SOUTH FLORIDA WATER MANAGEMENT DISTRICT

VEGETATION COMMUNITIES WITHIN THE LOXAHATCHEE SLOUGH

A GIS-BASED ANALYSIS OF BASELINE CONDITIONS (1995-2000) BEFORE THE CONSTRUCTION AND OPERATION OF THE G-160 STRUCTURE



WATER SUPPLY DEPARTMENT SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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Technical Publication WS-18B

By

John G. Zahina and Jimmy Kramp

Water Supply Department

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EXECUTIVE SUMMARY

A vegetation monitoring plan was developed as part of the permitting process for the G-160 water control structure, which is being constructed in the C-18 Canal in the Loxahatchee Slough Natural Area. The purpose of this monitoring plan is to characterize vegetation communities within the Loxahatchee Slough Natural Area prior to construction and after operation of the G-160 Structure. This monitoring plan is designed to determine the effectiveness of the first tier of improvements completed under the North Palm Beach County Comprehensive Water Management Plan (Northern Plan) and represents a key component of the Minimum Flows and Levels Recovery Plan for the Loxahatchee River. The results are expected to provide the South Florida Water Management District (SFWMD or District) with beneficial information that will allow adjustments to the operation of the G-160 Structure to effectively meet the Northern Plan objectives, including restoration of a more natural hydroperiod to the Loxahatchee Slough Natural Area and enhanced dry season flows to the Loxahatchee River. The work includes two approaches to monitoring vegetation-- a field-based, site-specific component and a GIS-based, landscape-level analysis of current and historic vegetation communities. This document presents the findings of a baseline (preconstruction/operation) analysis of the extent of major vegetation types within the Loxahatchee Slough Natural Area.

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INTRODUCTION

The extant natural areas of the present-day Loxahatchee Slough are composed of approximately 14,000 acres of pine flatwoods, swale, wet prairies, hydric hammock, strand swamp, slough, dome swamp, depression marsh, and disturbed areas within the Hungryland Slough Natural Area (approx. 3,000 acres) and the Loxahatchee Slough Natural Area (approx. 11,000) (**Figure 1**). Palm Beach County owns and manages both of these natural areas. The slough represents the headwaters of the Loxahatchee River, Florida's first federally designated Wild and Scenic River. The site is the single most ecologically diverse tract of protected land in Palm Beach County, including nine distinct habitat types, the largest oak hammock and swale/slough in the County and 63 federally or state-listed species of plants and animals (Gann et al. 2002).



Figure 1. Location of the Loxahatchee Slough Natural Area.

Within the Loxahatchee Slough, land elevations vary from 14 to 19 feet National Geodetic Vertical Datum (NGVD), while the surrounding area surface elevations range from 20- to 23 feet NGVD. The unperched groundwater table ranges in elevation from a low of approximately 13 feet NGVD near the C-18 Canal to a western high of approximately 21 feet NGVD. The groundwater table in this area is relatively shallow and varies significantly due to changes in rainfall and canal operation. The hydrology of the slough has been severely altered through the construction of drainage canals, flood protection berms and fragmentation of the watershed by road construction.

and hydroperiod alterations have supported the establishment of invasive exotic plant species, such as melaleuca (*Melaleuca quinquenervia*), Old-world climbing fern (*Lygodium microphyllum*) and Brazilian pepper (*Schinus terebinthifolius*), decreasing habitat quality for native flora and fauna.

In 2002, a mutual agreement was reached between Palm Beach County's Department of Environmental Resources Management (County) and the South Florida Water Management District (District) with regard to execution of the Loxahatchee Slough Restoration and G-160 Structure Monitoring Plan (Monitoring Plan). The Monitoring Plan was developed to assess the effects of the G-160 water control structure (and subsequent raising of water elevations) on the vegetation structure and composition within the slough, and to determine if wetland restoration goals are achieved. The results are expected to provide the District with beneficial information that will allow adjustments to the operation of the G-160 Structure to effectively meet management goals. This monitoring effort will characterize vegetation communities within the Loxahatchee Slough Natural Area prior to construction and after operation of the G-160 Structure and will include both field studies and landscape-level analysis. This monitoring plan is designed to determine the effectiveness of the first tier improvements completed under the Northern Plan and represents a key component of the Minimum Flows and Levels Recovery Plan for the Loxahatchee River. The G-160 project is also being implemented, in part, as mitigation for adverse wetland impacts that will result from the construction of the Mirasol project, as authorized under District permit # 50-04118-P and the corresponding U.S. Army Corps of Engineers permit.

Proposed G-160 Structure

The proposed G-160 Structure will be a water control structure within the C-18 Canal upstream (south) of its junction with the western leg of the C-18 Canal (C-18 W) as shown in **Figure 1**. The purpose of this structure is to provide for a more natural hydroperiod to the Loxahatchee Slough Natural Area and to enhance dry season and base flows to the Northwest Fork of the Loxahatchee River (Northwest Fork), while maintaining the existing level of flood protection for the developed areas within the C-18 basin. A groundwater recharge benefit may also be realized resulting from the G-160 operation. The operation of the C-18 Canal, along with adjacent land development activities, has caused the surface water levels within the slough to be maintained at lower than historic (pre-development) levels.

Construction of the structure will take place entirely within the existing 300 feet wide right-of-way of the C-18 Canal. Approximately 10,370 cubic yards of soil will be excavated from the levee (upland) for the construction of a bypass channel on the east side of the canal, with the excavated material placed north and south of the channel on the existing levee and stabilized with siltation fencing. The structure itself will traverse the canal and encompass an area 50 feet long, with 20 feet of stone protection upstream and downstream of the facility.

The proposed structure will provide both water supply and drainage benefits, with a primarily environmental water supply component. This structure will be capable of producing up to 65 cubic feet per second (cfs) for base flow augmentation to the Northwest Fork during the dry season. Discharges through the structure are expected to range from 65 to 700 cubic feet per second (cfs) during the wet season. Water supply releases to the Northwest Fork would range from 0 to 100 cfs during the dry season, depending on water availability. The District intends to provide a base flow of 50 cfs whenever water is available. With rainfall and runoff, the hydraulic heads across the G-160 structure will be controlled at 0.5 feet to provide flood protection to private landowners at the existing (pre-construction) level. The structure is designed to accommodate a maximum discharge rate of 1890 cfs. However, the likelihood of such a storm event is minimal. Water levels upstream of the proposed structure will have a sustained target ranging from 16.0 to 17.5 feet NGVD, though with rainfall and runoff the maximum water level may be allowed to reach 17.8 feet NGVD. The maximum discharge rate will be used when stages exceed 17.70 feet NGVD.

Water levels in the C-18 are currently controlled with the operation of the S-46 structure, a concrete gated spillway with three vertical lift gates, located approximately 2,400 feet east of Florida's Turnpike. This structure is operated to maintain an optimum headwater elevation of 14.8 feet, when available. During major storm events, the gates are operated manually to lower water levels and maintain a stage of 12.8 feet NGVD.

Vegetation Monitoring Plan

The Monitoring Plan (**Appendix A**) requires that Palm Beach County conduct field (site specific) vegetation and hydrological monitoring within the Loxahatchee Slough Natural Area (slough) (**Figure 1**). The District will conduct a GIS-based analysis of vegetation communities within the slough utilizing the Florida Land Use, Cover and Forms Classification System (FLUCCS) developed by the Florida Department of Transportation, 1995 update.

Primary vegetation communities in the Loxahatchee Slough study area include wetlands (palustrine and lacustrine) along with uplands (pine flatwoods). There is also a ridge of hydric hammock that contains a mix of temperate (e.g., oaks) and tropical upland (e.g., stopper and wild coffee) species. Hydroperiod improvements expected from the G-160 Structure should be most evident in wetlands adjacent to, and east of, the C-18 Canal. Some wetlands within the slough are generally of good quality, historically comprised of a matrix of cypress and sloughs. In other areas, shrubby vegetation (e.g., wax myrtle) has invaded the slough and melaleuca is widespread in much of the southern areas. Nonforested wetlands (pickerel weed-Sagittaria marsh and Eleocharis flats) west of the C-18 Canal have been marginally affected by reduced hydroperiod because of drainage practices in the basin. This can be observed as an increase of non-native or nuisance plant species, as well as a decrease in the distribution and abundance of aquatic invertebrates and vertebrates. In addition, decreased hydroperiod can disrupt organic decomposition rates, nutrient cycling and thus affect primary and secondary production. Restoring a more natural hydroperiod with wet and dry cycles is expected to counteract the effects of the reduced hydroperiod in these wetlands.

Introduction

METHODS

Literature Search and Review to Determine Historical Vegetation

A literature search was conducted to identify other documentation or studies of historical (pre-drainage) vegetation within the Loxahatchee Slough. Relevant data sets and GIS coverages were compiled and reviewed, and results were compared with current conditions.

GIS Analysis of Current Conditions

As part of the Monitoring Agreement (**Appendix A**), the District has agreed to analyze aerial photography from 1995, 2000, 2005 and 2010. Aerial photography taken before the construction and operation of the G-160 structure (1995 and 2000) will be compared with those taken after (2005 and 2010). This information, together with field monitoring studies, will be used to gauge the success of achieving improved hydroperiods within the slough. Digital Orthophoto Quad (DOQ) aerial photography from the U.S. Geological Survey, available every 5 years, will be used as the base GIS coverage. (Author's note: the District, U.S. Army Corps of Engineers and other state Water Management Districts are currently considering alternative sensors and cameras as sources of digital orthophotography; U.S. Geological Survey/NAPP data, the current source maps for the DOQs, may not be the source of future DOQs obtained by the District. Hence, an alternative source of base photography may be used in future analyses.)

Presented in this report are the methods and results of an analysis of 1995 and 2000 DOQs, determining the extent of existing vegetation communities. The FLUCCS (1995) classification system was followed to a minimum of "Level 3" interpretation in defining landscape features. In some instances, a Level 4 interpretation was used where necessary and appropriate. The specific methodology, standards and guidelines used in the photointerpretation and geographical referencing process can be found in the metadata for these GIS coverages (**Appendix B**). GIS coverages were developed for each aerial photo set. From these coverages, the extent (area) of each land use category was calculated. Maps were printed and included in this document. The next update to this document (expected by 2007) will include a section detailing the G-160 structure operation, and changes in hydrology and vegetation resulting since its operation.

RESULTS

Pre-Development Vegetation within the Loxahatchee Slough

The first known map indicating the location and generalized shape of the Loxahatchee Slough is most likely that published by William de Brahm in 1770 (de Vorsey 1971). De Brahm was commissioned by the King of England to survey the southern region of North America and his report shows a map of the "Grenville Inlet", now known as the Jupiter Inlet. The map shows five major branches of the (Loxahatchee) river with two of these branches (present day Southwest Fork and Northwest Fork) originating from a marshy land to the west and southwest (the Loxahatchee Slough) (Figure 2). Later illustrations of this area include military maps from 1839 (USACE 1839) (Figure 3) and 1856 (Ives 1856) (Figure 4), which show the Loxahatchee Slough in relation to the Loxahatchee River, but these do not provide reliable depictions of vegetation community types.



Figure 2. William de Brahm's 1770 Map of the Loxahatchee ("Grenville") River and Slough Area (from de Vorcy 1971).



Figure 3. 1839 Military Map of the Loxahatchee Slough Area (USACE 1839).



Figure 4. 1856 Military Map of the Loxahatchee Slough Area (Ives 1856).

The earliest map providing details of the vegetation communities within the slough is most likely from the original General Land Survey Office's (GLO) Survey of

Township and Range Boundaries during the mid-1800s (GLO 1845). Figure 5 shows a composite of five township/range maps and includes the area from the central embayment of the Loxahatchee River to the upstream reaches of the Loxahatchee Slough. The area adjacent to and upstream from the C-18 and C-18 West intersection in present-day Loxahatchee Slough Natural Area is located in Section Township 41S, Range 42E. Field notes (Appendix C) generally describe the area near the present C-18 Canal as an "…inundated swamp mostly scrubby cypress mixed with saw grass ponds impassable." In fact, seven sections within this township/range were not included in the original May 1845 (GLO 1845) survey because of the difficulty in accessing the site. These sections were later surveyed in 1907.

The first known aerial photography available for the Loxahatchee Slough area is from 1940 (Richardson 1977), taken by the United States Department of Agriculture. **Figure 6** shows a section of this photography. Hohner (1994) conducted an in-depth GIS analysis of this aerial photo from the area of the Loxahatchee Slough. Results from Hohner's analysis (**Figure 7**) indicated that, in 1940, the slough was dominated by non-forested wetlands (69 percent of the study area; e.g., marsh, non-vegetated wetlands and wet prairie) and forested wetlands (22 percent of the study area; mostly bald cypress swamp).

Analysis of Current (1995, 2000) Conditions

District staff completed Photointerpretation of 1995 and 2000 DOQs in 2002. The extent of general land use categories within the study area of the Loxahatchee Slough Natural Area are shown in **Table 1** and **Figure 8**. The most extensive land use type was wetlands, which accounted for approximately 67 percent of the study area. Upland forest, consisting of mostly pine flatwoods, accounted for approximately 22 percent of the study area. The remaining area (approximately 11 percent) was associated with disturbed lands (i.e., urban, agricultural and man-made water bodies). A more detailed description of the natural vegetation community types identified in this study is presented in **Table 2**. For the most part, there were no large changes between 1995 and 2000 in the total area for most community types. There was a small decrease (1.2 percent in pine forest and a small (0.5 percent increase in wetland community types during this period, perhaps resulting from above average rainfall experienced throughout most of the 1990s (**Figure 9**). However, these small changes were within the error associated with photointerpretation (+/- 30 feet for a polygon line, **Appendix B**, Metadata).



Figure 5. 1845 Survey Maps of the Loxahatchee River and Slough Area (source: GLO 1845), Shown Above is a Composite of Five Township-Range Areas.



Figure 6. 1940 Black and White Aerial Photograph of the Loxahatchee Slough Area (source: Hohner 1994).



Figure 7. Extent of Major Vegetation Types within the Loxahatchee Slough in 1940 (source: Hohner 1994).

Table 1. Major Land Use Categories within the Loxahatchee Slough Natural Area.

Land Use Description	Land Use Code	1995 Area (Ha)	2000 Area (Ha)	Change
	(FLUCCS ¹)			From 1995 to
				2000
Urban & Built Up	100	5.89 (total)	5.89 (total)	None
Low Density Residential	110	0.10	0.10	
Medium Density Residential	120	0.59	0.59	
Open Land	190	5.20	5.20	
Agriculture	200	378.66 (total)	378.66 (total)	None
Cropland & Pastureland	210	378.66	378.66	
Upland Forests	400	1108.86 (total)	1095.51 (total)	-13.35 (total)
Coniferous Forests ²	410	986.96	973.61	-13.35
Hardwood Forests	420	121.90	121.90	None
Water	500	95.59 (total)	93.53 (total)	-2.06 (total)
Streams & Waterways	510	63.09	61.03	-2.06
Reservoirs	530	32.50	32.50	None
Wetlands	600	3411.67 (total)	3427.07 (total)	+15.40 (total)
Hardwood Forests	610	60.30	62.51	+2.21
Coniferous Forests ³	620	2259.36	2269.26	+9.9
Forested Mixed	630	276.66	278.72	+2.06
Vegetated Non-Forested	640	815.35	816.58	+1.23
Barren Land	700	89.71 (total)	89.71 (total)	None
Disturbed Land	740	89.71	89.71	

¹Florida Land Use, Cover and Forms Classification System (1995) ²Slash pine is the dominant upland conifer ⁸Bald cypress is the dominant wetland conifer



Figure 8. Land Use Categories from the 1995 and 2000 DOQs.

Table 2.	Extent of Major Vegetation Communities within the Loxahatchee Slough Natural
	Area; from Aerial Photointerpretation of 1995 and 2000 USGS DOQs.

Natural Community Type	Land Use Code	1995	2000	Percent
	(FLUCCS ¹)	Area (Ha)	Area (Ha)	Change ²
Upland Pine Flatwoods	411	986.96	973.61	-0.26 %
Upland Melaleuca	424	42.61	42.61	0
Upland Cabbage Palm	428	79.28	79.28	0
Wetland- Mixed Hardwood Shrubs	6172	40.46	42.67	+0.04
Wetland Melaleuca	6191	19.83	19.83	0
Wetland Cypress Forest	621	111.02	111.02	0
Wetland Cypress & Mixed Hardwoods	6216	288.09	299.77	+0.23
Wetland Cypress & Pines	6217	4.22	4.22	0
Wetland Cypress & Melaleuca	6218	535.87	535.87	0
Wetland Cypress with Wet Prairies	6219	887.97	887.97	0
Wetland Cypress, Pine & Cabbage Palm	624	59.26	59.26	0
Wetland Pine (Hydric Pineland)	628	372.93	371.16	-0.03
Wetland Mixed Forest	630	276.66	278.72	+0.04
Freshwater Marsh	641	641.53	642.77	+0.02
Sawgrass Marsh	6411	12.53	12.53	0
Cattail Marsh	6412	1.06	1.06	0
Wet Prairie	643	72.14	72.14	0
Wet Prairies with Pine	6439	88.09	88.09	0

¹Florida Land Use, Cover and Forms Classification System (1995) ²Changes are percent of total area; values of less than 1% should be considered as insignificant as they within the error associated with photointerpretation is +/- 30 ft for a polygon line (**Appendix B**, Metadata)



Figure 9. Long-term Annual Rainfall for Northern Palm Beach and Southern Martin Counties (1914–2000).

The extent of melaleuca-infested land use categories was calculated and summed in **Table 3** and shown in **Figure 10**. The greatest concentration of melaleuca appeared to be in the southern and southeastern section of the slough. This corresponds to the area most impacted by reduced surface water levels. Currently, an eradication program is being conducted by the county and the classification of these areas in later surveys will likely change.

Table 3.	Extent of Melaleuca-invaded Communities within the Loxahatchee Slough Natural
	Area.

Land Use Description	Land Use Code	1995 Area (Ha)	2000 Area (Ha)	Change From
	(FLUCCS ¹)			1995 to 2000
Melaleuca (upland)	424	42.61	42.61	None
Melaleuca (wetland)	6191	19.83	19.83	None
Cypress-Melaleuca Infested	6218	535.87	535.87	None
Total		598.31	598.31	None

¹Florida Land Use, Cover and Forms Classification System (1995)



Figure 10. Map Indicating Extent of Melaleuca-Infested Communities (from 2000 Land Use Analysis).

Comparison of Historic and Current Vegetation

As mentioned in a previous section, the 1845 General Land Office survey contains the earliest reliable vegetation descriptions of the Loxahatchee Slough. Vegetation descriptions along the borders of section plats are available for most of the study area and may be used as vegetation transects to compare changes through time. The outlines of section boundaries were overlaid on the 2000 land use map developed for this study. Vegetation communities along a section boundary line from 2000 (where a section boundary line crossed a vegetation type) were compared with vegetation descriptions from the same boundary line from the 1845 survey. Results from this analysis can be found in **Appendix D**. In order to compare changes in vegetation from 1845 to 2000, differences in vegetation types at each section boundary were generally categorized as increases or decreases of pineland (generally upland), swamp (forested wetland), marsh (non-forested wetland) and ponds (open water communities) (**Table 4**).

Results from this study found no general or consistent trend within all transects. The extent of ponds (open water sloughs) decreased along five section boundary transects, most of which were located within the area around the junction of the C-18 and C-18 West Canals, and indicates a reduction in groundwater levels due to canal construction and drainage. This area is near the location of the proposed G-160 Structure, which is expected to provide some hydroperiod enhancement benefits once the structure is operational. Results also show an increase in the extent of pineland, which may be associated with reduced water tables and decreased hydroperiod. This was representative of those transects found in the western area of the Loxahatchee Slough Natural Area and corresponded to lands that were once ditched for use as rangeland.

Table 4.Comparison of 1845 and 2000 generalized vegetation community descriptions
along section boundary transects within the Loxahatchee Slough Natural Area. "+"
indicates an increase in this vegetation type, "-" indicates a decrease in this
vegetation type.

Transect-Range-Section	Pineland	Swamp	Marsh	Ponds	No Change
41-41-23/24		+			
41-41-24, 41-42-19	-	+			
41-42-20/21		-	+		
41-41-26/27					х
41-41-25/26				-	
41-41-25, 41-42-30	+			-	
41-42-28/29	+	-			
41-41-35/36		+	-	-	
41-41-36, 41-42-31		+		-	
41-42-31/32					х
41-42-32/33					х
42-41-1, 42-42-6					х
42-42-5/6		+			
42-42-7/8	-				
41-41-26/35				-	
41-41-25, 41-41-36					х
41-41-36, 42-41-1					х
41-42-19, 41-42-30	+				
41-42-30, 41-42-31					х
41-42-31, 42-42-6	+				
42-42-6/7		+			
41-42-20/29					х
41-42-29/32					х
41-42-32, 42-42-5					х
42-42-5/8			-		
42-42-8/17	-				
41-42-21/28					x

Hohner (1994) conducted an in-depth GIS analysis of historical aerial photography available for the slough. She examined black-and-white aerial photos from 1940 and 1979, and a false-color SPOT image from 1989. Results from her time series

analysis (1940–1989) indicated a general increase in forested wetlands, a decrease in non-forested wetlands and an increase in upland forest cover (**Table 5**). From this information, it was deduced that surface and groundwater levels have been lowered since the 1940s, causing a reduction of hydroperiods. As a result, the extent of upland forest increased and some long hydroperiod non-forested wetlands changed to shorter hydroperiod forested wetlands. Additional losses to the extent of natural areas were due to the increase in the extent of disturbed land. The shift to vegetation associated with shorter hydroperiods was most evident in the area to the east of the C-18 Canal from 1940 to 1979.

CLASS	1940	1979	1989
Forest Land	8.33	16.57	22.82
Forested Wetland	21.88	22.51	29.05
Non-forested Wetland	69.15	48.31	39.74
Disturbed	0.65	12.60	8.39

Table 5. Change in Land Cover Types by Year (from Hohner 1994); Units are Percent of
Total Area of Coverage.

DISCUSSION

Comparison of Historical and Current Vegetation Communities

The original GIS coverages developed by Hohner were acquired and compared with the current (2000) land use map. The extent of major community types was compared between 1940, 1979 and 2000. Results (**Table 6**) indicate a significant decrease in the extent of non-forested wetlands and a large increase in the extent of forested wetland. This change is clearly visible in the aerial photos. From 1940 to 1979, the total extent of non-forested wetlands within the study area decreased approximately 20 percent; from 1940 to 2000, the decrease was approximately 60 percent. In contrast, little increase in the extent of forested wetlands was noted from 1940 to 1979, however forested wetlands increased by almost 50 percent between 1940 and 2000.

	1940 Area (Ha)	1979 Area (Ha)	2000 Area (Ha)
Non-Forested Wetland	2377.91 (73%)	1672.63 (51%)	387.39 (12%)
Forested Wetland	629.09 (19%)	648.54 (20%)	2290.38 (70%)
Upland	252.58 (8%)	524.04 (16%)	414.72 (13%)
Disturbed Lands	12.32 (<1%)	426.69 (13%)	179.42 (5%)

Table 6. Comparison of Extent of Major Vegetation Types from 1940 (from Hohner 1994) to2000; Percent of Total Area is Indicated in Parenthesis.

The large changes in extent of forested and non-forested wetlands suggest that stabilized water level fluctuations and a lowered water table have provided the conditions for expansion of forest cover. South Florida slash pines do not tolerate flooding well, so are common but never dominant in Florida swamps (Ewel 1990). When pines invade a wet prairie or other non-forested wetland, it is often an indication of a decrease in hydroperiod. Hence, an increase in forested swamp and a decrease in non-forested wetland could be the result of invasion of pines. However, it could also be caused by a reduction in fire frequency, which is required to eliminate hardwood species from pineland and prairie communities.

Other factors that could contribute to the apparent increase in forested wetland coverage include differences in photointerpretation methods. In the 2000 analysis, hydric pineland and wetland melaleuca forest types were included in the "forested wetland" category. Wet (hydric) pinelands have species characteristic of both upland and wetland habitats, but may have been included in the "upland" category used by Hohner (1994). Another factor may be the spread of the non-native, invasive melaleuca tree that tends to become established in non-forested wetland sites. Some areas that were formerly wet prairie could have been converted to melaleuca. There has been an increase in the extent

of upland and disturbed land (generally associated with upland sites). This would tend to indicate a reduction in groundwater table as a factor in the changes found in this analysis. Note that the reduction in disturbed land from 1979 to 2000 can be attributed to the recovery of vegetation over a disturbed site adjacent to a drainage ditch in the southern section of the coverage.

Field Vegetation Monitoring Sites

The field vegetation monitoring sites are located in three representative community types (open water slough, hydric hammock and pine flatwood). Three monitoring sites are located in open water sloughs (Sites 1, 2 and 3), two on either side of the C-18 Canal south of the proposed G-160 Structure and one north of the structure (**Figure 11**). Site 4 is within a hydric hammock and Site 5 is within a pine flatwood community.

Determination of historic (pre-drainage) vegetation in the area of the field monitoring sites relied upon obtaining the earliest reliable description or documentation of the Loxahatchee Slough area. The GLO field survey notes provide descriptions of the pre-drainage vegetation around the present-day monitoring sites. **Figure 11** shows the Township/Range/Section map for the area containing the field monitoring sites. All field sites are within Township 41 S Range 42 E, and four of the five sites lie very close to a section boundary. Field Site 1 is along the western boundary of Section 31, and Sites 3, 4 and 5 are along the northern boundary of Section 29. Descriptions of the vegetation along the section boundary transects from the original field survey notes could have been useful to ascertain pre-drainage vegetation at these locations, however these sections were left unsurveyed due to inaccessibility of the area. The section boundary lines could not be located. Fields notes from the original survey (GLO 1845) does describe this entire area as "inundated swamp, mostly scrubby cypress mixed with sawgrass ponds; impassable."

Aerial photography from 1940 and 2000, including the locations of field monitoring sites, are shown in **Figures 12a** and **12b**. This is useful to compare vegetation community types before the construction of the C-18 canal with current (2000) conditions. Examination of these photos indicates two trends that suggest an altered hydroperiod. The first is an expansion of forest cover, much of which is visible on aerial photography as slash pine. The slough is most impacted by a reduced hydroperiod in the section east of the C-18, which can be seen in an increase in pineland invasion into historically open wetlands (**Figure 12a**, note area around Site 5) and a "filling in" of marsh communities between tree islands (**Figure 12b**, note area around Site 2). A second trend that can be seen from 1940 to 2000 is a decrease in open-water communities (see area around Sites 1 and 2), which may reflect the increase in shrubby vegetation and non-native species (i.e., melaleuca).



Figure 11. Map of Township/Range/Section Lines and Location of Field Monitoring Sites within the Loxahatchee Slough Natural Area.

The reasons for the observed changes in vegetation since 1940 may be due to a primary factor, such as reduced hydroperiod, or a combination of factors. For instance, the conversion of non-vegetated or non-forested wetlands to forested wetlands or pinelands (**Figure 12a**, note area around Site 5) could be the result of a decreased hydroperiod, but may also indicate a "flattening" of the range of water level fluctuations. Widely fluctuating water levels (extremes of flooding and drying) would support the open, sandy wetlands visible in the area around Site 5 in 1940. In the area around Sites 1 and 2, there appears to be an invasion of forest/shrubby vegetation into areas that were formally open water wetlands. This too could be the result of a lowered water table, but a suppression of fire and invasion of non-native species (melaleuca and climbing fern) could also account for some of the observed change since 1940. Hence, using aerial photographic studies without appropriate field data (e.g., long-term water levels) makes interpretation of cause-effect relationships difficult to discern and document. Interestingly, although changes from 1940 to 2000 are obvious from these photos, the shapes of the tree islands and open water areas remains generally unchanged.



Figure 12a. Comparison of Aerial Photos (1940, 2000) of Field Vegetation Monitoring Sites.



Figure 12b. Comparison of Aerial Photos (1940, 2000) of Field Vegetation Monitoring Sites.
CONCLUSIONS

Reviews of current and historic data from the area now contained within the Loxahatchee Slough Natural Area were used to determine changes to vegetation communities that have occurred in the past century and a half. The General Land Office conducted the first surveys in 1845 and their field notes provide descriptions of vegetation along the Township, Range and section boundaries. A GIS analysis of 1940, 1995 and 2000 aerial photography was used to create vegetation maps. Comparing the data from the earliest known field survey (1845) and 1940 aerial photography with current (2000) community types provided an indication of the changes that have occurred since major development of the local area has occurred.

An analysis of current conditions indicates that the largest land use type was wetlands, which accounted for approximately 67 percent of the study area. Upland forest, consisting of mostly pine flatwoods, accounted for approximately 22 percent of the study area. The remaining area (approximately 11 percent) was associated with disturbed lands (i.e., urban, agricultural and man-made water bodies). The greatest concentration of melaleuca appeared to be in the southern and southeastern section of the slough.

A comparison of the extent of vegetation communities determined from 1845 surveys and current (1995 and 2000) vegetation maps indicates that the extent of ponds (open water sloughs) decreased along the area adjacent to the junction of the C-18 and C-18 West Canals. This is probably the result of a reduction in groundwater levels due to canal construction and drainage. This area is near the location of the proposed G-160 Structure, which is expected to provide some hydroperiod enhancement benefits once the structure is operational. Results also show an increase in pineland habitat in the western area of the Loxahatchee Slough Natural Area and corresponding to lands that were once ditched for use as rangeland.

This report lays the foundation for future monitoring efforts within the Loxahatchee Slough Natural Area. The next GIS analyses is expected to occur in 2007 and will be added to information contained within this document to determine the success of restoration efforts.

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APPENDIX A

MONITORING AGREEMENT BETWEEN PALM BEACH COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT AND THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Loxahatchee Slough Restoration and G-160 Monitoring Plan

Objective

The purpose of this proposed monitoring plan is to conduct baseline (current) and post-construction/operation (G-160 Structure) vegetation and hydrological monitoring within the Loxahatchee Slough. This monitoring plan is designed to determine the effectiveness of the first tier improvements completed under the North Palm Beach County Comprehensive Water Management Plan. The results are expected to provide the South Florida Water Management District (SFWMD) with beneficial information that will allow adjustments to the operation of the G-160 Structure to most effectively meet the Plan's objectives. The work includes two approaches to monitoring vegetation, a field-based site-specific component and a GIS-based landscape-level analysis.

Component 1: Field-based Monitoring

Field-based monitoring will be conducted in fifteen vegetation survey plots at five sites within the Loxahatchee Slough (**Figure A-1**). Sites will be chosen within representative (dominant) communities currently found within the Slough (i.e. bald cypress strand, wet prairie). Within each site, three plots will be established to monitor vegetation community change through time. Field data will be collected twice annually over a period of five years and will commence in August – September 2002.

Task 1-1. Establishment of Monitoring Sites

Establish vegetation monitoring sites at the five mutually agreed upon locations indicated on **Figure A-1**. Each site will be surveyed and permanently marked prior to initiating the August – September 2002 vegetation survey (see Task 1-4). The average ground elevation (NGVD) within each site shall be delineated.

Task 1-2. Installation of Staff Gauges

Install staff gauges to measure water depth at each site prior to the initiating the August – September 2002 vegetation survey (see Task 1-4). Monitoring crew will record the date, time, and water depth during each field-monitoring event. Water elevation at the C-18 canal staff gauge will also be recorded.

Task 1-3. Establishment of Vegetation Monitoring Plots

Establish three 3m by 3m plots at each site. Plots will contain a representative plant community for that site and shall be dominated by non-tree species. Each monitoring plot will be permanently marked prior to initiating the August – September 2002 vegetation survey (see Task 1-4).

Task 1-4. Baseline (pre-construction/operation) Vegetation Survey

Monitoring crew will begin a baseline vegetation survey within the established plots (see Task 1-3) in the fall of 2002. Vegetation survey will include water depth in the plot, a characterization of the macrophyte species that are present and their relative abundance, using actual counts or a standard comparative index (whichever is appropriate to that species). This baseline monitoring shall be conducted once during the wet season (between August 1 and September 15) in 2002 and once during the dry season (between February 1 and March 15) in 2003.

Task 1-5. Semi-Annual Vegetation Monitoring

The monitoring crew will conduct a vegetation and hydrological monitoring survey twice per year, once during the dry season (between February 1 and March 15) and once during the wet season (between August 1 and September 15). This monitoring is to begin after the completion of the baseline vegetation survey in the spring of 2003 (Task 1-4) and will be carried out four years thereafter. The vegetation survey will include water depth in the plot, a characterization of the macrophyte species that are present and their relative abundance, using actual counts or a standard comparative index (whichever is appropriate to that species).

Task 1-6. Vegetation Plot Photography

The monitoring crew will photograph each monitoring plot during each survey event. These photographs are to be taken during each sampling event from the same angle, location, and perspective.

Task 1-7. Annual Report.

A report of the findings from the vegetation surveys will be compiled and distributed to each participating Agency (Palm Beach County ERM and SFWMD) each year. The final version of the annual report will be completed and distributed to the participating agencies each year (2002-2007) before January 1st following completion of the August – September monitoring event, with the first report due before January 1, 2003. This annual report will contain an executive summary, introduction, methods section, summary of data, and discussion of findings. Field data will be included in an appendix. The report will be subject to the review processes of each participating Agency before being released for public distribution. This report will be combined with the summary report prepared as part of Task 2-2.

Component 2: Landscape-level Monitoring

Landscape-level analysis of the changes to Slough vegetation through time will be conducted using aerial photography from Digital Orthographic Quad (DOQ) photos, purchased every five years by the SFWMD. A comparison of changes in the extent of vegetation communities will be documented using GIS analysis.

Task 2-1. GIS Analysis of Long-Term Vegetation Changes

Staff will conduct a GIS-based analysis of the extent (acres) of major vegetation communities within the Loxahatchee Slough (e.g. bald cypress swamp, wet prairie, sloughs, etc.). Digital Orthophoto Quad (DOQ) aerial photography from the U.S. Geological Survey, which is available every 5 years, will be used as the base coverage. The 1995 and 2000 DOQs will be analyzed for the extent of existing vegetation communities in 2002. The 2005 and 2010 DOQs, when available, will be similarly analyzed and compared with the results from the baseline photography (1995, 2000). This survey will allow landscape-level vegetation monitoring over the long term.

Task 2-2. Reporting of Findings

A report outlining the findings from the GIS analysis will be compiled and distributed to participating agencies (Palm Beach County ERM and SFWMD) each year following completion of three 5-year monitoring cycles (i.e. 2002, 2007, 2012). The first report will contain results from the 1995 and 2000 DOQ analysis and will serve as baseline data and is due before January 1, 2003. This report will include an introduction, methods, results, and discussion section. Accessory data and information will be included in an appendix. This report will pass through the appropriate review process of the participating Agencies before being released for public distribution. This report will be combined with the annual report prepared as part of Task 1-7.



Figure A-1. Location of proposed vegetation monitoring sites (indicated by a star *).

Appendix A

APPENDIX B

METADATA FOR LAND USE COVERAGES DEVELOPED FROM 1995 AND 2000 AERIAL PHOTOGRAPHY

METADATA for 1995 DOQ Land Use Analysis

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APPENDIX C

GENERAL LAND OFFICE 1845 – 1858 SURVEYS FROM TOWNSHIP/RANGES WITHIN THE LOXAHATCHEE SLOUGH NATURAL AREA

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Figure C-2. Field map from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.



Figure C-3. Field map from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

21

. Township 41 South Range 42 East. 2 SU Ra N 5 225-

Figure C-4. Field map from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

230 221 12 Mest Boundary of Stal. S. 18.42. Course South 2. M. West Boundary Just S . 18 42. 8 . C . South Var. 400 & Maich 3 1845 _ C. S. and the second second second 40. Al Ofrew pine & palmetto some small dry in 40.00 Open pino dpat mette _ act 1/2 m. posts cypreas ponds _ let if mito pat ... ю., pine N. 1.08 Cine East. A 1 50 72 124 15 " S. 60:W 110 17.50 Ofien fine Spalmette to Blazed Souid " 40. 12 Open piero opralometto _ some cyprice 22. 30 Det 1st m post - det 2. In poit · 4. · · Pine \$.45. W 100 · pine - 5.67:6 3 07 " N. ST. W. 1.35 " _ A. 65. 6. often pourd bix to some of foress -1 39 . . S. 64 W 330 1 63 N. 79.W Mo land, that can be cloferat better than, 3? dato 3º roto pine land with accomment day france, at Same Seasons Covered with dectar -F 2.2.2 223 3. Me West Beach Jar goof Stilles . Red 2. 8. . O. South 4. tw. W. Boundary Sallt S. B.42. 6 - C South i. 15.00 X frond sur anorded by served appress - win their 40.00 open fine spalmette - Set from front & with 25. 00 X. Cand gran pond poor 1 roundy net to the pato -Time East a very mer with the the . - S. 40.W 50 a . Pino N. 10:8 3 00 199 🐞 199 h. St. ... N. 20. We was a serie of 2. 30 from pine spalmitte _ let. 3. m. p. in And 40.00 Pino N. 22:W _____ 3 10 13 4 100.00 Open pino with small grass prairie pours day man A 352 Same any an " S. 15.6. 2 14 6 2 16 Act 4. m part. . 9. 21.W 2 60 1 . 4 Pine N. 0.5. W; 2 00 . S. 30. W 3 00 profession in Ĩ " . March 3' 1845-. S. 40. E. 2 50 . N.60.8 5 00 3. Tato high prino lound 5 : ⁵ · 7 3 ?? Tato friend Some day grafey fronde Summedod by fried South t de la se and small afferate chunger

Figure C-5. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

234 2.28 5. M. West Boundary Stat. 3: 18. 42. 6 Corner South 6 In. Werk Boundary Late S. A. A. C_ South N 190.04 Open prairie dry parte send copported south -40.00 Open pondo milto myrato islande - some neris più Act of an port · . • · · · Set /2 the post 100 Smalo pino A. 70: 6 Que N. 84. W. 110 $\sim \infty \Lambda$ 2 10 " " \$ \$.81. W. . . 8. 44.6 .75 \$ 00 iv. 5.00 X to high outy low strggy saw palmelly born by 40. 10 X pende & myrste to pine thalmetto 20.00 × to open day barrow low pondy - Small might Set . 6. m. post Pine 3. 20: 8. 1 10 . Cypress - Siles W. 2 00 .. S. 29: W 50 . . . N: 46. W 4 90 14 2 60 Myallo N. 53% N: 10: 8 4 50 15. 2 100 5. 55.6 10 00 . . . Mater mark four feet high - Indian Course. The Same si . ×. 3ª dato lando mito Same marialle boy Soit course into senter the quarter part of the season, 236 22% 2. W. West Boundary J. 42:5 18.42. 6 C. South 1. M. West Boundary Inter S. A. 43.6. Corner Squithing " Var. trifle less and at 4:00 -40.00 × Thick rooty saw palmette Mayrillo Derings 44 00 pone spalmatto your & Ar th Let fr hr. pant .. . 3 to pond det to me port in pond Pine N. 30: 14 ... Pino West : . . . 1.00 1.43 400 Cypress & My the lotan & sout Nillin 3 00 " N. 42. 8 15 1. Pino thalmatte some male grany points 40 to 0 X & por I dry - oratin on ant Spit to pino offate. 40.00 set 1. no porto Set 2 mo: parts Pino 5. 764 6 1.14 160 Pino 5.6 2. W 1 60 24 . N77:W 65 N. 50. E Nº 40: W 1 19 1. 90 •/ N 12 6 . 100 \$ 1. 2 5.84:8 1.25 No domo

Figure C-6. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough

Area; Township 41 South, Range 42 East.

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3 m. West Brun Day 249.5 18 1.28 Courses Suger	4. In Mut Boundary J. 142 & R. 42 & Cours South is
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N 25 1 1 50	. M. 33. 130
11 6 F.	
have chart and a man the second	40.00 him the walk walk to the
10.00 perus pero sportmetter some frage i	Act to the stands
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5 h Ward and Shoe Kalme . Can Sil	6. m. West Boundary Jurs Burs in Rul
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" N.74.W 300	how his standard in
Barris Marsh A 3 to a state of the	200.00 poline palmelle amall dry pinds
20.00 × Pond to pine & patimitto -	provide a second
20 th Let 5 m puts .	1 mo 5.76.6 . 4.00 .
Pino 5.62. W 110	······································
" N.37" W 30	. N. 71. W 3.50
" x 19 E 1 500	- 5.64W, 3.75
" S.54.6 3 50	2 · · · · · · · · · · · · · · · · · · ·
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Mr. Somo	
	r

Figure C-7. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

Appendix C



Figure C-8. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

595 594 South Boundary Antoin Me les East Boundary Section N. 6. wiet Run Ubrats from 5. 4.4 Wistome Rion South from N 2 4 5. 00 Enter hammock Emp. pino x22w 0. 27 oako \$49'8 1.32 40 line crosses + recrosses creek ocural times H. or X old roce & leading to for randween 40 & Mr. p. pine +48 w0.60 mp 1 the most swamp mixed with cluster of the Boy and pine 2 th mostly price and games mp. 80 Mostly hamment shirting Locohatche acet about rocks inde . In ay 8th 1845 al 1 4 1 4 4 4 4 Ň 57 596 South Boundary Retins y East Boundary Sections # 7 Dist Run Wist from 5 4.4 Dist. Rom South from N:2 L 5 mil 40. X. swamp 4.0 syperes ware + 37 0 60 2 20 81 Su. ant last i M pine m scrubby cypress mostly cypress swamp

Figure C-9. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

098 399 South Boundary Lichow M. 18 . Hast Boundary Section Nº 18 viotones Run West from 224 Distance Rein South from N. E. & 40. 40. N27'1 0 30 siz. 8.0. mp. mh 80 2 53 here peramp mined lais q piene. mostly cy 9 ters of a daw grade the cla Bay ast i m. passes through open a scrubby cypress on want side 600 601 East Boundary Lection Nº 19: South Boundary Section Nº 19 Distance Run South from N. E.+ with Run West from 5. E.L

Figure C-10. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.



Figure C-11. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

606 . 607 East Beaundary Section Me 8. South Boundary Section 1. 5 wist. Run South from N. E. # wist Run West from 520 AK - 5 mp Cypriss N 56.80.42 40 zemp pine ~ 30 + 0. 42 · 54 w 0.22 4 50.00 orfress Deramp 60.00 Small hammach 75.00 × do cypres N20° ~ 1. 12 80.20 mp 5 72'we 30 1et 2 m ogfores missed with Prine & saw grads ponts 2th 2 m. cy pres swamp 2 to rate fine covered with saw palmetter and interviseded with chestin of scrubby by press Silver 608 . 600 South Boundary Section 18 8 East Boundary Section Nº 17 . and I Vist Run South from N. 2. 2. Dist. Run West from S. I.e. " " " mp, pine \$2" 0.55 gpine \$2" 0.55 " " model dead scrub Enter of press swamp pine N25in 0.12 Emp 41 5. 5.85 80.70 \$1.30 mp. Sast to m. seramp 80. N 4621.12 2ª Adle pine in ned with oan palmeters and mis - de with scrubby cypress

Figure C-12. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

610 6MA. South Bown day fortions de 1. 7 Ex Boundary Section N. 20 wist Russ South from N. E. Law . viet. Rum West from S . c. c. ~62 2 1. 3g 38.00 cypres swamp 2 mg 40. 2,00 2 mp. 40. 4866 W + 4. 55 00 suls 10.5 88. 15 mp. 80.35 Mr. f. mostly enforces owarmp mire & earth clusters of pines pine mixed nati and Bays . Daw grass fonds de cy/mess 612 618 South Boundary Section Nº 20 Good Boundary Section 1: 29. with them that from once " Viotance Run South from N. E.K. 2 mp 40. appress worth 0.12 8 .1,55 mp. 80 mostly cypress swamp

Figure C-13. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

614 615 Joath Boundary Section 1: 29 East Boundary Section M. 3.9 with Run Abest from S. E. L sist: Run South from N. E. t. 616 617 East Boundary Section 1. 4 South Boundary Section & 4 Dist. Reen South from N. E. 4. wist Ren Abest from S. E. C. 3.8.00 × crick Emp. 523 20,8 -40 N8380.92 E mp. pine last . 90 8.0 mp. 80. Mostly scrubby copies minyed with fine and intersected by saw jour ponds iouss 2ª rate pine mixed

Figure C-14. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

618 619 South Boundary Section Nº 9 . > East Boundary Section 1. 9 ... wist turn theat from 5. E. C. Wat. Reen South from N. E.L. 40 2 mp. pine 048 2 0. 50 pines 38"2 0.55 ABIW & por 4.0 mp * v81 2 0.00 45.00 Bay gall 87 55.00 × 80. mp. my 81. mosth 2 de rate pine mined with clusters of 2ª rate pine mined with clusters of south cypries seruty Cypress . may 12: 620 621 South Boundary Section 18 16. East Boundary Section se 16 Diet. Remateret from S. E. C. Dist. Run South from N. E.L .. 1 2 mps firme and go & the Te 40. 5 mp. pone ~ 8420. 60. Lot. 1. NSO WO, 82 55.00 pmd 75.00 × 0. . 13 75.00 pond × du 80.12 mp. mp. ~ 80° 2 5.90 · · · · 2,30 Mosthy 2? rate prine course 2.00 · . . 90 2ª rate pine minod with chasters of Cypres

Figure C-15. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

622 623 South Boundary Section Nº 21 East Bounday Section Nº 21 Dist. Run Shuth from a. e. L. Dist. Run Abrat from J. E. L. 5. 00 - Some goals pendo : 5 mp pine \$\$01 1.35 41. AZ. ON . X DEO. **** 2 A2\$ in map. 40 mp. rage of express disant 3.00 pino vare . mp Aly 2ª rate pine are d with saw palmettes mostly 2th rate pine coursel 86 ag a 14 1 1 with saw palmetter Martin and and and 624 625 South Boundary Section M. 28 East Boundary Section Nr. 28 . 1 Wist. Ren West from S E.A. West Run South from N. E.L 35. or pondo 25:00 leave sump inter pinen. AU. - 12 Amp. printer = = = 1 2 + 2 - 1. 24 5 85 4 2 30 40 2 mps and a state of south 0.65 N48'E 4. +5 45.00 x pondo 19.54 79.80 mp. 80 mp Anorthy son rate pine coursed with Jam & al metro the state theny 10" 2 de rute pine correct with Dow palmettos

Figure C-16. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

626 4-1 627 East Boundary Section 1 3 3 1: East Boundary Section M. 3. Wat them South from N. E. 2 with Reen South from N. E. L. 35:00 pondo 40 Emp. 4min to Amp pine \$63-20.75 5 26 8 1.90 N78 W 0.50 65.00 x pondo Baz gale 1 ch. 2ndt ; 75.00 * pond 80. mp \$ 46 48.80 Br. so mp. mostly 2 d rate pine \$ 59.00.22 and intersection with poor do mostly 2ª rate pine 629 628 East Boundary Section Nº 1.0 South Boundary Section Nº 3. viet. Run South from N. S. L Dist. then West from 6. 2. 4. 40 2 Maps: pine Noj" in . 60 Emp. mp. 80 80.25 struck 1.45 che s of postcorrected back on ros' N.39' w0 .90 ni ya kuzi y Mostly set rate pine scattering growth Anorthy In rate pine misul 18

Figure C-17. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.



Figure C-18. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

634 635 East. Boundary Sichien Nº 15 South Boundary Section Nº 1.5. Dist them South from N. L.L. Dist: Run Cast from S. E.L. 2 mp. 40 pine voje, sei 5. 500 * Avad leading to New river frank 40. t2 M.p. 73.00 pine west 1.65 80. x de mp \$3520,85 80 . mp. 2rd rat pine covered with ~ palmetto No may 14" 2 th hate pine covered 636 63) East Boundary Section 1: 32 South Boundary Section M. 22 wish Run South from NEC Dist Run Unat form S. E.L. 36. no ponds 2 mp. 4344 44. pino 56+ 8 +. 84 to Emp. pino \$ 20"8 3.00 45.00 x pond 80.00 mp. 5 mp. 80. throsty 3 " nate pine 2ª rate pine covered with law palmatto

Figure C-19. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

638 639 East Boundary Section M. 27 South Boundary Section M. 27. Dist Run North from N. E. C. Distance Run West from of the 12 mp. 40 pin 8 369 6 0.90 x hannoch pino imp. \$ 33 w 1 30 60.00 pond 71.00 x do 75.00 hammoch mp. 80. mp palmette mostly 2t na a pine connece with saw palmeters oak mostly 2 erate pine 6He in 641 Cast Boundary Section 1:34. Dist Asin South from N. 6 4 East Boundary Section Nº 2 Distan Ron South firm N.E.L Empo pine N 2020. 90 20.00 leave harmonds 2 Mapi ~ \$ 5.8W 1.00 40 • mystle 65. ov x creek small hamminch 81.50 mp. pringer it 2ª rate pine min . d with pince # 45° 20, 41 Anic 20 oke of human of growth oak. Bay, p. - concettor. 0 38 2 0.48 54501.40 2ª rate pine covered with paw to al metting

Figure C-20. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

642 643 South Boundary Section Nº 2 East Boundary Detion 1: 11 ... Dist dun West from J. 2. * Dist. Run South form N.E.L. 12.00 × creek 40 2 mp. 4.00 x creek. pine N23. 1 0,45 40 tompo poine west 1 50. mp. 81 mash 2 th rate pine correct with saw pat pine N 60'E 0.18 80. mip 1 x72° w 0,18 22820,18 528 00,18 2 de rate pine coursed with sow palmettos 4.4 644 6400 South Boundary Lection 1: 11 East Boundary Section Nº 14 Dist. Cum Mist from S.E.C. Dist Run South from N. E. L 40. 2 mp. 40 - hap. pinio ~ 68 6 0. 42 pine N 5821. 50 5 52 0 0.51 60.00 villow pond 65.00 × de. 80.15 mp. mp 2. " rate find enced with saw palmettos 2'd rate pine mored with saw palmetter May 15"

Figure C-21. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

645 647 East Boundary Section 1.93 South Boundary Section Milds Sist. Run South from N.E.L. Dist. Run abest form S. E.Z. i mp. \$ 5361.20 Joine N 3620,53 un app 5 54. 4 0 15 80. mp. N. 548 8 87 N4222. 28 1 4° we 20 N 60W 2.30 \$ 23 20.75 5 61.20 90 5 23" ~0.23 2,90 2t rate pine corned with Mostly 2 de rate pine covered with saw palmets van palmettos 469 · · · 648 649 East Briendary Section M. 26 South Boundary Section 1: 23 Dist her West from J. L. Dist. Ren South from N. E.L. 40 2 mp ~ 30 w 2. 12 pine: \$ \$721.12 \$ 58 w + 80 $,\dot{x}$ 80 mp. 79.85 mp. to row were with saw palmeters 2 " ... to pine correct with

Figure C-22. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

630 651 East Boundary Section 1: 35 South Boundary Section M. 26 Di stana Ren South from N. E. e Dist. Run Wist from S.E.L pine \$ \$ \$ \$ w 1. 400 40 2 mp. Jime = 28200.15 60. or harmoch or Bay g 82 mp. 2.3 "J. or 1 × do 76:00 hammach 2ª rate pine corned 80.25 + Mip. with saw palmeters mostly 2 + rate pine covered with saw palmetto may 16 : 652 653 Forth Boundary Section 1.13 South Boundary Section A. 1 ... Diet hun East from S. w. c Dist Rim East from J. W. L - 4 & of orech and small farmingh . 2 mp 41. A mark do 40 E, mp mp. worth 0.03. south v.v.s 72. 00 × small ann Most 2ª rate find and a 2 2000 sate pine council with . . 80. some palmettos e

Figure C-23. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

605 654 South Boundary Section Nº 13. South Bounday Section Nº 24 Dist. Rum East from. J. W. c. Dist. Run East from S. w. L \$ 42.8 1.40 in to Anh. June Solwo 90 N 20 20,60 68.00 x New sion read 45:00 xold road 18.65 mp. mosty 2 " rate pine annea struck 2 chs south of post 80. construction to a star iso with saw patemette some in mosth 2ª rate pine 11.15 636 65 South Boundary Sittion Nº 25! 1. A. M. Jones Dep. Surveyor sotumby series that in pursus outs them East from 5 w. 1 a a ted the 15 day y dames ofthe V. S. Conway Survey or Jins the United states for the Servitoring florida and in strict Penform 10 Solap. ing to the laws of the United States and Instructions of said Surveyor uneral. I have begue anly surveyor and subdivided into sections 55.00 × road leading to New mer 78.15 mp. Jornship N. 1. 1. 5. y Dange NAD. 6. in the state of florian and I as further soloundy A ... 4 2 minate fime on cred with saw halmitto and original field notes of May 17" Aar 3.6. the said Surry & Dubdinisions as The whole Township comprises 2 + 3 th afors said A ST Jones Def. Surgen rate pine land inter or deed with ponds State of Alorida and Davannas . The two coust ranges of rection county of SI. Johns Embraced scrubby Gyproes secont which Scorn + Devesoritiel to 5-1545 14 tonds the the Ener plades . I commenced the Geottoole Si d. P. Township when perfectly dry. he fore finisting it The Reamp was sent adoath & see my up on acct of hearing rains A.H. J.

Figure C-24. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 42 East.

Sul. S. M. 1.1. E. 12. 378 The of Boundary Section Me 1 formers in p 11 douth, Range 11 Cast. Dist. Rum South from N. W.A. 1 7 11 6 5 3 5 2 -390 401--379-7 8 9 10 - 11 S. 12. = mp 40 dine 340 2 9,40 -384 . sgin 0.45-16 5 15 17 - NA 18 13 -112'1--394-ponde your pond or var, 19 \$ 20 \$ 21 \$ 22 5 23 \$ 24 -113 6-1129-118--3 85mp N4226,75 30 7 29 7 28 9 27 \$ 25 on 26 0.90 Tret 481 ------38%-32 = 33 = 34 = 35 = 36 31 9 2.80 C.H. Jones, 1845. Var. 4-E. 2 rate price conced with said pat metto a intersected with porces April 28: 18 4 5. 379 375 380 South Boundary Sections M. 1. Wir Houndary Section M. 12. with more bash from d. W. A. Dich Run South from A 20.2 5.00 x pand 10.00 × pondp 25.00 × old road 400 + 2 mp june 235 no 20 12.00 × old road 35.00 pond 40 × Map, pine pine NEL'S 4. 20 riger - ", " \$ 57 wa 60 \$ 14 ~ 8.82 Sr. or X pond mp 80. 80, mp N 252065 · State Constant 2ª rate pine coursed with saw pacemento and inter escated with pondo

Figure C-25. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

382 381 South Boundary Lection A: 12. Us at Bounday Section At 13. Wish sum last from et. W. 1 Dist Run South from it with 1 10.00 pond 2 mp pine NGG 2. 80 32.00 × 0% 40 - Emp. pine 3 462 0.90 50. or pond : 52 Ew 1. 22 79.77 m.p. 80 m.p. 3.2 W15' 8 0.12 + 53 av 056 3 to rate pine coursed with saw pal metters and intersected with Prate pine condicat with saw palmetto and intersectie with ponds 11cm do 18 x 384 383 South Boundary Section A XS. Wist Boundary Section 124 Wish them East. from S. W. 4. Diots Run Jouth from N. 202 io imp. this will 1.37 · \$ 27 w 2. + 6 Emp. pine \$ 24 8 0. 9.6 40 70.00 davanna . W14 21.25 80 mp willow w200 2.00 w3] w 1.90 m.p. 84. Cyprass \$ 39' 2 4.20 mine \$ 45 . 45.66 3th aata pine scattering most 2 a rate pine . mettos

Figure C-26. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

\$ 85 Louth Boundary Section A. 24 brot Boundary Section N. 25 .. Nist Sum last forme of TO, Las Diet run South form N. W. .. 20. 00 X. Jav. or deva 40 2 mp 54660 60 Arout cyperess swamp mp 80. 61. 01 -Jar 80 mp. prime. NS721. 10 April 29 intersected with ponds 388 38 South Boundary Section Nº 25 West Boundary Section M. 30 Dist thin South from N. W. C. Wish sur bask from S. W. L . 3.00 12 m. fo. 40. south 0.75 25 m × Lav. 5752 8.55 55.00 Jav. mired with oppres 5 mp time N23 21.20 and clusters of pine 588h 1.50 70 sar 80.25 mp. . 80 Anp 1 St. I. An 2? rate pine · · · 2 do sar + ayprico 2' rate pine intersection with ponds se

Figure C-27. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

389 391 Used Boundary Section 1. 2 South Boundary Section M. 2 Dist. Run South formen N. W. 4 Dist Run Soot from s. w. 2. 40 2 mp . pine ~ 68 2 . 28 5. av cluster of south gipress 12.00 12 00 40 Emp. N.372 2.55 18.00 pond 80.32 mp 5.65 W 1. 80 80. Anp. pine N38 41.40 2: A at fine covered inthe daw palmetto + inters : cod , ~4 we 52 \$18 20,65 with ponds A 42 wood 3rd rate pine sattering growth 392 391 The A Bounday Section M. 11 out ABound any Section Nest Cist run South from N. W. L ... Diotonia him East from 5: W. 1 40 to Mp 30 00 sav. or pone 40. 2 mp. pine NSOW 5.00 East 3,41 79.82 struck p. 60. 10 × dar 64.00 × old road leading from Ft. Masty 32 rate pine scattering V growth mixed with clusters of Supition to St. Vansurangen aypus N58° € 1.95 80 mpin pint # 23 w 2.60 eng predd scrub somethy cypress 130000 = 6020.94 \$ 60 W1,80 Month 2? rate pine correct with saw palmetios and intersected with pends

Figure C-28. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

593 394 Un Boundary Section MAL . outh Boundary Section No 12 sist, run South from N. W.L. Wish tion Cast from 5 und . 24. 12 Dav. or fo. pine North 0,04 , South 0,04 40 40 12 m p. fine w 40' 2032. X sav or founde ~ ~ 45 w 0,28 45.00 dar. or p. 55.00 × 00 80. An p. 80. mp piner w80° 2 en de la constante 3rd rate pine coursed with " saw palmontas & interoscion " with pends \$ 01. 20.70 552° ~ 030 22-na & pine covered with van pal mettor April 20% 396 03.95 Wort Boundary Sochen M. 2.3 . South Bauer cary Section Nº 2.3. W Sist run South from N. W. L. With Nor Cast frin S. W.M. 40. 4 m.p. pine \$4510.25 40 2 m. p. pine N 27 20.30 60.00 Enter sout & cyfreds A 662 0 ,06 55.00 lav, or owar 80 mps. maniferer stores 1 1 Sy 10 80. m. p. B. A.cont & by June 135 6 3.00 . + NO72 N380 fina · · J · £ 2.10 20 2m Mostly Scrub and apress . 548 u 2.65

Figure C-29. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

398 Wish Boandary Sockion M. 26 ... I out the Barnon day Sention Me 25. with this East from S. W. L. 35,00 Dar. 40 2, mg 40 & mp. pineri69' 10 2.10 pine 576's 1.00 13.00 x Sav. . 32'5 0,00 8.0 68.00 pond roan Ten far Map x Dar. ping ~ 83. 2 4. 60 87.25 mb 3ª rate sine intersection with frank and correct. with saw hulmetter 2. 6 3th rate sine covered with saw palmettos 400 3.99 West Boundary Section M. 35 West Boundary Section N. 3 ... Dist run South from N.W. 1 pore \$ 14 w0. 51 NB0' £ 1. 2.0 40 Emp 80.95 m.p. pine 168 2 075 " SI2 W 0 40 50.00 Dav. or pond 60.00 ×. 00 mostly 2 de rate pine conned with our palmettos 80 Mip. Mostly 2 rate fine

Figure C-30. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

413 1300) South Boundary Section we & Wir Boundary Section to 10: . Wist Min Each from a with . 10:08 Run South from W.W.L 10.00 pondo 15.00 + 00 40. 2 m. fo. pine x 25°20.68 41 imp fine 66221-20 ". 5 37W 0. 90-1210 17.00 × old read leading from " 76.00 m.p. struck 1 the work. p. . conceled back on 1º10. 80 . mp. Jour 118 20,80 Mosthy 2? rate pine mored \$ 56:20 90 ar. mostly 2° 20 to fime covered . 1 . 404 403 South Bounday Section M. 105 Work Boundary Lection A. 15 Dist run East from L. W. L. Dist, run South from N.W.L. 2 m.p. 40. pine w21.6 0.30 woso 18. 00 pond 80. mps. 74. 50 M.J ... a shirt of scrubby cypress' sylandy & + w south your cine for the whole mile mosty or nate pine min a with charters of south offices may lat. 1st 1 m, 2 sale pine mixed with dusting o cruth gpuss 2° 00 2° su to pine enered with saw prolomettos

Figure C-31. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.
4118 4116 South Boundary Section MIS Wist Boundary Section 1: 22 With them South from N.W. a 5.00 × pond 20.00 pard a dav. 12.00 × pond 40 Elmp. × Di E Anp pone w #6 n pines 71 & 0.60 . wy w 0.72 80 mp. 18.65 mp. x p. inthe saw palmettos and inthe saw palmettos and interinted with ponds 2 tale pine coursed with vace palmeters 40% 408 South Boundary Section 1: 23 Woat Boundary Section 2 2. J. Wisk tun Bask from & to LA Dist run South from N.W. L. 40. tzmp. pene N 8 W 1 200 40 to An. p. cyprace to 25" E + 30 " 5 82" W 0, 2 mostly son rate prine covered with somet and " saw palmetter 50.00 pmd e. mpanin 252 m. 3's rate pin intersected with pond

Figure C-32. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

409 410 South Boundary Jection 1. 27 West Boundary Section M. 3 is Wets tim East from of W.L . Dist Auro South from A. W. L . 12 mp 46 San 3 115 8 34 * Dav. imp pine . in 1.20 \$1.25 Arafo, struck 4.20 2. of. 4 N #0" W-2 53 a chuck port 2 de rate pino councel with saw palmetra 2- rate pine intersected may 2ª 411 412 Verst Boundary Section M. L South Boundary Section No 25 Diet sun South from N.24.4 Dies Anni East from S. W.L pond 6.10 5 mp pines 21 21,05 2 mp N 58 W. 0,0 8 bine # 24 n 0.28 228 48 00 pond 58 00 x do M.J. 80. 452 21.45 mp 14 80 N 7- W0.80 2° rate pine cooned with high saw halmortes and intersected with \$ 47-2 3,80 2? rate pine mostly correct with high barr fal metters porto do

Figure C-33. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

413 West Boundary Section M. 9 ... South Boundary Section Mag wish dur South from N. W. 4 Wish from East from or TV 1. 1.00 pond or Dan 40 2mp. pink wazer. M to on x no. pine = 2020, 30 40: 5 mp from ft Supetion to ft-Panseerangen . \$86 w.0.45 to. m.p. 80.32 m.p. pine N12 8 2 50 N 34 W 4.90 mostly 32 rate open pine scattering growth 573 84.90 2? rate pine coursed with high saw palmeters and intersected with ponde 416 415 the of Boundary Section de 1.6 South Boundary Section N. 1.6. with run South from N. W. L. Nistana John East from S. W.L. 40. price N/2 2 3.05 30. ou pondo or var · \$71 w 3.00 40, thep, × 00 pine N65 E 1.00 mp. · 529 Wo.90 80 50. ou pond or vans w 12" 23 00 68. 00 × 00 M49 w3 .65 . 550" \$ 4. 70 75.00 pond 546 W3 \$ 5 80. m. p. 3rd rate pine contain Inde rate pine coursed with saw palmettes and interorctic with founds growth may 3ric

Figure C-34. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

203 *78 Us A Boundary Sections N. 21 South Boundary rection No21 with him South from N. W. 2 Wish nin East from S. W. L 5. ov + pond 40 2 mp pine East 0.6+ mostly sout " \$67 w 6.50 25.00 scrubby Cypress 40: × 00 40: × 10 b gpres NS: 21.20 pino \$12:23.00 68.00° ponde 78.00° ponde 98.00° × 00 80° Crig. 80. 00 mp. N4º 20,40 270 0 40 most 3rd rate pine mixed with scralby cypres \$ 9 5 2º 2 m. 2. rate pine conved with saw palmettas 4.19 420 Us at Boundary Section 1. 28 South Boundary Section 1. 28 With chien Jouth from NW 2 Wish Run East from S. W. i he to mp. forme 576 W 0,600. 36. or pond 38.00 E Ante. pine south 0.00 NOI'L 0.12 40. 55.00 south cypress 70.00 x vo 201. N.S. 20 55.00 sav. 64.00 x do Confo N 20 1 1.00 so. mp . ~ 55 w 30 5122.30 = 62 w. 30 mostly 3rd note pine conced with saw patronetto in ostly 23 hate fine mixed with dustions of services of services of services of services of frees. and intersected with fonds

Figure C-35. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

422 \$ 20 Wish Boundary Section M. 3.3. Und Boundary Section Nº 5 Wiek Run South from N. W. 2 Distance Reen South from N. W. 2 I mp ve sait 1,03 2 mp. 40 40 pine # 218 1:05 242.57 0.02 \$ 18 W 6.00 60.00 Dar. 72.00 × 00 82.00 MM. p. 80. m.p. 2ª rate fine course with saw palmetters and 2? Late pine soured with daw palmettos intersected with provided 424 423 South Boundary Section Nº 5 West Boundary Section Nº 8 ... Distance then East from S. W. c. wish Run South from N. W. 2 25.00 Sar n. p 20.00 Dav. 36.00 X No 40. 5 mp pine 341 - 2 2.00 40 . 5 mp e noina. Po · X. sav. . 52.0 W 1. 90 5.3.00 × old road leading from 33° 2 0.98 50.00 Dair or ford FA. Supiter to Ft. Vandersaringen 80.15 7.00 80. mp pine N 65 . 24.10 in make. w.65 w 4.35 561 22, 70 . 2. sate fine coursed with = 2.0'n-3. 00 saw palmettos & intinse das with pondo 2ª rate pine deattering growth & may 1:

Figure C-36. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

426 423 South Boundary Section Nº 8: West Boundary Section Nely with Run East from S. W. 2 Mictaine Run Towth from N. W.L. 40. 2 m /s. pine 2582 010 thp. bine Now 0. 04 -53820 60 51.00 park So. oo xpind mp. 80. mp. pine ~ 37 2 1.30 · ~ 49 201.65 \$ 79 20.65 mostly 3rd rate point, scattering growth, 3rd rate pine coursed with saw parmeters and interested with pondo 428 427 South Boundary Section At 17 West Boundary Section Nº 20. Distance Run South from N. W.S. with Run East from & w.c. 5 00 day, 3. or pand or sav. × Co. 28.00 × 00. 25.01 E thip. 41 - E Mar. p. 40 pine w36 w 0,70 point 1.322 # 50 5 10 - 0 - 83 egia da e mp. 80. m.S. 80 pine NOSE 3. 2 rate four conned with saw palmettos and intersec ted with ponds · \$ 65 m. 4.62 most, 2 th rate fine covered

Figure C-37. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

4.30 429 South Boundary Section A 20 Wist Boundary Section Nº 29 Vistame Burn East from 5 W. with Run South frim N. w. a 3 10 sau 20 m Var 40 Erhap ... or & do pine Nort + . 80 . . . 15 or save , NI9W 2. 25 40 mit hufe Jaine 552 w.J. 90 37,00 × Parama , north 3,50 50.00 × sav mp. - Were states -80. mp with savanas or pour de 2? rate pine covered with san painety and intersected mith poon do 43:2 331 West Bounday Section 1: 32. South Boundary Section 1 29 Diot - Run East from S. W. + Diets them south from N. W. + . 40. Ethp. Jaranne 500 Javanna 2. 40 . X. 60 524W 0153 to mp 75.00 x Sav. pine \$ 40 2 0. 90 80 . m. p. . 5354 82.85 Mp. 2 the m 3 rate pine covered with saw palmettes and somet: 2 to open saramo or owners mostly 3rd hate forme come de with save grads and intersected with for de - thay to :

Figure C-38. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

434 438 South Boundary Section Nº 6 South Boundary Sections Nº J. Wish . Run West from S. E.L Wist Run Westfrom S. E.L. \$ 4.00 av or p 40 Emp pine NZO N 2. Al 2 mp pine 5 . W 1.20 in small saw grass for . SSI'm 2. N 70-2 7 60 St. w x Davi 73.00 x old road leading from ft Supter to for san swear engen 50. pond 55.00 x do 79.75 mp. 80. mp. mostly 2 rate pine correct with saw bal metter & interior tex with ponds 3rd rate pine correct with saw pal mettos and introsected with ponds \$\$85 136 South Boundary Section Nº 18 South Boundary Section N. 19 wich Run Workfrom S. E.C. Run abist from OEL Nist 40. Emila 5.00 dan or pond pine \$29 8 0,63 Ha & to Mp. pine ~ 78 2 4 40 N48 w 2.00 19. m.p. 45.00 × Dav; 60 rar 12 79. 55 mp. A. C. Son K. 3th zato fine coursed with saw palmetto and interse saw pal mettos and inter - sited with pards a ted with ponds A State

Figure C-39. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.

438 4:37 South Boundary Section M.30 Disty Run Urst from 5 2 4 mosthy 2nd rate pine land fine 525 w 1.00 tersiched with Savannas + ponds all convicting with sach. this in paring Prating the color country is inundated and almost 50.00 Pav. 70.00 × do 75. r dav. empaisable upon account of leader A 15 D. 78.65 mp. Ind rate pin conned 1. 1 intersected with ponds may 6% bar_ 4. E. \$39 I Att dones Ds p. Surveyor do solering succe That in do volsmin a contract dated the 15" day of dancon a 5. 1845. with (b. 9. Conway Surveyor Forma Cof The United States for the duritory of Alorida and in strict conformity to the Caus of the low of the United States and Instruction of said sunger General " I have regularly surveyed and subdivided into sections Township Nº 41.5. of Range Nº 41. 6. in the Finitory of Florida. And I do further solomny and Priginal field notes of The vaid survey and subdivisions sylouted as afore State of Florida (county of al Johns (" Dof Sanny Suprin 15 and suits (45 of June R. S. 1845 GeoM. Colest. J.P.

Figure C-40. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 41 South, Range 41 East.



Figure C-41. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

7+44 445 Sound Barrodary Section No. 1. 1 West Boundary Section to day Wistance Barn South from N. W. 4 wist been East from S. w. a. 10.00 × pond 5. or x pond a sam much a series 40. find a sam pond nor sav. Emp. pine Alim Chi Cash m same for do a davo AS. Vo X sav. or ponde × de 2 anp. stor pond a day. pine . Wys w . Dis $-\chi \approx \delta^2$ \$ 45.00 0. 40 19. to struck Mr. fo. 25 4 2 mate fine coursed with sace w 3 40 part station and at inters rated in the 2 rate fine coursed with frontes and de rando more dan falmettes and inthis or ches with ponds & savanas 446 447 Jourth Barnday Soction N. 1. Wish Boundary Section No. 10 . Distance Ran South forma N are & Distance Run East from S. w. 4 5. 00 x pond or day. 1.00 × Dar. or pondo 1. 1. 12 25:00 1 Var, and saw grass, pour N. Enice 40. south or to out X Co 5 84 2 . . . 55. TV pondo sadd & Avoit of lin 2 m.P. 40. Pine .. N.6% 5.00 \$ 17 % 0.90 80. m. C. 79.85 struck mp. Pine # 64 2. 1.50 • cypread N38 w 1.40 · k · 4 pine SAFE MAN 4. . . . 2. 2. rate pine covered with saw \$39° w 4.80 palmetry & inter or ater with 2 nate prine covered will wave bornds palmatter and inter sation with and the set of the second states and ravannas and for de

Figure C-42. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

4.48 33-34-4 Us st. Boundary Leastern Mits .. Join the Boundary Section Me 13 Distance Recor South form. N. A. K. Disto Rion Eastfrom Survey 5.00 Jar. Pine Nor 2.0, 30. 10.00 .x do E. M. F. 40 sav. or formide . 25.00 pine # 8 . s . 2 mp. x . his ou " for an down 40. 41.00 x do . 55 over sy do an $\log (1/2) = \log \sqrt{2}$ 15:00 1- mode 9.65 Struck line ach south of 65 00 post which is N. in day pour a the Pine Nr55 80 90 corrected back on solar in in 13 14 2 Fate pine couned with saw palmetty and . interosched with foundy . 2 hate fring covered with saw are pai palmetto and intervieted with ponde and saram en gal maria a service 2.4 . 944.4. 450 451 West Boundary Lochimo Nº Dila Joint Boundary Seterou N. 2. 3 Destinne Run South from N. Wist Burn Cashformes, main. Emp H. O.V JAN. in pond 40. pine 15.27 2.1. 86 Ref par X do Dr. . No. p. stop 2 mp. pine mag's 1.000 Sec. old Trail blassd rangings after that along the line * Tak-pu 5 6.00 . dar. on pond MI OR SH the sta mp. the ponds 80. hinc # 27 2 1,60 2.100 5 41 4 3 80 2 Pati him correct with saw polm, the and intersection with founds

Figure C-43. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

452 433 Wist Boundary Section N. 9.5. Josth Boundary Suches NOS Visto Ran South from N. W. 2 Wist Burn East from 35 an lan on from a sig was it and sin 15. 00 pmd In State pine 40 2. An. p. 25.00 × 200. a_{N} 40. " Imp. saw grade pine are 2 4. 4. 43- UR. x 00 \$ 40 41.9.0 e se ka 50.00 × Daw pracato. 80. m.p. struck Printer Marshanna L. R. W. Ky'sit, W. 2 a 2 Dote pine er card with saw The and the automotive training and the second second Am Am ds 3th sate pine cound with Saw palmitty & into stated with ponds April 1 18 45' jod ? 414 233 115 ABrondary Sections N. 91 We st Boundary Section Nand Distance from Southe form N. W. L Disty Clarre South from we way 6:00 x san or frond which we is Coome S.E. Was mile by 5 sar. or find 405 2 1.18 8 e ... 40. 2 m.p. pini W22 21.25 Listor x do 79.65 m. p. stanch . E. A. SUR . the work is and proved the Same pond salindy South about 15 cho E, of and 2. 2. Prate pine cover a wink 60.00 day. or from de 80. m. fr. " som palmitto and interscord . pine # 47°2 2. 50 south prose do . wy4 what to 8222 5.40 . . 558w 4.00 mosty & rate fine course with saw palmittes and interson

Figure C-44. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

456 45% Jour Boundary Section No. W: ABoundary Section 1 1 Withme then best from . S. w. d. with Run North from N. W. . 5.00 × pond or dav. 5.00 * pond or sav. S. S. 4. 20.00 sar or pond . S. 12 S. 25.00 find or savanna × or 35.00 in a the second s 35 00 3416 pine Nis w r. a.d. 40. 1 E M. p; in. i mp. pine 15 15 W #. 20 363 . 4. 40 100.00 \$ 282 0.25 60. 00 Dar or pord about a loss 75.00 Savanna Estor X Co Id. M. pond m.p. Pine \$ \$7. 2 6:45 3. 14 3 *r... W 20 w 0. 90 80.25 : m. p. \$ \$ \$5' 10 85 \$ 52 w1 00 27 ate pine covered with some palmitto, and interested with 22 Late pine correct with daw palmettos and interinced prode to with pondy 451 159 Us A Boundary Section Mis 4 Cont Barndary Section NVI 1 Dictioner thein East from . S. w. 4 Distance Reen South from Mar 1 30. 00 x Savanna 8.00 pond. or Javanna Pine . worth 40. 2 m. O. 15 vor x found on par 0.062 15.00 sovana which looms N. W. · · · · · · · · · 534 w 0. ## . 40. "= m.p. pine vig w J. so 45. 50 saw grass pond & sav, 414 42.00 × sav 55 40 × do. \$ 56-2 3.30 55.00 prind or Sav. 80, 20 struck 6. B. S Spor & y. L. Saranin N. corricted back on 25' A Start × do . mp. 811. Pine. W 57 20.20 2 Pate pine covered with saw · NAV w 0.90 palmettes and intersected \$4500.35 with sarannas + pontas 53124.05 2 Fate pine correct with van palmettos and interse tid with punds & varannas

Figure C-45. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

460 461 Word Boundary Section M 23 Josetha Bore not any Section Martin Distance Run East from . S. in & Distance thin South from A. ... 1.4.4.8 10.00 × Javanna 10.00 × Jac. pine 18662 0.30 40. 12 mpr. Cine N8°E 0 M 40. 12 mp 1. . SISW 0. 65 · 326 w 0.45 80. m. f. 65. 00 Sax a pond and the second Sr. X do map . · · · · · · · · · · · · · · · \$ 5 N35 W032 1. 2.7 ste fine coursed with saw - \$ 19 20.60 . pal metty and intersected " " The Boy of wit. 20 with fronds mostly 3? note fine dorned with saw palmeters and inter · sister with ponds April 2? 462 468 Us ABoundary Sochion Nº 26 Forethe Baundary Section M. D. vist.) Row Southfrom N.W. L ... Disto them East from S. w. a. 40. 2 m. p. pine N49 22.90 west 1.90 18.00 Jav. or prinde Strop dav, or pond 38.00 × 000 40. Emp. pine Not in 2215 5 5.00 day or fame . South 12.00 alor and loomes I was MAL Mr. p. Abrach 1 yours of Lip. 80. Im por 17-20 ge . Some corrected back on 8.45 . . w31 w2.02 CALL TALL 561 24.75 an shooly I'd rate pine council . with saw palmetto and inder drichard with pondo 2 nate fine correct with an the second saw padmette and intersected المراجع أرأب المراجع أرتبت فالمراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والم with pondo . . Marian

Figure C-46. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

Usst Boundary Section A outh Boundary Section An 20 diets Rown East from so in a Distance them South form N. W. L 40 1 Emp. por 25 2 0. 70 pin .. N 27 8 35 1.17% 5 44W 4.3% 1 34º w. 50 79.65 m. p. 25. 28 thick some n. y & corrected for chim desi 2 Pate pine coursed with 2 hate pine coursed with saw padmostor and inter sets saw palmettis and interse with pondo - and with ponds Marine . 5 15 1 S ÷ 45 1.66 1. 46y West Boundary Section And South Boundary Sections 1. 3 Dists Run South from son a Distance Run Fast from 6. W. 2 5. 00 × Jur. or frond. 10.00 × pond or dar. 25. 1 Savasina. 22.00 sav. or parce 1. M. L. 32,00 X do × d. 37.00 Eimp. Pine \$ 73 m 0.20 40. 2 m. p. Pine N23 W 0. 30 40. \$ 28'w 1.00 N 59 2 0.30 75. 00 par. or ponce 60. 00 Dance Saranna m. jo. 65.00 1 3 80 80. Mr. p. w. side of dav. N12. 24.3. 1. 2 Fate pine coursed with saw N64 Wallo - palmetto and intersection \$26 00.40 with Javarmus and pands 51420.90 2 Fate prime courses with sa pal matter and entereschie with pondo

Figure C-47. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

468 469 South Burndary Section et 105 Thest Borindary Sections Marion Wish Rain South from wind Distance Run East from S. W. L 15.00 Davama 10.00 savanna looms south pine \$ 5 w 3.15 2 m.p. 3.0.00 x do 40. 4 0 ... 2. m.J. Time worn 0 40 ., '. 654° & 3.10 65. VV X. Savanna 80. m. p. 80. 1n. P. a., W4. 55 2 Fate fine correct with saw \$19 21,25 palmetto and interesched with \$ 28 w.0. 70 ponds April 3rd 2 Tate pine covered with saw palmittes ş. . 4.70 2171 0)13 Hest Boundary Sections 1: 15 Sith Boundary Section 1.15 Dist. Bur Jouth from N. W.L Distance Run East from S. W. L 15. 00 × Sav 5.00 Dav: & Daw grass form 35.00 pond 12.00 × do Emp. Pine N27 2 3.74 40. 30.00 Dar + Daw grass w190 * × 00 3.3.00 43.00 × pond Em.p. hine NS320,45 40. 64. or saw grass from at N11W0.20 75.00 Savanna 80.15 Anto head of large davanne 80. mp W 51 Pinia N57 20.20 W4 75 N 40 W0.90 364 82 20 1.5 523 m 3 00 2 Fate pine coursed with 2 Tate pine covered with saw saw palmettes and intersister Halmettos. and inter siched with with savannas and ponces Javannas

Figure C-48. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

472 473 West Boundary Section Ne 22 South Boundary Sections 123 Wist Rune South from Now L Distance Run East from S. W. L 1.5. 50 × sav. or ford 40. 12 m.p. pine \$ 38 2 0, 85. 4.0. - 2 imp pine 555m1:05 50.00 sav. on find 327 2 0.27: 75.00 dav. or jomb 70.00 x or Por. mp. 2 0.75 79.80 m. p. otrach mostly strate pine connece with saw grade & interouted mostly In rate fine coursed with with ponds Saw palmittos and intissedid with ponds ÷ . 475 474 South Boundary Jo 2thin M. 27 West Mourn day Section No 97 Wistance Run East from S. W. L Vist Run South from N. W. 2 40. 2 m. p. pine N83'2 3.40 32:00 par. or ford 45.00 x pmd n dav 4 15 38 M 1. 5% 40. 2 m. p. . . . pine x 83 5 1 25 which loomis 5. E. \$ \$7802 1.40 65.00 dance pend 43.00 x var X do 1. 18 L m, p. struck 77.00 80. m.p. N31 8 1. m 3rd rate pine covered with saw farmetto and with social with ponds. 552.61.05 w 0.80 32 Lats pine cound with saw palmitto and interse - tid with fondo

Figure C-49. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

West Boundary Section A. 4. Wish Boundary Section 10 3.4 wist Rowin South from an un to " distance Bean South from N. W. L . 40, ± M.p. pine Wy 12 1, 205 50.00 save a pond -35.00 × sais or pond 140. 1 to mip. pine N75 W 0.35 N36 8 # 25 65 X de 6.6 · var. nº pomo 19.22 struck for 70. × 60 80. M. fo. Anosthy 3rd rate pine covered with Saw palmettos and interested with pondo to 3rd rate pine coursed with saw April 1 polmitter, and interested with ponds 478 479 What Boundary Section (Mg .. South Boundary Sectionian to M Dist. Run East from S. W. A. Disto sterne dorethe from N. W. 2 30. or pond or sav. 36. or pond on sav. pine NGE 1.90. 568 1 2.15 \$5. 00 × pond 55. or x pond 80. M. p. struck 75.00 ponde 80. 2 Fate prine covered with sour palmetters and inter section with ponds 5.6. 40. 2 Throsty 3 = rate pine come a with saw palmettes and intersed.

Figure C-50. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

480 \$81 with Boundary Section It In West Boundary Section M. 1.6. Wish Run Each from S. Mart 1. Distance Rain Jouth from Now 2. 5. ov × pond 5. or X sav. a foord 1997 - Ph 40 . = 12 Mm. for fine 15 as came por viry W30.W . MG. \$ 5 2 6.10 20.00 · × ch. 65.00 pond on sav. AK. 2 m.p. 11. 344 pine N426 5.40 7.7.00 × dv. 578 0 0.85 80. m. for atrack 55.00 froma or oans 65.00 x do 80. mp. Israstly 2° a arti pine coursed with - saw palmity , and entraiched de mostly 30 rate pine owned with saw palmetter and interested with ponds 483 48 Hest Boundary Section May South Boundary Section No 10 wist Run East from 3 min in Dist; Run South from N. W.L. 15.00 pond or sav. to mpo. pine ~ 10 21 50 40. X or . Dav. aund N. V. S. close . ~ ~ 60° w/ 50 I mp. 40. 18 line forme with wir 200 45:00 sav. or pond W . A. H. A. 45.00 same fond × d. 78.00 fini N43' 21.25 65.00 X de. 80. m.p. 25.00 same pond N17. W.1.35 80. An po opent \$52.20,50 549° mo. 33 Amosthy 3rd rate pine coursed with saw palmeter and hostly 3? rate fine correct with . saw palm, the and intersted intraductions with formas with pordo

Figure C-51. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

484 485 Hest Boundary martino 18 28, - on Ah Por ned ary Section M. De Dist. Kin East from S. W. L Dist Bran Jose The france A w. L 35. 00 Jar n pondo . . . In 15 god proved or sam No. & Emp. x J. pine moths at " 2. Ma do. prime W 75" wr. 85 . 512 2 4 95 A.12 2 4.65 20. or dav. 45,00 × 10 18.00 × de. 65.00. 1av. 80 mp. Son's the pi 4 18 W + 18m " a a state pine covered with " " sour palmetto + unfirsted with 3ª rate fime covered with saw W can Se . . . palmitte and introiched with ponde. April s' 488 287 West Boundary Loction Mess . on the Boin dary Section No 20 with Rison East, from & in the Dist Been South from Ninvie 40. 5 m.p. 15 00 dav. on fr. forme word with \$ \$4.02 × do looms salts 40. Emp. pino 65. av sav, a pond \$8.00 Y. do. importo o. + * 42. or saw grees from a) 48. or × do. 80. 20 m.p. t the cr S. 84. 78.32 An. p. Ind sate pine course with mostly 3rd rate pine coursed sur palmetto and intersected with saw palmettes and intersice. with pands -Tid with ponds

Figure C-52. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

489 South Hormetary Section A 5. Us & Boundary Soution It & Dist Rism East from S. w. . Dist Run South from N. w. A. 40. 4.000 sav. on food 1 X do 1572 w 0.57 \$2.00 save on ford sar or pond brygy 30. 00 1. . 1. 4 2 m. fr. \$. or . 2 do. \$ 54 2 4.40 80.15 m. fr. $\mathbf{b}_{\mathbf{k}}$ #48 w 2.4# 45: 01 x pond 2 Tate pine covered with sace 60.00 foond or sav. palmesso and intersection with 75.00 × do son your 80. m.p. 1.00 તું અહેતુમાં છે. દેવના પ્ 8.46 50 S 20.15 de de la 4 S. 5. Sec. 10 . . 5.1 r w050 an an the teach and a second 3rd rate fine course with 1. N in the grant in the saw palmettos and interesched with pondo. 490 4.91 West Boundary Lection Me & South Boundary Stron H 8 Dist Run South forme M. man Wish Rins East from S. W. .. ACON 8. or save or ponda 3. 00 × pond or sar \$7.00 x 00 E mps pine wsin a und 405 . to mp. ب د د د د 50 E 0. 2.2 65 or son or from de 71. 00 Dav. or formed 79.98 struck poets m p. 80. .59 6 8.00 mostly 3 th rate frie coursed فراري المراجعة 62 W 6.30 6 3.9-" so stod with ponds 1 and a sur also a sur a sur a surar mostly source fine course with saw palmetton, and inter-- sectia with fords.

Figure C-53. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

492 493 Ubrof Boundary Strimite J Sout Boundary Sections M. 17 Dist. Run South from N. W.+ Diets Burn Eastfrin 8. who. 10,00 × Sav. or pomer. 25.00 × pond or sav. 2 m. p. pine \$ 762 \$0 35:00 Samie ponce ho. 2 Mp. Salaria . # 20° w 0.40 fine N 88 W 2.10 75.00 Jav. or forma mp. N1.2" Sed 25 45. 00 × do 80. N40wo.gr 5 ou same pond a sa 79: 85 shack posts \$ 17.2 4.57. \$ \$79 ~ 3.00 Bran Bran mostly In date pine coursed most 2 rate frine covied with saw falmettes and inter orched with pondo de. and interproted with fronds 494 495 Wish Boundary Section Nº 2.9 Joint Bown dary Jester A. 20 151. wists Ruger Joseth forma N. W. A. Dist.) Run last from . 8 . w. a. 30. or × Jan. or formed 32 00 X sav. or pond 40. Emp. partice 1.35 w. 62. 20. . 2. m. p. 2.000 N63 E 0.45 M. 1835 20, 08 NA3 W 0. 3 15 80. m.p. N43 21,40 50, 10 Sav. or ford · March 1996 6. 3.0 N14 2. N 16 w 0. 90. mfo 80. \$ 14 8.2.85 553 20.45 540 m Ja 45 549 40.85 NIGW 5 10 " " " threathy 3" thate pine coursed mostly 2 Fate pine covered with * . with saw palmeter and inter saw falmetto and intersection state a with party in with ponds in the second second April 6: S. W. State

Figure C-54. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

496 497 Mart Boundary Section A. 23. Joseth Boundary Section N. 29 Diets Reen Jouth from N. W. . . Dist Run Cast from . S. w. 5. 00 × saw prass p. 5.00 × save or pond a series & the is • 1 pine - w45 2 0.28: 1 Lo. E. M.p. 30.00 dav. or famil 13 4 how i ant. 80. m.p. struck pine NILW SLA N60°8 3.20 line continues in sav, mostly sad rate pine cound with mp saw polinition and inter other 80. fine NASE1.60 with ponds he N45W 1.20 580m 2.00 85 . . . · · 512 8 1.12 mostly 3 tats finer covered with saw palme they and inter esclid with ponds de 4.98 Weat Boundary Lection M. 3.2. South Boundary Section A. G. Dists Run South from N. W.L wist Run West from S. E. L. 15. 00 davi or formal A. K. X i mp. 40. 1268 2 th 25.00 x de . Don Emp. · pairs N \$5 W 1. 100 ¥ 4.20 SU. W. x par or p. 77.25 Struck mp. 79.75 M. p. 7~ and the state of the mosthy 3rd rate pine covered with saw palm to and inter an material managements and the constraints of the particular mostly 2? rate pine surred with saw palmitter and intersected with you do.

Figure C-55. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

500 500 . out Boundary Section M. J. South Boundary Section A. 18, wish Bein Mest from & E.L with Rion Bast from S. S.C. St. et x pund or save × prond in the second a 32.5 V 3. 00 · . . . 2m.p. 40. Journe 1459's a 8905 same pond 42 or dam's or pour a vo X vo. a sa a la co/d la bar y 24 boll ou x do 12 m.p. pine AAS W. P. 40 1. go. m. p. 1 25 2 4 63. 45.00 same pand 3rd rate prime covered with 75.00 × 40: Daw pal mitty & interested with 78. 3 5m dlouck on h. p. prode to S.o. . mosth 300 pate pine conced with saw palmetes and intersion , a second of a starter i 502 503 South Boundary Section 1. 30. Jouth Boundary Soction to \$9.00 Wish Run Us of from 8. 5 4 Distance Ren Wist from S. E.L. · · · · · · · 6. or x save grass for oud 3.00 × dav. 40. 2 m. p dav. or pond 12. 00 pins \$ 29 E 1.60 2. UN. J. 40: 1 1. 1. 1. N22 W 0, 15 77. 4 Spick 1. fo. t the general \$ 71 2 4. 66 65.00 × 00 S. 16 4 78. 12 Shuch L. p. Sec. 3 Tate pine cound with 22 4 saw palmetros and interese all and the second of the bled with ponds 3rd rate pine covered with au palmettes and interessed April 72 Var. 3."20 2

Figure C-56. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.

504 800 h. Juro that tid 15 day of January 1845 2 with 10 9. Conway o Jennal for the disritory y the Minited States florida and in street conformity 1 whole down To the lows of the united states and and 3th rate fine d Instructions of said Surveyor Seneral sectido with innumerable Equelandy surv Sharin a and d' Javaninas all to an to so times Yourship. ach other, and in Nº 4 D. S. of Range 4 #. E. in the almost impassable Florida Junto 29 firsther deterring and and the in 602 hild notes of The ~, outed 20 State of Florida ni ity of St. Johns to + out o criter fore And they 14 the of a. J. 18 Geo Mi Cole Sr.

Figure C-57. Field notes from the 1845 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 41 East.



Figure C-58. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.



Figure C-59. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.

591 North Boundary Jonon ship 43 Bange 4.3 54.5. North Bourn stary Jour ship 42 Range 48 5+ 38 Vistance 2nd miles n Distance Run East from N. W. L Variation 3' ho's 12 mp. 111 10. 00 - buter gipress swamp 40 the mp \$ 20 \$ 2060 maple . in' 2 a. us mp. 82. . Bay N \$42 0.25 mp. N > 3' W 0.30 \$ 60. 40 44 Bay palmette : SI'waa Silves appress dreamp mostly cypress swam southy growth scrubby growth North Boundary Township 1, 2. Mange 1, 25. 4. orth Boundary Sounship 49. Range 49 5+2 With 3rd mile tance 5th Miles 15.00 X express devamps & inter pine. 12 m. p. H. ... 2 mpi. pine N 27"2 5 5 30 2 0.90 \$ 18 m 2. 10 favanna) 80. m.p. vo x do m.p. bine N 73"21.85 . post 5 453. 1 N 32" W1.80 2. 2. Hate fime cound pine scowi \$ 12.22.20 2 Pote fine course with saw palmetter. · Buith van palmitte \$ 61° w 2.40 . 4 th Mile 40. 2 mp. 6th mile foin : N4 2. 2, 50 × old read leading from It Supition 56520 42 00 pond to New rinn 46.00 × do E m.p. June N 28-1 105 75.00 × old trail 824-201.40 80. . s Chr. p. station 1.42 Mr. p. stick 2.90. Smith 2 Fats frins correct with pins N 28"2 0. saw palmettos 5664-12 \$ 40-11.50 2 Dati pine covered with saw 566 2 0. 6 5 55 ... 2.75 palmitte

Figure C-60. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.

AL2.5 mahip 4.2, S. R. 42 E agat Field . Notes . mf Thereships and Fection Sames Frunship 42 South Hauge 42 Vest of the Prenoipal Maridian Survey in by Melian & Day as Nep? Ja " Commence 2 " of Colder 1855. 31 Goppleditte In day & Colota 1835 260 2591 . 2.1 Post Sabata Schan Corners 100 2216 . 248 2.119 JAD. RAL. S & Eller 2'20'E Cast Boundary of Jourship 42 Hangels 8° 1 Mile North between Section 51 836 40 00 Set 14 Section 931-Township 1.2. Range 12. SYE Surveyed in the Month of Coloring Cyprofs 1 in 119 8.89 7 . 5750750 50 00 comer to Letion 56 25 50 851 1835 mute . Completed the the May Pour Sin 557 18 45 11 ich - 1835 " 11 .. . 1 66 .. 25 · 7 . 60 % 100 ø. . 5 5 27 620 Cast boundary of Janship 42.5 Range 12. & retraced at for 100 % The post being seted und bearing. 3 rate Ken & Cyperfs Awamp Trus obliteraled I forma necessar to retrace this line and establish Mile and half mile pot in Thear proper places

Figure C-61. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.

480 2.50 J42 R42 542 542 R42 S& E Cast Boundary of Jourship 11 hang 1.9. 3 Mile North between Sections 1989.4 Cart Boundary of Jourship 42 R42 " 2 mile North between Sections 258 30 38 00 acrofs began to hearing to trainie Sol 14 Section Pot-40 00 1000 Set 1/4 Section Pal -Cyprep 12 in 5838 18 Cyprefs 18 in 12.58 12.6 Mustal 3 .. 136 114 80 oc Concer to Sections 25 24 19830 80 00 | comer to Lections 9.1, 13. 18.19 Cypropolis Nin 65 Pine 5 in Nh& W 120 10 . . 63 W 45 . 18 . 5 13 . 580 9 . 5 55 . 36 8 . 111 6 2.82 5 1 1 35 6106 3 rate open Cypress Swamp Cyprofst. 58 . 311. Bark Cyprops & Prairie Nu3 52 2.1.3. JAI RAI SAGENE 342 R42 588 Cast Boundary of Township 42. Range 42. Cart Boundary of Sorenship 42 R1.2. 1 Mile North between Section 15815 000 to Pour 25 00 acrop Prairie to Pine 18 00 acrofs Kind 10 00 Set 14 Section Pothe ovo the Hi Sec Port-Time 10 in . 13210 4# Vine 10 in 1/4910 11 . 13 . . 49848 to Cyprefs & Sungrafs Port 80 00 comer to Lations 12. 1. 6. 7. 35 cc 64 00 80 00 Id comer to Sections 13 12.78.18" Pine 14 in 169811 Por 10 in S 61.11 71 . 21. S 46 .. 180 " 9 N 75 832. 3 Into line & talmathe Land 18 . 5 60 . 66 ~ 10 . N 85 W 64 3 rate Prairie Pine & Palmille

Figure C-62. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.

~ 2.55

JAI KAR SSEmar Love JA 2 K 14 2 S& En 2°20 E Cast bundary of Sound & 1.2 Range 12. 6" Mile north between Section 186 South Boundary of Jourship 11 Range 4.2. While west between Section 18 36 ht co det the Section Pot-30 ro have hupres for Pine 000 Set 1/4 Section Post-Pine 12 in 162850 27 .. 5 82 11 96 16 co li 10 . 5 64 . 60 the Suprep Swamp. St co comp . . to Pine 20° acrop . Sh 55 Corner to Formships 41842 of Ranger 423 He Fee crip Read Pine 10 in Sho 10 2 83 SO ro comis to Sections \$5.36182 Brok line & Valmette Land Pine 18 166868 " 19 .. S76 1064 South brindary of J 41.5 K428 11 6 . 530 613 setraced inconsiguence of the excep being n the East. hat the 3 rate Cyprop time & Valmitte bearing trues obliteriled. The first Three and a half Miles was a Sa at a Vanation of 2º 10 6 The bala I could not find . I theory or extended it at the Same 256 542 Rh2 S& E ?? JAR K 1.2. 5 & Enart work South boundary of Tourship 42 Rang 42. South boundary of Township 12 Raing 1. 1. 00 Set 1/4 Section Port 2. co to Poul 31 to ver for Rout Callege 9 in N6 8 38 5 co Marsh & Cymp 1ine 9. in 557. 10 9.21 10 00 8 Set comer to Sections 34 33.38% " 8 . F68 29.07 44 00 to Cypres Sump. Cyprefs 6 in 1528 187 9 . 37 . 2.14 MARK ARAYAN SK. AL All 50 00 comer la dections 2. 3 34 835 6 .. . 80 10 7.00 Pine 5 in 5 57 8 18 6 . 112 . 196 Brate Cyprop & Marsh . 8 .. . 11 1184 Gyprep 5 . N34 872 Brate Pine & Cypres Swand

Figure C-63. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.

2.58 542. K.47. 5.8 Enverse J.4.1. K425 & Engener South boundary of Servership 12 Range 1.2. 5 " 5" Mile west between Section 5 8 32. 36 00 to Pice & Palmete South boundary of Server Sich 12 Range 4 1, " mile west between Section 4 8 33 To Cognet, Island 33 00 10 res det 14 Section Port-Set 14 Section Pot at west edy of Islan 00 Bay 5 in 1 35 848 Cyprifi Sin S3 W 32 65 00 to Cyprefs Avamp . 3 . 5 25 10 9 to Pond So or Set Corner to Lections 32. 33 1, 85 Corner to Sections 3132. 586 at west 90.00 Cyprefs 6 in 1 5814 1 Pine 8 in . N 26 W 4.3 . 6 . 556 836 " 7 " " S W M 8 . 5 41 8 86 " S 12. 109 6 ... S 45 W 18 " 4 . Nº 34 8 4.1. Brate Cyprefs Time & Palmitte 3 rate Cyprefs & Marsh Between Section 35 836 North 2.60 J47. K 1,2. 58 Elarma South boundary of Jatusti 12 Hange 12. 6 Mile west between Sections 6 831 50 to ford 1, ro' acorts Hond 8 10 acoop pond to find acrefs Port Let 14 Section Port-11 10 opt to Pond 00. Set 14 Section Pot-39. 00 40 00 Time 11 in N 810 3 90 Pine 1. in S15 1 87 · 10 · · 15 6320 N72. W8.07 acrops ford 1,5 00 to Lond 30,50 lo Jawgrafs 63 00 acrofs fund. Sh VO intersect Range line 13:15. North of Township Corner 128 acrop Sawgrafs ceno, to 00 Corner in Vout to Section 35.362,5x16 B establish Comes at intersection Pine 11 in STI & 140 Pine 10 in Sh4 853 " 10 " 185" 201 " 10 " N/19 . 181 " 12 " 3 3 W 346 Drate Pine & Palmitte · 11 . 136 . 2.57 5 Sangerfs Vine & Valmitte

Figure C-64. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.

2.60 263 11.1. R.1.1. 5 8 6 JAI K42 SS E Var 2" Randon between Sections 25 336 East 19 98 by Corner 7 North of Port West a line line believe Sections 25 366 to set 1 Section 121 20 05 acrop Cyprofs Swamp to Pine. 39 99 Set 1/4 Section Port-Mine 12 ... 530 1015 · 10 .. 139245 to Road & along it Pine 10 in \$136 81 50 00 Comer to Lection 25.2625 824 1. 9 : SISW 60 51 00 A. Pour Vin 11. in 128 886 63 00 acrofs Pind 77 50 to Pond 71 18) to Corner Port-. 12 ... 15 8 13 3 tapprofs Vine & Valmetto State Pine & Kalmitte 342 R42 588 .264 11.2. K1.2.5 & Garous Between Section 3. 5 8 21, North 31,50 Cave Read to the East 40 00 Let 1/4 Section Pot-Mandom between Sections 7.4. 425 East 79 83 to Corner 10 North of Pol-West a true line between Sections 11,82 - Time 18 in 5 51 2 134 110. 2. or verop Swamp to Pine 39 92 Set 14 Section Port-. 22 . N25 1 135 4 00 & Poul Pine 15 in 132 W75 0 00 / comer at toth idy of the to Lections 23,24,154 · 8 ·· S 64 8 40 41 00 to Pond 54 pt acrops Pond 79 85 Corner Port . 12 . . 276 83 " 9 " S1 " 601 " 20 " " 11 & 643 Brate Pine & Palante land 3 rate byprofs. & Pine

Figure C-65. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.

266 26; 341. K41. SNE 341. K42. S & Gurring Random between Sections 13814 Eur Between Actions 13 & 14 North 79 10 to concer 15 Note of Pol Themen 6 co to tod Assess for a true line between Julias 13824 to acrop. 2.0 00 acrop Prairie to Pine 11 1/4 Section Potto Cypress Swamp Pine 10 in 144 856 24 00 34 00 acrops . . 12 .. . 68 W 62 . 10/ Comer to Section 11. 19. 15 3.14 Set 14 Section Pot 39 85 Pine 12 1 33 10 59 Time 12 in 831 860 " 14 .. N 42. 86 . 18 . 566 . 1.88 58 ov acrofs Read 19 . 1 24 8 2.90 11 10 to comer Pot-. 7 . 5 56 . 218 Brut Prairie Coppress Junp & Pins Tale Vin & Valanto land 2.68 51. 1. R.1. 2. S & Enar 31.2 R1.2 Sty Random Kotween Sections 12813 East Between Lections 11 & 12 North 83 to Corner 18 Not of Post theme 79 005 10 Youd. Porse West a low line between Sect2 \$ 50 Acrep 16 50 14 Section Potacrofs Tond 26 50 Time 10 in 118 69.0 39 89. Set 14 Section Mal · 18 . . 68 W 49 Pine 14: 567831 Corner to Sections 1. 9. 11 812 60 00 errs Roud Noth Pin 10 in 563 8105 12 .. 168. 150 79 851 Corner Vat · 9 . . 52 11 28 Brate Time & galiatto " 14 " S 16 " 90 (3) pate Pin & Palmette

Figure C-66. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.

J1. 11 47. 5 8 6 11.1. K47. 5 X En 200% St 26 & Handon between Lection 78.2. North-St 26 & Township line 62. West of Post stand 2° \$ 15 W & Inc line between Sections 1 \$ 2. 27 00, to Rend 35 For acrof " Randon blown Sections 1 8 11. Cast & corner 10 North of Part The St. West a free line believe Section 18 0. 7940 he Pond 16 00 60 95 Al 14 Section Pot at dy from 14 26 Let 1/4 Section Pat-Pin 12 in 5728 186 Time 10 in -5 12 10 1.3 in 14 . . . 66 8132 Shi 2.61 comer fat-4.6 00 acres Poul 58 00 errs Read 5 6 (3 rate Pine & Palimitte 19 10 comer Port-3 tale time & Palmette J42 R12 586 J. 1. K. 1. 2. St. Eler 2009 Random between Section 26835 East Between Sichins 31, 835 . Vott 26 30. acrop Cyprefs & Pine Swamp to flat the 61 to Corner 19 South of Post Themes . her co bet the Section Pat-105 derof land Prichin VISUSO 50, crop Head St ~ 5- S&1 8140 50 00) corner to Sections 34 357.6 827 00 to Youd 55 Sto Set 1/4 Section Port -39 11. 11. 2. 16h WY Time 10 in Shile 11 9.10 " A . 545 .. 13 15 50 nemp Poid " 9 . . 15 E36 · . . . N27 . 40 3 rate low Cyprep & Pine 79 601 le Corner Tot 3 tale Pine & Palmitte

Figure C-67. Field notes from the 1845-1858 General Land Office Survey of the Loxahatchee Slough Area; Township 42 South, Range 42 East.