

**Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Hall Ranch 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 **Hall Ranch** 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

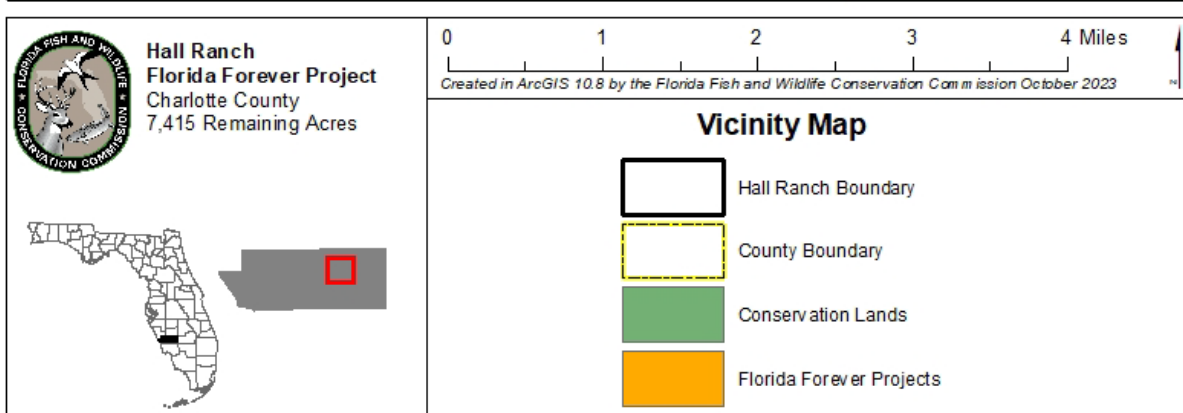
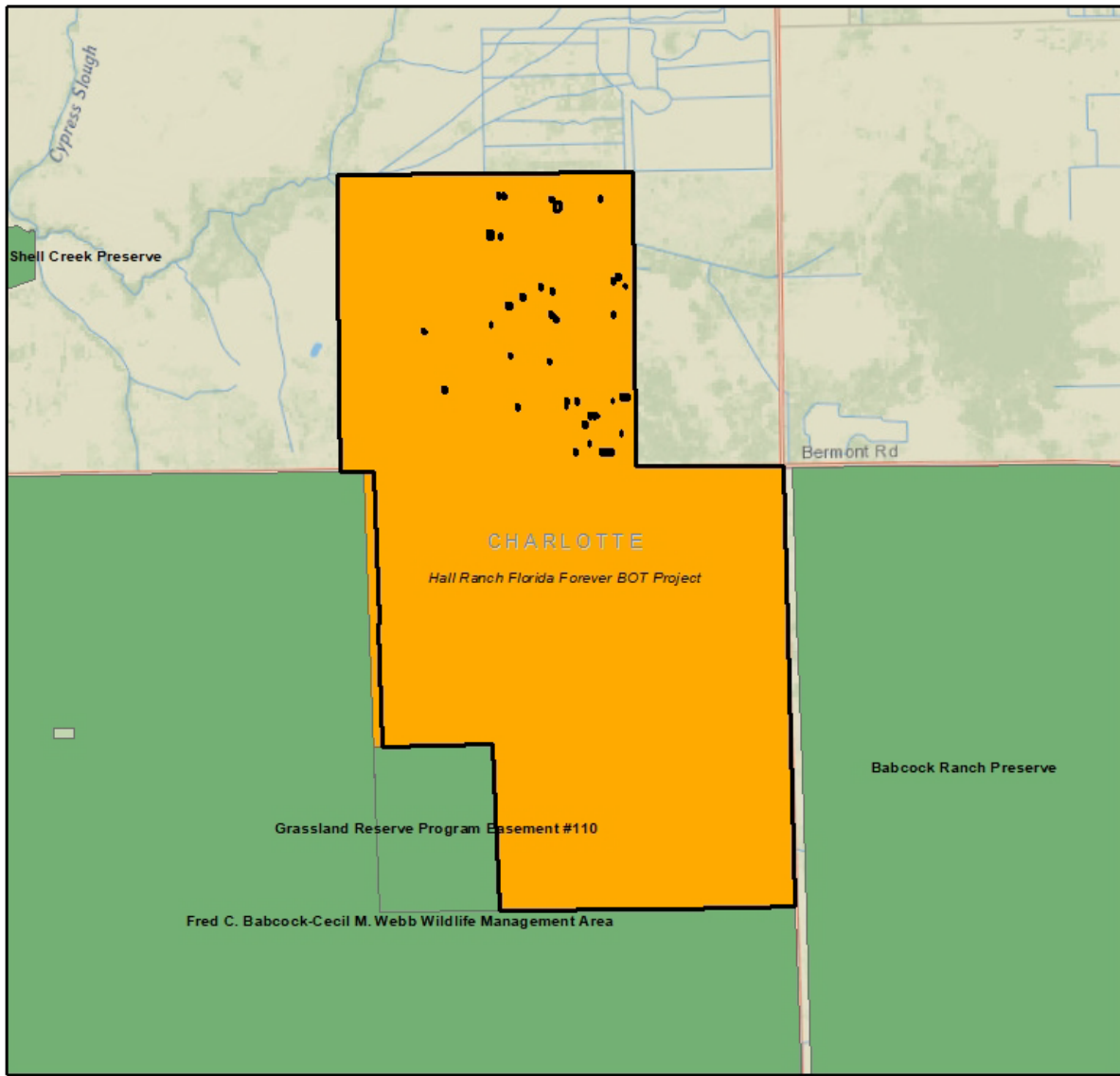
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review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

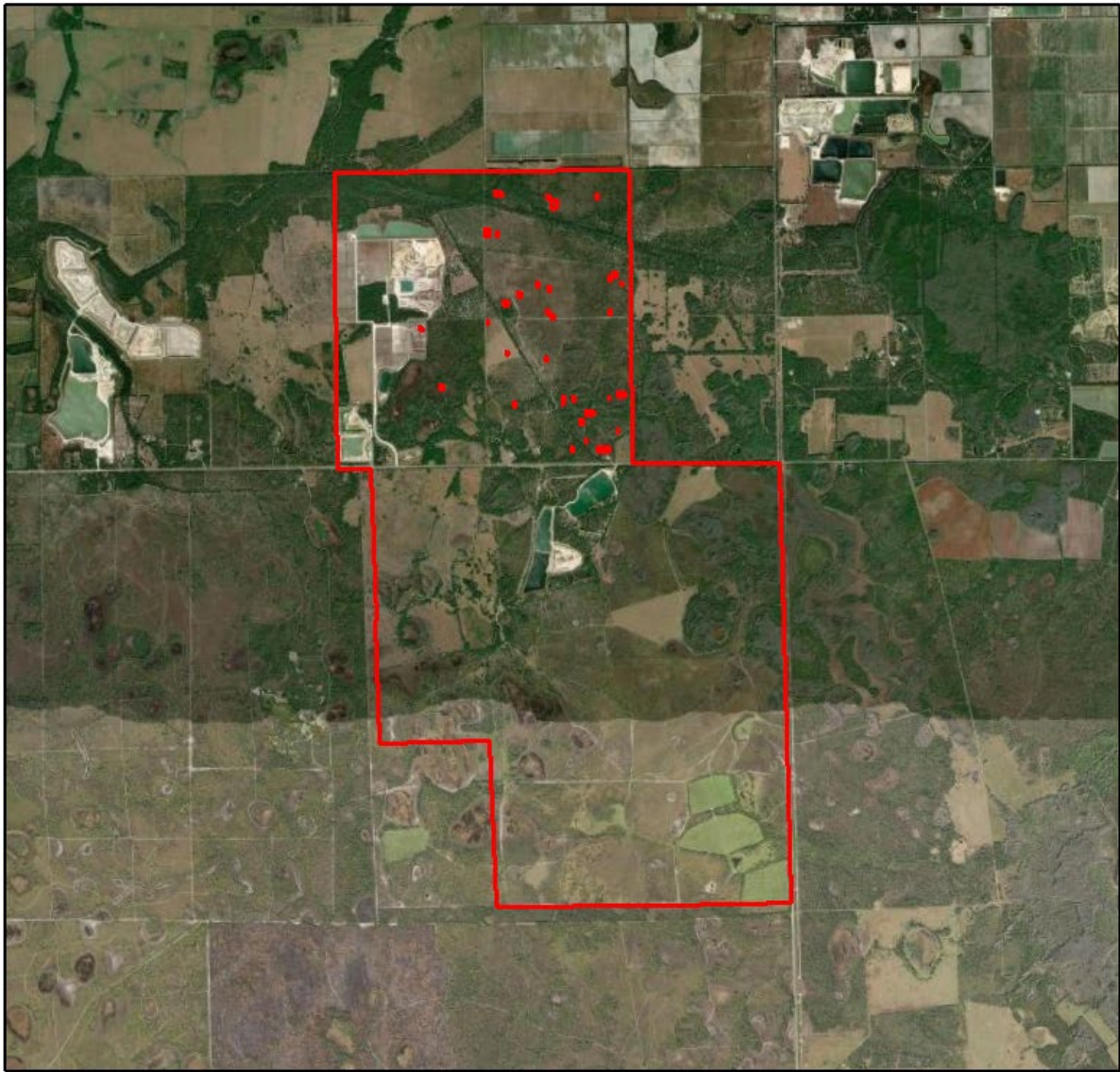
The FWC Florida Landscape Assessment Model (FLAM)¹ is a GIS model that determines the landscape value based on natural resources and fish and wildlife habitat. The FLAM ranks habitat from a 0-10; a rank of 10 being of greatest value.

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





Hall Ranch
Florida Forever Project
Charlotte County
7,415 Remaining Acres



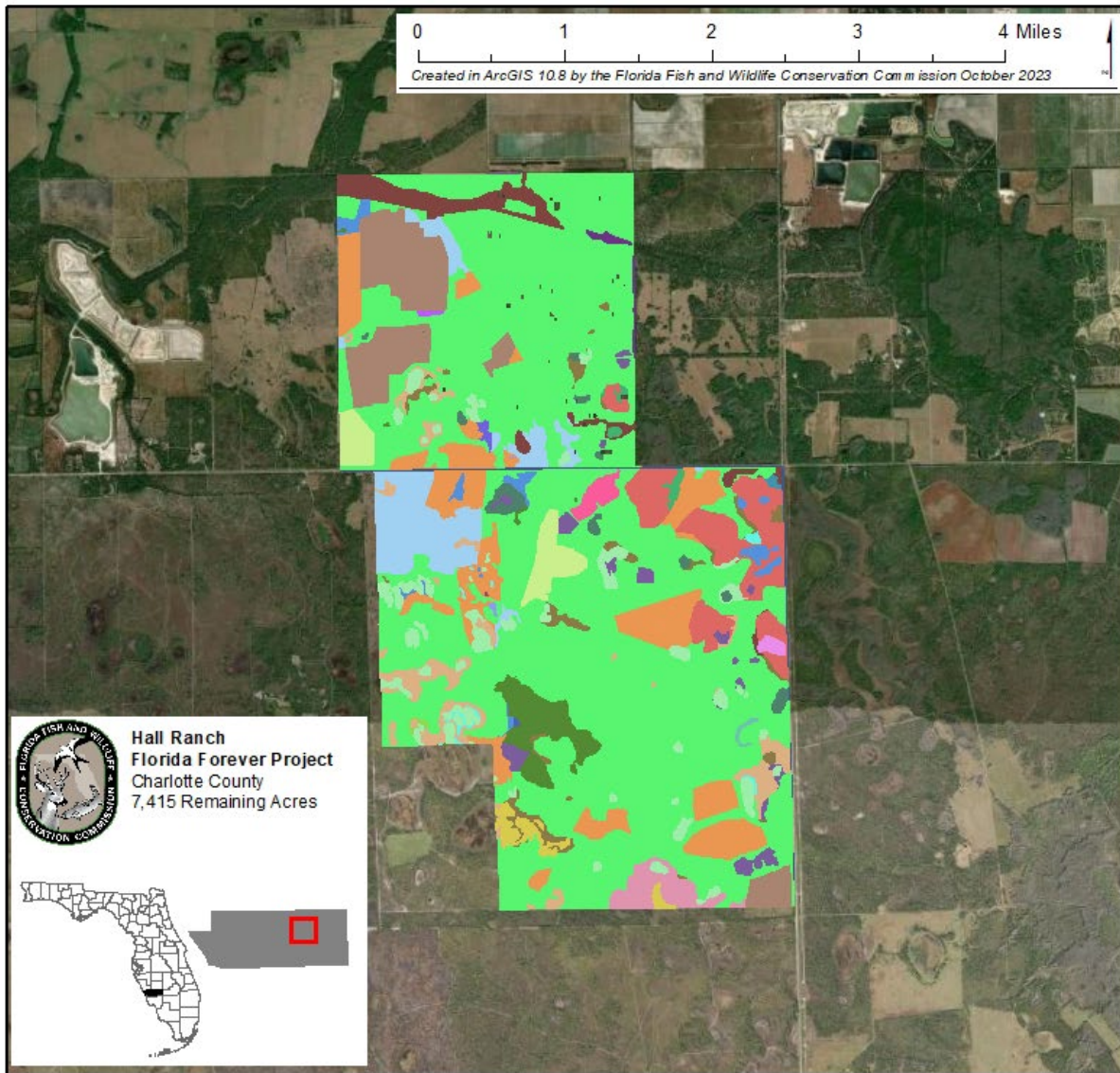
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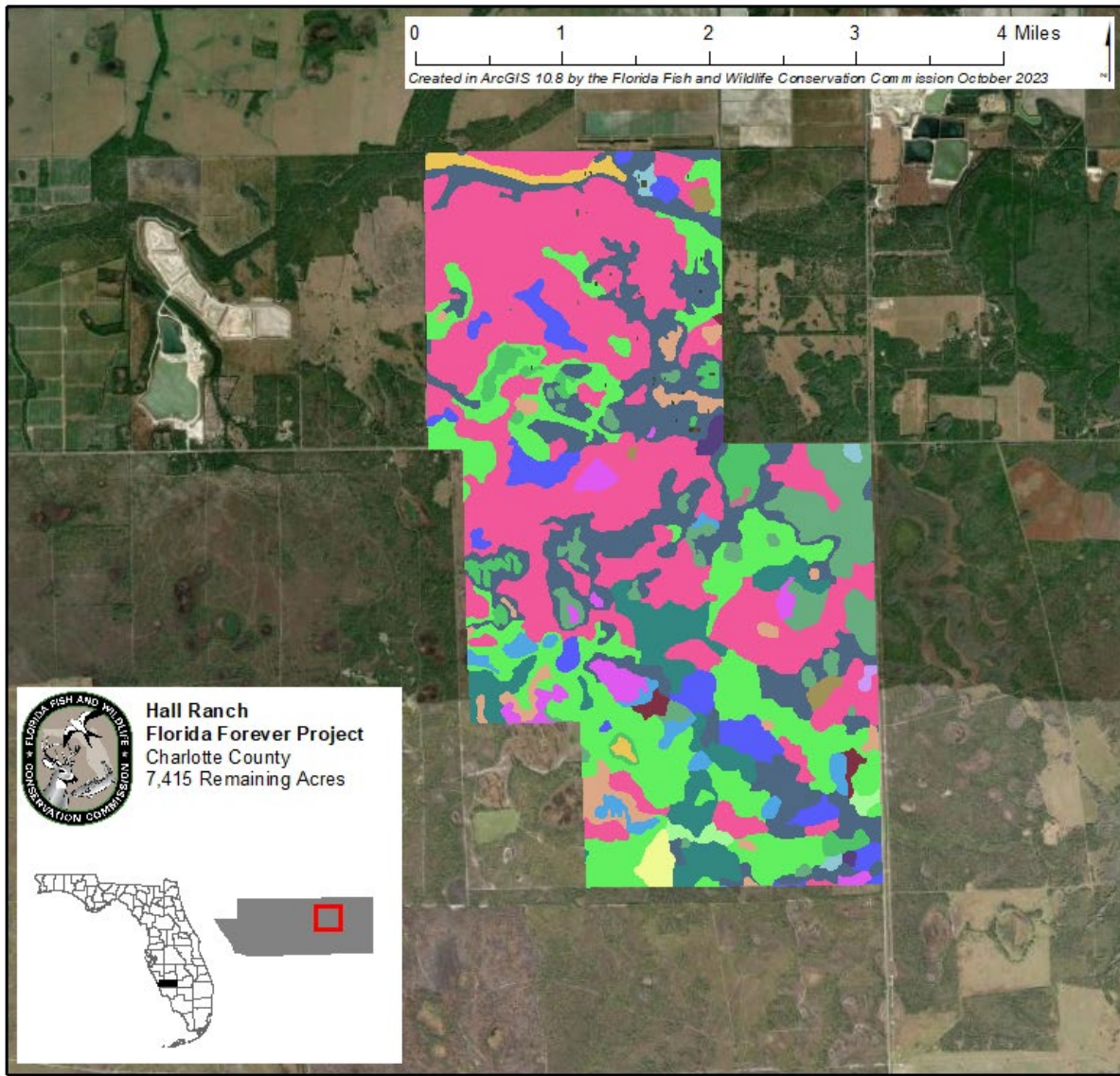
Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission October 2023

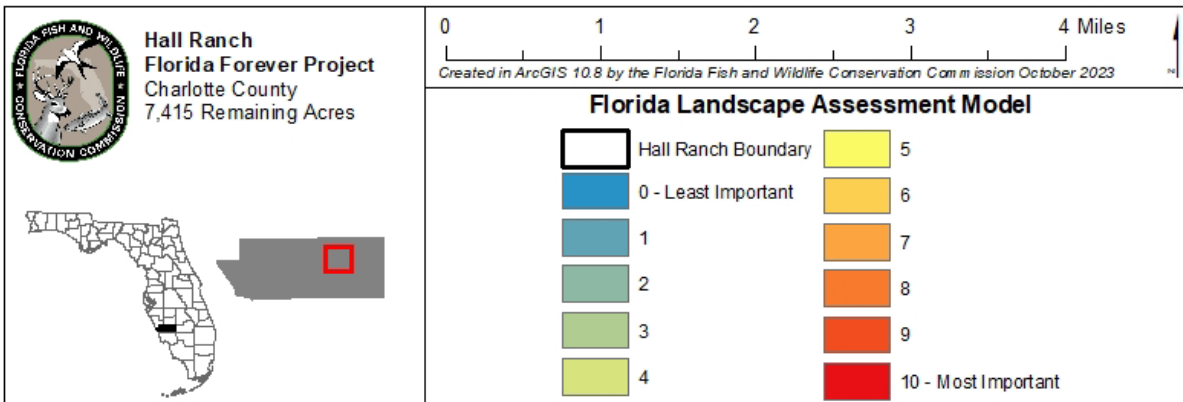
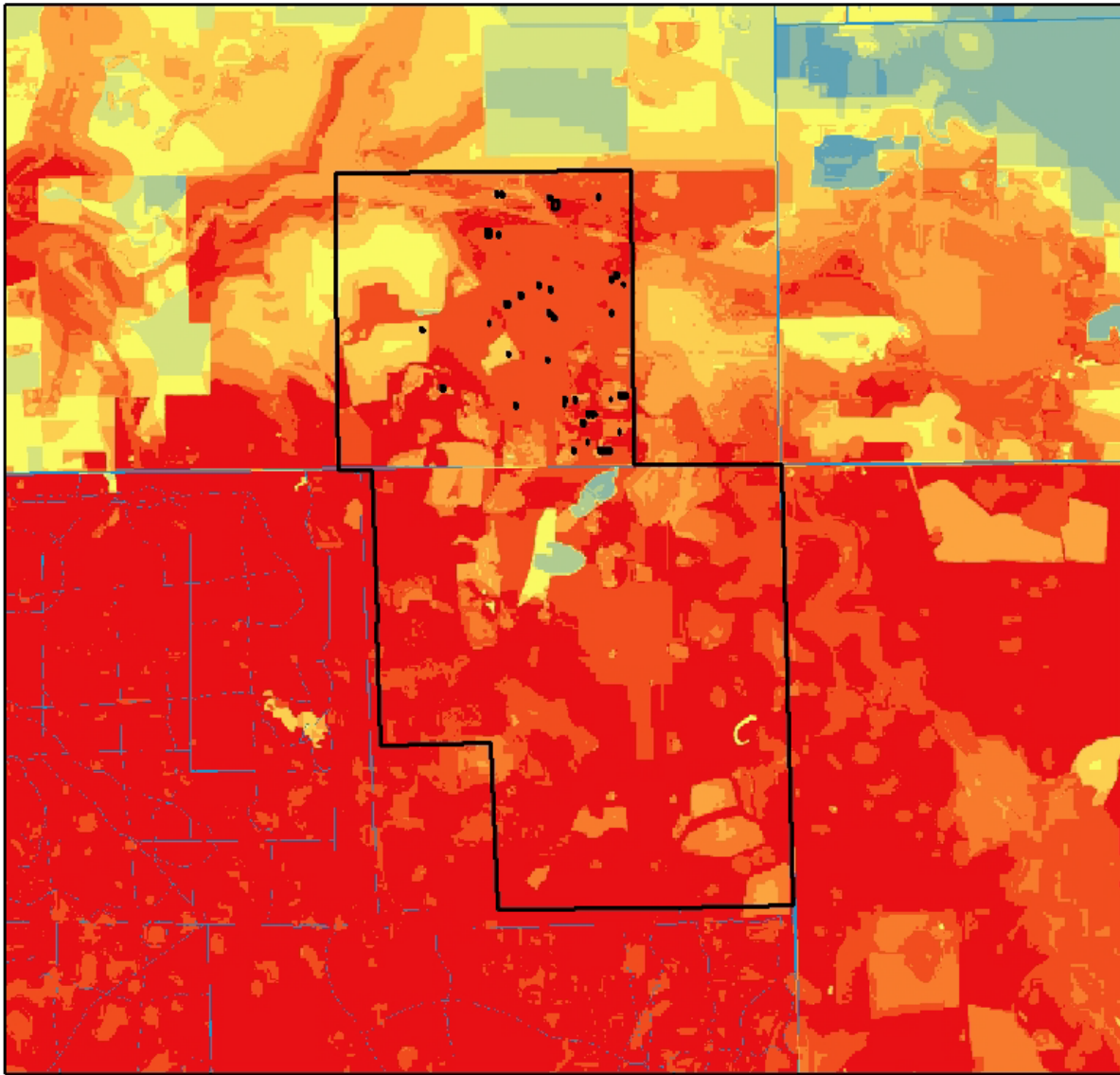
Aerial Imagery



Hall Ranch Boundary







FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	30.6
	1	0.0
	2	13.6
	3	51.3
	4	7.4
	5	191.0
	6	283.1
	7	580.6
	8	827.9
	9	2677.1
	10	2752.2
Mean FLAM value =	8.8	

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: 11082023 10:17:13

Shape Name: Unnamed polygon centered at -81.784976 °, 26.938857 °

Boundary Area: 7,414.87 acres

Buffer Area: 0 acres

Total Area: 7,414.87 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
Cultural - Lacustrine	3200	Artificial Impoundment/Reservoir	3220	5.57	0.08 %
Cultural - Lacustrine	3200	Quarry Pond	3230	33.90	0.46 %
High Intensity Urban	1822	Industrial	18224	3.41	0.05 %
Cultural - Lacustrine	3200	Artificial/Farm Pond	3210	0.60	0.01 %
Freshwater Forested Wetlands	2200	Mixed Wetland Hardwoods	2233	14.80	0.2 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	63.29	0.85 %
Freshwater Forested Wetlands	2200	Cypress/Pine/Cabbage Palm	2242	169.07	2.28 %
Rural	1830	Rural Open Forested	18311	4.39	0.06 %
Improved Pasture	183313	Improved Pasture	183313	616.08	8.31 %
Rural	1830	Unimproved/Woodland Pasture	183314	325.82	4.39 %
Transportation	1840	Transportation	1840	31.13	0.42 %
Cropland/Pasture	18331	Field Crops	183312	409.32	5.52 %
Isolated Freshwater Marsh	2121	Depression Marsh	21211	51.83	0.7 %
Dome Swamp	22131	Dome Swamp	22131	12.62	0.17 %
Wet Flatwoods	2221	Hydric Pine Flatwoods	22211	94.70	1.28 %
Rural	1830	Rural Structures	1832	2.20	0.03 %
Extractive	1870	Strip Mines	1871	131.10	1.77 %
Prairies and Bogs	2110	Wet Prairie	2111	184.18	2.48 %
Shrub and Brushland	1500	Shrub and Brushland	1500	1.44	0.02 %
Mesic Hammock	1120	Pine - Mesic Oak	1124	13.10	0.18 %
Mesic Flatwoods	1311	Mesic Flatwoods	1311	4,298.51	57.97 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	6.79	0.09 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	82.67	1.11 %
Isolated Freshwater Swamp	2213	Isolated Freshwater Swamp	2213	56.33	0.76 %
Other Coniferous Wetlands	2220	Other Coniferous Wetlands	2220	3.82	0.05 %
Wet Flatwoods	2221	Wet Flatwoods	2221	91.30	1.23 %
Cypress	2211	Cypress	2211	315.38	4.25 %
Marshes	2120	Marshes	2120	144.28	1.95 %
Isolated Freshwater Marsh	2121	Isolated Freshwater Marsh	2121	228.64	3.08 %
Cypress/Tupelo (Cypress/Tupelo mixed)	2210	Cypress/Tupelo (Cypress/Tupelo mixed)	2210	18.61	0.25 %
TOTAL:				7,414.87	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	830.22	11.2 %
CLIP P1 in submerged lands/state waters	43.84	0.59 %
CLIP P1 in terrestrial	4,295.01	57.92 %
CLIP P2 in submerged lands/state waters	15.63	0.21 %
CLIP P2 in terrestrial	2,226.61	30.03 %
TOTAL:	7,411.32	99.95 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	17.35	0.23 %
3	7,397.53	99.77 %
TOTAL:	7,414.87	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	17.18	0.23 %
1	1.67	0.02 %
2	47.76	0.64 %
3	1,150.69	15.52 %
4	1,530.41	20.64 %
5	4,667.16	62.94 %
TOTAL:	7,414.87	100 %

Priority FWC Strategic Habitat Conservation Areas 2021							
Priority	Total Area (acres)					Percent of Area	
0	4,776.73					64.42 %	
1	122.66					1.65 %	
3	2,409.81					32.5 %	
5	105.67					1.43 %	
TOTAL:	7,414.87					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						2,399.47	32.36 %
Cooper's hawk						102.93	1.39 %
Florida grasshopper sparrow						121.81	1.64 %
TOTAL:						2,624.21	35.39 %
Panther location							
DATE						# Features	
10/18/2004 12:00:00 AM						1	
11/12/2004 12:00:00 AM						1	
TOTAL:						2	
Panther mortality							
No Records Found							
Panther Priority Habitat							
No Records Found							
Bear Range							
Bear Range	Total Area (acres)					Percent of Area	
Occasional	7,414.87					100 %	
TOTAL:	7,414.87					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		711.91				9.6 %	
3		140.56				1.9 %	
5		374.80				5.05 %	
7		1,895.69				25.57 %	
8		1,377.89				18.58 %	
9		2,900.14				39.11 %	
10		13.87				0.19 %	
TOTAL:		7,414.87				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
Bachman's Sparrow	Peucaea aestivalis	G3	S3	N	N	AC	2007-07-12	4.08	0.06 %
Crested Caracara	Caracara plancus	G5	S2	FT	T	E	1978	2.81	0.04 %
Florida Black Bear	Ursus americanus floridanus	G5T4	S4	N	N	B?	1979	690.71	9.32 %
Red-cockaded Woodpecker	Dryobates borealis	G3	S2	FE	E, PT	BC	2021	124.69	1.68 %
Southeastern Fox Squirrel	Sciurus niger niger	G5T5	S3	N	N	E	2005-05-11	2.81	0.04 %
ZZ	Basin swamp	G4	S3	N	N	B	1996-05-02	2.81	0.04 %
ZZ	Mesic flatwoods	G4	S4	N	N	B	1996-05-02	2.81	0.04 %
ZZ	Mesic flatwoods	G4	S4	N	N	C	1996-05-01	2.81	0.04 %
ZZ	Mesic hammock	G3	S3?	N	N	B	1996-05-02	2.81	0.04 %
TOTAL:								836.37	11.28 %
Suitable Habitat that Supports Species Known to Occur in the Vicinity									
COMMON NAME		SCIENTIFIC NAME				Total Area (acres)		Percent of Area	
Crested Caracara		Caracara cheriway				4,686.48		63.2 %	
Eastern Indigo Snake		Drymarchon couperi				5,564.37		75.04 %	
Florida bonneted bat		Eumops floridanus				5,839.67		78.76 %	
Florida Long-tailed Weasel		Mustela frenata peninsulac				6,795.53		91.65 %	
Florida Panther		Puma concolor coryi				7,097.65		95.72 %	
Florida Sandhill Crane		Antigone canadensis pratensis				5,931.94		80 %	
Red-cockaded Woodpecker		Dryobates borealis				4,342.04		58.56 %	
Snail Kite		Rostrhamus sociabilis				2,886.00		38.92 %	

Tawny Sanddragon	Progompheus alachuensis	784.03	10.57 %
Wood Stork	Mycteria americana	1,197.96	16.16 %
	TOTAL:	45,125.67	608.58 %

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
2	7,122.20	96.05 %
3	292.67	3.95 %
TOTAL:	7,414.87	100 %

Water Resources

FDEP Surface Water Classification

Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
TELEGRAPH SWAMP	STREAM	3236	3F	1,252.67	16.89 %
DAUGHTREY CREEK	STREAM	3240F	3F	459.36	6.2 %
MYRTLE SLOUGH	STREAM	2040	1	47.35	0.64 %
SHELL CREEK	STREAM	2041	1	5,655.50	76.27 %
			TOTAL:	7,414.87	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	PEM1A	1.13	0.02 %
FRESHWATER EMERGENT WETLAND	PEM1Ad	34.09	0.46 %
FRESHWATER EMERGENT WETLAND	PEM1C	26.58	0.36 %
FRESHWATER EMERGENT WETLAND	PEM1Cd	384.39	5.18 %
FRESHWATER EMERGENT WETLAND	PEM1F	21.80	0.29 %
FRESHWATER EMERGENT WETLAND	PEM1Fd	253.60	3.42 %
FRESHWATER EMERGENT WETLAND	PEM1Fx	0.27	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1Fd	153.85	2.07 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/3Cd	85.42	1.15 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/3Ad	36.04	0.49 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/3C	13.17	0.18 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1Ad	65.22	0.88 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1Cd	14.90	0.2 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2Cd	18.30	0.25 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2Fd	412.93	5.57 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2F	17.06	0.23 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/1C	0.96	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2Ad	1.75	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2C	0.66	0.01 %
FRESHWATER POND	PUBHx	38.67	0.52 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS4Cd	0.26	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1Ad	19.13	0.26 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1/EM1Ad	22.58	0.3 %

FRESHWATER FORESTED/SHRUB WETLAND	PSS1Cd	2.28	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4Cd	47.99	0.65 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4C	18.29	0.25 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4Ad	58.82	0.79 %
RIVERINE	R5UBH	2.45	0.03 %
RIVERINE	R5UBFx	25.10	0.34 %
RIVERINE	R4SBC	11.78	0.16 %
RIVERINE	R2UBHx	5.52	0.07 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1/3Cd	78.58	1.06 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1/3Ad	6.84	0.09 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4A	3.78	0.05 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/1Cd	2.42	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3Ad	7.51	0.1 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/EM1Cd	50.66	0.68 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/1Fd	2.67	0.04 %
	TOTAL:	1,947.47	26.26 %
Priority Floodplain Resources			
Priority	Total Area (acres)	Percent of Area	
4	21.59	0.29 %	
3	304.03	4.1 %	
5	23.58	0.32 %	
0	5,721.46	77.16 %	
2	688.76	9.29 %	
1	655.45	8.84 %	
TOTAL:	7,414.87	100 %	