

Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Gilchrist Club 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 **Gilchrist Club** 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

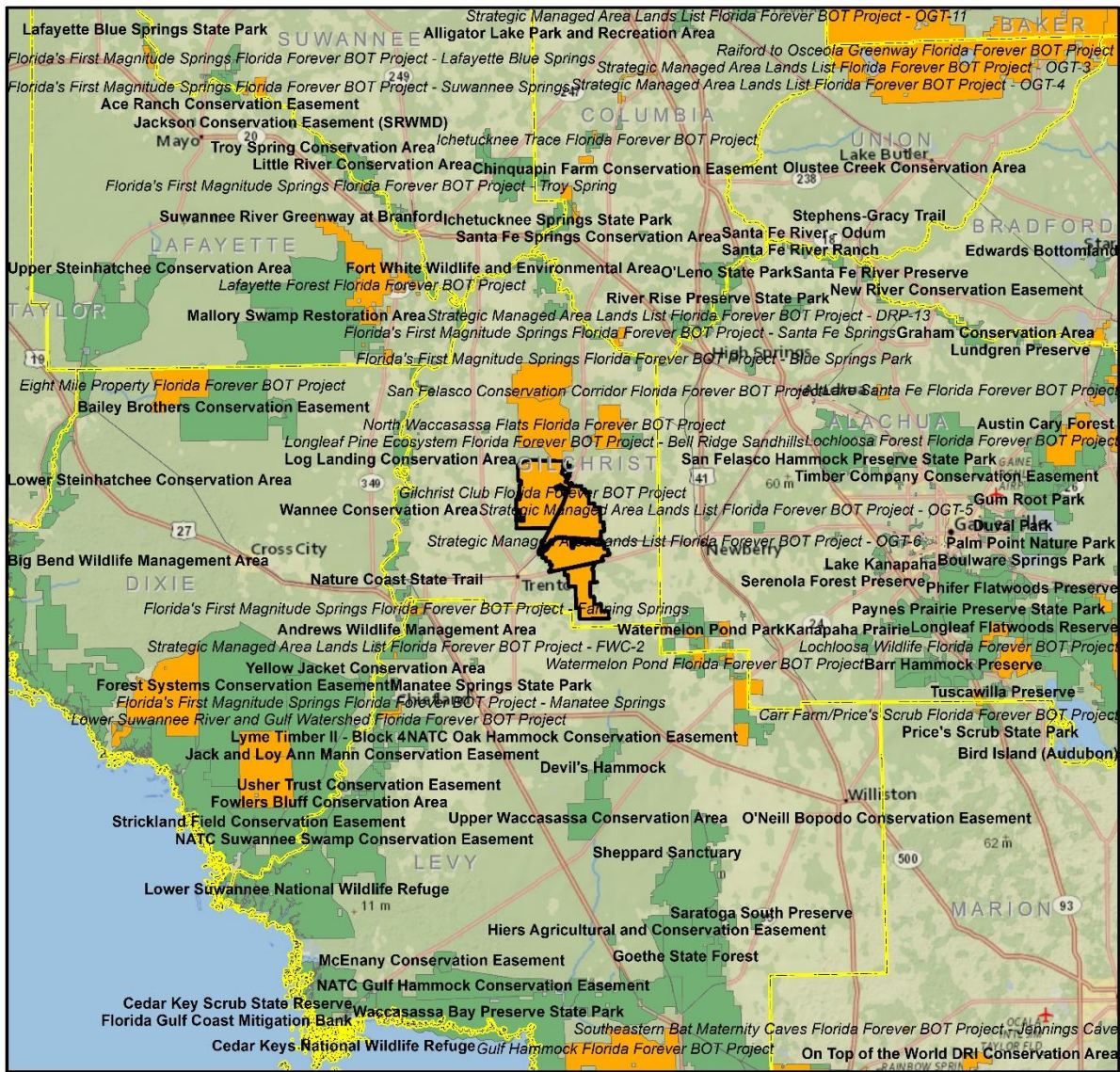
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review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

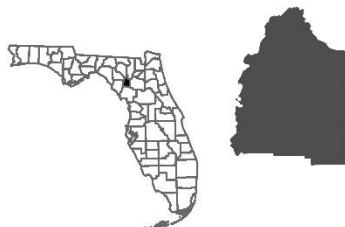
Important fish and wildlife resource GIS data were queried using Environmental Resource Analysis GIS computer software. These data include the following GIS layers:

- 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

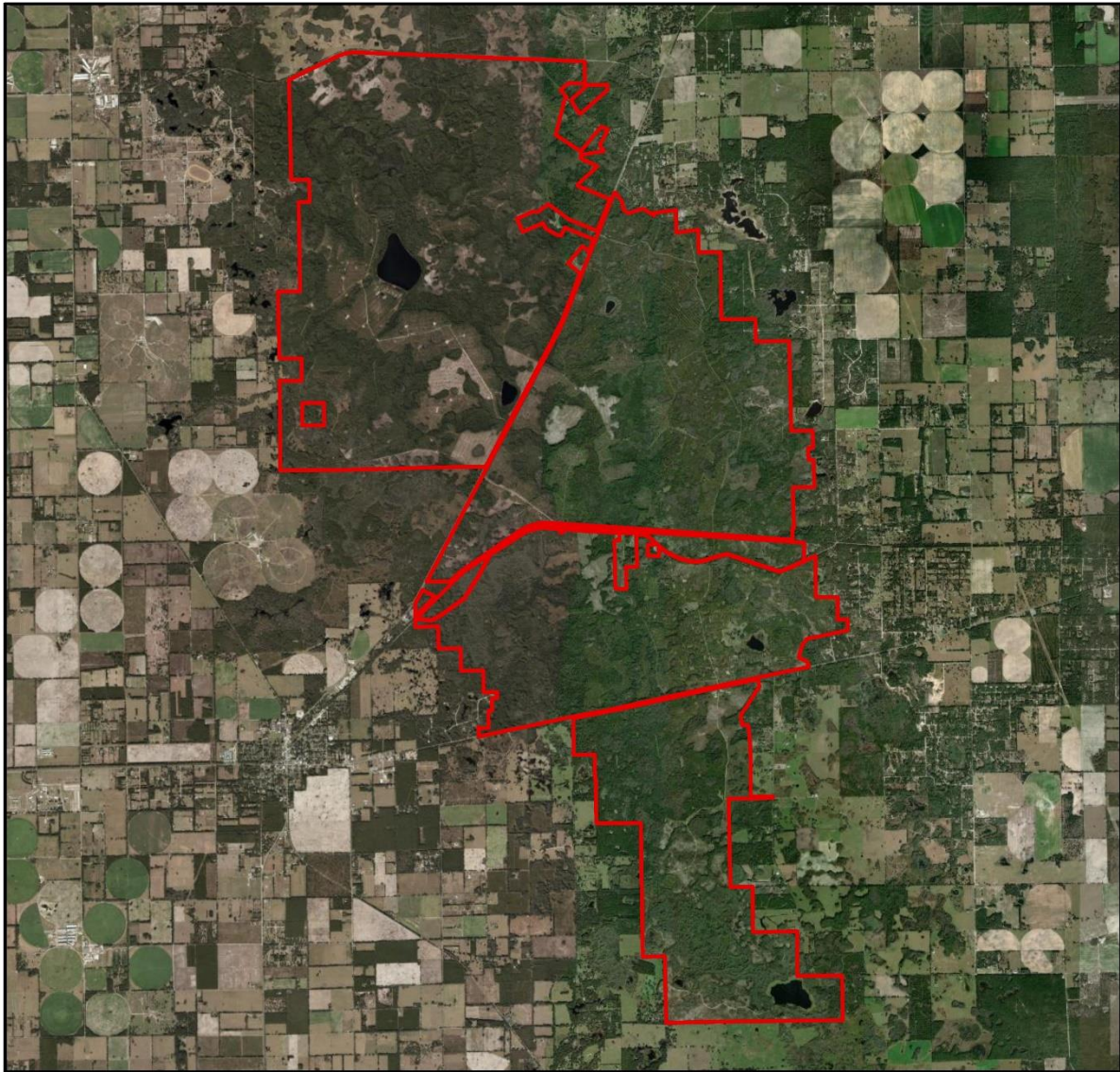


Gilchrist Club
Florida Forever Project
 Gilchrist County
 23,298 Remaining Acres

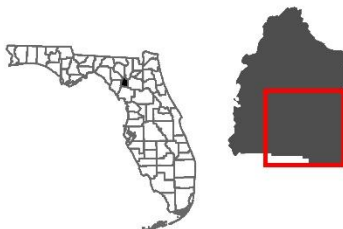


General Location

- Gilchrist Club Boundary
- County Boundaries
- Conservation Lands
- Florida Forever Projects

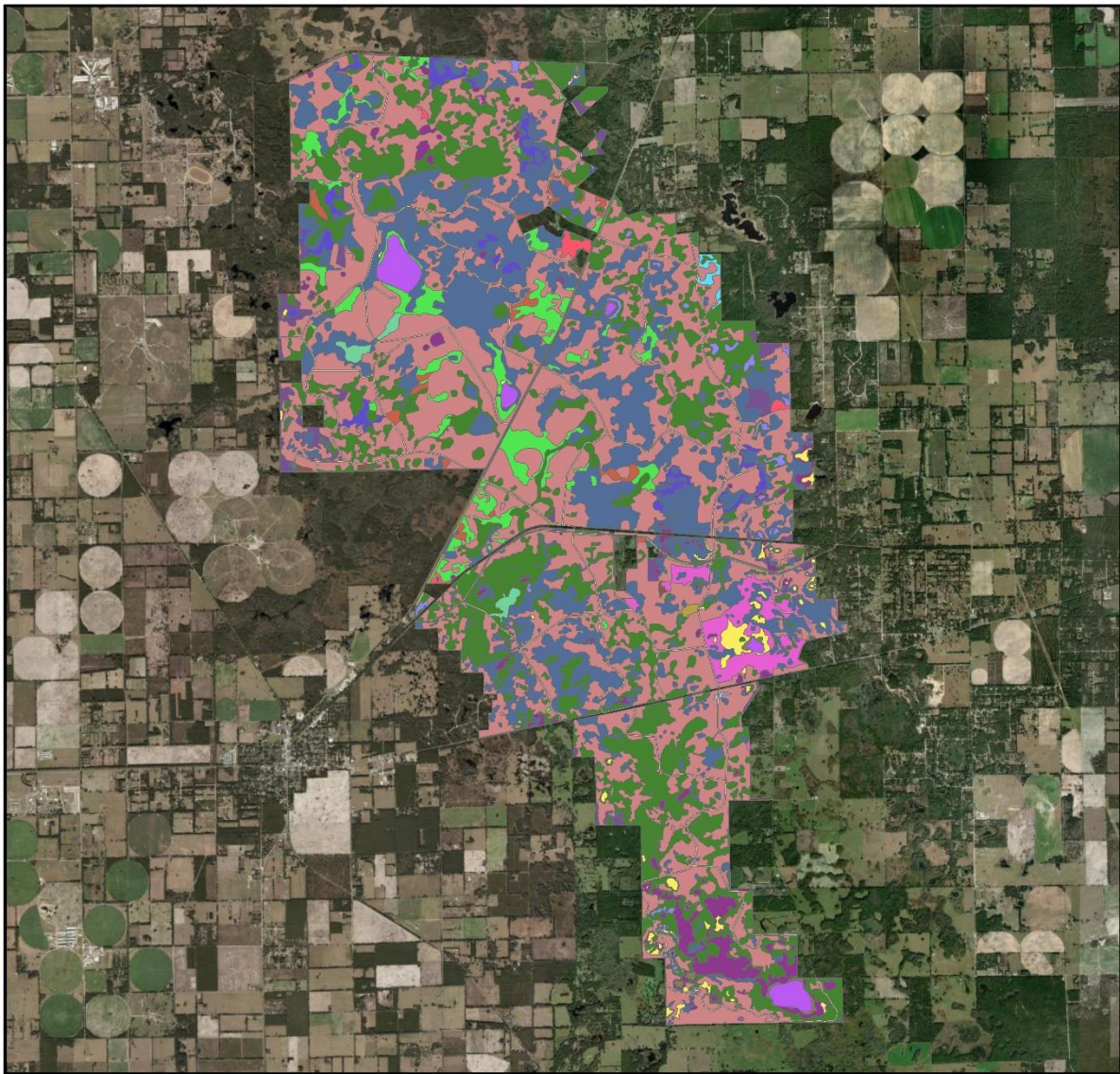


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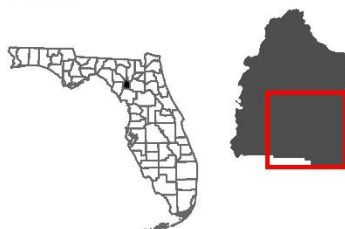


Aerial Imagery

 Gilchrist Club Boundary



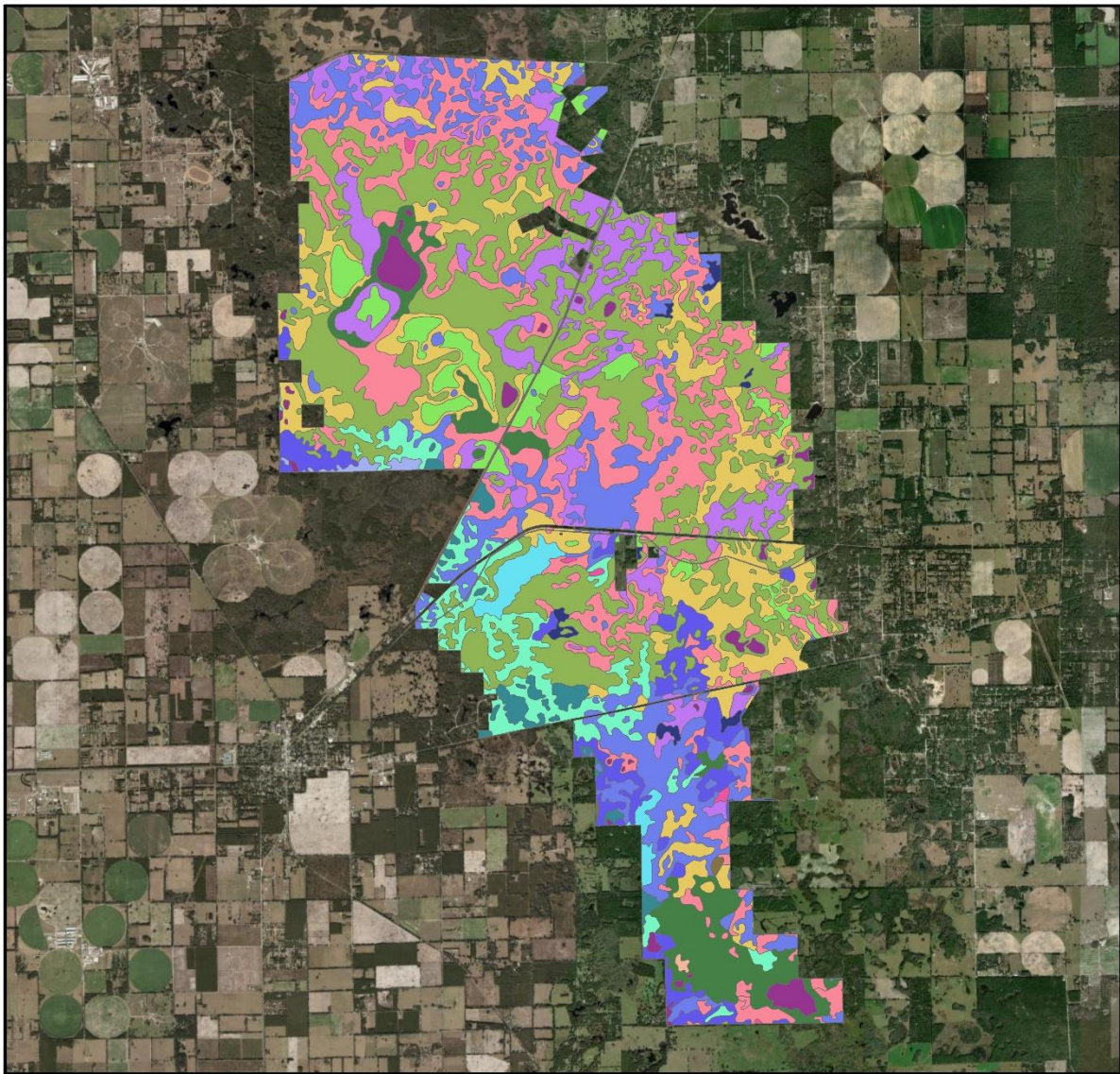
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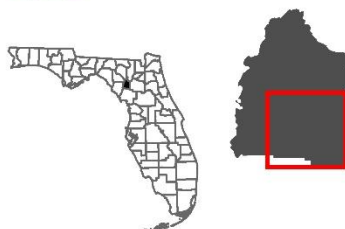
0 1.5 3 4.5 6 Miles
 Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2022

Cooperative Land Cover

Improved Pasture	Freshwater Non-Forested Wetlands	Prairies and Bogs
Bare Soil/Clear Cut	High Intensity Urban	Rural
Baygall	High Pine and Scrub	Shrub and Brushland
Cropland/Pasture	Low Intensity Urban	Successional hardwood forest
Cultural - Lacustrine	Marshes	Transportation
Cypress	Mesic Flatwoods	Tree Plantations
Dome Swamp	Mixed Hardwood-Coniferous	Upland Hardwood Forest
Freshwater Forested Wetlands	Natural Lakes and Ponds	Utilities
		Wet Flatwoods



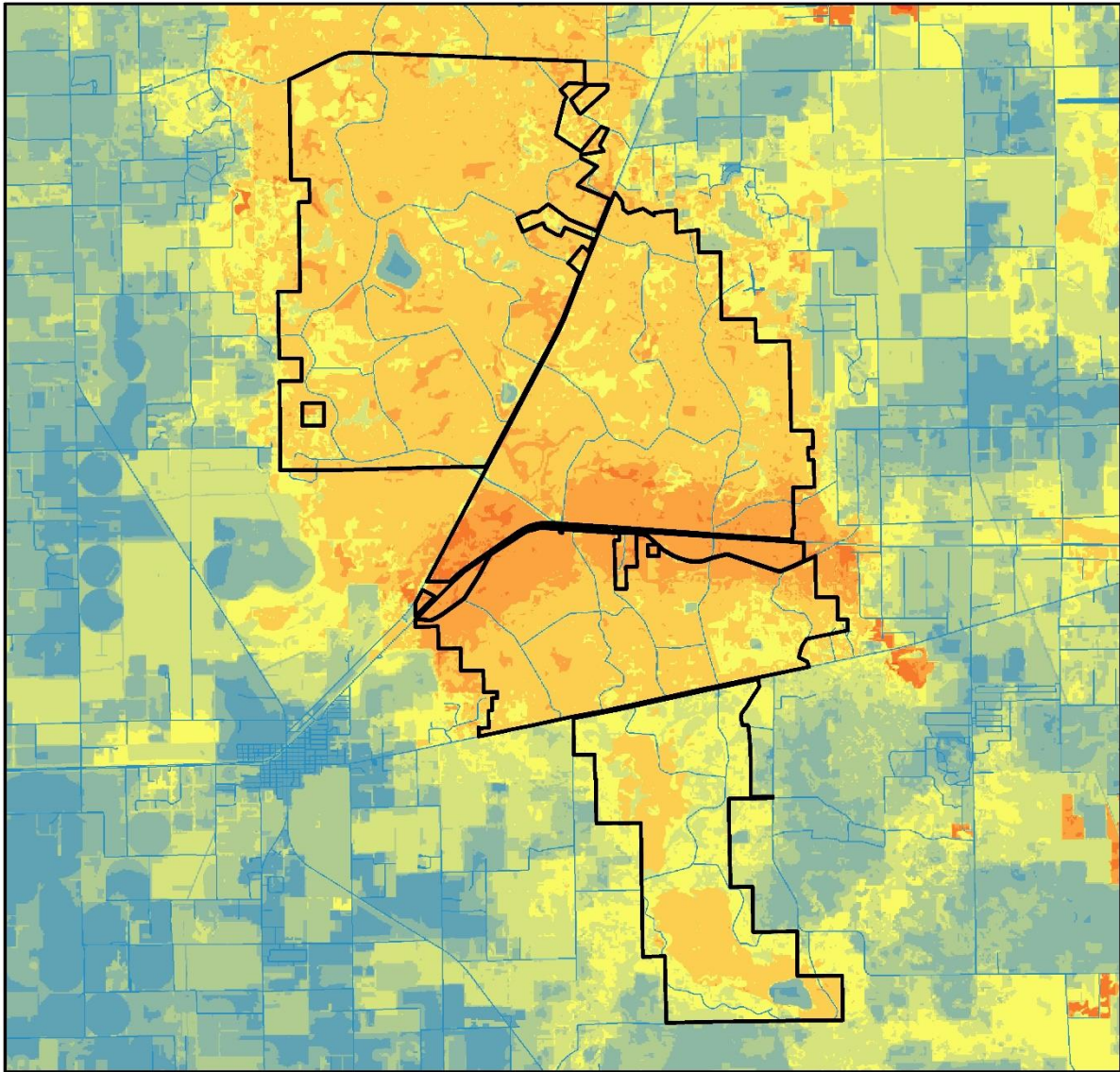
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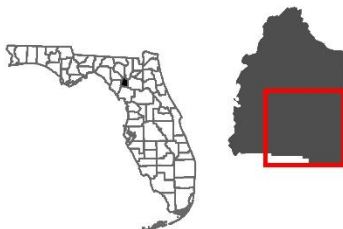
0 1.5 3 4.5 6 Miles
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Soil Types

Albany fine sand	Mandarin fine sand	Ridgewood fine sand
Blanton fine sand	Meggett fine sand	Sapelo fine sand
Ellore-Osier-Fluvaquents complex	Ortega fine sand	Shadeville-Otela fine sands
Hurricane fine sand	Pamlico-Dorovan mucks	Surrency mucky fine sand
Leon fine sand	Penney fine sand	Water
Lynn Haven and Allanton mucky fine sands	Pottsburg fine sand	Wesconnett mucky fine sand



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0 1.5 3 4.5 6 Miles
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Florida Landscape Assessment Model



FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	496.7
	1	46.7
	2	161.2
	3	102.0
	4	1142.3
	5	3258.6
	6	14483.8
	7	3394.1
	8	194.4
	9	0.0
	10	0.0
Mean FLAM value =	5.7	

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: 11032022 10:05:10

Shape Name: Unnamed polygon centered at -82.76637 °, 29.649948 °

Boundary Area: 23284.48 acres

Buffer Area: 0 acres

Total Area: 23284.48 acres

FWC Wildlife Data and Models

Cooperative Land Cover v3.5

Name - State	Code - State	Name - Site	Code - Site	Total Area (acres)	Percent of Area
High Intensity Urban	1822	Commercial and Services	18223	3.84	0.02 %
Low Intensity Urban	1821	Low Structure Density	18212	2.16	0.01 %
Wet Flatwoods	2221	Hydric Pine Flatwoods	22211	820.41	3.52 %
Dome Swamp	22131	Dome Swamp	22131	8.40	0.04 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	3,672.74	15.77 %
Freshwater Forested Wetlands	2200	Mixed Wetland Hardwoods	2233	1,373.77	5.9 %
Cultural - Lacustrine	3200	Artificial Impoundment/Reservoir	3220	0.21	0 %
Natural Lakes and Ponds	3100	Natural Lakes and Ponds	3100	248.20	1.07 %
Dome Swamp	22131	Gum Pond	221312	99.33	0.43 %
Tree Plantations	18333	Coniferous plantation	183332	9,276.16	39.84 %
Transportation	1840	Transportation	1840	498.41	2.14 %
Tree Plantations	18333	Wet plantation	1833321	69.37	0.3 %
Cropland/Pasture	18331	Field Crops	183312	16.95	0.07 %
Baygall	2231	Bay Swamp	22311	83.22	0.36 %
Rural	1830	Unimproved/Woodland Pasture	183314	375.93	1.61 %
Improved Pasture	183313	Improved Pasture	183313	5.91	0.03 %
Shrub and Brushland	1500	Shrub and Brushland	1500	327.17	1.41 %
Successional hardwood forest	1410	Successional hardwood forest	1410	31.81	0.14 %
Rural	1830	Rural Structures	1832	0.03	0 %
Rural	1830	Rural Open	1831	0.34	0 %
High Pine and Scrub	1200	Upland Coniferous	1230	66.81	0.29 %
Upland Hardwood Forest	1110	Upland Hardwood Forest	1110	22.42	0.1 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	308.25	1.32 %
Mesic Flatwoods	1311	Mesic Flatwoods	1311	145.92	0.63 %
Freshwater Non-Forested Wetlands	2100	Floating/Emergent Aquatic Vegetation	2140	45.14	0.19 %
Marshes	2120	Marshes	2120	199.46	0.86 %
Wet Flatwoods	2221	Wet Flatwoods	2221	1.41	0.01 %
Cypress	2211	Cypress	2211	579.15	2.49 %
Bare Soil/Clear Cut	1880	Bare Soil/Clear Cut	1880	0.59	0 %
Utilities	1860	Utilities	1860	47.55	0.2 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	4,638.92	19.92 %
Prairies and Bogs	2110	Wet Prairie	2111	314.46	1.35 %
TOTAL:				23,284.48	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	13,650.04	58.62 %
CLIP P1 in submerged lands/state waters	148.03	0.64 %
CLIP P1 in terrestrial	7,447.96	31.99 %
CLIP P2 in submerged lands/state waters	5.57	0.02 %
CLIP P2 in terrestrial	2,011.26	8.64 %
TOTAL:	23,262.87	99.91 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	143.65	0.62 %
2	3,725.93	16 %
3	19,091.29	81.99 %
4	323.60	1.39 %
TOTAL:	23,284.48	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	122.25	0.53 %
1	122.29	0.53 %
2	3,489.00	14.98 %

3	17,790.79	76.41 %
4	1,760.14	7.56 %
TOTAL:	23,284.48	100 %
Priority FWC Strategic Habitat Conservation Areas 2021		
Priority	Total Area (acres)	Percent of Area
0	3,752.29	16.11 %
3	18,539.13	79.62 %
5	993.06	4.26 %
TOTAL:	23,284.48	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		17,059.22 73.26 %
Cooper's hawk		1,007.18 4.33 %
Cooper's hawk	American swallow-tailed kite	1,364.66 5.86 %
	TOTAL:	19,431.06 83.45 %
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	23,284.48	100 %
TOTAL:	23,284.48	100 %
Rare Fish		
No Records Found		
Rare Fish Imperiled Waters		
COMMON NAME	SCIENTIFIC NAME	Total Area (acres) Percent of Area
Alabama shad	Alosa alabamae	1,059.13 4.55 %
Gulf sturgeon	Acipenser oxyrhynchus desotoi	1,059.13 4.55 %
Ironcolor shiner	Notropis chalybaeus	7,259.15 31.18 %
Spotted bullhead	Ameiurus serracanthus	1,059.13 4.55 %
Suwannee bass	Micropterus notius	7,474.76 32.1 %
	TOTAL:	17,911.29 76.92 %
Southern bald eagle nest		
Nest ID	County	# Features
GI001	Gilchrist	1
	TOTAL:	1
Imperiled Species Richness		
Number of Species	Total Area (acres)	Percent of Area
0	559.66	2.4 %
1	61.55	0.26 %
2	2.45	0.01 %
3	9,892.64	42.49 %
4	2,905.43	12.48 %
5	2,473.34	10.62 %
6	512.75	2.2 %
7	20.35	0.09 %
8	6,856.31	29.45 %
TOTAL:	23,284.48	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
Bald Eagle	Haliaeetus leucocephalus	G5	S3	N	N	E	2003	17.35	0.07 %
Florida Mouse	Podomys floridanus	G3	S3	N	N	H	1957-08-25	814.22	3.5 %
Gopher Tortoise	Gopherus polyphemus	G3	S3	ST	C	E	1987 pre	784.64	3.37 %
Gopher Tortoise	Aphodius troglodytes	G2G3	S2	N	N	H	1966-09-28	9,887.25	42.46 %
Little Blue Heron	Egretta caerulea	G5	S4	ST	N	E	1989-05-11	163.17	0.7 %
Punctate Gopher Tortoise	Onthophagus polyphemi	G2G3T2T3	S2	N	N	H	1966-04-28	10,430.65	44.8 %
Onthophagus Beetle	Mycteria americana	G4	S2	FT	T	H?	1989-05-11	43.83	0.19 %
Wood Stork	Bird Rookery	G5	SNRB	N	N	E	1989-05-11	163.17	0.7 %
ZZ							TOTAL:	22,304.30	95.79 %
Suitable Habitat that Supports Species Known to Occur in the Vicinity									
COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area						

Florida Mouse	Podomys floridanus	1,251.20	5.37 %
Florida Sandhill Crane	Antigone canadensis pratensis	2,444.85	10.5 %
Wood Stork	Mycteria americana	6,904.72	29.65 %
Eastern Indigo Snake	Drymarchon couperi	56.82	0.24 %
TOTAL:		10,657.60	45.77 %

USFWS

Critical Habitat

No Records Found

Water Resources

FDEP Surface Water Classification

Name	Type	Basin	Classification	Total Area (acres)	Percent of Area
COW CREEK	STREAM	COW CREEK	3F	8,578.17	36.84 %
SUWANNEE RIVER (LOWER SEGMENT)	STREAM	SUWANNEE RIVER (LOWER SEGMENT)	3F	1,097.34	4.71 %
UNNAMED DRAIN	STREAM	UNNAMED DRAIN	3F	3,184.88	13.68 %
UNNAMED SLOUGH	STREAM	UNNAMED SLOUGH	3F	3,174.05	13.63 %
WACCASASSA RIVER	STREAM	WACCASASSA RIVER	3F	7,250.05	31.14 %
TOTAL:				23,284.48	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	PEM/SS1A	1.07	0 %
FRESHWATER EMERGENT WETLAND	PEM/SS1F	6.79	0.03 %
FRESHWATER EMERGENT WETLAND	PEM1/AB3F	89.94	0.39 %
FRESHWATER EMERGENT WETLAND	PEM1/FO6F	80.75	0.35 %
FRESHWATER EMERGENT WETLAND	PEM1/SS3C	2.47	0.01 %
FRESHWATER EMERGENT WETLAND	PEM1/SS3F	21.34	0.09 %
FRESHWATER EMERGENT WETLAND	PEM1/SS6F	42.56	0.18 %
FRESHWATER EMERGENT WETLAND	PEM1A	6.43	0.03 %
FRESHWATER EMERGENT WETLAND	PEM1C	44.58	0.19 %
FRESHWATER EMERGENT WETLAND	PEM1F	160.35	0.69 %
FRESHWATER EMERGENT WETLAND	PEM1Fx	0.62	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/4A	66.75	0.29 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/7C	3.00	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1A	2.01	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1C	5.52	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/3C	4.79	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/SS6F	16.04	0.07 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2F	123.55	0.53 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO3/4C	92.73	0.4 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO3/6C	18.41	0.08 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO3/6F	128.15	0.55 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO3C	6.19	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/2C	64.59	0.28 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/6C	10.55	0.05 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/EM1Cx	4.10	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/SS7C	6.17	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4A	51.60	0.22 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4B	4.27	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4C	145.86	0.63 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/3C	221.69	0.95 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/3F	1,710.75	7.35 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/4C	453.27	1.95 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/4F	219.71	0.94 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/7C	653.89	2.81 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/7F	7.30	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/EM1F	39.27	0.17 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/SS3F	103.21	0.44 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/SS6F	98.47	0.42 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6C	138.17	0.59 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6F	3,449.42	14.81 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO7/1C	16.58	0.07 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO7/2C	13.00	0.06 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO7/2F	9.39	0.04 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO7/6C	121.76	0.52 %

FRESHWATER FORESTED/SHRUB WETLAND	PFO7/6F	25.23	0.11 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1/AB4H	1.19	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1C	1.13	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1F	5.34	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/4F	0.48	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/6F	355.31	1.53 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/FO6C	177.02	0.76 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/FO6F	6.93	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3C	21.57	0.09 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3F	30.47	0.13 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS6/3C	21.67	0.09 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS6/3F	33.44	0.14 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS6/FO6F	306.43	1.32 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS6F	52.18	0.22 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS7/1C	26.19	0.11 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS7/EM1C	11.56	0.05 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS7C	42.13	0.18 %
FRESHWATER POND	PAB3/EM1F	25.83	0.11 %
FRESHWATER POND	PAB3/EM1H	2.67	0.01 %
FRESHWATER POND	PAB3/UBH	5.07	0.02 %
FRESHWATER POND	PAB3G	32.31	0.14 %
FRESHWATER POND	PAB3H	9.47	0.04 %
FRESHWATER POND	PUB/AB3H	2.38	0.01 %
FRESHWATER POND	PUB/EM1H	22.24	0.1 %
FRESHWATER POND	PUBG	1.83	0.01 %
FRESHWATER POND	PUBH	54.54	0.23 %
LAKE	L1UBH	241.90	1.04 %
	TOTAL:	9,983.56	42.88 %

Priority Floodplain Resources

Priority	Total Area (acres)	Percent of Area
0	8,212.24	35.27 %
1	238.64	1.02 %
2	6,435.31	27.64 %
3	8,175.38	35.11 %
4	222.91	0.96 %
TOTAL:	23,284.48	100 %

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