

Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Perdido Pitcher Plant Prairie 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 **Perdido Pitcher Plant Prairie** 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

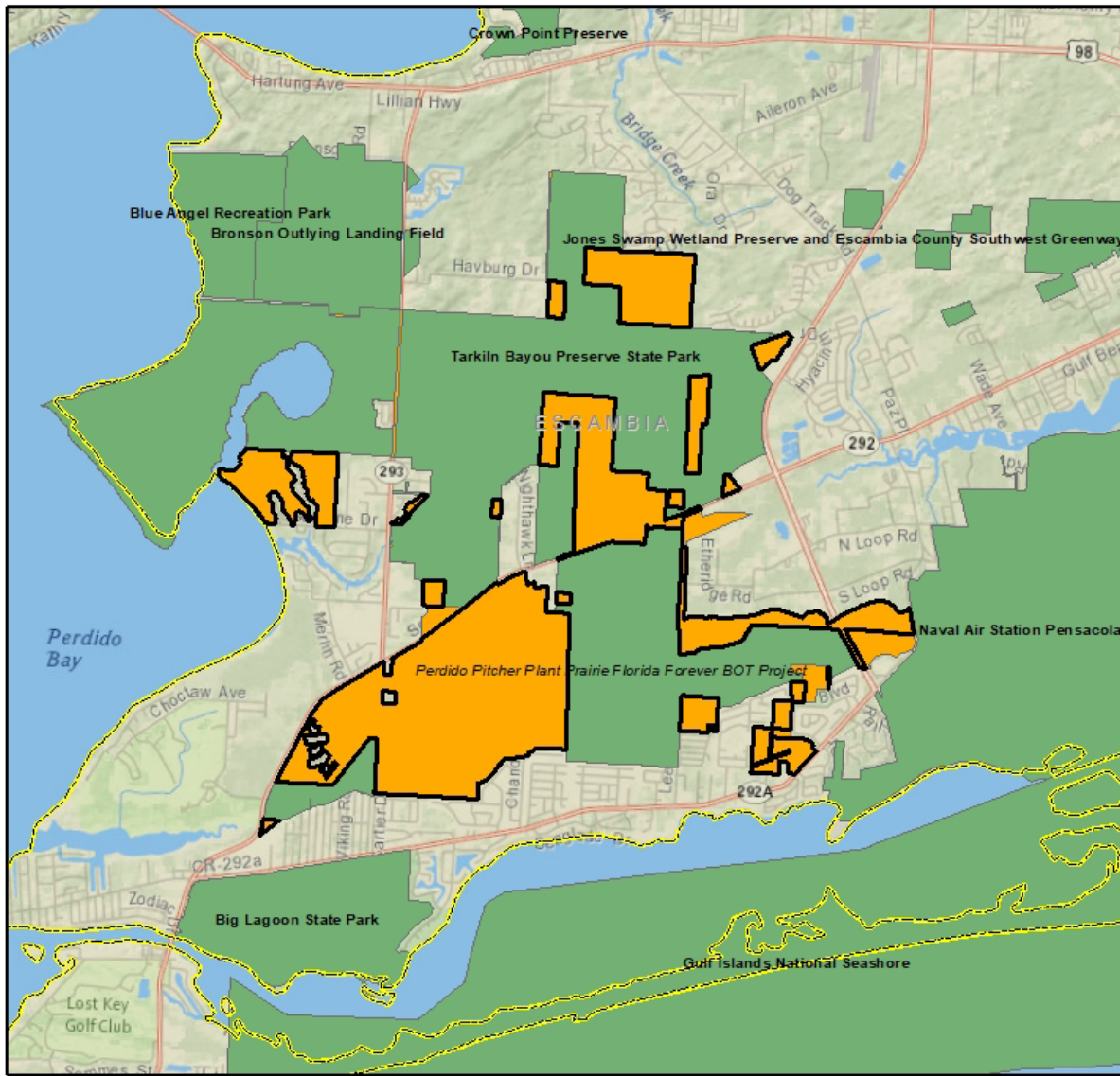
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review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

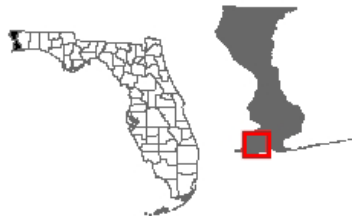
Important fish and wildlife resource GIS data were queried using Environmental Resource Analysis GIS computer software. These data include the following GIS layers:

- 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



**Perdido Pitcher Plant Prairie
Florida Forever Project**
Escambia County
2,227 Remaining Acres

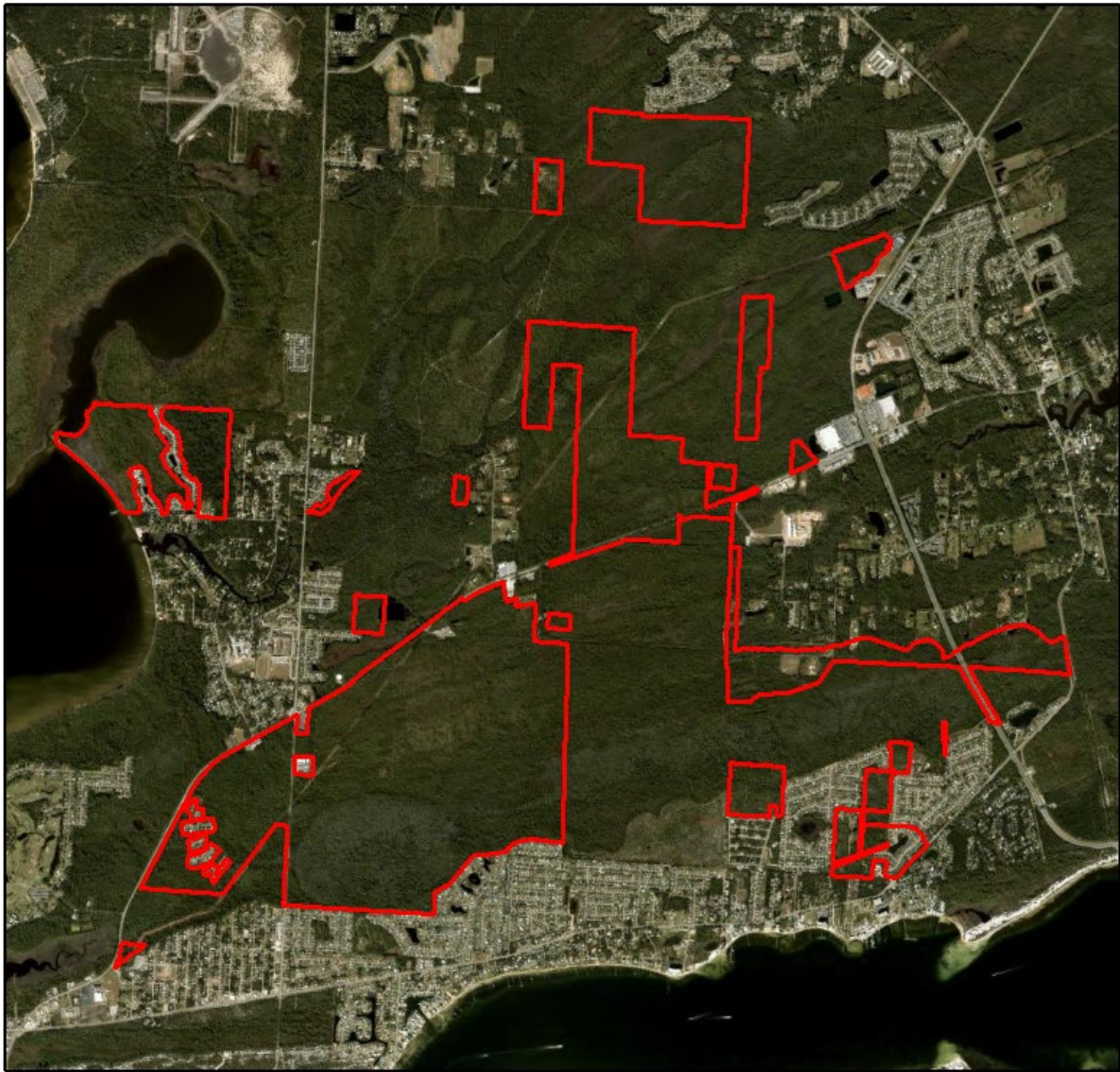


0 1 2 3 4 Miles

Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2024

Vicinity Map

-  Perdido Pitcher Plant Prairie Boundary
-  County Boundaries
-  Conservation Lands
-  Florida Forever Projects



Perdido Pitcher Plant Prairie
Florida Forever Project
 Escambia County
 2,227 Remaining Acres

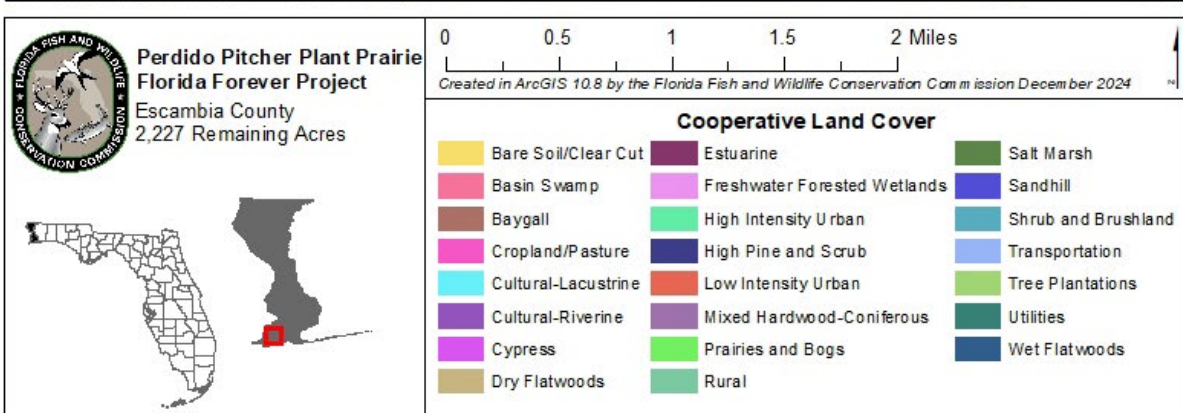
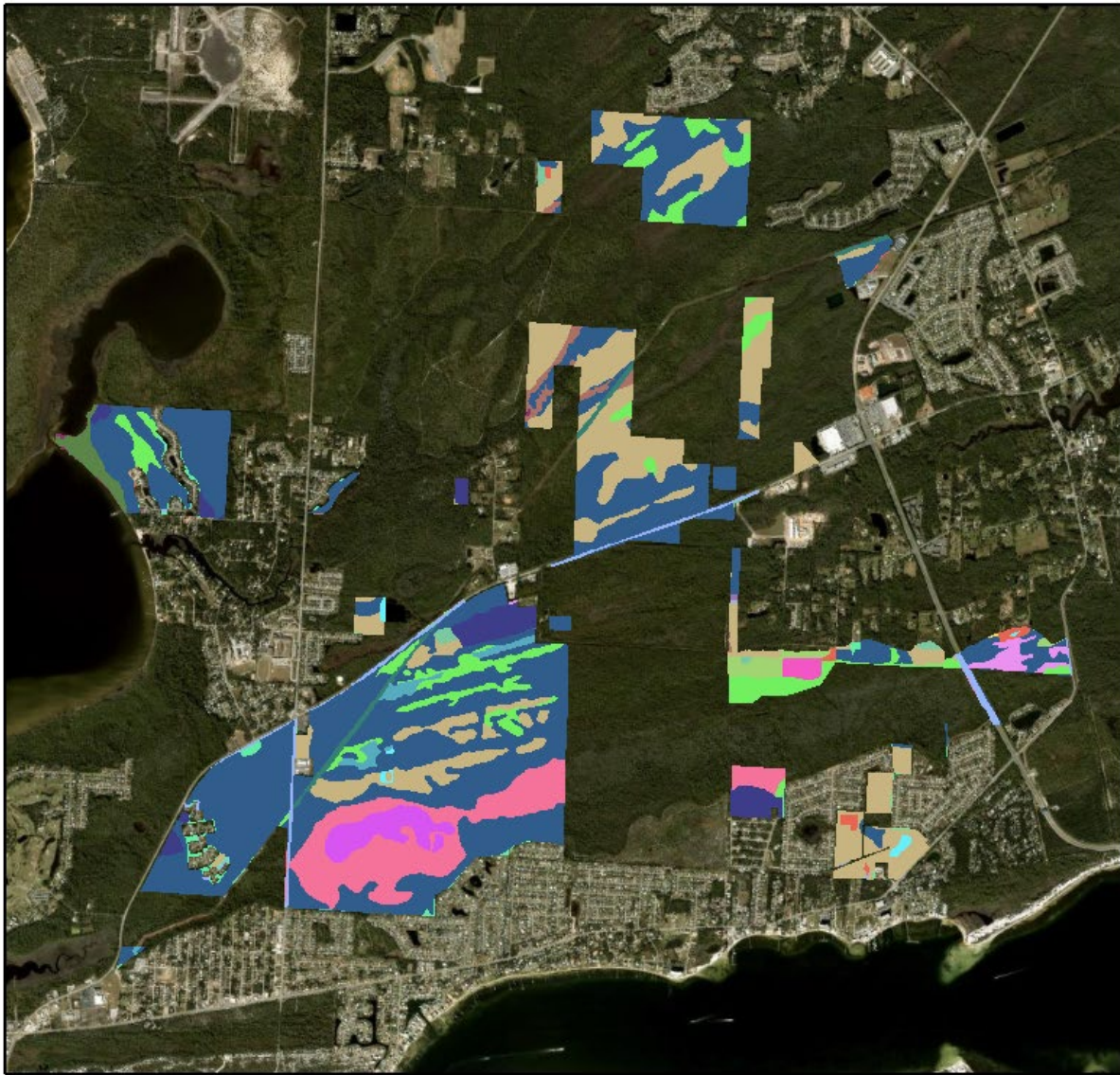


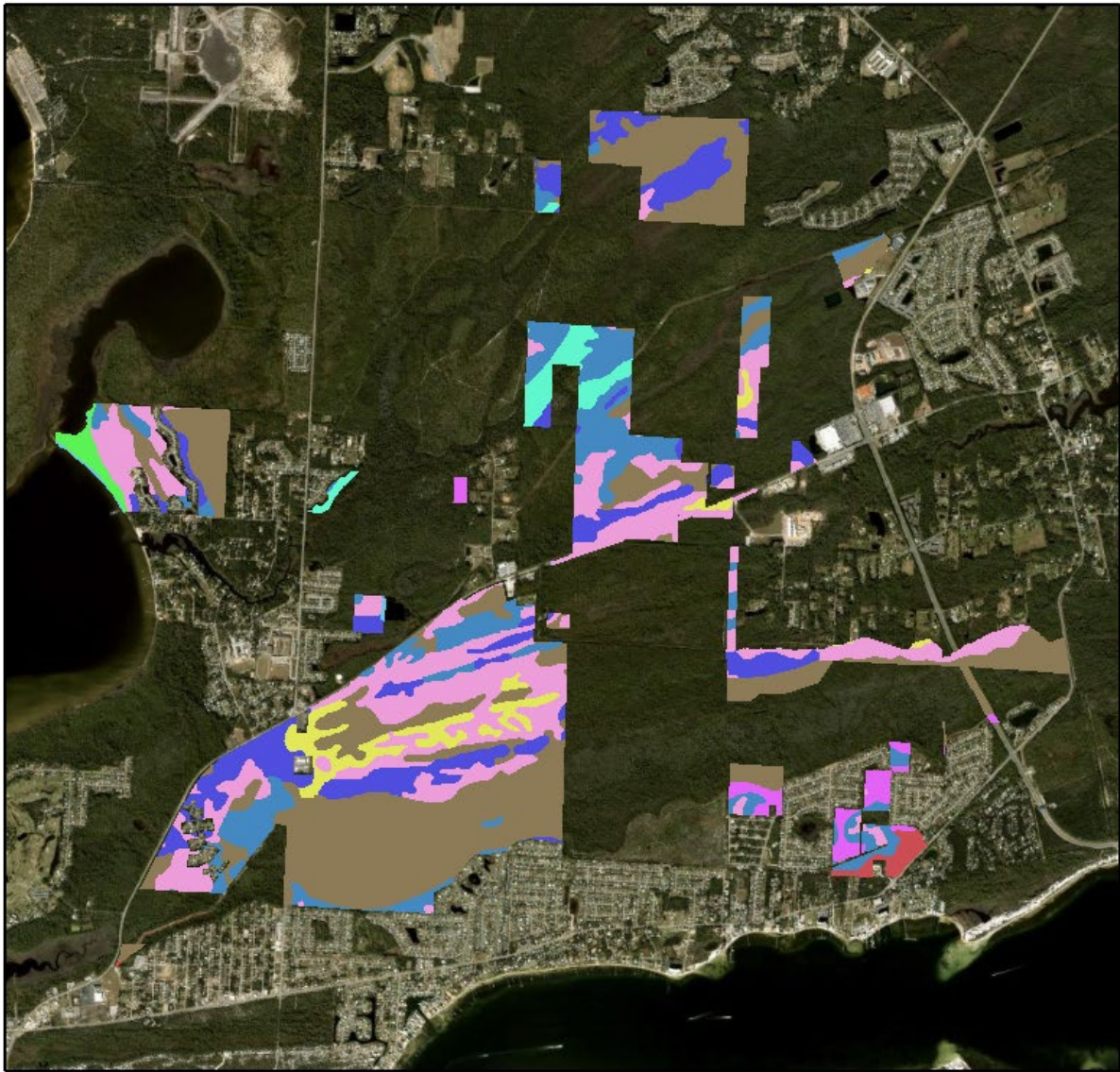
0 0.5 1 1.5 2 Miles

Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2024

Aerial Imagery

 Perdido Pitcher Plant Prairie Boundary





Perdido Pitcher Plant Prairie
Florida Forever Project
 Escambia County
 2,227 Remaining Acres

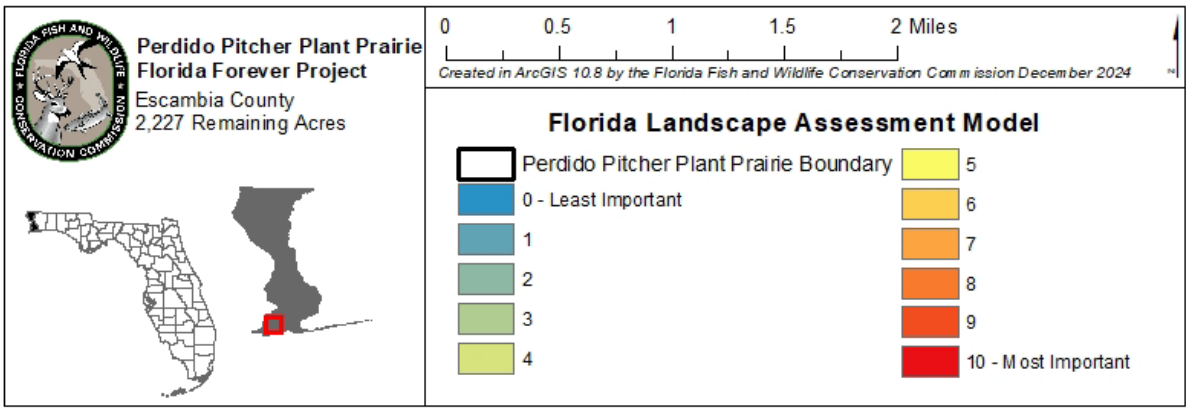
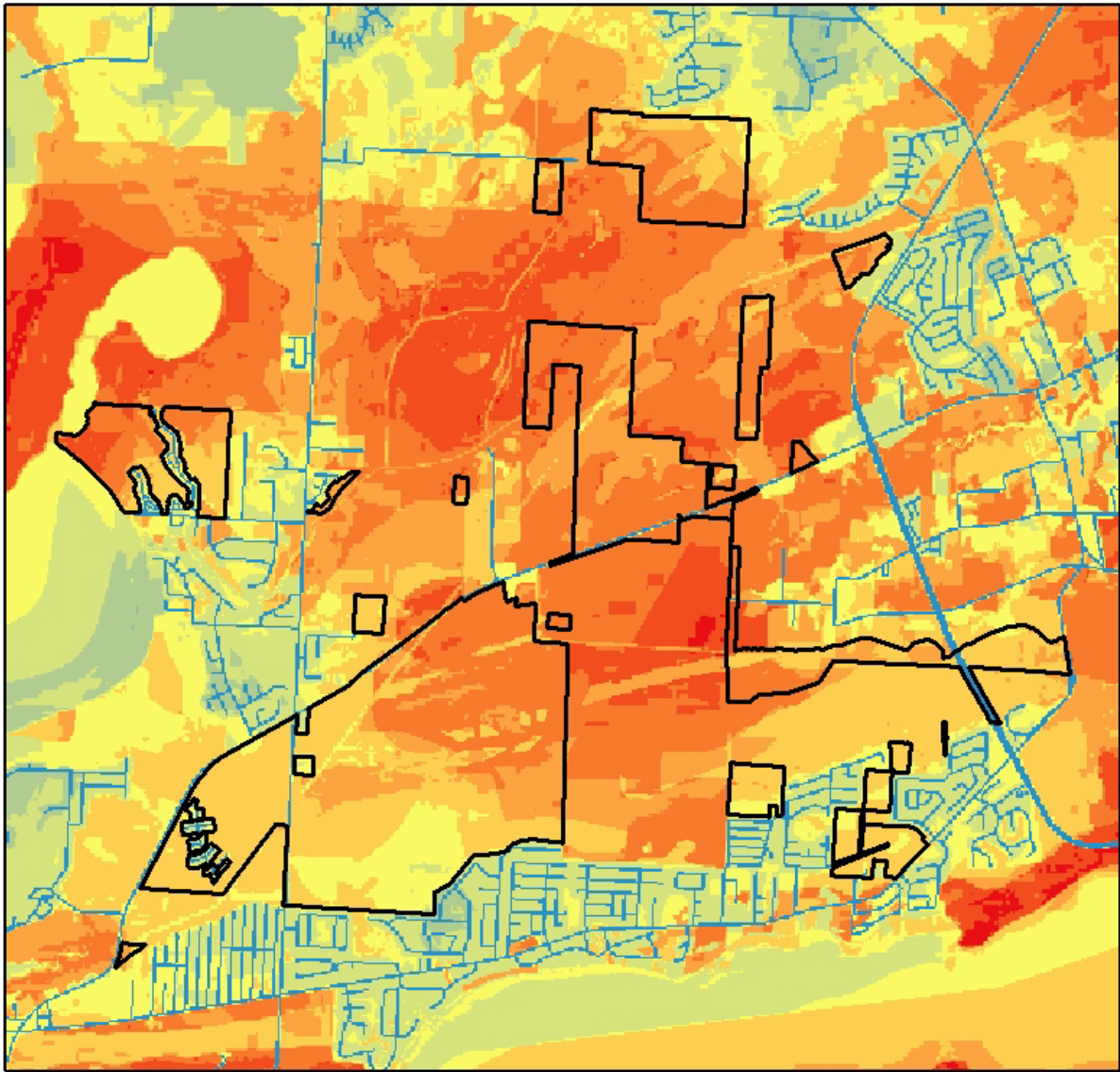


0 0.5 1 1.5 2 Miles

Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2024

Soil Types

Allanton-Pottsborg complex	Hurricane sand
Croatan and Pickney soils, depressional	Leon sand
Dirego muck, tidal	Pickney sand
Dorovan muck and Fluvaquents, frequently flooded	Resota sand
Foxworth sand	Water



FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	242.6
	1	1945.7
	2	1560.8
	3	0.0
	4	0.0
	5	4304.2
	6	0.0
	7	0.0
	8	0.0
	9	0.0
	10	0.0
Mean FLAM value =	6.7	

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: 11/14/2024 02:28:26

Shape Name: Unnamed polygon centered at -87.382585 °, 30.353375 °

Boundary Area: 2226.72 acres

Buffer Area: 0 acres

Total Area: 2226.72 acres

FWC Wildlife Data and Models

Cooperative Land Cover v3.7

Name - State	Code - State	Name - Site	Code - Site	Total Area (acres)	Percent of Area
Low Intensity Urban	1821	Residential, Low Density	18212	9.87	0.44 %
Low Intensity Urban	1821	Urban Open Land	18211	0.53	0.02 %
High Intensity Urban	1822	Residential, High Density > 5 Dwelling Units/AC	18222	1.50	0.07 %
High Intensity Urban	1822	Residential, Med. Density - 2-5 Dwelling Units/AC	18221	11.23	0.5 %
Cultural-Riverine	4200	Canal	4210	0.13	0.01 %
Cultural-Lacustrine	3200	Sewage Treatment Pond	3240	3.24	0.15 %
Salt Marsh	5240	Salt Marsh	5240	21.60	0.97 %
Estuarine	5000	Estuarine	5000	1.76	0.08 %
High Intensity Urban	1822	Commercial and Services	18223	0.70	0.03 %
Tree Plantations	18333	Coniferous Plantations	183332	20.71	0.93 %
Wet Flatwoods	2221	Hydric Pine Flatwoods	22211	698.19	31.35 %
Transportation	1840	Transportation	1840	34.19	1.54 %
Cropland/Pasture	18331	Fallow Cropland	1833151	10.81	0.49 %
Rural	1830	Rural Open Forested	18311	0.83	0.04 %
High Intensity Urban	1822	Institutional	18225	2.92	0.13 %
Basin Swamp	22132	Basin Swamp	22132	197.40	8.87 %
Prairies and Bogs	2110	Wiregrass Savanna	21111	50.49	2.27 %
Cultural-Lacustrine	3200	Artificial Impoundment/Reservoir	3220	2.50	0.11 %
Rural	1830	Rural Open	1831	8.02	0.36 %
Shrub and Brushland	1500	Shrub and Brushland	1500	21.97	0.99 %
Utilities	1860	Utilities	1860	23.40	1.05 %
Rural	1830	Rural Structures	1832	1.01	0.05 %
Sandhill	1240	Sandhill	1240	0.11	0 %
High Pine and Scrub	1200	Upland Coniferous	1230	69.57	3.12 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	0.60	0.03 %
Dry Flatwoods	1310	Mesic Flatwoods	1311	432.36	19.42 %
Bare Soil/Clear Cut	1880	Bare Soil/Clear Cut	1880	0.43	0.02 %
Freshwater Forested Wetlands	2200	Mixed Wetland Hardwoods	2233	8.05	0.36 %
Baygall	2231	Baygall	2231	18.52	0.83 %
Cultural-Lacustrine	3200	Cultural - Lacustrine	3200	1.42	0.06 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	10.87	0.49 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	70.72	3.18 %
Prairies and Bogs	2110	Wet Prairie	2111	32.28	1.45 %
Wet Flatwoods	2221	Wet Flatwoods	2221	409.01	18.37 %
Cypress	2211	Cypress	2211	49.78	2.24 %
TOTAL:				2,226.72	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	187.28	8.41 %
CLIP P1 in submerged lands/state waters	6.68	0.3 %
CLIP P1 in terrestrial	1,663.72	74.72 %
CLIP P2 in submerged lands/state waters	2.63	0.12 %
CLIP P2 in terrestrial	343.14	15.41 %
TOTAL:	2,203.45	98.96 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	117.33	5.27 %
1	4.84	0.22 %
2	2,104.55	94.51 %
TOTAL:	2,226.72	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	92.35	4.15 %

1	12.56	0.56 %					
2	285.92	12.84 %					
3	293.98	13.2 %					
4	1,541.83	69.24 %					
5	0.08	0 %					
TOTAL:	2,226.72	100 %					
Priority FWC Strategic Habitat Conservation Areas 2024							
Priority	Total Area (acres)	Percent of Area					
5	1,121.56	50.37 %					
TOTAL:	1,121.56	50.37 %					
FWC Strategic Habitat Conservation Areas 2024							
Species 1	Species 2	Species 3	Species 4	Species 5	Species 6	Total Area (acres)	Percent of Area
Cooper's hawk						1,121.56	50.37 %
					TOTAL:	1,121.56	50.37 %
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				
Common	94.08		4.23 %				
Occasional	2,105.48		94.56 %				
Rare	26.42		1.19 %				
TOTAL:	2,225.98		99.97 %				
Rare Fish							
No Records Found							
Rare Fish Imperiled Waters							
COMMON NAME	SCIENTIFIC NAME		Total Area (acres)		Percent of Area		
Saltmarsh topminnow	Fundulus jenkinsi		1,848.67		83.02 %		
	TOTAL:		1,848.67		83.02 %		
Southern bald eagle nest							
No Records Found							
Imperiled Species Richness							
Number of Species	Total Area (acres)		Percent of Area				
0	112.70		5.06 %				
1	9.66		0.43 %				
2	3.26		0.15 %				
3	527.83		23.7 %				
4	758.25		34.05 %				
5	698.40		31.36 %				
6	74.67		3.35 %				
7	41.96		1.88 %				
TOTAL:	2,226.72		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
American Alligator	Alligator mississippiensis	G5	S4	FT(S/A)	SAT	E	1984 circa	3.67	0.16 %
Eastern Diamondback Rattlesnake	Crotalus adamanteus	G3	S3	N	UR	E	1997	45.86	2.06 %
Gulf Salt Marsh Snake	Nerodia clarkii clarkii	G4T3	S2	N	N	AC	1979-09-14	179.31	8.05 %
large-leaved jointweed	Polygonella macrophylla	G3	S3	T	N	A	2007-10-15	0.34	0.02 %
Lobed Spiny Burrowing Beetle	Gronocarus autumnalis	G2G3	S2	N	N	B?	1994-12-17	4.52	0.2 %
ZZ	Basin swamp	G4	S3	N	N	AC	2004	2.81	0.13 %
ZZ	Shrub bog	G4	S3	N	N	B?	2004	39.58	1.78 %
ZZ	Wet prairie	G2	S2	N	N	A	2004	223.43	10.03 %
ZZ	Wet prairie	G2	S2	N	N	E	2004	42.92	1.93 %
							TOTAL:	542.44	24.36 %
Suitable Habitat that Supports Species Known to Occur in the Vicinity									
COMMON NAME	SCIENTIFIC NAME		Total Area (acres)		Percent of Area				
Escambia Crayfish	Procambarus escambiensis		21.96		0.99 %				
Lobed Spiny Burrowing Beetle	Gronocarus autumnalis		225.20		10.11 %				
Saltmarsh Topminnow	Fundulus jenkinsi		1,016.96		45.67 %				

TOTAL:		1,264.13	56.77 %		
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			
5	2,203.26	98.95 %			
TOTAL:	2,203.26	98.95 %			
Water Resources					
FDEP Surface Water Classification					
Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
DRAIN TO BAYOU GRANDE	ESTUARY	740	3M	695.19	31.22 %
BAYOU GARCON	ESTUARY	987	3M	944.58	42.42 %
PERDIDO BAY (LOWER SEGMENT)	ESTUARY	797A	3M	0.11	0 %
BRIDGE CREEK	STREAM	872A	3F	42.51	1.91 %
WEEKLY BAYOU	ESTUARY	935	3M	311.14	13.97 %
TARKILN BAYOU	ESTUARY	945	3M	170.84	7.67 %
DIRECT RUNOFF TO BAY	ESTUARY	974	3M	0.01	0 %
DIRECT RUNOFF TO BAY	ESTUARY	991	3M	62.35	2.8 %
TOTAL:				2,226.72	100 %
Outstanding Florida Waters					
No Records Found					
Florida Geological Survey Springs					
No Records Found					
National Wetlands Inventory					
Wetland Type	Wetland Code	Total Area (acres)		Percent of Area	
FRESHWATER EMERGENT WETLAND	PEM1/FO4A	3.42		0.15 %	
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/EM1A	11.47		0.52 %	
FRESHWATER FORESTED/SHRUB WETLAND	PFO4B	90.63		4.07 %	
FRESHWATER FORESTED/SHRUB WETLAND	PFO4A	110.46		4.96 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/FO4C	9.95		0.45 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS4/EM1B	9.83		0.44 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS4/EM1C	0.21		0.01 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS3B	69.58		3.12 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS3C	3.30		0.15 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS1F	27.58		1.24 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS2/3C	2.34		0.1 %	
FRESHWATER POND	PUBHx	5.60		0.25 %	
FRESHWATER FORESTED/SHRUB WETLAND	PFO4C	580.10		26.05 %	
FRESHWATER EMERGENT WETLAND	PEM1/FO4B	29.11		1.31 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/2C	14.10		0.63 %	
FRESHWATER EMERGENT WETLAND	PEM1/SS1C	7.66		0.34 %	
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/SS3B	11.37		0.51 %	
FRESHWATER FORESTED/SHRUB WETLAND	PFO4Ad	2.00		0.09 %	
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/3C	8.74		0.39 %	
ESTUARINE AND MARINE WETLAND	E2FO4P	0.47		0.02 %	
ESTUARINE AND MARINE WETLAND	E2USP	0.89		0.04 %	
FRESHWATER FORESTED/SHRUB WETLAND	PSS2/1C	2.86		0.13 %	

FRESHWATER EMERGENT WETLAND	PEM1C	10.36	0.47 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4Bd	7.56	0.34 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/3C	12.00	0.54 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS2/EM5B	1.57	0.07 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS2C	11.74	0.53 %
FRESHWATER EMERGENT WETLAND	PEM1B	11.78	0.53 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2Fh	1.90	0.09 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/4B	0.06	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1C	1.50	0.07 %
FRESHWATER POND	PUBG	0.12	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/1B	0.59	0.03 %
ESTUARINE AND MARINE DEEPWATER	E1UBL	2.38	0.11 %
FRESHWATER EMERGENT WETLAND	PEM1A	40.12	1.8 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/2F	70.79	3.18 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3A	0.40	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/SS3C	12.71	0.57 %
FRESHWATER EMERGENT WETLAND	PEM1Fx	0.05	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/SS1C	5.43	0.24 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO3/4C	2.38	0.11 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS2F	1.42	0.06 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1F	17.49	0.79 %
ESTUARINE AND MARINE WETLAND	E2EM1P	18.63	0.84 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/1C	38.45	1.73 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS4C	170.89	7.67 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/EM1C	3.54	0.16 %
	TOTAL:	1,445.55	64.92 %
Priority Floodplain Resources			
Priority	Total Area (acres)	Percent of Area	
3	509.18	22.87 %	
2	348.48	15.65 %	
4	37.94	1.7 %	
1	130.48	5.86 %	
5	1.45	0.06 %	
0	1,199.20	53.85 %	
TOTAL:	2,226.72	100 %	