

Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Save Our Everglades 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 **Save Our Everglades** 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

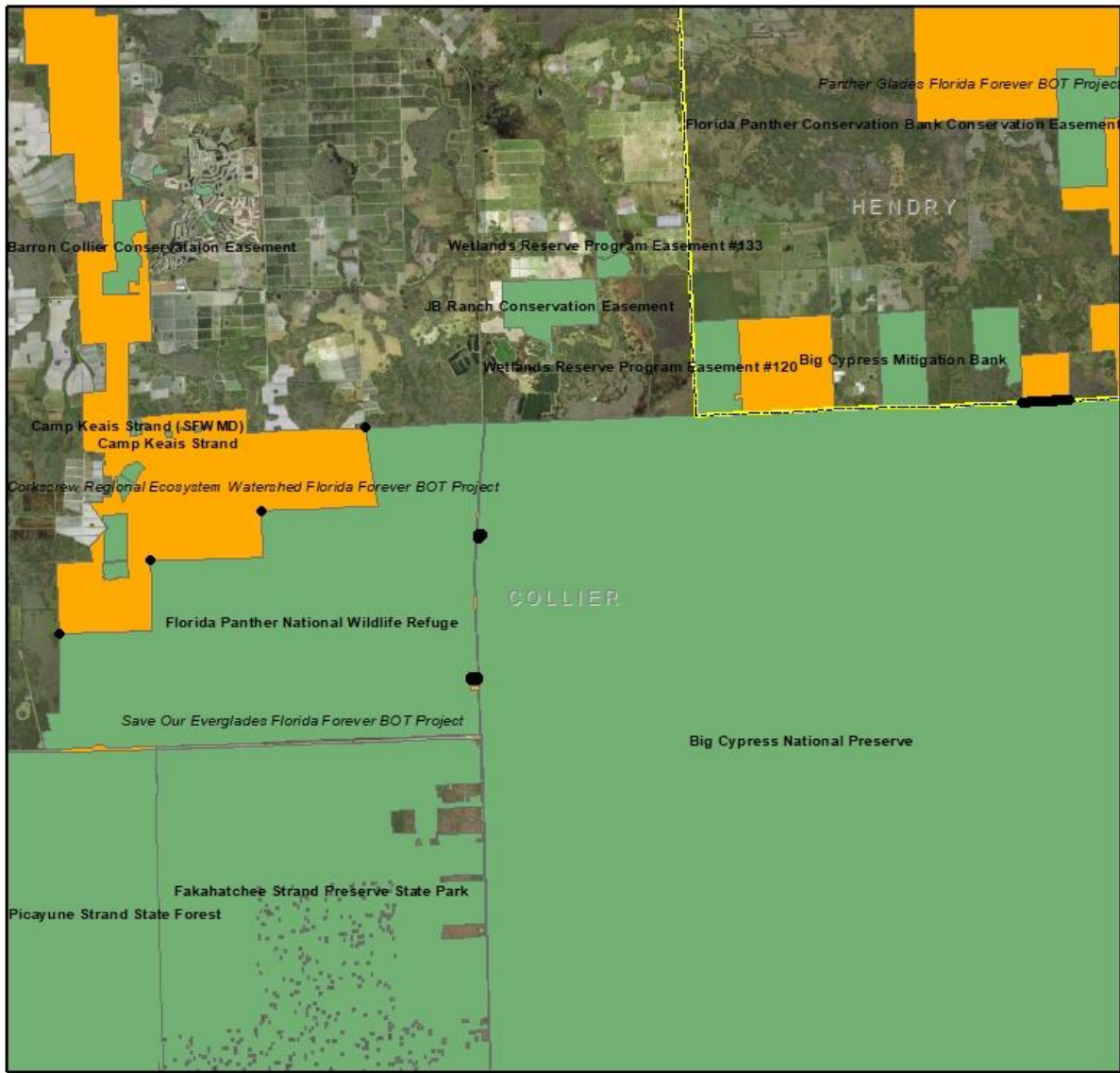
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review 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



**Save Our Everglades
Florida Forever Project**
Collier County
11 Remaining Acres

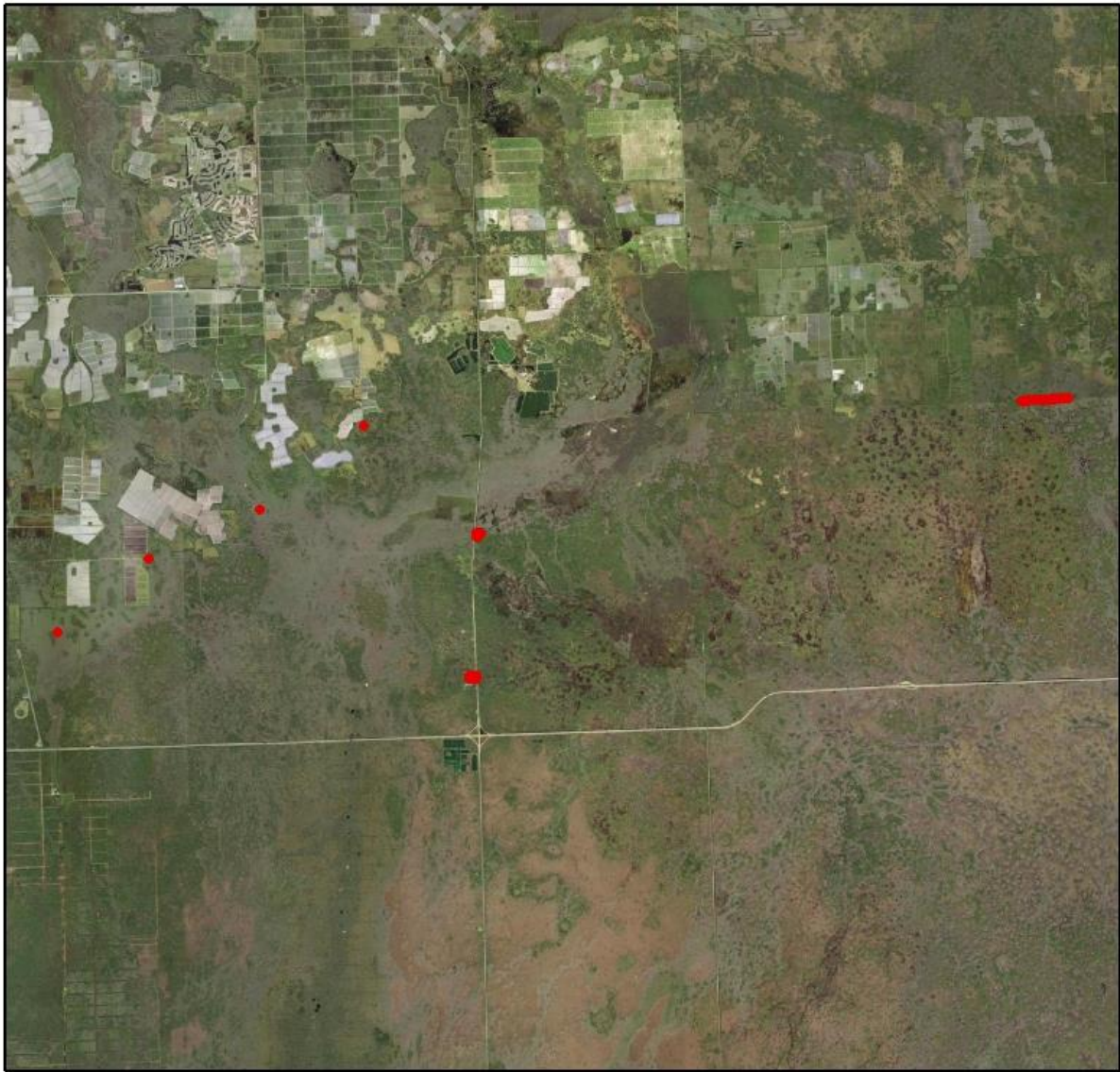


0 3 6 9 12 Miles

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

Vicinity Map

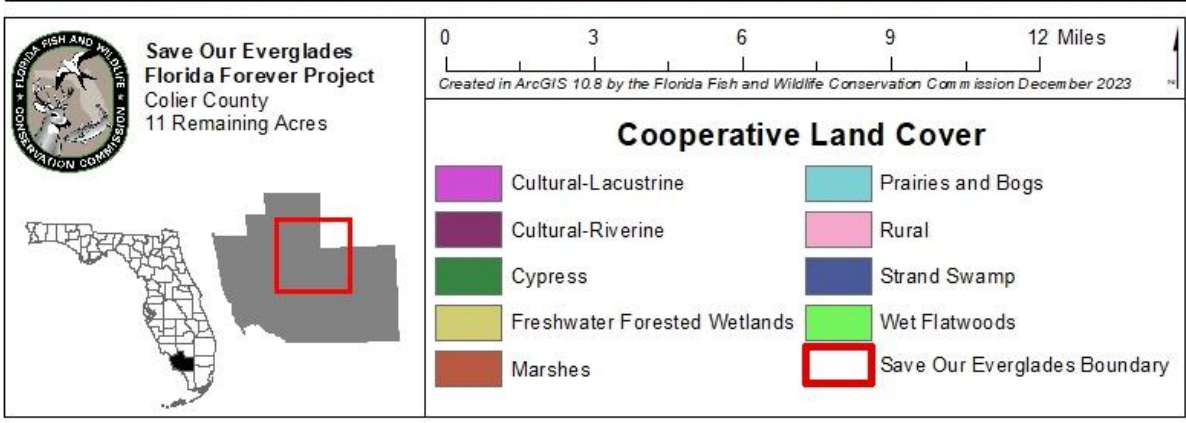
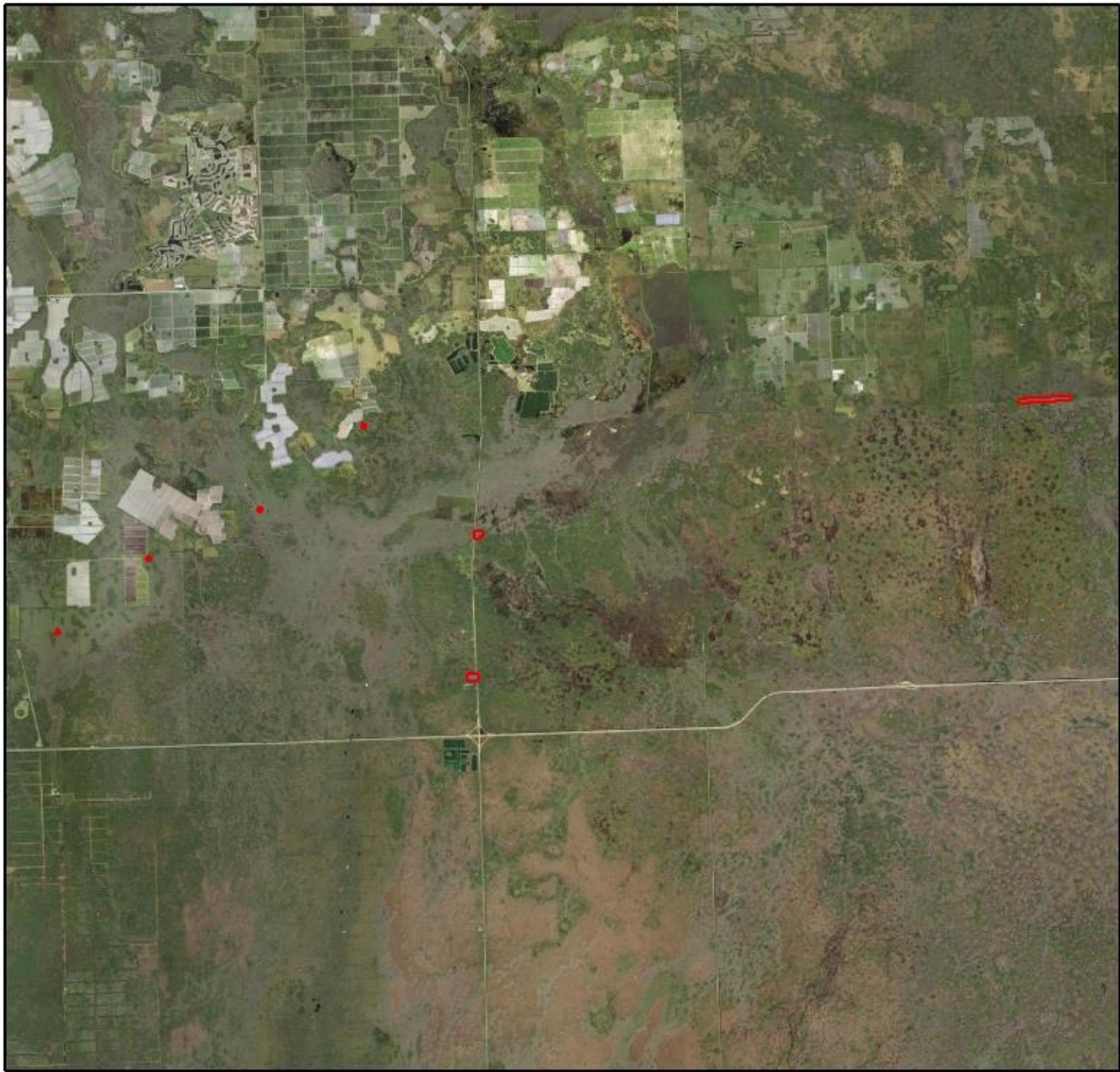
-  Save Our Everglades Boundary
-  County Boundaries
-  Conservation Lands
-  Florida Forever Projects

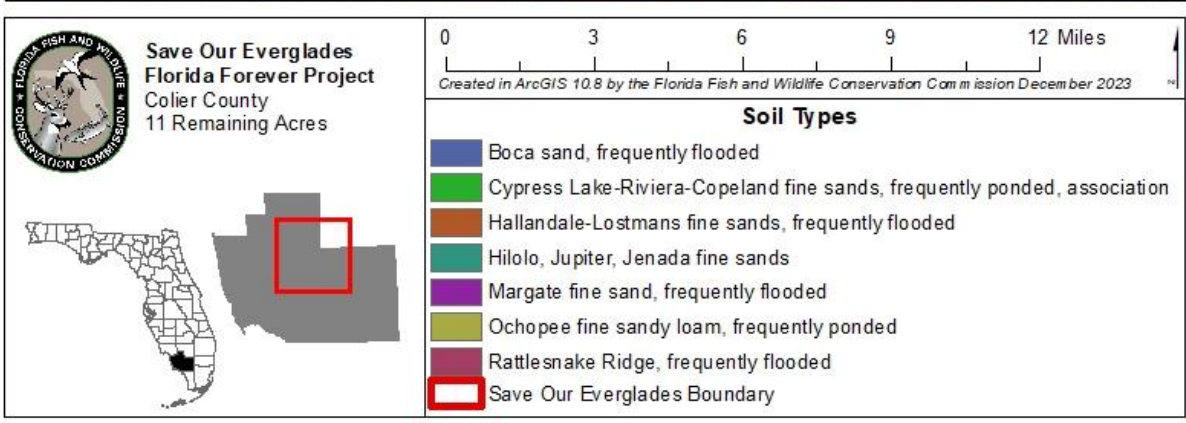
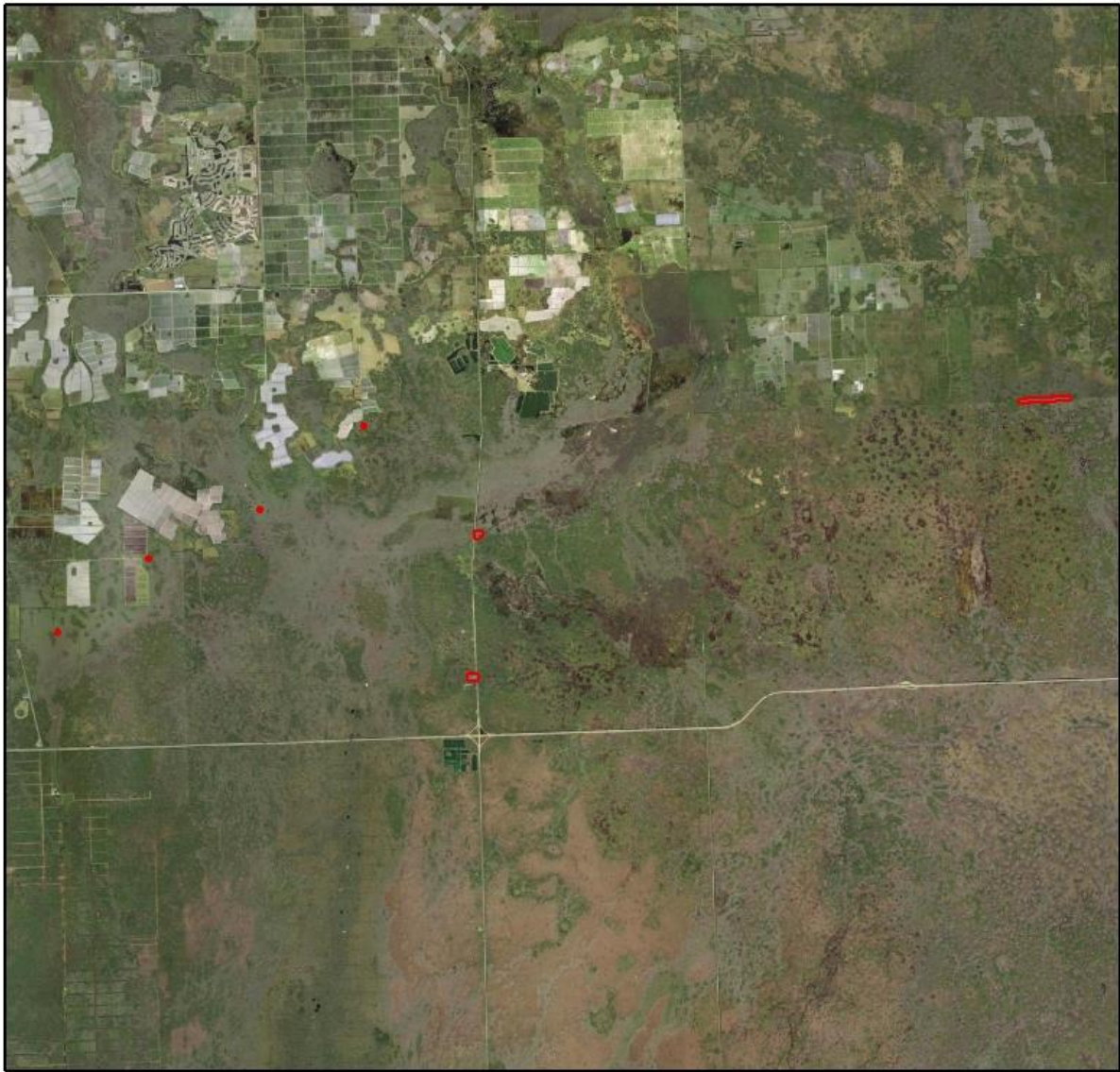


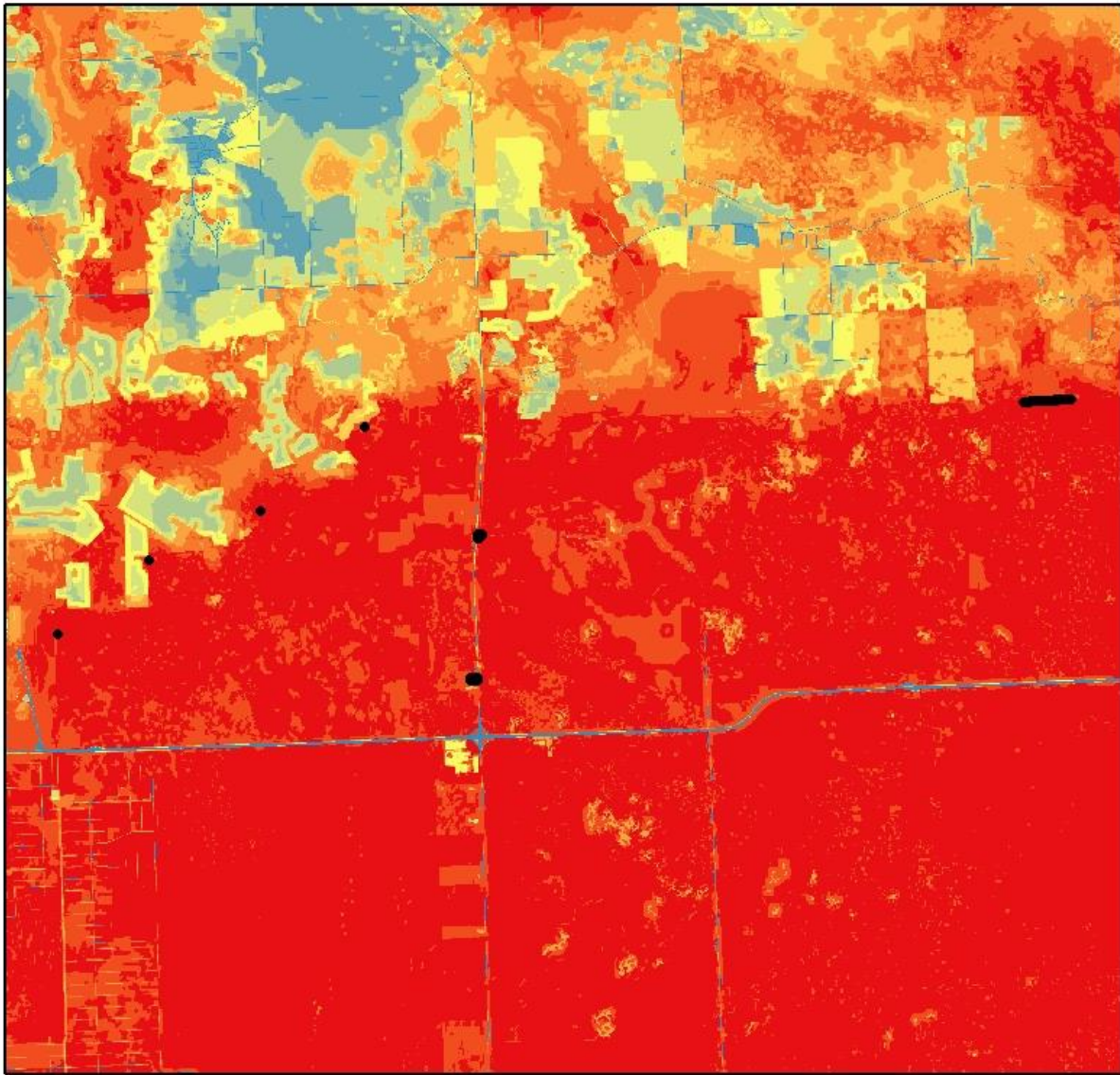
**Save Our Everglades
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Collier County
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Aerial Imagery
 Save Our Everglades Boundary







**Save Our Everglades
Florida Forever Project**
Collier County
11 Remaining Acres



0 3 6 9 12 Miles

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Florida Landscape Assessment Model



FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	0.0
	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	0.2
	6	0.3
	7	1.2
	8	1.4
	9	7.5
	10	0.0
Mean FLAM value =	8.5	

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: 11032023 11:26:47

Shape Name: Unnamed polygon centered at -81.314824 °, 26.215325 °

Boundary Area: 11.07 acres

Buffer Area: 0 acres

Total Area: 11.07 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
Freshwater Forested Wetlands	2200	Mixed Wetland Hardwoods	2233	1.60	14.47 %
Wet Flatwoods	2221	Wet Flatwoods	2221	0.00	0 %
Freshwater Forested Wetlands	2200	Cypress/Pine/Cabbage Palm	2242	0.89	8.08 %
Cultural - Riverine	4200	Canal	4210	0.57	5.13 %
Cultural - Lacustrine	3200	Artificial Impoundment/Reservoir	3220	0.15	1.37 %
Strand Swamp	2214	Strand Swamp	2214	0.00	0.02 %
Rural	1830	Rural Structures	1832	1.39	12.52 %
Rural	1830	Rural Open	1831	3.49	31.52 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	2.79	25.19 %
Cypress	2211	Cypress	2211	0.00	0.01 %
Marshes	2120	Glades Marsh	2125	0.19	1.71 %
TOTAL:				11.07	100 %

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

CLIP Priority	Total Area (acres)	Percent of Area
CLIP P1 in submerged lands/state waters	0.00	0 %
CLIP P1 in terrestrial	10.92	98.67 %
CLIP P2 in terrestrial	0.15	1.33 %
TOTAL:	11.07	100 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
3	6.96	62.85 %
5	4.11	37.15 %
TOTAL:	11.07	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	0.09	0.79 %
4	0.20	1.8 %
5	10.79	97.42 %
TOTAL:	11.07	100 %

Priority FWC Strategic Habitat Conservation Areas 2021

Priority	Total Area (acres)	Percent of Area
0	4.89	44.15 %
1	5.73	51.72 %
2	0.46	4.13 %
TOTAL:	11.07	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
Florida black bear	Florida panther	American swallow-tailed kite				0.00	0 %
Florida black bear	Florida panther	Florida snail kite	Short-tailed hawk			0.00	0 %
Florida black bear	Florida panther	Florida snail kite	Short-tailed hawk	American swallow-tailed kite		0.00	0 %
Florida black bear	Florida panther	Short-tailed hawk				0.00	0 %
Florida black bear	Florida panther	Short-tailed hawk	American swallow-tailed kite			0.00	0 %

Florida black bear	Florida snail kite	Short-tailed hawk	0.00	0 %
Florida panther	Short-tailed hawk		0.00	0 %
TOTAL:			0.00	0.01 %
Panther location				
DATE		# Features		
3/3/1995 12:00:00 AM		1		
8/11/1995 12:00:00 AM		1		
9/9/2009 12:00:00 AM		1		
TOTAL:		3		
Panther mortality				
No Records Found				
Panther Priority Habitat				
ZONE	Total Area (acres)		Percent of Area	
Primary	11.07		100 %	
TOTAL:	11.07		100 %	
Bear Range				
Bear Range	Total Area (acres)		Percent of Area	
Common	0.00		0.03 %	
Frequent	11.07		99.97 %	
TOTAL:	11.07		100 %	
Rare Fish				
No Records Found				
Rare Fish Imperiled Waters				
No Records Found				
Southern bald eagle nest				
No Records Found				
Imperiled Species Richness				
Number of Species	Total Area (acres)		Percent of Area	
0	2.12		19.14 %	
5	0.00		0.01 %	
7	0.33		3.01 %	
8	4.44		40.13 %	
9	2.68		24.22 %	
10	1.49		13.48 %	
TOTAL:	11.07		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
Eastern Indigo Snake	Drymarchon couperi	G3	S2?	FT	T	BD	1980 pre	2.25	20.31 %
Florida Panther	Puma concolor coryi	G5T1	S1	FE	E	C	2018-02-27	11.07	100 %
TOTAL:								13.32	120.31 %

Suitable Habitat that Supports Species Known to Occur in the Vicinity

COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area
Big Cypress Fox Squirrel	Sciurus niger avicennia	4.47	40.37 %
Florida Long-tailed Weasel	Mustela frenata peninsulae	4.47	40.4 %
Florida Panther	Puma concolor coryi	10.38	93.79 %
Rafinesque's Big-eared Bat	Corynorhinus rafinesquii	0.00	0 %
Snail Kite	Rostrhamus sociabilis	0.89	8.07 %
Wood Stork	Mycteria americana	4.66	42.13 %
TOTAL:		24.89	224.76 %

USFWS

Critical Habitat

No Records Found

Area of Critical State Concern

Apalachicola

No Records Found

Big Cypress

NAME	Total Area (acres)	Percent of Area
1	11.07	99.98 %

TOTAL:		11.07	99.98 %
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	4.11	37.09 %	
5	6.97	62.91 %	
TOTAL:	11.07	100 %	

Water Resources					
FDEP Surface Water Classification					
Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
CAMP KEAIS	STREAM	3259I	3F	0.00	0 %
TAMIAMI CANAL	STREAM	3261B	3F	0.00	0.03 %
BARRON RIVER CANAL	STREAM	3261C	3F	5.80	52.37 %
FAKAHATCHEE STRAND	STREAM	3278G	3F	0.00	0 %
OKALOACOOCHEE SLOUGH	STREAM	3278T	3F	5.27	47.6 %
SILVER STRAND	STREAM	3278W	3F	0.00	0 %
TOTAL:				11.07	100 %
Outstanding Florida Waters					
Name		OFW Type	Total Area (acres)	Percent of Area	
SAVE OUR EVERGLADES		Other	0.00	0.02 %	
BIG CYPRESS NATIONAL PRESERVE		Other	4.44	40.07 %	
FLORIDA PANTHER NATIONAL WILDLIFE REFUGE		Other	6.63	59.91 %	
TOTAL:			11.07	100 %	
Florida Geological Survey Springs					
No Records Found					
National Wetlands Inventory					
Wetland Type		Wetland Code	Total Area (acres)	Percent of Area	
FRESHWATER EMERGENT WETLAND		PEM1A	0.19	1.71 %	
FRESHWATER FORESTED/SHRUB WETLAND		PFO1F	0.73	6.63 %	
FRESHWATER FORESTED/SHRUB WETLAND		PFO1/3A	1.22	11.01 %	
FRESHWATER EMERGENT WETLAND		PEM1F	0.00	0 %	
FRESHWATER FORESTED/SHRUB WETLAND		PSS1/3C	0.00	0 %	
FRESHWATER FORESTED/SHRUB WETLAND		PSS1/3A	2.79	25.19 %	
FRESHWATER FORESTED/SHRUB WETLAND		PFO4C	0.00	0.01 %	
FRESHWATER FORESTED/SHRUB WETLAND		PFO2C	0.00	0 %	
FRESHWATER FORESTED/SHRUB WETLAND		PFO2F	0.00	0.02 %	
FRESHWATER FORESTED/SHRUB WETLAND		PFO1A	1.60	14.47 %	
RIVERINE		R2UBHx	0.77	6.93 %	
TOTAL:			7.30	65.96 %	
Priority Floodplain Resources					
Priority	Total Area (acres)	Percent of Area			
3	6.44	58.16 %			
2	4.42	39.88 %			
0	0.21	1.93 %			
1	0.00	0.03 %			
TOTAL:	11.07	100 %			