro-Trac followed treatment with selective herbicides, re-introduction of fire, and planting wiregrass plugs on 3' centers.

Quantitative Transects

Two transects, T6 and T7 were established within the hydric pine flatwoods restoration. Baseline monitoring in 2006 indicated 14 species in Transect T6 and 16 species in Transect T7. Seven of the species identified were shrubs.

During the 2022 monitoring, 29 and 20 species were observed within Transect T6 and T7. Hydric pine flatwood species dominated both transects. Shrub cover was 1.6 percent for Transect 6 and 2.5 percent for Transect T7. Vegetative cover was 96.2 percent for transect 6 and 81.5 for Transect T7.

During the 2023 monitoring, 47 species were observed in Transect T6, and 38 species were observed in Transect T7 (Tables 7 and 8, Figures 13 and 14). Weedy species such as purple bluestem are common. Bare ground cover was 54 percent in Transect T6 and 51 percent in Transect T7. Woody cover was low, from 4 percent in Transect T6 to 6 percent in Transect T7, partly composed of "nuisance" species (titi, fetterbush, and vines) but also fairly diverse (11-12 species per transect). Although not observed along the quantitative transect, a patch of the non-native invasive cogon grass (*Imperata cylindrica*) was observed close by. Clumps of the state-listed threatened Curtiss' sandgrass were observed along Transect T7 and also near Transect T6.

Interim Success Criteria:

The restoration activities for UMAM V, Management Unit 2 were completed by 2007. Fire was introduced in 2005. A Gyro-Trac shrub reduction was initiated in April 2007 and completed in August 2008. Baseline data from the 2006 monitoring event showed 100 percent cover of shrubs for both sites. Herbicide treatments conducted for three years along with burns every two years have successfully reduced the shrub cover to less than 6 percent. In 2019 annual burns were implemented.

Table 7. Percent cover of plant species in Transect T6 - Hydric Pine Flatwoods sampled on November 1, 2023.

Scientific name	Common name	Average percent cover per quadrat			
Andropogon glomeratus var. glaucopsis	purple bluestem	6.30			
Andropogon sp.	bluestem	1.92			
Andropogon virginicus	broomsedge bluestem	1.13			
Aristida stricta	wiregrass	3.13			
Bidens mitis	smallfruit beggarticks	0.02			
Centella asiatica	spadeleaf	1.37			
Cliftonia monophylla	black titi	0.02			
Ctenium aromaticum	toothache grass	0.05			
Cyrilla racemiflora	titi	0.45			
Dichanthelium ensifolium	cypress witchgrass	2.02			
Dichanthelium sp.	witchgrass	0.05			
Eragrostis sp.	lovegrass	0.13			
Eubotrys racemosus	swamp doghobble	0.12			
Eupatorium mohrii	Mohr's thoroughwort	0.48			
Euthamia caroliniana	slender flattop goldenrod	1.57			
Gaylussacia dumosa	dwarf huckleberry	0.02			
Gaylussacia mosieri	woolly huckleberry	0.02			
Hypericum cistifolium	roundpod St. John's wort	0.08			
Hypericum microsepalum	flatwoods St. John's wort	0.25			
llex cassine var. myrtifolia	myrtle-leaved holly	0.12			
llex glabra	gallberry	0.02			
Juncus scirpoides	needlepod rush	0.13			
Kellochloa verrucosa	warty panicgrass	3.97			
Lachnanthes caroliana	Carolina redroot	2.43			
Lachnocaulon anceps	whitehead bogbutton	0.02			
Ludwigia maritima	seaside primrosewillow	0.02			
Lyonia lucida	fetterbush	2.00			
Muhlenbergia capillaris var. trichopodes	cutover muhly	0.05			
Oldenlandia uniflora	clustered mille graines	0.12			
Osmunda cinnamomea	cinnamon fern	0.12			
Pinus elliottii	slash pine	0.45			
Rhexia mariana	pale meadowbeauty	2.52			
Rhexia sp.	meadowbeauty	0.02			
Rhexia virginica	handsome harry	0.12			
Rhynchospora chalarocephala	loosehead beaksedge	0.33			
Rhynchospora fascicularis	fascicled beaksedge	0.45			
Rhynchospora gracilenta	slender beaksedge	0.40			
Rhynchospora sp.	beaksedge	0.90			
Scleria ciliata	fringed nutrush	0.25			
Scleria reticularis	netted nutrush	0.02			
Smilax glauca	cat greenbrier	0.02			
Solidago fistulosa	pinebarren goldenrod	1.97			
Sphagnum sp.	sphagnum moss	4.83			
Viola lanceolata	bog white violet	0.12			
Woodwardia virginica	Virginia chain fern	0.07			

Scientific name	Common name	Average percent cover per quadrat
Xyris ambigua	coastalplain yellow-eyed grass	0.03
Xyris fimbriata	fringed yellow-eyed grass	0.47
Bare Ground		54.37

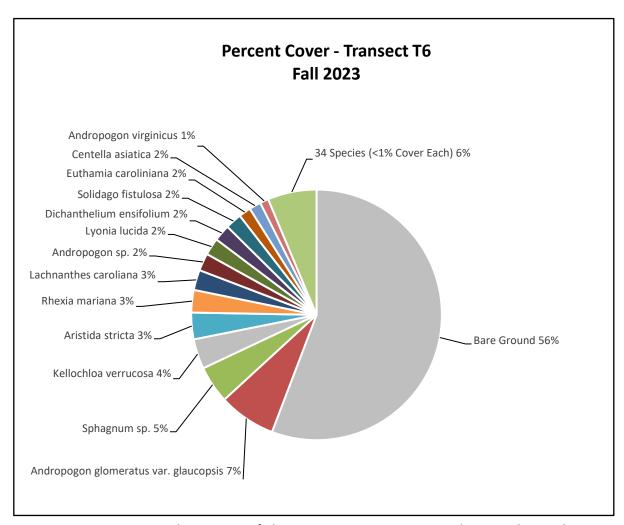


Figure 13. Percent relative cover of plant species in Transect T6 - Hydric Pine Flatwoods.

Table 8. Percent cover of plant species in Transect T7 - Hydric Pine Flatwoods sampled on October 31, 2023.

Scientific name	Common name	Average percent cover per quadrat
Andropogon glomeratus var. glaucopsis	purple bluestem	15.12
Andropogon gyrans	Elliott's bluestem	0.02
Andropogon sp.	bluestem	0.78
Aristida stricta	wiregrass	1.22
Calamovilfa curtissii	Curtiss' sandgrass	1.25
Centella asiatica	spadeleaf	0.02
Chrysopsis lanuginosa	Lynn Haven goldenaster	0.02
Ctenium aromaticum	toothache grass	0.25
Cyrilla racemiflora	titi	1.63
Dichanthelium leucothrix	rough witchgrass	3.18
Dichanthelium sp.	witchgrass	0.02
Eubotrys racemosus	swamp doghobble	0.25
Eupatorium mohrii	Mohr's thoroughwort	0.07
Euthamia caroliniana	slender flattop goldenrod	0.80
Ilex cassine var. myrtifolia	myrtle-leaved holly	0.07
Juncus scirpoides	needlepod rush	0.12
Kellochloa verrucosa	warty panicgrass	0.02
Lachnanthes caroliana	Carolina redroot	4.80
Leucothoe axillaris	coastal doghobble	0.60
Ludwigia maritima	seaside primrosewillow	0.02
Lyonia lucida	fetterbush	1.95
Magnolia virginiana	sweetbay	0.05
Oldenlandia uniflora	clustered mille graines	0.03
Pinus elliottii	slash pine	0.10
Rhexia mariana	pale meadowbeauty	0.55
Rhexia virginica	handsome harry	0.05
Rhus copallinum	winged sumac	0.02
Rhynchospora fascicularis	fascicled beaksedge	0.20
Rhynchospora gracilenta	slender beaksedge	0.22
Rubus cuneifolius	sand blackberry	0.15
Smilax laurifolia	laurel greenbrier	0.05
Solidago fistulosa	pinebarren goldenrod	1.55
Sphagnum sp.	sphagnum moss	0.12
Vaccinium corymbosum	highbush blueberry	0.58
Woodwardia virginica	Virginia chain fern	0.28
Xyris brevifolia	shortleaf yellow-eyed grass	0.02
Xyris caroliniana	Carolina yellow-eyed grass	0.02
Xyris elliottii	Elliott's yellow-eyed grass	0.62
Bare Ground		50.50

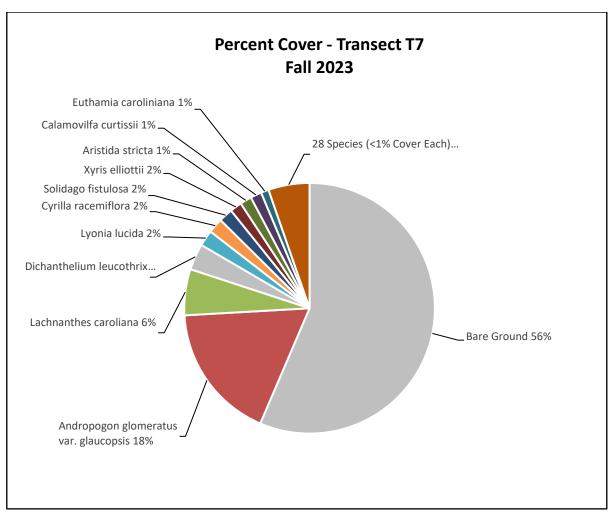


Figure 14. Percent relative cover of plant species in Transect T7 - Hydric Pine Flatwoods.

Management Unit 5, UMAM Polygon VI, Inland Ponds, and Sloughs (Transect T9)

UMAM Polygon VI, Management Unit 5 consists of 24.88 acres of a dammed slough (Dykes Mill Pond) restored to slough/marsh.¹ Reclamation activities within this polygon include the removal of Dykes Mill Pond dam, spanning the gap with a railcar bridge, and planting of cypress and black gum saplings. Dykes Mill Pond was removed in August of 2006 and bridge construction completed in April 2007. Planting of cypress and black gum trees occurred in fall of 2007. Since the removal of the dam, water levels have been reduced by two feet in depth.

Quantitative Transects

Most of Dykes Mill Pond is dominated by water lilies and other aquatic submerged vegetation.

In 2021, a total of 12 species were observed along Transect T9. The aquatic vegetation is thriving providing important habitat for wildlife. Fragrant water lily represented the dominant cover class with 40.2 percent cover followed by algal bull rush with 22.5 percent cover. Open water has steadily decreased from 38 percent from baseline sampling to 10.6 percent. In 2022, this transect was not sampled. Due to early cold weather the water lily leaves had senesced, and the cover would have been inaccurate.

During the 2023 monitoring, water levels were 3-5 feet deep along the transect with dense waterlilies. We completed the transect sampling using a 2-person kayak and a GPS unit to judge position. Estimates of cover and bare ground were difficult due to the multilayered cover in the water column as well as limited visibility. We observed 18 species in Transect T9 (Table 9, Figure 15). Submerged vegetation consisted of bladderworts intermixed with algal bulrush in most quads. Since the two were mostly indistinquishable, these are recorded as one entity. Woody cover was restricted to cypress tree bases found on the northern end of the transect. White waterlily was abundant all along the transect, with smaller amounts of spatterdock occasional. Mats of floating vegetation were dominated by a vegetative spikerush, sedge, fringed yellow-eyed grass. The statelisted threatened spoon-leaved sundew was also abundant on floating mats.

¹ UMAM Polygon VI (25.13 acres) consists of Management Unit 5 (24.88 acres) and Management Unit 9 (0.25 acres). Transect T9 is located within Management Unit 5.

Table 9. Percent cover of plant species in Transect T9 - Inland Ponds and Sloughs sampled on November 2, 2023.

Scientific name	Common name	Average percent cover per quadrat
Cyperaceae		0.83
Drosera intermedia	spoon-leaved sundew	0.40
Eleocharis elongata	slim spikerush	0.30
Eleocharis sp.	spikerush	2.87
Habenaria repens	waterspider false rein orchid	0.02
Lachnanthes caroliana	Carolina redroot	0.63
Nuphar advena	spatterdock	4.68
Nymphaea odorata	white waterlily	20.88
Rhynchospora chalarocephala	loosehead beaksedge	0.28
Rhynchospora inundata	narrowfruit horned beaksedge	0.13
Taxodium ascendens	pond cypress	0.58
Triadenum virginicum	Virginia marsh St. John's wort	0.05
Utricularia cornuta	horned bladderwort	0.58
Utricularia juncea	southern bladderwort	3.92
Utricularia purpurea/Eleocharis confervoides	eastern purple bladderwort/algal bulrush	42.43
Utricularia sp.	bladderwort	0.95
Xyris fimbriata	fringed yellow-eyed grass	2.10
Xyris sp.	yellow-eyed grass	0.05
Bare Ground/Water		20.98

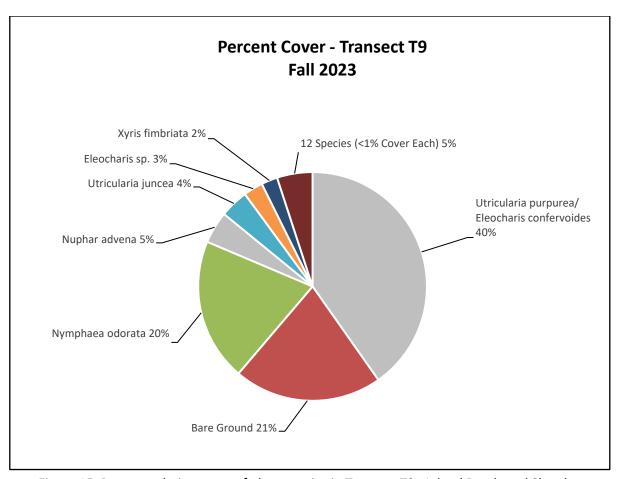


Figure 15. Percent relative cover of plant species in Transect T9 - Inland Ponds and Sloughs.

QUALITATIVE MONITORING

METHODS

Qualitative vegetation monitoring includes an assessment of the vegetation, both ground cover and planted trees, wildlife use observations, and general habitat health. Pedestrian surveys increase site coverage and use a pre-selected meandering walk-path. Meander lines were provided by NWFWMD and loaded onto Trimble TDC 600 dataloggers using ESRI Field Maps software for navigation in the field. FNAI biologists also consulted the species lists for each walk-path from 2012. All accessible portions of the walk-path were traversed. All plant species detected along the walk-path were identified to species if possible, or higher taxon if not. General observations on community structure and health as well as incidental wildlife observations were recorded for each walk-path. Figure 1 provides the location and coverage of transects.

RESULTS AND DISCUSSION

A total of 13 pedestrian transects were located at the SHLMB (Figure 1). Two pedestrian transects are in Management Unit 1 (portions of UMAM Polygon IV), two in Management Unit 2 (UMAM Polygon V), four in Management Unit 10 (UMAM Polygon III), one in Management Unit 11, (UMAM Polygon II), two in Management Unit 12 (UMAM Polygon I), and two in Management Unit 14 (portions of UMAM Polygon IV).

A total of 285 plant taxa were recorded in meandering transects during the Fall 2023 monitoring at Sand Hill Lakes Mitigation Bank (Table 10). Taxonomy follows Wunderlin, R. P., B.F. Hansen, A.R. Franck, and F.B. Essig. 2017. Atlas of Florida Plants (htpp://florida.plantatlas.usf.edu/), Institute for Systematic Botany, University of South Florida, Tampa.

Table 10. Plant species observed along meandering transects M1-M13 at Sand Hill Lakes Mitigation Bank on October 31-November 8, 2023. (* = State listed Rare, \dagger = FISC Non-native Invasive)

Scientific Name	Common Name	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	Total
	slender threeseed														
Acalypha gracilens	mercury	X				Х							Х	Х	4
Agalinis divaricata	pineland false foxglove	X			Х	Х								Х	4
Agalinis fasciculata	beach false foxglove													Х	1
Agalinis sp.	false foxglove					Х									1
Ambrosia artemisiifolia	common ragweed					X									1
Amphicarpum muehlenbergianum	blue maidencane	X					Х	Х				Х			4
Andropogon glomeratus	bushy bluestem							Х							1
Andropogon glomeratus var. glaucopsis	purple bluestem								Х		Х	Χ			3
Andropogon gyrans	Elliott's bluestem	Х	Х	Х	Х	X							Х	Х	7
Andropogon ternarius	splitbeard bluestem		Х		Х	Х								Х	4
Andropogon virginicus	broomsedge bluestem	Х				Х		Х					Х		4
Andropogon virginicus var. glaucus	chalky bluestem		Х										Х		2
Andropogon virginicus var. virginicus	broomsedge bluestem		Х												1
Aristida purpurascens	arrowfeather threeawn					Х									1
Aristida purpurascens var. tenuispica	Hillsboro threeawn	Х	Х			Х									3
Aristida sp.	threeawn												Х		1
Aristida stricta	wiregrass	Х	Х	х	Х	Х	х		х		Х	Х	Х	Х	11
Aronia arbutifolia	red chokeberry									Х	Х				2
Asimina spatulata	paw paw			х	Х	Х									3
Balduina angustifolia	coastalplain honeycomb- head	х			х								Х	х	4
Baptisia lanceolata	gopherweed	Х	Х	Х	Х	Х							Х	Х	7
Berlandiera pumila	soft greeneyes			Х	Х	Х									3
Bidens alba	beggarticks					Х									1
Bidens laevis	smooth beggarticks									Х		Х			2
Bidens mitis	smallfruit beggarticks							Х	х	Х	Х				4
Brasenia schreberi	watershield						Х			Х	Х				3
Bulbostylis ciliatifolia	capillary hairsedge	Х	Х		Х	Х							Х	Х	6
Bulbostylis stenophylla	sandyfield hairsedge					Х									1
Burmannia capitata	southern bluethread						Х								1
*Calamovilfa curtissii	Curtiss' sandgrass								х			Х			2
Callicarpa americana	American beautyberry		Х										Х		2
Carex glaucescens	clustered sedge							х		Х		Х			3
Carphephorus odoratissimus	vanillaleaf			х	Х	Х			х					х	5
Carphephorus sp.	chaffhead												Х		1
Cartrema americanum	wild olive											Х	Х		2
Ceanothus microphyllus	littleleaf buckbrush													х	1
Centella asiatica	spadeleaf	Х					х	х	х	Х	х	Х		-	7
Cephalanthus occidentalis	common buttonbush						Х	Х	· `	X	<u> </u>				3
Chamaecrista fasciculata	partridge pea				Х	Х	· ·	<u> </u>		<u> </u>					2

Scientific Name	Common Name	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	Total
Chrysoma pauciflosculosa	woody goldenrod	Х	Х	Х	Х	Х							Х	х	7
Chrysopsis lanuginosa	Lynn Haven goldenaster	Х	Х		Х	Х					Х		Х	Х	7
Chrysopsis mariana	Maryland goldenaster					Х									1
Cirsium horridulum	purple thistle					Х									1
Cirsium sp.	thistle				Х										1
Clethra alnifolia	sweet pepperbush						Х	Х		Х	Х	Х			5
Cliftonia monophylla	black titi						Х				Х	Х			3
Cnidoscolus stimulosus	tread softly													Х	1
Coleataenia longifolia	ciliate redtop panicum								Х		Х				2
Conyza canadensis	Canadian horseweed					Х							Х		2
Crataegus michauxii	Michaux's hawthorn				23?										1
Crataegus sp.	hawthorn													Х	1
Crotalaria rotundifolia	rabbitbells					Х									1
Croton argyranthemus	silver croton	Х		Х	Х	Х								Х	5
Croton sp.	croton												Х		1
Ctenium aromaticum	toothache grass								Х						1
Cuscuta sp.	dodder											Х			1
Cyperus croceus	Baldwin's flatsedge				Х										1
Cyperus filiculmis	wiry flatsedge		Х												1
Cyperus ovatus	pinebarren flatsedge													Х	1
Cyperus plukenetii	Plukenet's flatsedge					Х									1
Cyperus sp.	flatsedge	Х				Х									2
Cyrilla racemiflora	titi	Х					Х	Х	Х	Х	Х	Х			7
Dalea pinnata	summer farewell	Х	Х	Х	Х	Х									5
Desmodium strictum	pinebarren tick-trefoil				Х										1
Dichanthelium aciculare	needleleaf witchgrass	х	Х			Х									3
Dichanthelium ensifolium	cypress witchgrass	Х							Х		Х	Х			4
Dichanthelium ovale	eggleaf witchgrass		Х	Х	Х	Х									4
Dichanthelium portoricense	hemlock witchgrass								Х		Х			Х	3
Dichanthelium sp.	witchgrass							Х					Х	Х	3
Digitaria filiformis var. filiformis	slender crabgrass		Х			Х							Х	Х	4
Diodia teres	poor joe	Х			Х	Х								Х	4
Diodia virginiana	Virginia buttonweed												Х	Х	2
Diospyros virginiana	common persimmon	Х	Х	х	Х	х							Х	Х	7
Drosera capillaris	pink sundew	Х					х		Х						3
*Drosera intermedia	spoon-leaved sundew							х							1
Dulichium arundinaceum	threeway sedge							х	Х	Х	Х				4
Eleocharis baldwinii	Baldwin's spikerush										Х				1
Eleocharis confervoides	algal bulrush						х								1
Eleocharis elongata	slim spikerush							х							1
Eleocharis sp.	spikerush						х	х		Х					3
Elephantopus elatus	tall elephantsfoot					х					Х				2
Eragrostis sp.	lovegrass	х				х							Х		3

Scientific Name	Common Name	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	Total
Eremochloa ophiuroides	centipede grass				Х	Х									2
Eriocaulon compressum	flattened pipewort							Х							1
Eriocaulon decangulare	tenangle pipewort							Х							1
Eriocaulon lineare	narrow pipewort	Х						Х							2
Eriogonum tomentosum	dogtongue wild buckwheat	х		х	Х	х							Х		5
Eubotrys racemosus	swamp doghobble							Х	Х	Х		Х			4
Eupatorium capillifolium	dogfennel						Х	Х	Х				Х	Х	5
Eupatorium compositifolium	yankeeweed	Х	Х	Х	Х	Х					Х		Х	Х	8
Eupatorium linearifolium	waxy thoroughwort			Х											1
Eupatorium leptophyllum	falsefennel	Х					Х								2
Eupatorium mohrii	Mohr's thoroughwort						Х		Х		Х				3
Eupatorium pilosum	rough boneset										Х				1
Eupatorium sp.	thoroughwort												Х		1
Euphorbia discoidalis	summer spurge					Х									1
Euphorbia exserta	coastal sand spurge	Х													1
Euphorbia floridana	greater Florida spurge												Х		1
Euphorbia sp.	spurge					Х									1
Euthamia caroliniana	slender flattop goldenrod	Х				Х	Х				Х	Х	Х		6
Froelichia floridana	cottonweed	Х			Х	Х									3
Fuirena breviseta	saltmarsh umbrellasedge							Х							1
Fuirena scirpoidea	southern umbrellasedge											Х			1
Galactia sp.	milkpea	Х	Х		Х									Х	4
Gaylussacia dumosa	dwarf huckleberry	Х		Х	Х	Х									4
Gaylussacia frondosa var. tomentosa	blue huckleberry										Х				1
Gaylussacia mosieri	woolly huckleberry								Х		Х				2
Gelsemium sempervirens	yellow jessamine	Х			Х	х				х		Х	Х	Х	7
Geobalanus oblongifolius	gopher apple	Х	Х	Х	Х	Х							Х	Х	7
Gordonia lasianthus	loblolly bay										Х				1
Habenaria sp.	false rein orchid									Х					1
Helianthus angustifolius	narrowleaf sunflower					Х	Х								2
Helianthus radula	stiff sunflower						Х								1
Hieracium gronovii	queen-devil				Х	Х								Х	3
Houstonia procumbens	roundleaf bluet	Х				Х								Х	3
Hypericum cistifolium	roundpod St. John's wort								Х		Х				2
Hypericum crux-andreae	St. Peter's wort					Х	Х		Х				Х		4
Hypericum fasciculatum	peelbark St. John's wort						Х	Х	Х	Х	Х	Х			6
Hypericum gentianoides	orangegrass	Х			Х	Х							Х	х	5
Hypericum hypericoides	St. Andrew's cross smoothbark St. John's	х			Х	Х		Х				Х	Х	Х	7
*Hypericum lissophloeus	wort	Х					Х								2
Hypericum microsepalum	flatwoods St. John's wort								Х						1
Hypericum tetrapetalum	fourpetal St. John's wort						Х								1
llex cassine var. myrtifolia	myrtle-leaved holly	Х					Х	Х	Х	Х	Х	Х			7

Scientific Name	Common Name	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	Total
Ilex coriacea	large gallberry										х				1
Ilex glabra	gallberry	Х	Х	Х	Х	Х			Х	Х					7
Ilex opaca	American holly									Х				Х	2
Ilex vomitoria	yaupon	Х	Х		Х	Х				Х			Х	Х	7
Ionactis linariifolia	flaxleaf aster			Х	Х	Х									3
Iresine diffusa	Juba's bush												Х		1
Itea virginica	Virginia willow										Х				1
Juncus pelocarpus	annual rush						Х								1
Juncus repens	lesser creeping rush								Х						1
Juncus scirpoides	needlepod rush						Х				Х				2
Kellochloa verrucosa	warty panicgrass						Х	Х	Х	Х	Х	Х			6
Lachnanthes caroliana	Carolina redroot						Х	Х	Х	Х	Х	Х			6
Lachnocaulon anceps	whitehead bogbutton					Х		Х	Х						3
Lechea minor	thymeleaf pinweed					Х									1
Lechea sessiliflora	pineland pinweed	Х	Х	Х	Х	Х							Х	Х	7
Lespedeza hirta	hairy lespedeza	Х	Х	Х	Х	Х							Х	Х	7
Lespedeza sp.	lespedeza					Х									1
Liatris gracilis	slender gayfeather	Х	Х	Х	Х	Х			Х		Х		Х	Х	9
Liatris pauciflora var. secunda	Piedmont gayfeather		Х												1
Liatris spicata	dense gayfeather								Х			Х			2
Liatris tenuifolia	shortleaf gayfeather	Х	Х	Х	Х	Х							Х	Х	7
Liquidambar styraciflua	sweetgum											Х			1
Lobelia brevifolia	shortleaf lobelia					Х									1
Ludwigia maritima	seaside primrosewillow					Х									1
Ludwigia pilosa	hairy primrosewillow						Х								1
Lupinus sp.	lupine	Х			Х								Х		3
*Lupinus westianus	Gulf Coast lupine													Х	1
Lycopodiella alopecuroides	foxtail club-moss						Х	Х	Х						3
Lycopodiella appressa	southern club-moss						Х				Х				2
to a series to the Hora	taperleaf							,,	,,	,,	\ ,				
Lycopus rubellus	waterhorehound					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		X	Х	Х	X				4
†Lygodium japonicum	Japanese climbing fern					Х	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \	V			1
Lyonia lucida	fetterbush						X	X	Х	Х	X	Х			6
Lyonia mariana	Piedmont staggerbush						Х		.,		V.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1
Magnolia virginiana	sweetbay			v	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				Х		X	Х	\ ,,	.,	3
Mimosa quadrivalvis var. angustata	sensitive brier			X	X	\ ,	\		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				X	Х	4
Morella cerifera	southern bayberry			v		X	X		Х						3
Muhlenbergia capillaris var. trichopodes	cutover muhly		-	Х		X	X		v	V	v				3
Nuphar advena	yellow pondlily						X	,,	X	X	X				4
Nymphaea odorata	white waterlily						X	X	X	X	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			5
Nyssa biflora	swamp tupelo						Х		X	Х	Х	Х			5
Nyssa sylvatica	blackgum								X						1
Oldenlandia uniflora Opuntia humifusa	clustered mille graines pricklypear	X	Х		Х	X	Х	Х	Х			Х	Х	Х	6

Scientific Name	Common Name	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	Total
Osmunda cinnamomea	cinnamon fern						Х	Х			х				3
Panicum hemitomon	maidencane	Х					Х	Х		Х	Х				5
Panicum virgatum	switchgrass	X				Х							Х	Х	4
Paronychia rugelii	Rugel's nailwort	X			Х										2
Paronychia sp.	nailwort													Х	1
Paspalum setaceum	thin paspalum	X				Х									2
Peltandra sagittifolia	spoon-flower										Х				1
Penstemon multiflorus	manyflower beardtongue	Х	Х			Х							Х	Х	5
Persea borbonia	red bay												Х		1
Persea palustris	swamp bay	Х				Х	Х	Х		Х	Х	Х			7
Physalis sp.	groundcherry				Х										1
Pieris phyllyreifolia	climbing fetterbush						Х			Х		Х			3
Pinus clausa	sand pine	Х	Х										Х	Х	4
Pinus elliottii	slash pine						Х	Х	Х	Х	Х	Х			6
Pinus palustris	longleaf pine	Х	Х	Х	Х	Х							Х	Х	7
Pityopsis aspera	pineland silkgrass	Х		Х	Х	Х							Х		5
Pityopsis graminifolia	narrowleaf silkgrass					Х	Х							Х	3
Polygonella gracilis	tall jointweed	Х	Х		Х	Х							Х	Х	6
Polygonella polygama	october flower		х												1
Polygonella robusta	largeflower jointweed												Х		1
Polypremum procumbens	rustweed					Х									1
Pontederia cordata	pickerelweed						Х	Х		Х	Х				4
Prunus serotina	black cherry												Х		1
Pseudognaphalium obtusifolium	sweet everlasting												Х	Х	2
Pteridium aquilinum	bracken fern	Х	Х		Х										3
Pterocaulon pycnostachyum	blackroot					Х									1
Quercus pumila	runner oak		Х												1
Quercus geminata	sand live oak	Х	Х		Х	Х							Х	Х	6
Quercus hemisphaerica	laurel oak	Х	Х		Х	Х							Х	Х	6
Quercus incana	bluejack oak	Х	Х	Х	Х	Х							Х	Х	7
Quercus laevis	turkey oak	Х	Х	Х	Х	Х							Х	Х	7
Quercus laurifolia	swamp laurel oak								Х						1
Quercus margarettae	sand post oak	Х	Х	Х	Х	Х							Х	Х	7
Quercus minima	dwarf live oak		х												1
Quercus nigra	water oak	Х										х			2
Quercus virginiana	live oak	Х	х		Х	Х						Х	Х	Х	7
Rhexia mariana	pale meadowbeauty	Х				Х	Х	х	Х	Х	х	х		Х	9
Rhexia sp.	meadowbeauty						Х	Х							2
Rhexia virginica	handsome harry											Х			1
Rhus copallinum	winged sumac	Х			Х	Х							Х	Х	5
Rhynchosia cytisoides	royal snoutbean	Х	х	х	Х	Х								Х	6
Rhynchosia reniformis	dollarleaf					Х							Х	х	3
Rhynchospora cephalantha	bunched beaksedge						Х		Х	Х					3

Scientific Name	Common Name	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	Total
Rhynchospora chalarocephala	loosehead beaksedge							х	х	х	Х	Х			5
Rhynchospora fascicularis	fascicled beaksedge						Х		Х		Х	Х			4
Rhynchospora filifolia	threadleaf beaksedge						Х		Х						2
Rhynchospora gracilenta	slender beaksedge											Х			1
Rhynchospora inundata	narrowfruit horned beaksedge							х	х	х	х				4
Rhynchospora microcephala	bunched beaksedge									Х					1
Rhynchospora sp.	beaksedge											Х			1
Rubus cuneifolius	sand blackberry	Х	Х			Х			Х		Х		Х	Х	7
Rubus pensilvanicus	sawtooth blackberry										Х				1
Sabatia brevifolia	shortleaf rosegentian						Х								1
Sacciolepis striata	American cupscale						Х								1
Sagittaria graminea	grassy arrowhead						Х								1
Sagittaria latifolia	common arrowhead							Х		Х					2
Salvia azurea	azure blue sage					Х									1
Schizachyrium stoloniferum	creeping little bluestem	х	х	х	х	Х							23?	Х	7
Schizachyrium tenerum	slender bluestem	х		Х		Х									3
Scleria ciliata	fringed nutrush			Х			Х					Х			3
Scleria reticularis	netted nutrush						Х	Х		Х					3
Scleria sp.	nutrush												Х		1
Scleria triglomerata	whip nutrush					Х									1
Serenoa repens	saw palmetto	х	Х	Х	Х	Х							Х	Х	7
Sericocarpus tortifolius	whitetop aster			Х	Х	Х									3
Seymeria cassioides	yaupon blacksenna				Х	Х								Х	3
Smilax auriculata	earleaf greenbrier	х	Х	Х	Х	Х						Х	Х	Х	8
Smilax bona-nox	saw greenbrier												Х		1
Smilax glauca	cat greenbrier									Х					1
Smilax laurifolia	laurel greenbrier									Х	Х	Х			3
Smilax walteri	coral greenbrier								Х	Х					2
Solidago fistulosa	pinebarren goldenrod						Х		Х		Х				3
Solidago odora	sweet goldenrod	х		Х	х	Х							Х	Х	6
Solidago stricta	wand goldenrod					Х									1
Sphagnum sp.	sphagnum moss						Х	Х							2
Sporobolus junceus	pineywoods dropseed			х	х								Х		3
Stillingia sylvatica	queen's delight			Х	Х	Х									3
Strophostyles umbellata	pink fuzzybean			<u> </u>		X									1
Stylosanthes biflora	sidebeak pencil flower			х		, ·									1
Symphyotrichum adnatum	scaleleaf aster			Х		Х									2
Symphyotrichum concolor	eastern silver aster			Х	Х	X								Х	4
Symphyotrichum dumosum	rice button aster			X	X	X			Х					Х	5
Symphyotrichum walteri	Walter's aster			· ·	· `	X			1					- •	1
Syngonanthus flavidulus	yellow hatpins						Х				Х				2
Taxodium ascendens	pond cypress						X	Х	Х	Х	X	Х			6
Tephrosia chrysophylla	scurf hoary-pea	X		х	Х	Х	L.	T.	Ť.	Ť.	Ť	L.	Х		5

Scientific Name	Common Name	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	Total
Tephrosia spicata	spiked hoary-pea				Х	Х									2
Tillandsia usneoides	Spanish moss						Х	Х		Х			Х		4
Toxicodendron pubescens	eastern poison oak			Х											1
Tragia smallii	Small's noseburn					Х									1
Tragia urens	wavyleaf noseburn			Х		Х									2
Triadenum virginicum	Virginia marsh St. John's wort							х		х	Х	х			4
Trichostema dichotomum	forked bluecurls												Х		1
Trichostema setaceum	narrowleaf bluecurls				Х	Х							Х	Х	4
Trichostema sp.	bluecurls					Х									1
Triplasis americana	perennial sandgrass	Х	Х												2
Utricularia cornuta	horned bladderwort						Х								1
Utricularia juncea	southern bladderwort							Х							1
Utricularia purpurea	eastern purple bladderwort						х								1
Utricularia subulata	zigzag bladderwort							Х							1
Vaccinium arboreum	sparkleberry	Х	Х	Х	Х	Х							Х	Х	7
Vaccinium corymbosum	highbush blueberry							Х	Х	Х	Х	Х			5
Vaccinium darrowii	Darrow's blueberry	Х	Х	Х	Х	Х									5
Vaccinium elliottii	Elliott's blueberry	Х	Х			Х	Х			Х			Х		6
Vaccinium myrsinites	shiny blueberry	Х	Х	Х	Х	Х							Х	Х	7
Vaccinium stamineum	deerberry	Х	Х			Х							Х	Х	5
Viola lanceolata	bog white violet						Х								1
Vitis rotundifolia	muscadine	Х	Х			Х				Х	Х	Х	Х		7
Woodwardia areolata	netted chain fern						Х								1
Woodwardia virginica	Virginia chain fern								Х	Х	Х	Х			4
Xyris ambigua	coastalplain yellow-eyed grass							х							1
Xyris brevifolia	shortleaf yellow-eyed						Х								1
Xyris elliottii	grass Elliott's yellow-eyed grass						X		Х		Х	Х			4
Xyris fimbriata	fringed yellow-eyed grass						X	Х	X	Х	X	X			6
*Xyris longisepala	karst pond xyris	X					X		^		^	_^			2
Xyris platylepis	tall yellow-eyed grass	<u> </u>							Х						1
Xyris sp.	yellow-eyed grass					Х		Х	^			Х			3
Yucca filamentosa	Adam's needle	X	Х	Х	Х	X						_^	Х	Х	7
Total number of taxa: 285	Audili 3 liceule	84	55	50		118	60	52	57	49	61	50	77	72	868

Management Unit 1, UMAM Polygon IV, Preserved High Quality Forested and Herbaceous Wetlands (M8 and M9)

Management Unit 1, UMAM Polygon IV consists of 574.84 acres of a wide variety of preserved wetland habitats including FLUCCS: 621 – Cypress, 617 – Mixed Wetland Hardwoods, 644 – Emergent Aquatic Wetlands, 611 – Bay Swamps, 641 – Freshwater Marshes, 616 – Inland Ponds and Sloughs, 640 – and Vegetated Non-Forested Wetlands.² The management goal for this polygon is preservation of the existing high-quality wetlands. Two of the pedestrian survey paths (M8 and M9) in Management Unit I, UMAM Polygon IV, were in cypress dominated wetlands. During the baseline monitoring, 38 species were observed in M8, while 32 species were observed in M9. Wildlife was abundant.

In 2022, a total of 54 species were observed along M8, and 51 species along M9. Plants appear vigorous and thriving with good diversity. No nuisance or exotic species were observed.

In 2023, a total of 57 species were observed along M8, and 49 species along M9. The state-listed threatened Curtiss's and grass was occasional on M8.

Interim Success Criteria:

Interim success criteria have been met for this area. These include exotic vegetation cover < 1 percent per acre, nuisance vegetation cover < 5 percent per acre, and maintaining or improving in ecological function.

² Management Unit 1 (574.84 acres) is a component of UMAM Polygon IV (816.48 acres).

Management Unit 2, UMAM Polygon V, Hydric Pine Flatwoods (M10 and M11)

Management Unit 2, UMAM Polygon V consists of 163.88 acres of FLUCCS 625 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) located in Management Unit 2, UMAM Polygon V. Each of these degraded hydric pine flatwoods were dominated by dense shrub cover and species during baseline monitoring.

In 2022, a total of 112 species were observed along the meandering transect of M10. This area continues to develop and has good diversity. A total of 54 species were observed along M11. These sites continue to develop and diversity increase. No hog damage was observed within the restoration area in 2022.

In 2023, a total of 61 species were observed along M10, and 50 species along M11. The state-listed commercially exploited cinnamon fern was seen along M10. The state-listed threatened Curtiss's and grass was occasional on M11.

Interim Success Criteria:

Interim success criteria have been met for this area. No exotic species were observed, and shrub cover has been maintained at or lower than 5 percent. Herbaceous groundcover and diversity continue to increase. Prescribed burns have been conducted in accordance with fire management plan on an annual rotation.

Management Unit 10, UMAM Polygon III, Xeric and Live Oak (M1, M2, M12, and M13)

Management Unit 10, UMAM Polygon III consists of 492.58 acres of FLUCCS 421 – Xeric Oak and 427 – Live Oak. Management goals include preservation, reintroduction of fire, removal of oaks and hardwoods, planting of longleaf pine, and exotic species control. Four transects were located within Polygon 10, M1, M2, M12 and M13). During baseline monitoring, 44 species were observed along M1, as were 29 species within M2, 26 species within M12, and 54 species within M13. In Transect M1, Florida threatened species, Gulf coast lupine (*Lupinus westianus*), and Gopher tortoise burrows have been observed scattered throughout the xeric communities.

In 2022, 91 species were found along Transect M1. This area is a combination of several habitats as it grades towards the pond. A total of 79 species were observed within M2. A total of 74 species were observed within M12 while Transect M13 had 81 species.

In 2023, 84 species were observed along M1. This transect traverses successional hardwoods, sandhill, and karst pond habitats. The M1 transect also had two state listed rare species, smoothbark St. John's wort and karst pond xyris, where it intersects the edge of a pond. A lupine was observed which may have been Gulf Coast lupine, but the plant was senescent and only identified to genus.

A total of 55 species were found along M2. Transect M12 had 77 species, while Transect M13 had 72 species. Around 40 of the state-listed threatened Gulf Coast lupine were found along Transect M13.

Interim Success Criteria:

Interim success criteria have been met for this area. No nuisance native or exotic vegetation have been observed. Diversity is good and continued burns within these areas will maintain a healthy sandhill community. Wiregrass cover is excellent and oaks and other hardwood cover have been reduced to appropriate levels throughout most of the areas.

Management Unit 11, UMAM Polygon II, Upland Sand Pine or Slash Pine Plantations (M5)

Management Unit 11, UMAM Polygon II consists of 382.16 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 sandhill community from a slash pine plantation. Management activities included the removal of planted sand pines, reintroduction of burns, re-planting with longleaf pine, and the addition of wiregrass as needed. Slash and sand pine trees were harvested from April to November 2007 followed by winter burns. Transect M5 is located within Management Unit 11, UMAM Polygon II. Observations from the baseline monitoring in 2006, indicated six trees, seven shrubs, two vines, and 35 herbaceous species.

In 2022, a total of 88 species were observed along M5. Species diversity and wiregrass cover is like sandhills within the region. The community continues to develop.

In 2023, a total of 118 species were observed along M5. This was the only transect where the non-native invasive Japanese climbing fern was detected. This was the most diverse transect in 2023, perhaps in part because it traverses both good quality sandhill groundcover as well as more ruderal habitats near the vehicle trails.

Interim Success Criteria:

The interim success criteria have been met for this area. One non-native invasive species was observed. Wiregrass is the dominant species throughout most of the transect. The ground cover is diverse and typical of a sandhill, and the planted longleaf pines are 25' to 30' tall.

Management Unit 12, UMAM Polygon 1, Sandhill (M3 and M4)

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 was to restore a diverse sandhill. Fire was reintroduced in 2004 and the once dominant woody goldenrod and oak cover has been replaced by wiregrass and diverse sandhill species. Removal of oaks ≤ 12 inches DBH occurred in the summer of 2005 and the area was replanted with longleaf pine. The sandhill is diverse and high quality with an excellent herbaceous species composition. Two transects (M3 and M4) were located within this polygon. Baseline documentation in 2006 observed a total of 35 species (seven trees, two shrubs, two vines, and 24 herbs) within pedestrian Transect M3, while 68 species (eight trees, nine shrubs, two vines and 49 herbs) were observed within M4. These two areas are the two most diverse upland areas of the bank and often have over 90 species observed. Floristically, they are typical of high quality sandhills within the region.

In 2022, a total of 85 species were observed along M3 while 100 species were observed along M4. These two areas are the two most species diverse uplands at the bank, often with greater than 90 species. Floristically, they are typical of high quality sandhills within the region.

In 2023, a total of 50 species were observed along M3, while 74 species were observed along M4. A gopher tortoise burrow was found in the vicinity of Transect M13

Interim Success Criteria:

This polygon has met the restoration goals set forth in the interim success criteria. Controlled burns within this polygon have greatly reduced the cover of woody goldenrod and oaks. Successive burns have increased diversity and wiregrass cover. Oaks have been reduced to less than 50 trees per acre as measured along the tree belt transects, and the herbaceous vegetation is dominated by wiregrass.

Management Unit 14, portions of UMAM Polygon IV, Lakes (M6 and M7)

Management Unit 14, portions of UMAM Polygon IV consists of 164.96 acres of FLUCCS 520, lakes.³ 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 and another M7 at Dykes Mill Pond. A zone of Smooth barked St. John's wort and seedlings was observed just above normal pool adjacent to Garret Pond.

In 2022, water levels were above normal pool for most of the year. A total of 81 species were observed along M6, while 48 species were observed along M7. Vegetation appeared healthy and vigorous.

In 2023, both ponds were full of water. Only a small portion of M7 was surveyable. A total of 69 species were observed along M6, while 52 species were observed along M7. The state-listed commercially exploited cinnamon fern was seen along both M6 and M7. The M6 transect also had two state-listed rare species, smoothbark St. John's wort and karst pond xyris, around the edge of Garret Pond. The state-listed threatened spoonleaf sundew was occasional on M7 around the edge of Dykes Mill Pond.

Interim Success Criteria:

Wetland vegetation is the dominant within both sites. Species appear healthy, diverse, and vigorous. Success criteria for this area have been met.

³ Management Unit 14 (164.96 acres) is a component of UMAM Polygon IV (816.48 acres).

Appendix B (July – December 2023 Semiannual Report)

SAND HILL LAKES MITIGATION BANK FDEP PERMIT NO. 0227351-001 SEMIANNUAL STATUS REPORT

PERIOD: JULY - DECEMBER 2023

For the period July – December 2023:

- 1. No prescribed fire was implemented (2023 scheduled dormant-season and growing-season burns on 1,250 acres were completed prior to July 2023).
- 2. Nuisance shrubs were spot treated with herbicide on approximately 99 acres of hydric pine flatwoods in August 2023 (Figure 1).
- 3. A minor occurrence of cogongrass (*Imperata cylindrica*) was observed and spot treated with herbicide at one location (Figure 2).
- 4. Feral hog damage to vegetation continues to be observed in multiple areas (Figure 3). A feral hog management contract is being developed between the Northwest Florida Water Management District and the US Department of Agriculture, Animal and Plant Health Inspection Service (USDA—APHIS).
- 5. Inspection of perimeter fencing identified multiple locations where downed trees or large limbs on the fence require removal, or where minor breaches require repair (Figure 4).
- 6. Public fishing and hunting continued at the Sand Hill Lakes Mitigation Bank (SHLMB) in accordance with permit conditions.
- 7. Security and law enforcement patrols continued in accordance with permit conditions; no known violations were reported.
- 8. Water level gages were read at monthly in accordance with permit conditions. Data is available upon request.
- 9. Quantitative and qualitative vegetation monitoring required by permit conditions was conducted by the Florida Natural Areas Inventory (FNAI) in October 2023 and has been incorporated into the 2023 Annual SHLMB Report (to be submitted January 2024).
- 10. A Qualified Mitigation Supervisor team consisting of Robert Lide (Senior Environmental Scientist), Philip Garrett (Senior Environmental Scientist), and Coakley Taylor (Lands Manager) was submitted for FDEP approval (approved by FDEP via email of 1/8/2024).

Anticipated restoration and/or management anticipated for January – June 2024:

- 1. No prescribed fire is scheduled (all areas managed with fire were burned in 2023; next burns will occur no sooner than after June 2024).
- 2. Water level gages will continue to be read monthly in accordance with permit conditions.
- 3. Security and law enforcement patrols will continue in accordance with permit conditions.
- 4. Public fishing and hunting, overseen by FWC, will continue in accordance with permit conditions.
- 5. Inspections of perimeter fencing will continue with repairs made as warranted.
- 6. Upon execution of a contract, feral hog management activities will be implemented.
- 7. Exotic vegetation, if observed by NWFWMD or FWC staff, will be treated with herbicides.
- 8. Five-year renewal of FWC contract to manage public access for hunting, fishing, and other public use as allowed by the mitigation banking permit.

Overall, the site is in excellent ecological condition. All prescribed burns planned for 2023 were implemented during the first half of the year. Management activities continue in accordance with permit conditions. Issues identified above (minor occurrence of exotic and/or nuisance vegetation; feral hog populations; perimeter fencing maintenance) are being addressed.

Certification:

We certify, to the best of our knowledge, that this report represents a true and accurate description of the activities and site conditions at the time of this report. This semi-annual report was written in accordance with Specific Condition 27 of the permit.

Robert F. Lide

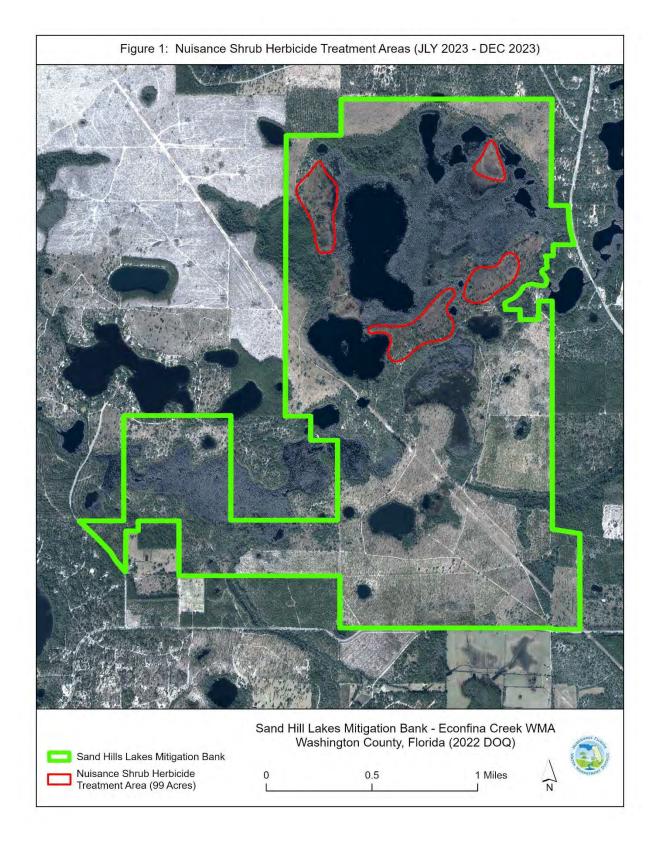
Robert F. Lide, Senior Environmental Scientist, QMS Team Member 18 January 2024

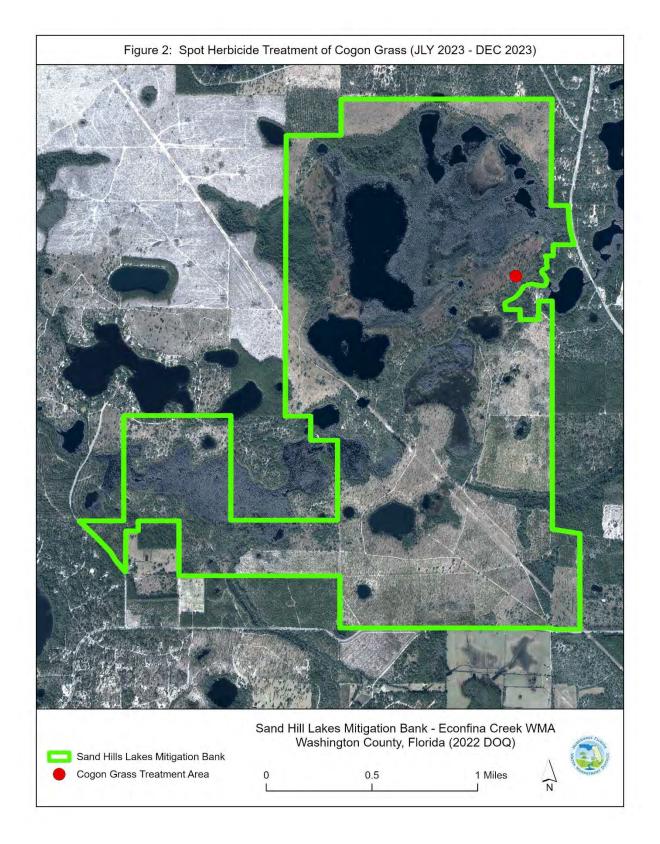
Philip Garrett

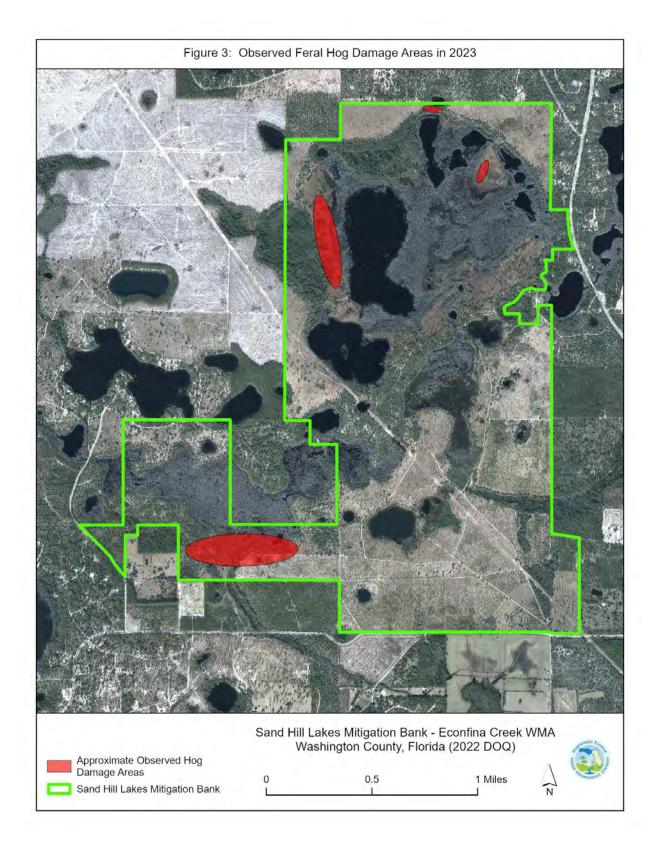
Philip Garrett, Senior Environmental Scientist, QMS Team Member 18 January 2024

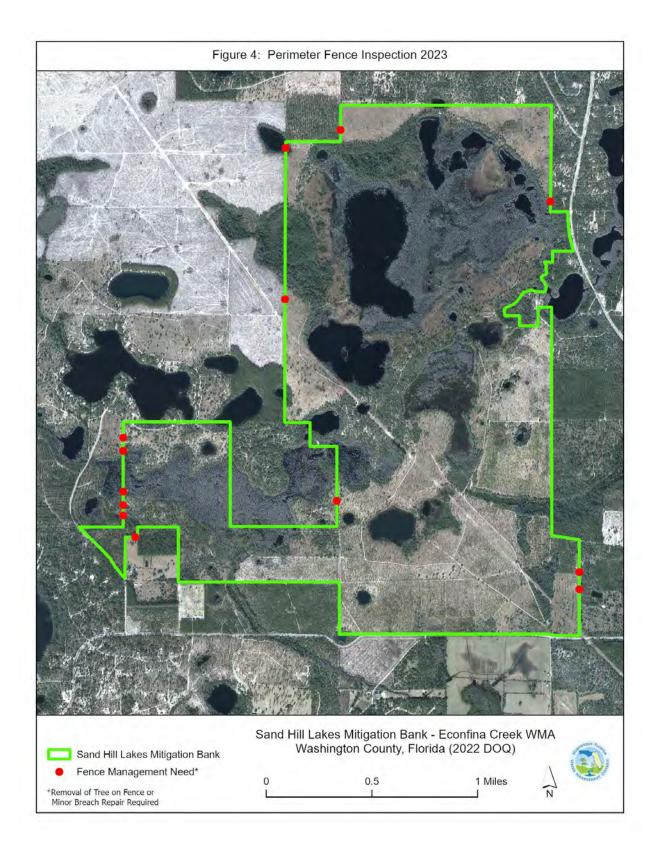
Coakley Taylor
Coakley Taylor, Lands Manager, QMS Team Member

18 January 2024











Sandhills Restoration 9/26/2023



Hydric Pine Flatwoods Restoration 9/26/2023



Hydric Pine Flatwoods Restoration 9/26/2023



Sandhills Restoration 9/26/2023



Feral Hog Damage 9/11/2023



Nuisance Shrub Herbicide 9/11/2023

Appendix C (Water Level Staff Gage Readings)

APPENDIX C
Sand Hill Lakes Mitigation Bank
Water Level Staff Gage Readings
JAN 2006 - DEC 2023
(All Readings are in Feet)

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
16-Jan-2006	3.60	3.54	2.14	3.10	3.00	3.58	3.58	2.90	3.60	4.18
2-Feb-2006	3.60	3.50	2.12	2.88	3.18	3.88	3.58	3.62	3.70	4.15
3-Mar-2006	3.74	3.80	2.00	2.74	3.02	4.38	3.78	3.44	3.70	4.32
3-Apr-2006	3.36	3.12	1.34	2.00	2.74	4.02	3.10	1.86	3.20	3.78
2-May-2006	2.92	2.46	DRY	1.32	2.58	3.72	2.74	0.54	2.58	3.34
2-Jun-2006	2.60	1.18	DRY	0.78	2.40	3.62	1.98	DRY	2.10	3.08
7-Jul-2006	1.68	<gage< td=""><td>DRY</td><td><gage< td=""><td>1.80</td><td>2.90</td><td>DRY</td><td>DRY</td><td>0.60</td><td>2.30</td></gage<></td></gage<>	DRY	<gage< td=""><td>1.80</td><td>2.90</td><td>DRY</td><td>DRY</td><td>0.60</td><td>2.30</td></gage<>	1.80	2.90	DRY	DRY	0.60	2.30
9-Aug-2006	1.58	<gage< td=""><td>DRY</td><td><gage< td=""><td>2.00</td><td>3.00</td><td>DRY</td><td>DRY</td><td>0.35</td><td>-</td></gage<></td></gage<>	DRY	<gage< td=""><td>2.00</td><td>3.00</td><td>DRY</td><td>DRY</td><td>0.35</td><td>-</td></gage<>	2.00	3.00	DRY	DRY	0.35	-
22-Sep-2006	0.76	<gage< td=""><td>DRY</td><td><gage< td=""><td>-</td><td>-</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<></td></gage<>	DRY	<gage< td=""><td>-</td><td>-</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<>	-	-	DRY	DRY	<gage< td=""><td>-</td></gage<>	-
16-Oct-2006	0.06	<gage< td=""><td>DRY</td><td><gage< td=""><td>0.30</td><td>2.17</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<></td></gage<>	DRY	<gage< td=""><td>0.30</td><td>2.17</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<>	0.30	2.17	DRY	DRY	<gage< td=""><td>-</td></gage<>	-
1-Nov-2006	0.20	<gage< td=""><td>DRY</td><td><gage< td=""><td>0.60</td><td>2.50</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<></td></gage<>	DRY	<gage< td=""><td>0.60</td><td>2.50</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<>	0.60	2.50	DRY	DRY	<gage< td=""><td>-</td></gage<>	-
3-Jan-2007	<gage< td=""><td><gage< td=""><td>DRY</td><td><gage< td=""><td>0.50</td><td>2.80</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.18</td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>DRY</td><td><gage< td=""><td>0.50</td><td>2.80</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.18</td></gage<></td></gage<></td></gage<>	DRY	<gage< td=""><td>0.50</td><td>2.80</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.18</td></gage<></td></gage<>	0.50	2.80	DRY	DRY	<gage< td=""><td>2.18</td></gage<>	2.18
6-Feb-2007	<gage< td=""><td><gage< td=""><td>DRY</td><td><gage< td=""><td>0.60</td><td>3.18</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>DRY</td><td><gage< td=""><td>0.60</td><td>3.18</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<></td></gage<>	DRY	<gage< td=""><td>0.60</td><td>3.18</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>-</td></gage<></td></gage<>	0.60	3.18	DRY	DRY	<gage< td=""><td>-</td></gage<>	-

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
5-Mar-2007	<gage< td=""><td><gage< td=""><td>DRY</td><td><gage< td=""><td>0.29</td><td>3.05</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.32</td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>DRY</td><td><gage< td=""><td>0.29</td><td>3.05</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.32</td></gage<></td></gage<></td></gage<>	DRY	<gage< td=""><td>0.29</td><td>3.05</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.32</td></gage<></td></gage<>	0.29	3.05	DRY	DRY	<gage< td=""><td>2.32</td></gage<>	2.32
5-Apr-2007	<gage< td=""><td><gage< td=""><td>DRY</td><td><gage< td=""><td><gage< td=""><td>2.48</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.80</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>DRY</td><td><gage< td=""><td><gage< td=""><td>2.48</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.80</td></gage<></td></gage<></td></gage<></td></gage<>	DRY	<gage< td=""><td><gage< td=""><td>2.48</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.80</td></gage<></td></gage<></td></gage<>	<gage< td=""><td>2.48</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.80</td></gage<></td></gage<>	2.48	DRY	DRY	<gage< td=""><td>1.80</td></gage<>	1.80
3-May-2007	<gage< td=""><td>DRY</td><td>DRY</td><td><gage< td=""><td><gage< td=""><td>2.17</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.46</td></gage<></td></gage<></td></gage<></td></gage<>	DRY	DRY	<gage< td=""><td><gage< td=""><td>2.17</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.46</td></gage<></td></gage<></td></gage<>	<gage< td=""><td>2.17</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.46</td></gage<></td></gage<>	2.17	DRY	DRY	<gage< td=""><td>1.46</td></gage<>	1.46
4-Jun-2007	<gage< td=""><td><gage< td=""><td>DRY</td><td><gage< td=""><td><gage< td=""><td>0.95</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>0.58</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>DRY</td><td><gage< td=""><td><gage< td=""><td>0.95</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>0.58</td></gage<></td></gage<></td></gage<></td></gage<>	DRY	<gage< td=""><td><gage< td=""><td>0.95</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>0.58</td></gage<></td></gage<></td></gage<>	<gage< td=""><td>0.95</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>0.58</td></gage<></td></gage<>	0.95	DRY	DRY	<gage< td=""><td>0.58</td></gage<>	0.58
30-Jan-2008	<gage< td=""><td>DRY</td><td>DRY</td><td><gage< td=""><td><gage< td=""><td>0.98</td><td>DRY</td><td>DRY</td><td>DRY</td><td>0.94</td></gage<></td></gage<></td></gage<>	DRY	DRY	<gage< td=""><td><gage< td=""><td>0.98</td><td>DRY</td><td>DRY</td><td>DRY</td><td>0.94</td></gage<></td></gage<>	<gage< td=""><td>0.98</td><td>DRY</td><td>DRY</td><td>DRY</td><td>0.94</td></gage<>	0.98	DRY	DRY	DRY	0.94
27-Feb-2008	<gage< td=""><td>DRY</td><td>DRY</td><td><gage< td=""><td>0.30</td><td>3.30</td><td>1.30</td><td>DRY</td><td><gage< td=""><td>3.00</td></gage<></td></gage<></td></gage<>	DRY	DRY	<gage< td=""><td>0.30</td><td>3.30</td><td>1.30</td><td>DRY</td><td><gage< td=""><td>3.00</td></gage<></td></gage<>	0.30	3.30	1.30	DRY	<gage< td=""><td>3.00</td></gage<>	3.00
2-Apr-2008	<gage< td=""><td>DRY</td><td>1.53</td><td><gage< td=""><td>1.20</td><td>3.16</td><td>2.60</td><td>DRY</td><td><gage< td=""><td>2.65</td></gage<></td></gage<></td></gage<>	DRY	1.53	<gage< td=""><td>1.20</td><td>3.16</td><td>2.60</td><td>DRY</td><td><gage< td=""><td>2.65</td></gage<></td></gage<>	1.20	3.16	2.60	DRY	<gage< td=""><td>2.65</td></gage<>	2.65
5-May-2008	<gage< td=""><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.12</td><td>2.92</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.30</td></gage<></td></gage<></td></gage<>	DRY	DRY	<gage< td=""><td>1.12</td><td>2.92</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.30</td></gage<></td></gage<>	1.12	2.92	DRY	DRY	<gage< td=""><td>2.30</td></gage<>	2.30
6-Jun-2008	<gage< td=""><td>DRY</td><td>DRY</td><td><gage< td=""><td>0.70</td><td>2.42</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.56</td></gage<></td></gage<></td></gage<>	DRY	DRY	<gage< td=""><td>0.70</td><td>2.42</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.56</td></gage<></td></gage<>	0.70	2.42	DRY	DRY	<gage< td=""><td>1.56</td></gage<>	1.56
2-Jul-2008	<gage< td=""><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.30</td><td>3.34</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.00</td></gage<></td></gage<></td></gage<>	DRY	DRY	<gage< td=""><td>1.30</td><td>3.34</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.00</td></gage<></td></gage<>	1.30	3.34	DRY	DRY	<gage< td=""><td>2.00</td></gage<>	2.00
1-Aug-2008	<gage< td=""><td>DRY</td><td>1.34</td><td><gage< td=""><td>1.52</td><td>3.36</td><td>2.28</td><td>DRY</td><td><gage< td=""><td>2.56</td></gage<></td></gage<></td></gage<>	DRY	1.34	<gage< td=""><td>1.52</td><td>3.36</td><td>2.28</td><td>DRY</td><td><gage< td=""><td>2.56</td></gage<></td></gage<>	1.52	3.36	2.28	DRY	<gage< td=""><td>2.56</td></gage<>	2.56
2-Sep-2008	<gage< td=""><td>DRY</td><td>2.20</td><td><gage< td=""><td>2.50</td><td>3.38</td><td>2.90</td><td>DRY</td><td><gage< td=""><td>3.16</td></gage<></td></gage<></td></gage<>	DRY	2.20	<gage< td=""><td>2.50</td><td>3.38</td><td>2.90</td><td>DRY</td><td><gage< td=""><td>3.16</td></gage<></td></gage<>	2.50	3.38	2.90	DRY	<gage< td=""><td>3.16</td></gage<>	3.16
2-Oct-2008	<gage< td=""><td>DRY</td><td>0.32</td><td><gage< td=""><td>2.22</td><td>3.06</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.40</td></gage<></td></gage<></td></gage<>	DRY	0.32	<gage< td=""><td>2.22</td><td>3.06</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.40</td></gage<></td></gage<>	2.22	3.06	DRY	DRY	<gage< td=""><td>2.40</td></gage<>	2.40
7-Nov-2008	<gage< td=""><td>DRY</td><td>DRY</td><td><gage< td=""><td>1.98</td><td>3.06</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.00</td></gage<></td></gage<></td></gage<>	DRY	DRY	<gage< td=""><td>1.98</td><td>3.06</td><td>DRY</td><td>DRY</td><td><gage< td=""><td>2.00</td></gage<></td></gage<>	1.98	3.06	DRY	DRY	<gage< td=""><td>2.00</td></gage<>	2.00
5-Jan-2009	<gage< td=""><td>DRY</td><td>1.72</td><td><gage< td=""><td>2.52</td><td>3.38</td><td>3.05</td><td>DRY</td><td><gage< td=""><td>2.98</td></gage<></td></gage<></td></gage<>	DRY	1.72	<gage< td=""><td>2.52</td><td>3.38</td><td>3.05</td><td>DRY</td><td><gage< td=""><td>2.98</td></gage<></td></gage<>	2.52	3.38	3.05	DRY	<gage< td=""><td>2.98</td></gage<>	2.98
12-Feb-2009	<gage< td=""><td>DRY</td><td>0.30</td><td><gage< td=""><td>2.15</td><td>3.13</td><td><gage< td=""><td>DRY</td><td><gage< td=""><td>2.60</td></gage<></td></gage<></td></gage<></td></gage<>	DRY	0.30	<gage< td=""><td>2.15</td><td>3.13</td><td><gage< td=""><td>DRY</td><td><gage< td=""><td>2.60</td></gage<></td></gage<></td></gage<>	2.15	3.13	<gage< td=""><td>DRY</td><td><gage< td=""><td>2.60</td></gage<></td></gage<>	DRY	<gage< td=""><td>2.60</td></gage<>	2.60
3-Mar-2009	<gage< td=""><td>DRY</td><td>1.98</td><td><gage< td=""><td>2.44</td><td>3.30</td><td>2.90</td><td>DRY</td><td><gage< td=""><td>2.90</td></gage<></td></gage<></td></gage<>	DRY	1.98	<gage< td=""><td>2.44</td><td>3.30</td><td>2.90</td><td>DRY</td><td><gage< td=""><td>2.90</td></gage<></td></gage<>	2.44	3.30	2.90	DRY	<gage< td=""><td>2.90</td></gage<>	2.90

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
3-Apr-2009	1.80	<gage< td=""><td>3.78</td><td><gage< td=""><td>2.72</td><td>4.40</td><td>3.52</td><td>4.26</td><td>3.30</td><td>3.92</td></gage<></td></gage<>	3.78	<gage< td=""><td>2.72</td><td>4.40</td><td>3.52</td><td>4.26</td><td>3.30</td><td>3.92</td></gage<>	2.72	4.40	3.52	4.26	3.30	3.92
1-May-2009	6.60	6.11	4.12	<gage< td=""><td>2.52</td><td>3.40</td><td>3.96</td><td>4.44</td><td>6.34</td><td>>GAGE</td></gage<>	2.52	3.40	3.96	4.44	6.34	>GAGE
3-Jun-2009	6.37	5.89	3.88	<gage< td=""><td>2.52</td><td>3.42</td><td>3.74</td><td>4.58</td><td>6.13</td><td>6.70</td></gage<>	2.52	3.42	3.74	4.58	6.13	6.70
7-Jul-2009	5.16	5.22	3.45	<gage< td=""><td>2.53</td><td>3.28</td><td>2.70</td><td>3.18</td><td>4.94</td><td>5.49</td></gage<>	2.53	3.28	2.70	3.18	4.94	5.49
5-Aug-2009	4.58	4.60	2.88	<gage< td=""><td>2.50</td><td>3.27</td><td><gage< td=""><td>2.52</td><td>4.31</td><td>4.79</td></gage<></td></gage<>	2.50	3.27	<gage< td=""><td>2.52</td><td>4.31</td><td>4.79</td></gage<>	2.52	4.31	4.79
1-Sep-2009	4.35	4.17	2.45	<gage< td=""><td>2.50</td><td>3.22</td><td>1.75</td><td>2.39</td><td>4.09</td><td>4.61</td></gage<>	2.50	3.22	1.75	2.39	4.09	4.61
1-Oct-2009	4.60	4.29	2.58	<gage< td=""><td>2.42</td><td>3.29</td><td><gage< td=""><td>3.09</td><td>4.30</td><td>4.90</td></gage<></td></gage<>	2.42	3.29	<gage< td=""><td>3.09</td><td>4.30</td><td>4.90</td></gage<>	3.09	4.30	4.90
2-Nov-2009	4.58	4.16	2.45	<gage< td=""><td>2.44</td><td>3.39</td><td>2.42</td><td>2.85</td><td>4.31</td><td>4.90</td></gage<>	2.44	3.39	2.42	2.85	4.31	4.90
1-Dec-2009	4.45	3.89	2.18	<gage< td=""><td>2.42</td><td>3.30</td><td>2.38</td><td>2.50</td><td>4.20</td><td>4.75</td></gage<>	2.42	3.30	2.38	2.50	4.20	4.75
4-Jan-2010	6.10	5.80	3.91	<gage< td=""><td>2.53</td><td>3.52</td><td>3.47</td><td>4.40</td><td>5.82</td><td>6.40</td></gage<>	2.53	3.52	3.47	4.40	5.82	6.40
3-Feb-2010	>GAGE	6.42	4.36	<gage< td=""><td>2.74</td><td>3.60</td><td>4.78</td><td>4.96</td><td>>GAGE</td><td>>GAGE</td></gage<>	2.74	3.60	4.78	4.96	>GAGE	>GAGE
1-Mar-2010	>GAGE	6.43	4.42	<gage< td=""><td>2.83</td><td>3.56</td><td>4.35</td><td>4.60</td><td>>GAGE</td><td>>GAGE</td></gage<>	2.83	3.56	4.35	4.60	>GAGE	>GAGE
1-Apr-2010	6.30	5.82	3.92	<gage< td=""><td>2.82</td><td>3.50</td><td>3.68</td><td>4.16</td><td>6.06</td><td>6.62</td></gage<>	2.82	3.50	3.68	4.16	6.06	6.62
3-May-2010	5.82	5.89	4.10	1.20	2.73	4.00	4.23	3.38	5.60	6.12
31-May-2010	5.92	5.60	3.70	1.90	2.67	3.49	3.32	3.99	5.71	6.28
2-Jul-2010	5.00	5.00	3.26	2.14	2.68	3.70	3.00	3.20	4.78	5.32
2-Aug-2010	4.52	4.36	2.52	1.90	2.48	3.36	<gage< td=""><td>3.05</td><td>4.30</td><td>4.84</td></gage<>	3.05	4.30	4.84

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
1-Sep-2010	4.72	4.48	2.75	2.20	2.52	2.90	2.60	3.40	4.51	5.05
1-Oct-2010	4.45	4.14	2.48	2.12	2.62	3.80	2.00	2.90	4.22	4.67
1-Nov-2010	3.91	3.42	1.82	1.59	2.50	3.53	<gage< td=""><td>2.12</td><td>3.70</td><td>4.24</td></gage<>	2.12	3.70	4.24
1-Dec-2010	3.75	3.21	1.76	1.26	2.50	3.41	<gage< td=""><td>0.80</td><td>3.50</td><td>4.05</td></gage<>	0.80	3.50	4.05
3-Jan-2011	3.57	2.88	1.60	0.87	2.74	3.60	<gage< td=""><td><gage< td=""><td>3.35</td><td>3.90</td></gage<></td></gage<>	<gage< td=""><td>3.35</td><td>3.90</td></gage<>	3.35	3.90
1-Feb-2011	3.48	2.65	1.35	0.58	2.76	3.68	2.00	<gage< td=""><td>3.30</td><td>3.80</td></gage<>	3.30	3.80
1-Mar-2011	3.70	3.00	1.68	0.60	2.94	3.80	2.52	<gage< td=""><td>3.46</td><td>4.02</td></gage<>	3.46	4.02
1-Apr-2011	3.65	3.02	2.00	0.50	2.98	3.74	3.10	2.34	3.42	3.98
2-May-2011	2.90	1.12	0.68	<gage< td=""><td>2.49</td><td>3.18</td><td><gage< td=""><td><gage< td=""><td>2.56</td><td>3.26</td></gage<></td></gage<></td></gage<>	2.49	3.18	<gage< td=""><td><gage< td=""><td>2.56</td><td>3.26</td></gage<></td></gage<>	<gage< td=""><td>2.56</td><td>3.26</td></gage<>	2.56	3.26
1-Jun-2011	1.00	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.80</td><td>2.55</td><td><gage< td=""><td><gage< td=""><td>1.16</td><td>2.52</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.80</td><td>2.55</td><td><gage< td=""><td><gage< td=""><td>1.16</td><td>2.52</td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.80</td><td>2.55</td><td><gage< td=""><td><gage< td=""><td>1.16</td><td>2.52</td></gage<></td></gage<></td></gage<>	1.80	2.55	<gage< td=""><td><gage< td=""><td>1.16</td><td>2.52</td></gage<></td></gage<>	<gage< td=""><td>1.16</td><td>2.52</td></gage<>	1.16	2.52
1-Jul-2011	1.40	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.68</td><td>2.50</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.08</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.68</td><td>2.50</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.08</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.68</td><td>2.50</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.08</td></gage<></td></gage<></td></gage<></td></gage<>	1.68	2.50	<gage< td=""><td><gage< td=""><td><gage< td=""><td>2.08</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>2.08</td></gage<></td></gage<>	<gage< td=""><td>2.08</td></gage<>	2.08
2-Aug-2011	1.20	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.97</td><td>3.00</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.20</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.97</td><td>3.00</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.20</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.97</td><td>3.00</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.20</td></gage<></td></gage<></td></gage<></td></gage<>	1.97	3.00	<gage< td=""><td><gage< td=""><td><gage< td=""><td>2.20</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>2.20</td></gage<></td></gage<>	<gage< td=""><td>2.20</td></gage<>	2.20
1-Sep-2011	0.70	<gage< td=""><td><gage< td=""><td><gage< td=""><td>2.50</td><td>3.20</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.75</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>2.50</td><td>3.20</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.75</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>2.50</td><td>3.20</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.75</td></gage<></td></gage<></td></gage<></td></gage<>	2.50	3.20	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.75</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.75</td></gage<></td></gage<>	<gage< td=""><td>1.75</td></gage<>	1.75
3-Oct-2011	0.10	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.90</td><td>3.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.30</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.90</td><td>3.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.30</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.90</td><td>3.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.30</td></gage<></td></gage<></td></gage<></td></gage<>	1.90	3.80	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.30</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.30</td></gage<></td></gage<>	<gage< td=""><td>1.30</td></gage<>	1.30
2-Nov-2011	<gage< td=""><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.46</td><td>2.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.88</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.46</td><td>2.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.88</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.46</td><td>2.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.88</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.46</td><td>2.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.88</td></gage<></td></gage<></td></gage<></td></gage<>	1.46	2.80	<gage< td=""><td><gage< td=""><td><gage< td=""><td>0.88</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>0.88</td></gage<></td></gage<>	<gage< td=""><td>0.88</td></gage<>	0.88
2-Jan-2012	<gage< td=""><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.09</td><td>2.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.60</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.09</td><td>2.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.60</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.09</td><td>2.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.60</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.09</td><td>2.80</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.60</td></gage<></td></gage<></td></gage<></td></gage<>	1.09	2.80	<gage< td=""><td><gage< td=""><td><gage< td=""><td>0.60</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>0.60</td></gage<></td></gage<>	<gage< td=""><td>0.60</td></gage<>	0.60
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Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
2-Mar-2012	<gage< td=""><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.15</td><td>3.22</td><td>2.40</td><td><gage< td=""><td><gage< td=""><td>0.90</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.15</td><td>3.22</td><td>2.40</td><td><gage< td=""><td><gage< td=""><td>0.90</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.15</td><td>3.22</td><td>2.40</td><td><gage< td=""><td><gage< td=""><td>0.90</td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.15</td><td>3.22</td><td>2.40</td><td><gage< td=""><td><gage< td=""><td>0.90</td></gage<></td></gage<></td></gage<>	1.15	3.22	2.40	<gage< td=""><td><gage< td=""><td>0.90</td></gage<></td></gage<>	<gage< td=""><td>0.90</td></gage<>	0.90
2-Apr-2012	<gage< td=""><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.24</td><td>3.38</td><td>2.76</td><td><gage< td=""><td><gage< td=""><td>2.02</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td><gage< td=""><td>2.24</td><td>3.38</td><td>2.76</td><td><gage< td=""><td><gage< td=""><td>2.02</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>2.24</td><td>3.38</td><td>2.76</td><td><gage< td=""><td><gage< td=""><td>2.02</td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>2.24</td><td>3.38</td><td>2.76</td><td><gage< td=""><td><gage< td=""><td>2.02</td></gage<></td></gage<></td></gage<>	2.24	3.38	2.76	<gage< td=""><td><gage< td=""><td>2.02</td></gage<></td></gage<>	<gage< td=""><td>2.02</td></gage<>	2.02
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1-Feb-2013	<gage< td=""><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>1.26</td><td>3.10</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.97</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td><gage< td=""><td>1.26</td><td>3.10</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.97</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>1.26</td><td>3.10</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.97</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.26</td><td>3.10</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>0.97</td></gage<></td></gage<></td></gage<></td></gage<>	1.26	3.10	<gage< td=""><td><gage< td=""><td><gage< td=""><td>0.97</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>0.97</td></gage<></td></gage<>	<gage< td=""><td>0.97</td></gage<>	0.97
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1-Apr-2013	<gage< td=""><td><gage< td=""><td>1.04</td><td><gage< td=""><td>2.66</td><td>3.65</td><td>3.16</td><td><gage< td=""><td><gage< td=""><td>2.46</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.04</td><td><gage< td=""><td>2.66</td><td>3.65</td><td>3.16</td><td><gage< td=""><td><gage< td=""><td>2.46</td></gage<></td></gage<></td></gage<></td></gage<>	1.04	<gage< td=""><td>2.66</td><td>3.65</td><td>3.16</td><td><gage< td=""><td><gage< td=""><td>2.46</td></gage<></td></gage<></td></gage<>	2.66	3.65	3.16	<gage< td=""><td><gage< td=""><td>2.46</td></gage<></td></gage<>	<gage< td=""><td>2.46</td></gage<>	2.46
1-May-2013	<gage< td=""><td><gage< td=""><td>1.92</td><td><gage< td=""><td>2.76</td><td>3.78</td><td>3.44</td><td><gage< td=""><td><gage< td=""><td>2.96</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.92</td><td><gage< td=""><td>2.76</td><td>3.78</td><td>3.44</td><td><gage< td=""><td><gage< td=""><td>2.96</td></gage<></td></gage<></td></gage<></td></gage<>	1.92	<gage< td=""><td>2.76</td><td>3.78</td><td>3.44</td><td><gage< td=""><td><gage< td=""><td>2.96</td></gage<></td></gage<></td></gage<>	2.76	3.78	3.44	<gage< td=""><td><gage< td=""><td>2.96</td></gage<></td></gage<>	<gage< td=""><td>2.96</td></gage<>	2.96
3-Jun-2013	<gage< td=""><td><gage< td=""><td>0.50</td><td><gage< td=""><td>2.26</td><td>3.08</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.28</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>0.50</td><td><gage< td=""><td>2.26</td><td>3.08</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.28</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	0.50	<gage< td=""><td>2.26</td><td>3.08</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.28</td></gage<></td></gage<></td></gage<></td></gage<>	2.26	3.08	<gage< td=""><td><gage< td=""><td><gage< td=""><td>2.28</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>2.28</td></gage<></td></gage<>	<gage< td=""><td>2.28</td></gage<>	2.28
1-Jul-2013	<gage< td=""><td><gage< td=""><td>1.08</td><td><gage< td=""><td>2.50</td><td>3.54</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.50</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	<gage< td=""><td>1.08</td><td><gage< td=""><td>2.50</td><td>3.54</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.50</td></gage<></td></gage<></td></gage<></td></gage<></td></gage<>	1.08	<gage< td=""><td>2.50</td><td>3.54</td><td><gage< td=""><td><gage< td=""><td><gage< td=""><td>2.50</td></gage<></td></gage<></td></gage<></td></gage<>	2.50	3.54	<gage< td=""><td><gage< td=""><td><gage< td=""><td>2.50</td></gage<></td></gage<></td></gage<>	<gage< td=""><td><gage< td=""><td>2.50</td></gage<></td></gage<>	<gage< td=""><td>2.50</td></gage<>	2.50

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
1-Aug-2013	>GAGE	>GAGE	5.46	0.12	2.80	4.14	5.16	5.18	>GAGE	>GAGE
1-Sep-2013	>GAGE	>GAGE	5.35	2.95	2.78	4.20	5.30	5.25	>GAGE	>GAGE
1-Oct-2013	>GAGE	>GAGE	5.38	3.40	2.82	4.27	4.80	4.86	>GAGE	>GAGE
4-Nov-2013	6.12	5.62	5.35	3.38	2.79	4.32	3.50	3.78	5.90	6.45
3-Dec-2013	6.00	5.48	5.22		2.70		3.48		5.79	
4-Dec-2013				3.46						
5-Dec-2013						4.20				
6-Dec-2013								4.00	•	
7-Dec-2013										6.32
1-Jan-2014	6.31	5.76	5.29	3.40	2.68	4.20	3.70	4.25	6.10	6.67
5-Feb-2014	6.08	5.50	3.79	3.40	2.55	3.95	3.42	3.70	5.84	6.39
3-Mar-2014	6.55	5.84	3.94	3.38	2.60	4.02	3.90	4.36	6.35	>GAGE
1-Apr-2014	>GAGE	>GAGE	4.68	3.44	3.02	4.46	4.84	4.84	>GAGE	>GAGE
2-May-2014	>GAGE	>GAGE	>GAGE	3.60	3.00	4.62	6.42	6.36	>GAGE	>GAGE
2-Jun-2014	>GAGE	>GAGE	>GAGE	3.52	2.82	4.23	4.80	4.88	>GAGE	>GAGE
1-Jul-2014	6.57	5.44	5.33	3.40	2.71	3.34	3.92	4.06	>GAGE	>GAGE
1-Aug-2014	5.95	5.33	3.50	3.38	2.69	4.28	3.34	3.67	5.72	6.24

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
1-Sep-2014	5.06	4.56	2.94	3.38	2.65	4.14	2.98	3.00	4.98	5.40
6-Oct-2014	5.27	4.74	3.02	3.24	2.58	4.00	3.34	3.20	5.04	5.58
3-Nov-2014	5.23	4.92	2.97	3.13	2.44	3.95	2.80	3.03	5.02	5.54
1-Dec-2014	5.41	5.25	3.42	3.28	3.05	4.01	3.47	3.49	5.18	5.71
2-Jan-2015	5.88	5.37	3.94	3.34	3.54	4.54	3.53	4.09	5.65	6.20
2-Feb-2015	6.15	5.44	4.02	3.44	3.78	4.08	3.57	3.99	5.96	6.50
2-Mar-2015	5.86	5.14	3.26	3.36	3.83	3.97	3.46	3.64	5.64	6.18
1-Apr-2015	5.66	4.70	3.14	3.22	3.78	3.84	3.38	3.85	5.46	5.98
1-May-2015	6.68	5.50	3.44	3.64	3.66	4.12	4.06	4.70	6.48	>GAGE
2-Jun-2015	>GAGE	5.88	3.82	3.40	3.66	4.25	4.44	4.80	>GAGE	>GAGE
1-Jul-2015	6.48	5.38	3.44	3.35	3.58	4.34	3.84	4.10	6.26	>GAGE
31-Jul-2015	5.56	4.55	2.70	3.16	3.51	4.12	3.34	3.66	5.44	5.95
1-Sep-2015	5.06	3.84	2.12	2.66	3.40	3.92	2.75	3.07	4.86	5.37
1-Oct-2015	5.14	3.88	2.47	2.47	3.50	4.40	3.46	3.18	4.94	5.45
2-Nov-2015	4.86	3.65	2.18	2.02	3.50	4.10	3.07	2.85	4.64	5.16
1-Dec-2015	5.40	4.26	2.22	2.17	3.54	4.07	3.34	3.85	5.19	5.70
31-Dec-2015	6.20	5.13	3.12	2.62	3.60	4.48	3.66	4.75	5.97	6.48

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
1-Feb-2016	>GAGE	5.90	3.78	3.20	3.56	4.18	4.48	5.00	>GAGE	>GAGE
1-Mar-2016	>GAGE	5.64	3.70	3.36	3.60	4.03	4.18	4.78	6.60	>GAGE
1-Apr-2016	>GAGE	6.10	3.75	3.46	3.63	4.25	4.74	5.37	>GAGE	>GAGE
2-May-2016	>GAGE	5.78	3.78	3.45	3.48	4.40	4.40	4.92	>GAGE	>GAGE
1-Jun-2016	5.82	4.65	3.76	3.36	3.45	3.83	3.22	3.98	5.64	6.14
1-Jul-2016	5.62	4.42	2.42	3.36	3.50	4.14	3.34	3.96	5.40	5.94
1-Aug-2016	5.10	3.84	2.13	3.08	3.34	4.06	2.26	3.52	4.86	5.42
1-Sep-2016	5.55	4.35	2.49	3.12	3.42	4.17	3.36	4.37	5.33	5.86
3-Oct-2016	5.02	3.77	2.06	2.56	3.50	3.94	2.32	3.58	4.80	5.32
31-Oct-2016	4.48	3.00	1.36	1.86	3.12	3.68	0.00	2.88	4.32	4.84
1-Dec-2016	4.20	2.70	0.00	1.25	2.94	3.78	0.00	2.40	3.99	4.50
11-Jan-2017	5.76	4.72	2.81	2.44	3.38	4.22	3.81	4.86	5.54	6.08
1-Feb-2017	6.62	5.40	3.34	2.74	3.50	4.12	4.20	5.07	6.40	>GAGE
1-Mar-2017	6.26	5.12	3.13	2.89	3.54	4.06	3.72	4.72	6.04	6.58
30-Mar-2017	5.54	4.37	2.50	2.54	3.48	3.88	3.21	3.90	5.30	5.84
1-May-2017	5.36	4.18	2.31	2.48	4.46	3.88	2.98	3.88	5.12	5.64
2-Jun-2017	4.88	3.62	1.81	2.10	3.50	2.78	1.90	3.40	4.62	5.14

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
30-Jun-2017	6.49	5.28	3.20	3.02	3.60	4.32	4.50	5.43	6.28	>GAGE
1-Aug-2017	6.22	5.12	3.00	3.16	3.50	4.24	3.84	4.94	6.00	6.52
31-Aug-2017	5.66	4.58	2.70	3.18	3.70	4.38	3.52	4.38	5.46	5.98
2-Oct-2017	5.18	4.08	2.30	2.96	3.50	4.13	2.78	3.98	4.96	5.46
1-Nov-2017	4.70	3.50	1.86	2.54	3.42	4.00	1.95	3.40	4.60	5.06
5-Dec-2017	4.42	2.90	1.58	3.00	3.25	3.72	<gage< td=""><td>2.75</td><td>4.20</td><td>4.74</td></gage<>	2.75	4.20	4.74
2-Jan-2018	4.48	3.00	1.62	1.64	3.22	3.80	1.65	2.70	4.28	4.80
1-Feb-2018	4.64	2.96	1.80	1.40	3.26	3.98	3.04	2.75	4.40	4.94
1-Mar-2018	>GAGE	5.84	3.64	2.64	3.58	4.10	4.56	5.20	>GAGE	>GAGE
4-Apr-2018	6.02	-	3.25	2.58	3.46	4.06	3.48	4.38	5.83	6.34
1-May-2018	5.62	4.54	2.64	2.42	3.36	3.94	3.18	4.18	5.42	5.96
1-Jun-2018	5.52	4.54	2.66	2.57	3.56	4.26	3.48	4.24	5.34	5.86
3-Jul-2018	5.96	4.82	2.86	2.96	3.56	4.31	3.47	4.48	5.65	6.17
2-Aug-2018	6.29	5.56	2.84	3.69	4.38	5.02	4.02	5.09	6.10	6.67
4-Sep-2018	6.68	5.75	2.50	3.55	4.33	4.34	4.28	5.25	6.78	7.00
1-Oct-2018	6.59	5.52	2.47	3.51	4.29	4.09	4.08	5.00	6.29	6.97
3-Dec-2018	>GAGE	>GAGE	5.49	3.70	4.30	5.30	>GAGE	>GAGE	>GAGE	>GAGE

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
4-Jan-2019	>GAGE	>GAGE	5.18	3.59	3.75	4.00	5.65	>GAGE	>GAGE	>GAGE
1-Feb-2019	>GAGE	>GAGE	5.16	3.53	3.59	4.70	5.00	>GAGE	>GAGE	>GAGE
1-Mar-2019	>GAGE	6.05	3.76	3.59	3.55	4.60	4.69	>GAGE	>GAGE	>GAGE
5-Apr-2019	>GAGE	5.60	3.64	3.54	3.56	4.46	4.28	>GAGE	>GAGE	>GAGE
30-Apr-2019	6.58	5.26	3.16	3.44	3.40	4.38	4.10	>GAGE	6.38	>GAGE
5-Jun-2019	-	4.10	3.34	3.10	3.36	4.08	2.42	4.76	5.16	5.68
2-Jul-2019	6.18	4.94	3.00	3.46	3.34	4.58	3.54	5.60	5.94	6.48
31-Jul-2019	5.79	4.55	2.66	3.42	3.58	4.49	3.48	>GAGE	3.59	6.12
5-Sep-2019	5.50	4.26	2.48	3.42	3.52	4.48	2.96	>GAGE	5.30	5.84
1-Oct-2019	5.00	3.56	1.98	3.14	3.44	4.12	0.00	5.80	4.70	5.28
4-Nov-2019	5.22	3.98	2.30	3.28	3.58	4.30	3.34	6.02	4.98	5.52
3-Dec-2019	4.98	3.72	2.10	3.02	3.36	4.14	2.72	5.50	4.78	5.30
2-Jan-2020	5.70	4.52	2.66	3.38	3.40	4.52	3.46	-	5.52	6.02
3-Feb-2020	5.88	4.52	2.56	3.36	3.34	4.44	3.34	-	5.70	6.22
1-Mar-2020	>GAGE	6.16	3.90	3.57	3.43	4.26	4.62	N/A	N/A	>GAGE
2-Mar-2020	6.02	4.74	2.82	3.46	3.36	4.74	3.44	-	5.82	6.34
1-Apr-2020	5.54	4.18	2.36	3.36	3.36	4.32	3.34	-	5.34	5.86

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
4-May-2020	5.06	3.76	2.12	3.36	3.30	4.18	3.36	-	4.88	5.38
1-Jun-2020	4.62	3.15	1.58	2.38	3.26	3.94	0.00	-	4.40	4.90
1-Jul-2020	5.12	3.86	2.10	2.64	3.38	4.18	2.86	-	-	6.44
12-Aug-2020	5.16	3.92	2.10	2.50	3.36	4.12	2.64	-	-	5.50
1-Sep-2020	5.92	4.86	2.88	3.34	3.48	4.68	4.22	-	-	6.24
12-Oct-2020	>GAGE	>GAGE	4.70	3.54	3.60	4.40	5.14	>GAGE	>GAGE	>GAGE
6-Nov-2020	>GAGE	5.84	3.66	3.48	3.52	4.26	4.40	N/A	N/A	>GAGE
1-Dec-2020	6.26	5.12	3.08	3.52	3.50	4.32	3.56	N/A	N/A	6.58
4-Jan-2021	6.14	5.09	3.00	3.60	3.50	4.38	3.48	N/A	N/A	6.48
9-Feb-2021	6.60	5.43	3.35	3.58	3.48	4.26	3.96	N/A	N/A	>GAGE
5-Apr-2021	6.50	5.17	3.12	3.49	3.47	4.78	3.70	N/A	N/A	>GAGE
3-May-2021	6.64	5.45	3.21	3.48	3.40	4.86	4.00	N/A	N/A	>GAGE
1-Jun-2021	6.16	4.90	2.89	3.47	3.45	4.60	3.47	N/A	N/A	>GAGE
1-Jul-2021	6.45	5.24	3.28	3.54	3.58	4.69	3.93	N/A	N/A	>GAGE
2-Aug-2021	6.60	5.38	3.32	3.48	3.72	4.54	4.38	N/A	N/A	>GAGE
7-Sep-2021	>GAGE	>GAGE	5.50	3.60	3.92	4.40	5.78	N/A	N/A	>GAGE
4-Oct-2021	>GAGE	6.40	4.20	3.60	3.90	4.36	4.77	N/A	N/A	>GAGE

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
1-Nov-2021	>GAGE	6.28	4.10	3.58	3.86	4.40	4.62	N/A	N/A	>GAGE
1-Dec-2021	6.38	5.45	3.52	3.50	3.50	4.08	3.68	N/A	N/A	6.65
3-Jan-2022	6.20	5.15	3.20	3.56	3.48	4.26	3.57	N/A	N/A	N/A
1-Feb-2022	6.64	5.48	3.50	3.48	3.36	4.10	3.98	N/A	N/A	N/A
2-Mar-2022	5.90	4.74	2.86	3.44	3.30	5.18	3.36	N/A	N/A	N/A
4-Apr-2022	5.88	4.68	2.86	3.60	3.62	5.10	3.38	N/A	N/A	N/A
4-May-2022	5.60	4.36	2.54	3.34	3.74	4.88	3.36	N/A	N/A	N/A
1-Jun-2022	5.74	4.62	2.80	3.43	3.54	4.91	3.34	N/A	N/A	N/A
1-Jul-2022	5.50	4.18	2.46	3.38	3.64	4.76	3.35	N/A	N/A	N/A
1-Aug-2022	6.22	4.94	2.98	3.38	3.62	4.76	3.72	N/A	N/A	N/A
2-Sep-2022	6.16	4.89	2.90	3.88	3.58	4.76	3.98	N/A	N/A	N/A
3-Oct-2022	5.76	4.44	2.48	3.02	3.46	4.58	3.18	N/A	N/A	N/A
4-Nov-2022	5.08	3.76	1.90	2.68	3.46	5.06	DRY	N/A	N/A	N/A
5-Dec-2022	4.82	3.64	1.84	2.64	3.22	4.72	DRY	N/A	N/A	N/A
3-Jan-2023	5.56	4.26	2.38	2.52	3.42	5.58	DRY	N/A	N/A	N/A
1-Feb-2023	5.60	4.36	2.44	2.58	3.50	5.72	DRY	N/A	N/A	N/A
3-Mar-2023	5.28	3.88	2.08	2.06	3.30	5.94	DRY	N/A	N/A	N/A

Date	Black Pond (Gage #1)	Power Line Pond (Gage #2)	Pine Log Creek (Gage #3)	Deep Edge Pond (Gage #4)	Little Deep Edge Pond (Gage #5)	Dykes Mill Pond (Gage #6)	Joiner Lake Ditch (Gage #7)	Green Ponds Channel (Gage #8)	Green Ponds (Gage #9)	Dry Pond (Gage #10)
3-Apr-2023	5.18	3.70	2.00	1.78	3.30	6.22	DRY	N/A	N/A	N/A
1-May-2023	5.78	4.88	3.10	2.12	3.44	4.12	DRY	N/A	N/A	N/A
2-Jun-2023	5.70	4.36	2.48	1.94	3.38	3.48	DRY	N/A	N/A	N/A
21-Jul-2023	5.58	4.36	2.50	2.20	NA	3.54	DRY	N/A	N/A	N/A
24-Aug-2023	5.38	4.02	2.18	1.98	3.35	3.36	DRY	N/A	N/A	N/A
16-Oct-2023	5.08	3.70	2.05	1.38	3.30	3.46	DRY	N/A	N/A	N/A
27-Nov-2023	4.70	3.12	1.87	0.80	3.20	3.50	2.15	N/A	N/A	N/A
29-Dec-2023	5.52	4.15	2.22	1.10	3.25	3.70	3.45	N/A	N/A	N/A

Notes:

"-" = No reading for staff gage.

DRY = Pond, channel, or canal is dry.

>GAGE = Water level is above staff gage.

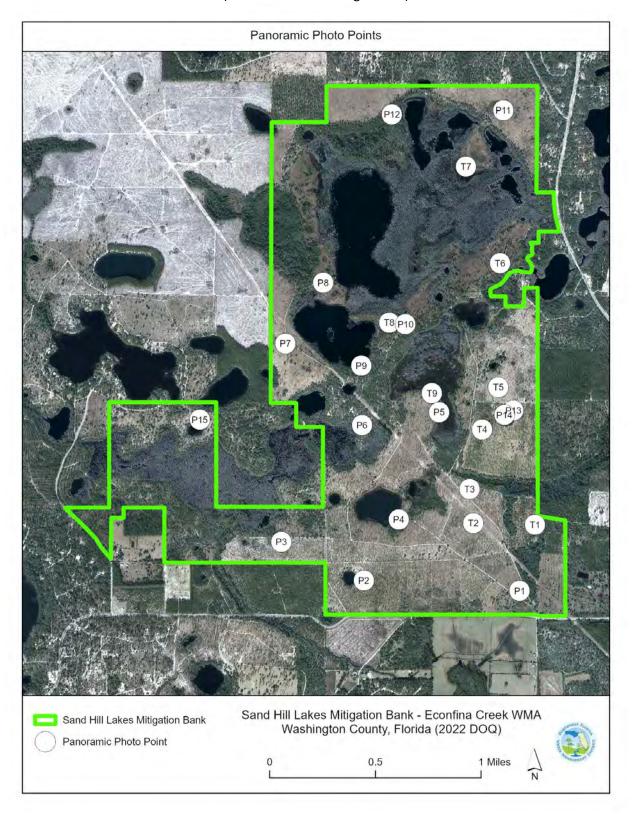
<GAGE = Water level is down slope of staff gage.

N/A = Staff gage is missing.

Staff gages were generally installed in shallow water near shore. Staff gage elevations have not been surveyed. Staff gage readings are used to monitor water level fluctuations; they do not represent maximum or average water level depths. Staff gages are monitored by Florida Wildlife Conservation Commission (FWC) personnel.

Appendix D (Panoramic Photo Monitoring)

Appendix D (Panoramic Monitoring Photos)





P1 - 2006



P1 - 2023



P2 - 2006



P2 - 2023



P3 - 2006



P3 - 2023



P4 - 2006



P4 - 2023



P5 – 2006



P5 – 2023



P6 - 2006



P6 - 2023



P7 - 2006



P7 - 2023



P8 - 2006



P8 - 2023



P9 – 2006



P9 - 2023



P10 - 2006



P10 - 2023



P11 - 2006



P11 - 2023



P12 - 2006



P12 - 2023



P13 - 2006



P13 - 2023



P14 - 2006



P14 - 2023



P15 - 2006



P15 - 2023



T1 - 2006



T1 - 2023



T2 - 2006



T2 - 2023



T3 - 2006



T3 - 2023



T4 - 2006



T4 - 2023



T5 - 2006



T5 - 2023



T6 - 2006



T6 – 2023



T7 - 2006



T7 – 2023



T8 - 2006



T8 - 2023



T9 - 2006



T9 - 2023

Note: Panoramic monitoring photos have been annually, since 2006, at each point identified in the FDEP permit. Photos from all years are available online at https://nwfwater.com/water-resources/regional-wetland-mitigation-plan/nwfwmd-mitigation-sites/choctawhatchee-watershed-mitigation-sites/sand-hill-lakes-mitigation-bank/panoramic-photos/.