

**Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Suwannee County Preservation Florida Forever Project
Analysis December 2024**



This document contains the Florida Fish and Wildlife Conservation Commission's (FWC) Geographic Information System (GIS) data analysis of the area yet to be acquired within the **Suwannee County Preservation** Florida Forever project. This analysis was performed to provide FWC and others with important fish and wildlife resource information to be used in evaluating and ranking Florida Forever projects. The data selected for analysis are those considered by FWC to spatially reflect important fish and wildlife habitat and life history requirements.

In addition, FWC has completed a field review and associated assessment report for this project/proposal that is incorporated within the Acquisition and Restoration Council Florida Forever Project Evaluation Report. This report is available upon request.

GIS Data

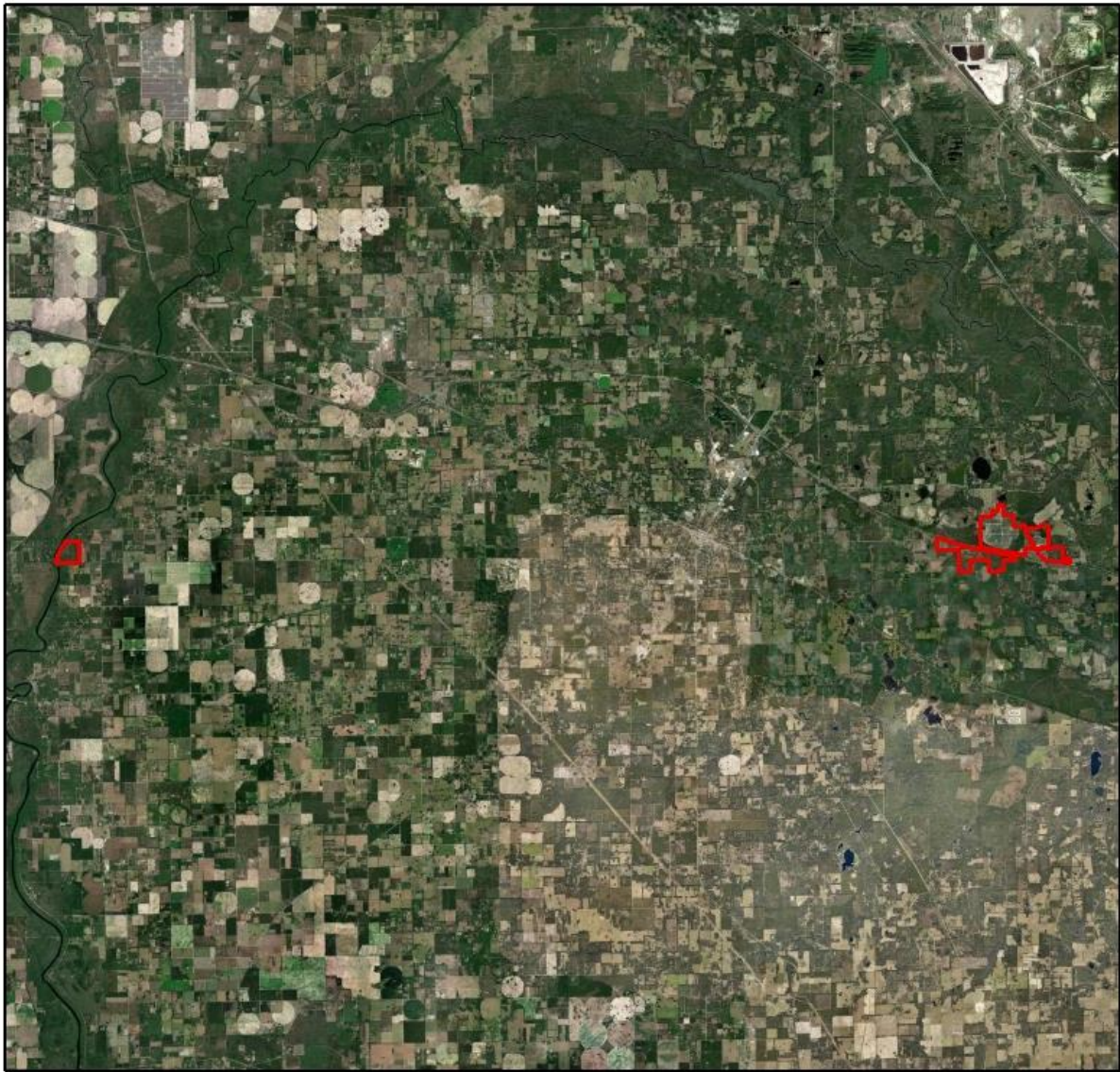
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review of aerial photography. Land cover acreage estimates found in this document are based on GIS analysis of these data.

The FWC Florida Landscape Assessment Model (FLAM)¹ is a GIS model that determines the landscape value based on natural resources and fish and wildlife habitat. The FLAM ranks habitat from a 0-10; a rank of 10 being of greatest value.

Important fish and wildlife resource GIS data were queried using Environmental Resource Analysis GIS computer software. These data include the following GIS layers:

- FWC-FNAI Florida Cooperative Land Cover
- FWC Strategic Habitat Conservation Areas – Priority and Species
- Critical Lands and Waters Identification Project (CLIP) – Priority 1 and 2 – Terrestrial and Water
- CLIP – Landscape, Biodiversity, and Floodplain Resources
- Panther Location
- Panther Mortality
- Florida Panther Priority Habitat (Primary, Secondary, and Dispersal)
- Black Bear Range
- Rare Fish Locations/ Imperiled Waters
- Southern Bald Eagle Nest

- FWC Imperiled Species Richness
- FNAI Element Occurrences
- FNAI Suitable Habitat that Supports Species Known to Occur in the Vicinity
- Florida Department of Environmental Protection Surface Water Classification
- U.S. Fish and Wildlife Service (USFWS) - National Wetlands Inventory
- USFWS Critical Habitat
- Florida Geological Survey Springs
- Outstanding Florida Waters
- Areas of Critical State Concern



**Suwannee County
Preservation
Florida Forever Project**
Suwannee County
1,254 Remaining Acres

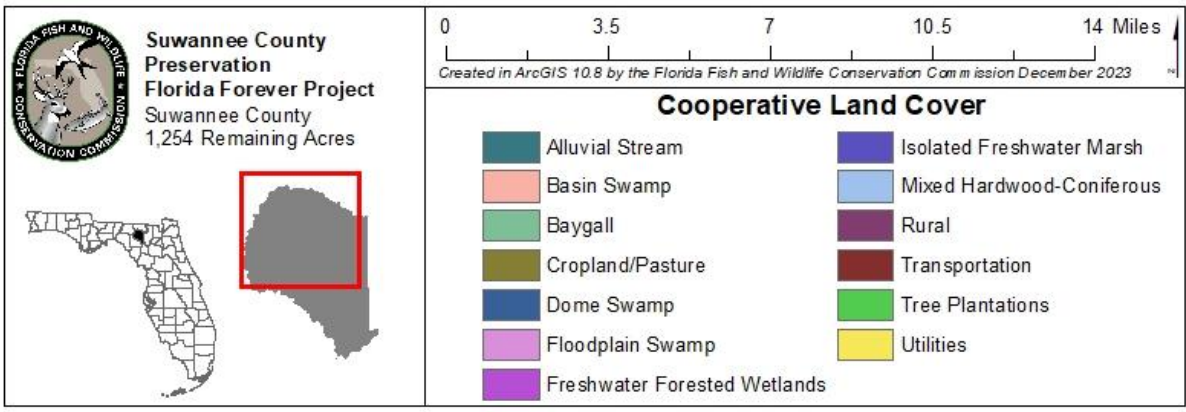
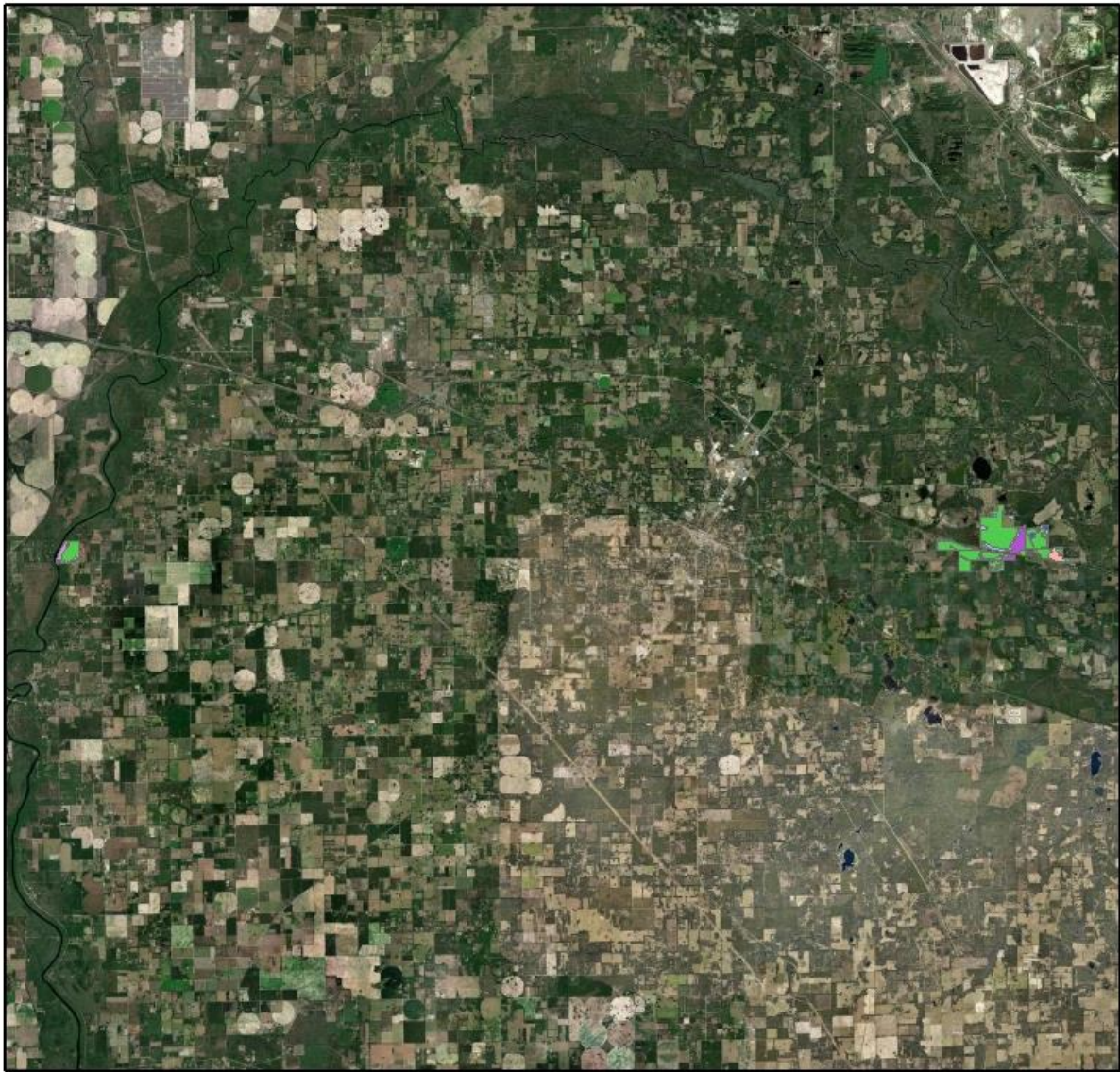


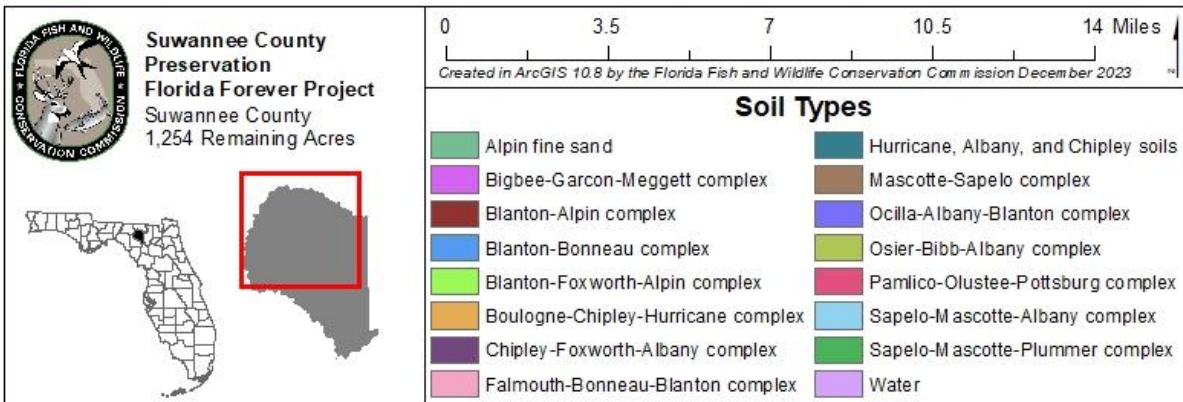
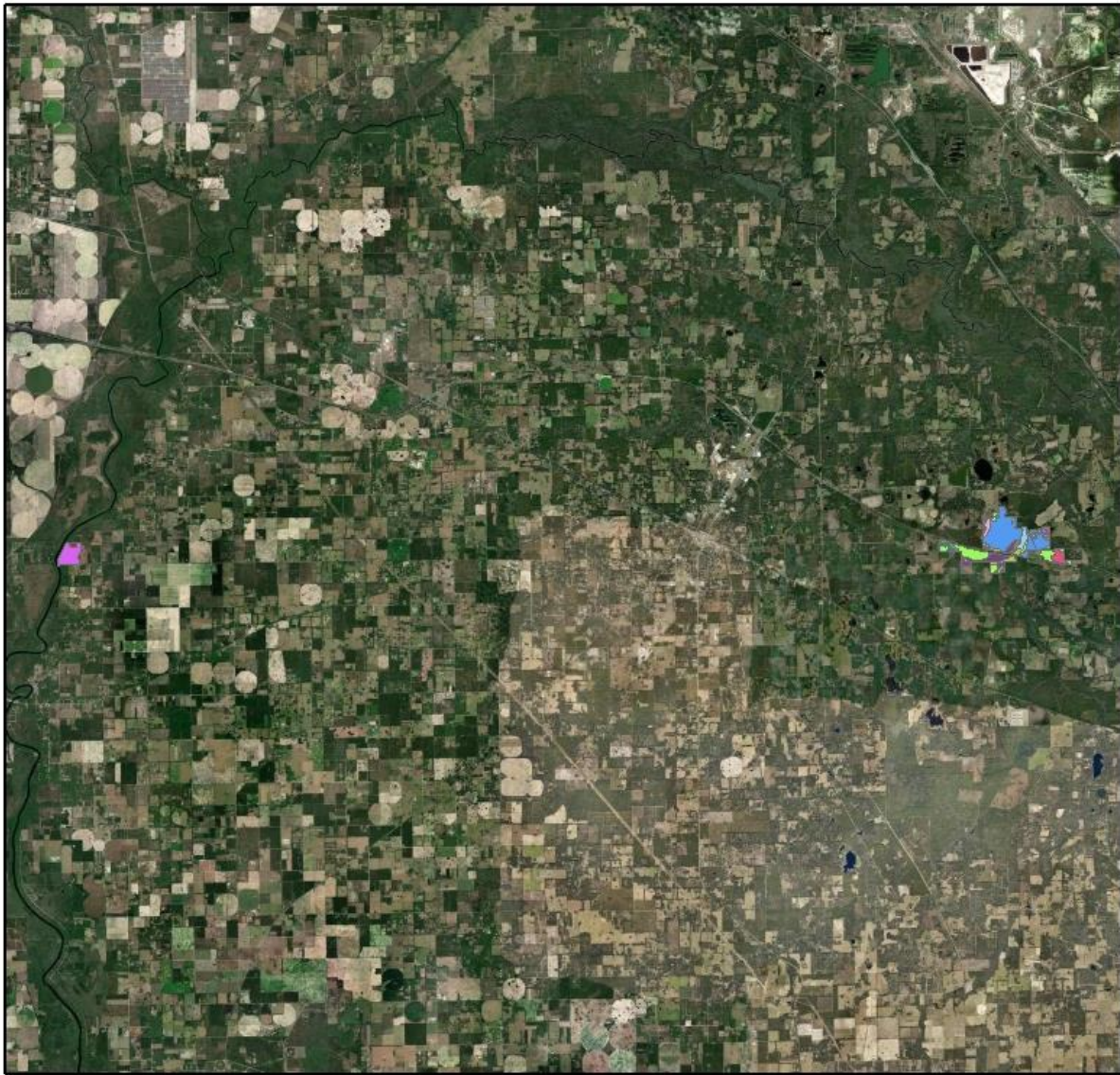
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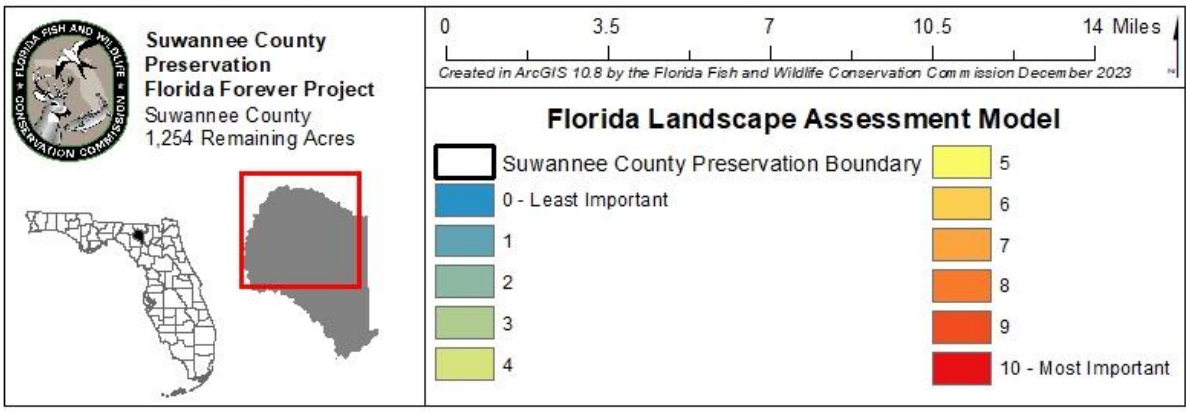
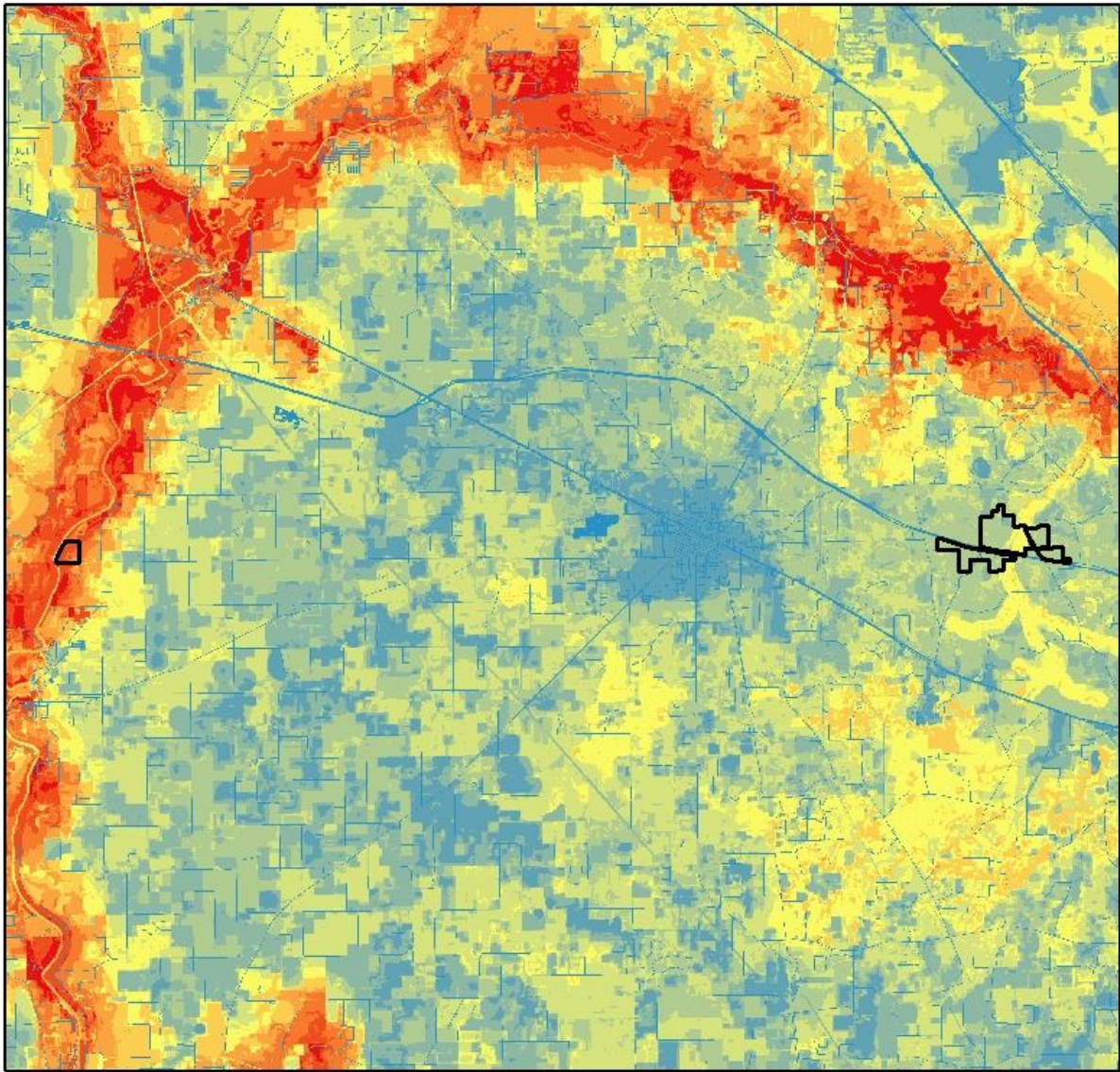
Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2023

Aerial Imagery

 Suwannee County Preservation Boundary







FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	18.5
	1	0.3
	2	35.1
	3	796.0
	4	116.0
	5	144.7
	6	0.4
	7	9.3
	8	68.1
	9	66.6
	10	0.0
Mean FLAM value =	3.9	

Comments:

¹ FWC has developed a GIS-based assessment tool that incorporates a wide variety of land cover and wildlife species data. These wildlife species include imperiled species and locally important species. Application of this model assists in the identification and conservation of important wildlife habitats. The FLAM ranks the Florida landscape based upon important natural resources and habitat needs of wildlife as a way to identify ecologically significant lands in the state, and to assess the potential impacts of land development projects on wildlife populations. The FLAM is provided as part of the FWC's continuing technical assistance to various local, regional, state, and federal agencies, and entities interested in wildlife needs and conservation in order to: (1) determine ways to avoid or minimize project impacts by evaluating alternative placements, alignments, and transportation corridors during early planning stages, (2) assess direct, secondary, and cumulative impacts to habitat and wildlife resources, and (3) help identify appropriate parcels for land conservation, and for wetland and upland habitat mitigation.

Environmental Resource Analysis

FWC Land Conservation and Planning

Analysis Shape Type: Polygon

Analysis Timestamp: 11062023 12:52:03

Shape Name: Unnamed polygon centered at -83.038763 °, 30.296678 °

Boundary Area: 1253.98 acres

Buffer Area: 0 acres

Total Area: 1253.98 acres

FWC Wildlife Data and Models

Cooperative Land Cover v3.6

Name - State	Code - State	Name - Site	Code - Site	Total Area (acres)	Percent of Area
Improved Pasture	183313	Improved Pasture	183313	0.00	0 %
Rural	1830	Unimproved/Woodland Pasture	183314	0.00	0 %
Freshwater Forested Wetlands	2200	Bottomland Forest	22331	118.37	9.44 %
Basin Swamp	22132	Basin Swamp	22132	47.53	3.79 %
Baygall	2231	Bay Swamp	22311	0.00	0 %
Transportation	1840	Transportation	1840	17.60	1.4 %
Natural Rivers and Streams	4100	Natural Rivers and Streams	4100	0.73	0.06 %
Tree Plantations	18333	Wet plantation	1833321	0.00	0 %
Tree Plantations	18333	Coniferous plantation	183332	877.55	69.98 %
Cropland/Pasture	18331	Irrigated Row Crops	1833111	28.21	2.25 %
Dome Swamp	22131	Dome Swamp	22131	3.05	0.24 %
Rural	1830	Rural Structures	1832	0.00	0 %
Utilities	1860	Utilities	1860	9.48	0.76 %
Rural	1830	Rural Open	1831	8.48	0.68 %
Upland Hardwood Forest	1110	Upland Hardwood Forest	1110	0.00	0 %
Successional hardwood forest	1410	Successional hardwood forest	1410	97.36	7.76 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	0.00	0 %
Isolated Freshwater Marsh	2121	Depression Marsh	21211	19.47	1.55 %
Floodplain Swamp	2215	Floodplain Swamp	2215	26.15	2.09 %
Prairies and Bogs	2110	Wet Prairie	2111	0.00	0 %
Freshwater Non-Forested Wetlands	2100	Floating/Emergent Aquatic Vegetation	2140	0.00	0 %
TOTAL:				1,253.98	100 %

Critical Lands and Waters Identification Project (CLIP) Priority 1 and 2 - Terrestrial and Waters

CLIP Priority	Total Area (acres)	Percent of Area
All other cells	908.02	72.41 %
CLIP P1 in submerged lands/state waters	33.88	2.7 %
CLIP P1 in terrestrial	118.40	9.44 %
CLIP P2 in terrestrial	188.19	15.01 %
TOTAL:	1,248.49	99.56 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	29.23	2.33 %
1	790.02	63 %
2	288.80	23.03 %
5	145.93	11.64 %
TOTAL:	1,253.98	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	107.85	8.6 %
1	130.51	10.41 %
2	418.17	33.35 %
3	527.81	42.09 %
4	1.08	0.09 %
5	68.56	5.47 %
TOTAL:	1,253.98	100 %

Priority FWC Strategic Habitat Conservation Areas 2021

Priority	Total Area (acres)	Percent of Area
0	651.69	51.97 %
3	548.62	43.75 %
5	53.67	4.28 %
TOTAL:	1,253.98	100 %

FWC Strategic Habitat Conservation Areas 2009

Species 1	Species 2	Species 3	Species 4	Species 5	Species 6	Total Area (acres)	Percent of Area
American swallow-tailed kite						455.38	36.32 %
Cooper's hawk						54.70	4.36 %
Cooper's hawk	American swallow-tailed kite					101.45	8.09 %
TOTAL:						611.53	48.77 %
Panther location							
No Records Found							
Panther mortality							
No Records Found							
Panther Priority Habitat							
No Records Found							
Bear Range							
Bear Range		Total Area (acres)			Percent of Area		
Occasional		1,253.98			100 %		
TOTAL:		1,253.98			100 %		
Rare Fish							
No Records Found							
Rare Fish Imperiled Waters							
COMMON NAME		SCIENTIFIC NAME		Total Area (acres)		Percent of Area	
Gulf sturgeon		Acipenser oxyrhynchus desotoi		145.93		11.64 %	
Suwannee bass		Micropterus notius		145.93		11.64 %	
		TOTAL:		291.85		23.27 %	
Southern bald eagle nest							
No Records Found							
Imperiled Species Richness							
Number of Species		Total Area (acres)			Percent of Area		
0		279.82			22.31 %		
1		156.75			12.5 %		
2		15.32			1.22 %		
3		314.72			25.1 %		
4		235.29			18.76 %		
5		119.65			9.54 %		
6		132.17			10.54 %		
7		0.27			0.02 %		
TOTAL:		1,253.98			100 %		

Florida Natural Areas Inventory Data

Element Occurrences

COMMON NAME	SCIENTIFIC NAME	GLOBAL RANK	STATE RANK	FWC STATUS	FEDERAL STATUS	EO Rank	Last Observation	Total Area (acres)	Percent of Area
Florida Mapleleaf	Cyclonaias kleiniana	G2G3	S2	N	N	B	2014 pre	5.22	0.42 %
Gopher Tortoise	Gopherus polyphemus	G3	S3	ST	N	CD	2010-04-09	2.31	0.18 %
Gopher Tortoise	Gopherus polyphemus	G3	S3	ST	N	E	1992	11.28	0.9 %
Suwannee Alligator Snapping Turtle	Macrochelys suwanniensis	G2	S2	ST	PT	A	2020	5.22	0.42 %
Suwannee Moccasinshell	Medionidus walkeri	G1	S1	FT	T	CD	2017-11-07	5.22	0.42 %
TOTAL:								29.26	2.33 %

Suitable Habitat that Supports Species Known to Occur in the Vicinity

COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area
Florida Mapleleaf	Quadrula kleiniana	67.33	5.37 %
Florida Sandhill Crane	Antigone canadensis pratensis	19.49	1.55 %
Gulf Sturgeon	Acipenser oxyrinchus desotoi	68.44	5.46 %
Suwannee Alligator Snapping Turtle	Macrochelys suwanniensis	67.33	5.37 %
Suwannee Moccasinshell	Medionidus walkeri	67.33	5.37 %
Wood Stork	Mycteria americana	17.63	1.41 %
TOTAL:		307.54	24.52 %

USFWS

Critical Habitat

No Records Found

Area of Critical State Concern

Apalachicola

No Records Found		
Big Cypress		
No Records Found		
Green Swamp		
No Records Found		
Key West		
No Records Found		
Lower Keys		
No Records Found		
Upper Keys		
No Records Found		

Florida Ecological Greenways Network		
Wildlife Corridor Classification		
Priority Level	Total Area (acres)	Percent of Area
1	145.93	11.64 %
TOTAL:	145.93	11.64 %

Water Resources					
FDEP Surface Water Classification					
Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
ROCKY CREEK NEAR WELLBORN	STREAM	3449	3F	598.57	47.73 %
LAKE LOUISE OUTLET	STREAM	3459	3F	11.14	0.89 %
OLD BULB FARM DRAIN	STREAM	3466	3F	188.09	15 %
UNNAMED BRANCH	STREAM	3474	3F	310.26	24.74 %
SUWANNEE RIVER (LOWER SEGMENT)	STREAM	3422B	3F	145.93	11.64 %
			TOTAL:	1,253.98	100 %

Outstanding Florida Waters			
Name	OFW Type	Total Area (acres)	Percent of Area
Suwannee River	Special	127.98	10.21 %
TOTAL:		127.98	10.21 %

Florida Geological Survey Springs		
No Records Found		

National Wetlands Inventory			
Wetland Type	Wetland Code	Total Area (acres)	Percent of Area
FRESHWATER POND	PAB4H	1.37	0.11 %
FRESHWATER POND	PAB3Hx	1.98	0.16 %
FRESHWATER EMERGENT WETLAND	PEM1F	5.36	0.43 %
FRESHWATER EMERGENT WETLAND	PEM1C	1.64	0.13 %
FRESHWATER EMERGENT WETLAND	PEM1A	16.43	1.31 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO3/4B	25.00	1.99 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1Cx	8.29	0.66 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO3/6C	3.62	0.29 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1C	2.42	0.19 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1A	25.95	2.07 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6C	66.50	5.3 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6F	1.20	0.1 %
FRESHWATER POND	PUBH	1.56	0.12 %
FRESHWATER POND	PUB/AB4H	2.83	0.23 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3C	0.41	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PSSF	0.92	0.07 %
RIVERINE	R5UBH	2.00	0.16 %
RIVERINE	R4SBC	0.51	0.04 %
RIVERINE	R2UBHx	0.02	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/3C	38.60	3.08 %
RIVERINE	R2UBH	0.84	0.07 %
TOTAL:		207.45	16.54 %

Priority Floodplain Resources		
Priority	Total Area (acres)	Percent of Area
4	255.42	20.37 %
5	6.57	0.52 %
2	10.17	0.81 %
3	176.42	14.07 %
0	805.40	64.23 %
TOTAL:	1,253.98	100 %