

Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Ichetucknee Trace 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 **Ichetucknee Trace** 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

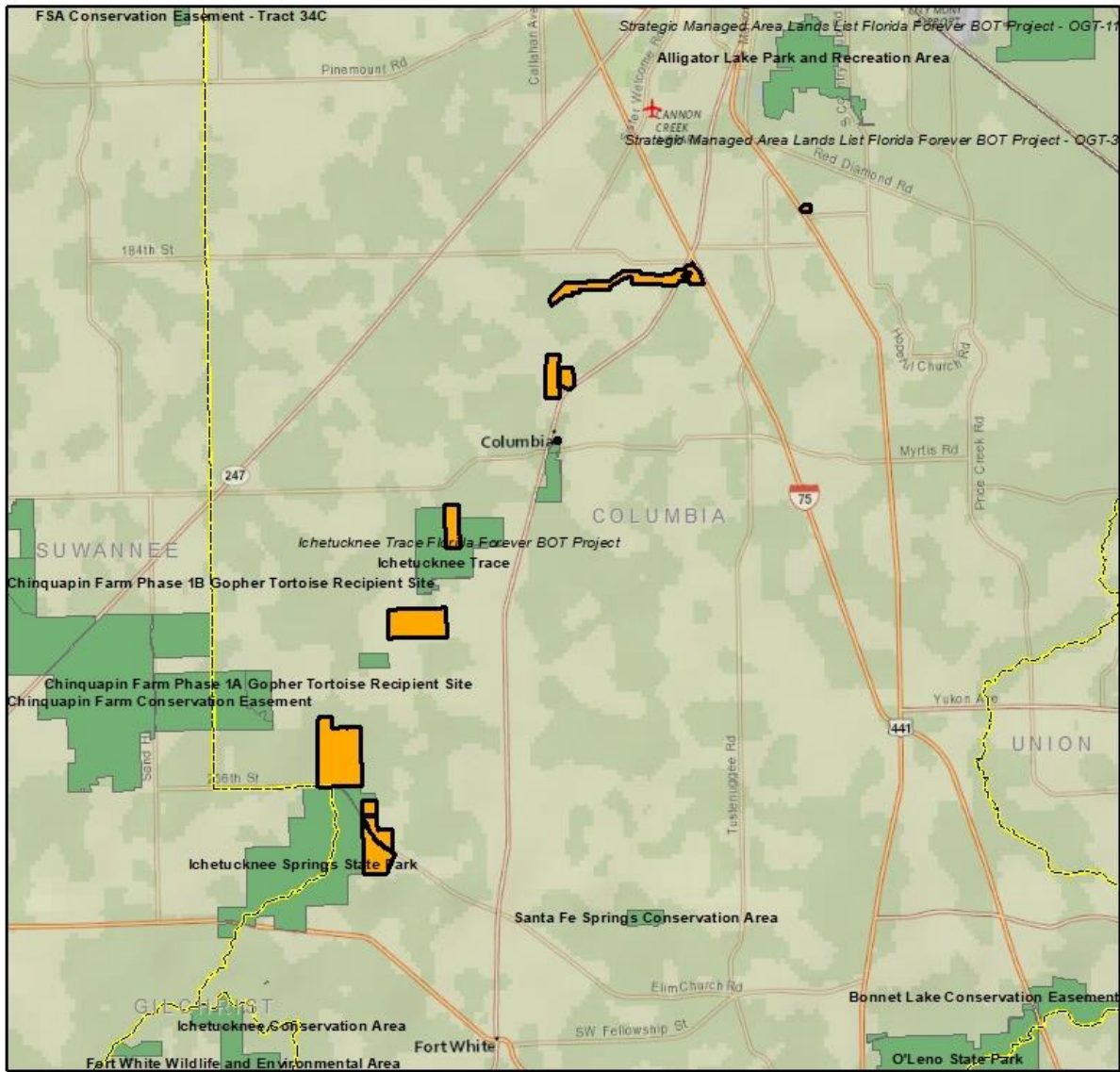
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review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



**Ichetucknee Trace
Florida Forever Project**
Columbia County
1,707 Remaining Acres

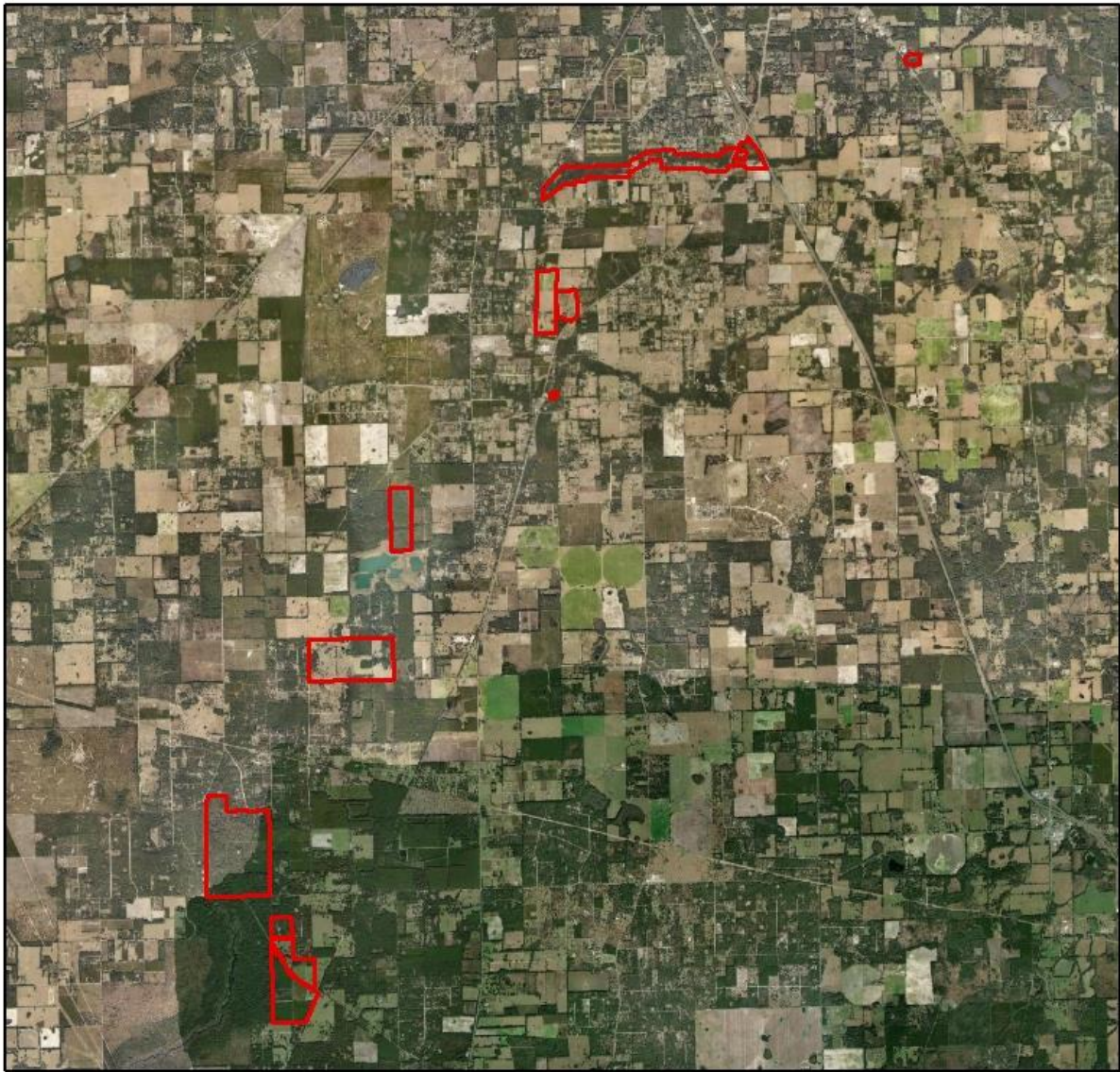


0 2.5 5 7.5 10 Miles

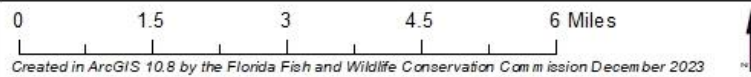
Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2023

Vicinity Map

- Ichetucknee Trace Boundary
- County Boundaries
- Conservation Lands
- Florida Forever Projects

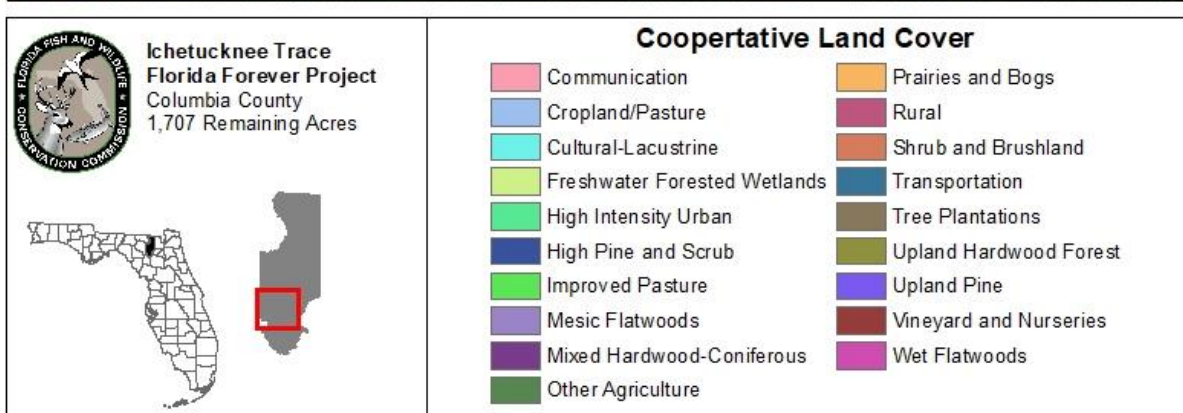
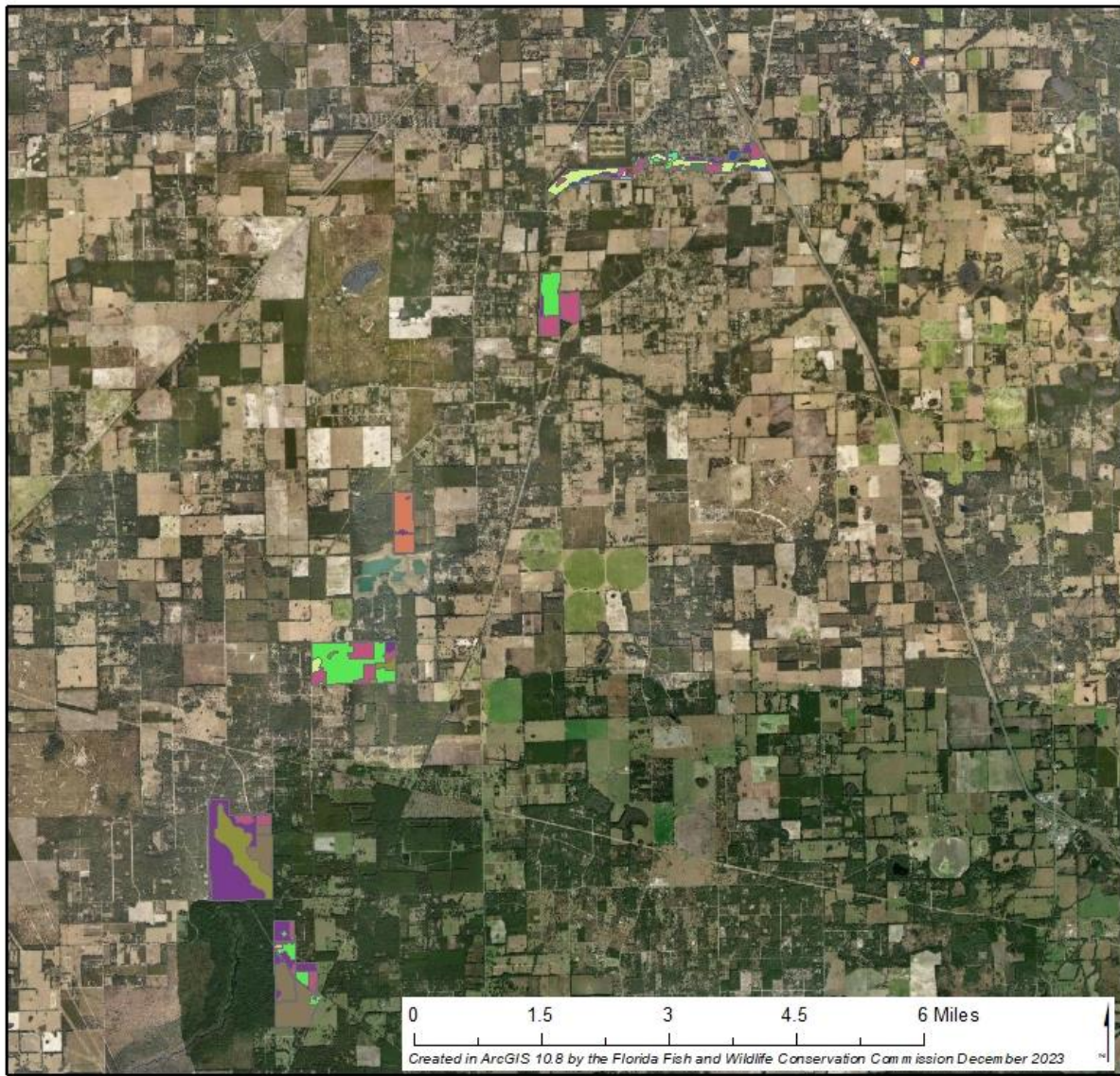


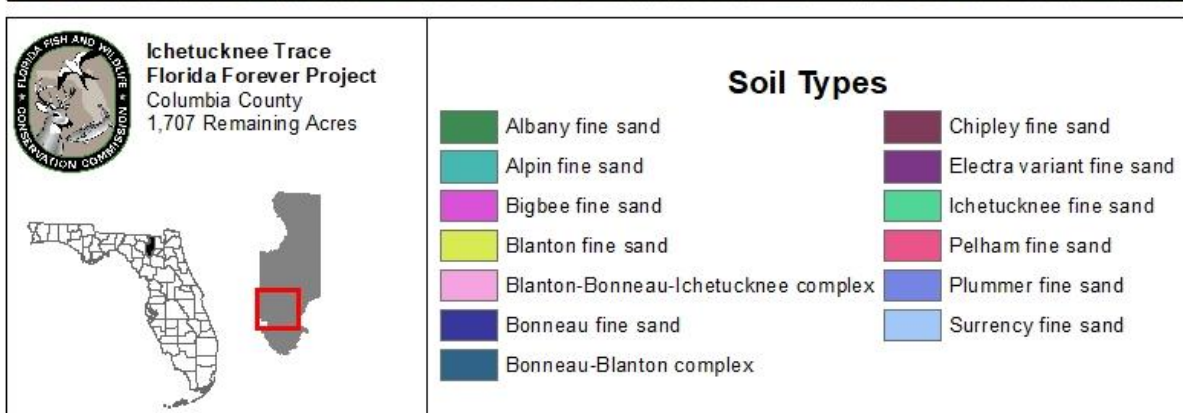
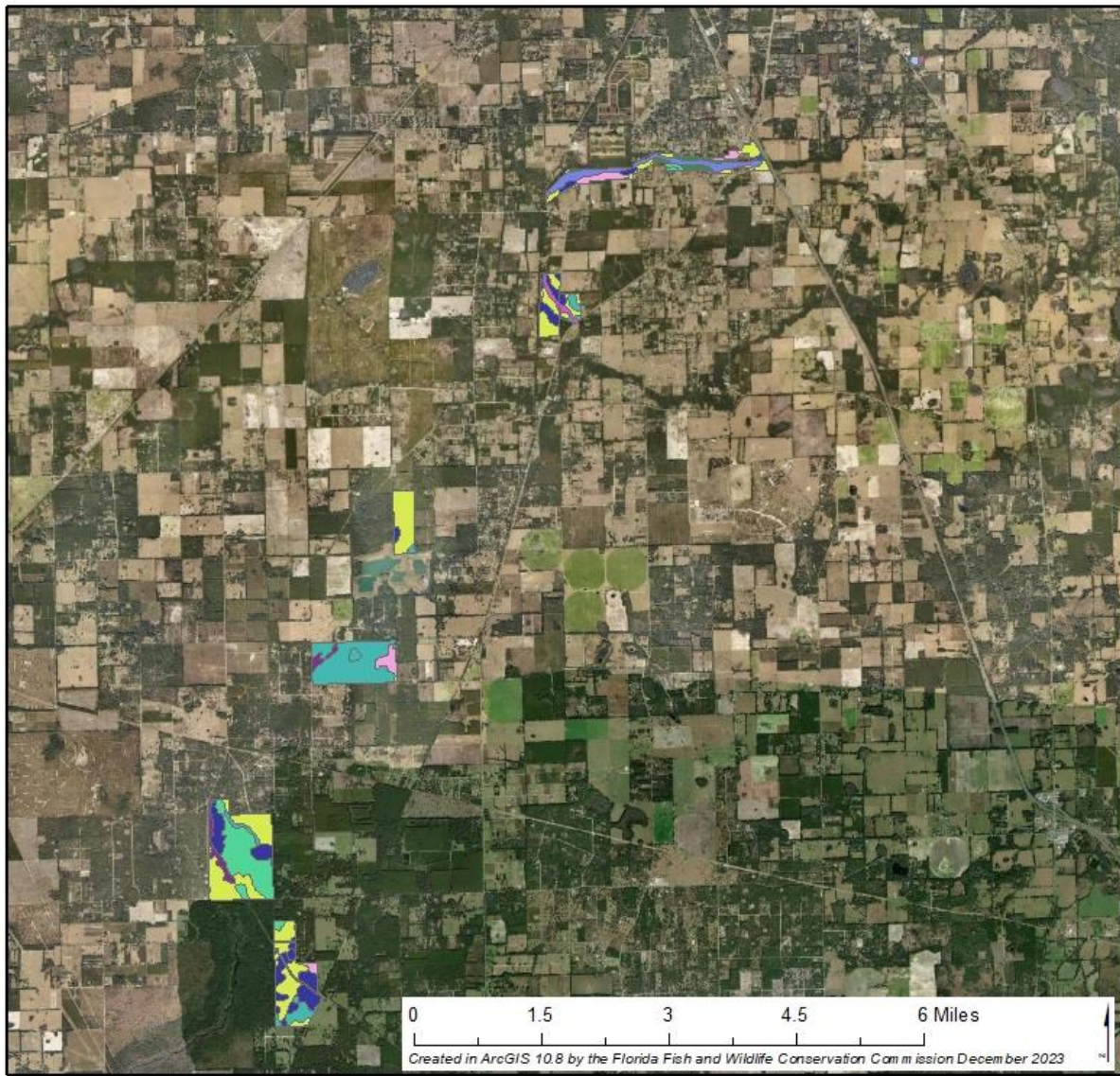
Ichetucknee Trace
Florida Forever Project
 Columbia County
 1,707 Remaining Acres

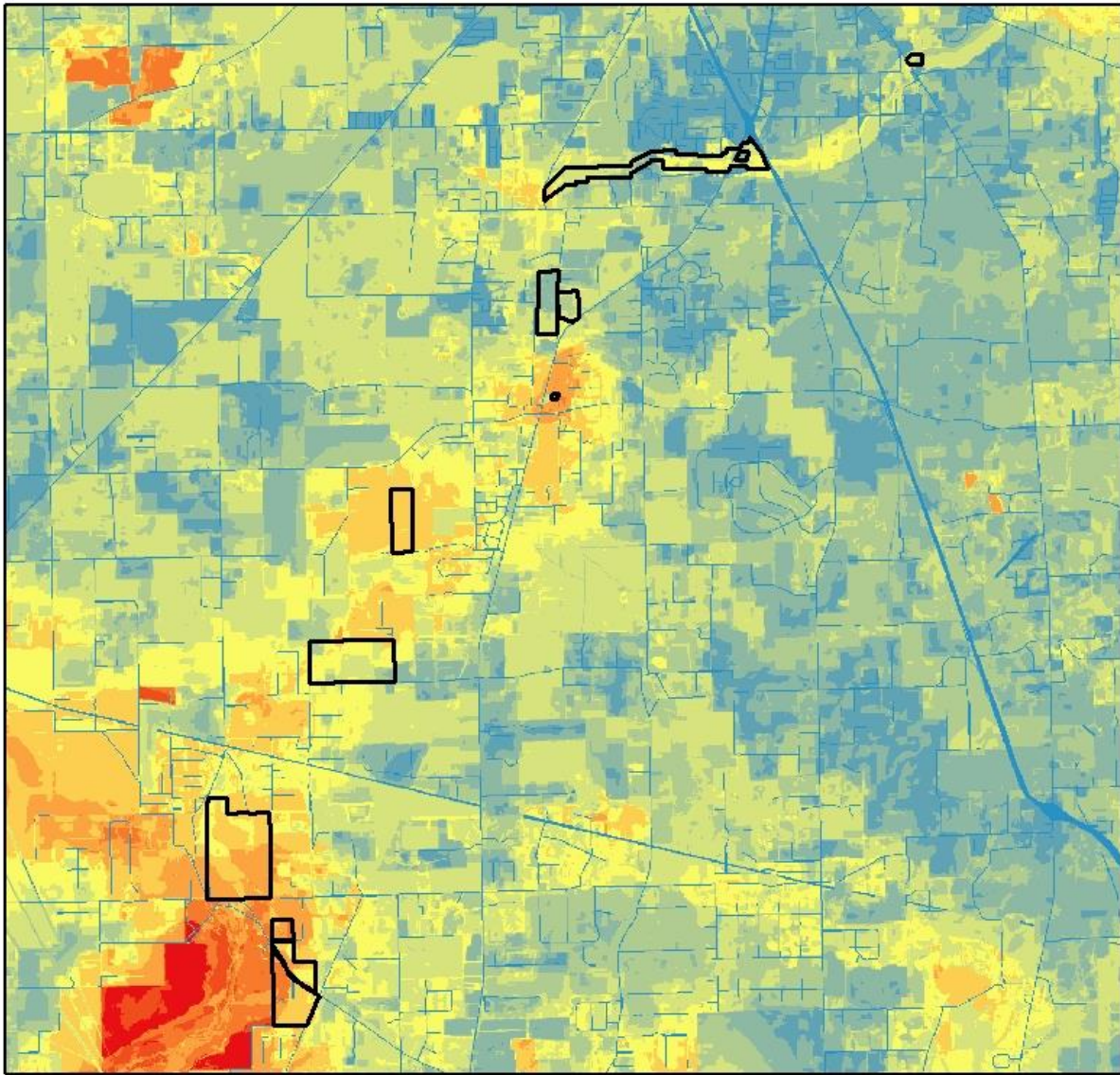


Aerial Imagery

 Ichetucknee Trace Boundary



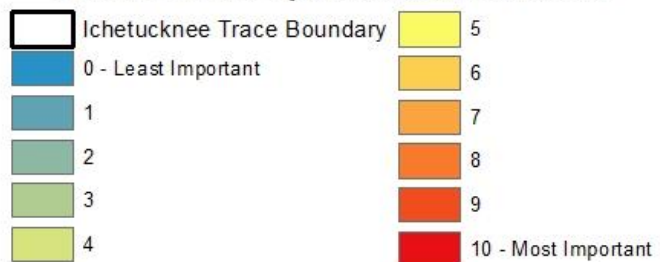




Ichetucknee Trace
Florida Forever Project
 Columbia County
 1,707 Remaining Acres



Florida Landscape Assessment Model



FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	23.4
	1	11.4
	2	72.7
	3	171.7
	4	310.7
	5	310.8
	6	443.9
	7	258.4
	8	105.2
	9	0.3
	10	0.0
Mean FLAM value =	5.1	

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: 11012023 08:58:48

Shape Name: Unnamed polygon centered at -82.69321 °, 30.047304 °

Boundary Area: 1706.11 acres

Buffer Area: 0 acres

Total Area: 1706.11 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
High Intensity Urban	1822	Institutional	18225	0.12	0.01 %
Wet Flatwoods	2221	Hydric Pine Flatwoods	22211	6.86	0.4 %
Cropland/Pasture	18331	Field Crops	183312	5.05	0.3 %
Cultural - Lacustrine	3200	Artificial Impoundment/Reservoir	3220	0.08	0 %
High Intensity Urban	1822	Residential, Med. Density - 2-5 Dwelling Units/AC	18221	11.53	0.68 %
High Intensity Urban	1822	Commercial and Services	18223	0.19	0.01 %
Vineyard and Nurseries	18334	Ornamentals	183343	4.21	0.25 %
Other Agriculture	18335	Specialty Farms	183352	8.33	0.49 %
Transportation	1840	Transportation	1840	18.57	1.09 %
Improved Pasture	183313	Improved Pasture	183313	308.82	18.1 %
Rural	1830	Unimproved/Woodland Pasture	183314	211.10	12.37 %
Tree Plantations	18333	Coniferous plantation	183332	233.97	13.71 %
Mesic Flatwoods	1311	Mesic Flatwoods	1311	0.08	0 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	404.51	23.71 %
Successional hardwood forest	1410	Successional hardwood forest	1410	1.98	0.12 %
Upland Hardwood Forest	1110	Upland Hardwood Forest	1110	184.62	10.82 %
High Pine and Scrub	1200	Upland Coniferous	1230	20.49	1.2 %
Upland Pine	1231	Upland Pine	1231	0.00	0 %
Communication	1850	Communication	1850	3.36	0.2 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	7.37	0.43 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	117.07	6.86 %
Shrub and Brushland	1500	Shrub and Brushland	1500	102.12	5.99 %
Rural	1830	Rural Open	1831	53.74	3.15 %
Rural	1830	Rural Structures	1832	1.94	0.11 %
TOTAL:				1,706.11	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	1,301.29	76.27 %
CLIP P1 in terrestrial	7.98	0.47 %
CLIP P2 in terrestrial	383.36	22.47 %
TOTAL:	1,692.63	99.21 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	246.00	14.42 %
2	827.80	48.52 %
3	632.30	37.06 %
TOTAL:	1,706.11	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	133.63	7.83 %
1	68.15	3.99 %
2	902.77	52.91 %
3	591.29	34.66 %
4	10.27	0.6 %
TOTAL:	1,706.11	100 %

Priority FWC Strategic Habitat Conservation Areas 2021

Priority	Total Area (acres)	Percent of Area
0	991.03	58.09 %
2	3.82	0.22 %
3	536.32	31.44 %
5	174.94	10.25 %
TOTAL:	1,706.11	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						232.58	13.63 %
Cooper's hawk						168.38	9.87 %
Cooper's hawk	American swallow-tailed kite					307.24	18.01 %
Cooper's hawk	Striped newt	American swallow-tailed kite				0.48	0.03 %
Florida mouse						0.20	0.01 %
Striped newt						0.13	0.01 %
						TOTAL: 709.01	41.56 %
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		286.52			16.79 %		
Occasional		1,419.58			83.21 %		
TOTAL:		1,706.11			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			1,151.00		67.46 %
Suwannee bass		Micropterus notius			1,151.00		67.46 %
		TOTAL:			2,302.01		134.93 %
Southern bald eagle nest							
No Records Found							
Imperiled Species Richness							
Number of Species		Total Area (acres)			Percent of Area		
0		233.31			13.68 %		
1		284.57			16.68 %		
2		1.42			0.08 %		
3		297.72			17.45 %		
4		140.19			8.22 %		
5		283.49			16.62 %		
6		177.56			10.41 %		
7		287.85			16.87 %		
TOTAL:		1,706.11			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	BC	2004-03-22	3.30	0.19 %	
Eastern Indigo Snake	Drymarchon couperi	G3	S2?	FT	T	H?	1981	145.25	8.51 %	
Florida Black Bear	Ursus americanus floridanus	G5T4	S4	N	N	B	2020-11-19	12.55	0.74 %	
Gopher Tortoise	Gopherus polyphemus	G3	S3	ST	N	C	2003-08-14	0.72	0.04 %	
Gopher Tortoise	Gopherus polyphemus	G3	S3	ST	N	E	1987 pre	77.60	4.55 %	
Say's Spiketail	Cordulegaster sayi	G3	S3	N	N	H	1897-03-28	12.55	0.74 %	
Southeastern Fox Squirrel	Sciurus niger niger	G5T5	S3	N	N	BC	2010-10-05	231.44	13.57 %	
Swallow-tailed Kite	Elanoides forficatus	G5	S2	N	N	AC	2003-07	0.48	0.03 %	
Torreyia Trap-door Spider	Cyclocosmia torreyia	GNR	S2	N	N	H	1967-04-04	0.02	0 %	
								TOTAL:	483.91	28.36 %
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			172.85		10.13 %		
Florida spiny-pod			Matelea floridana			5.10		0.3 %		

giant orchid	Pteroglossaspis ecristata	303.43	17.78 %
Gopher Frog	Lithobates capito	172.85	10.13 %
Hobbs's Cave Amphipod	Crangonyx hobbsi	2.78	0.16 %
incised groove-bur	Agrimonia incisa	332.14	19.47 %
North Florida Spider Cave Crayfish	Troglocambarus maclanei	2.78	0.16 %
Pallid Cave Crayfish	Procambarus pallidus	2.78	0.16 %
Short-tailed Snake	Lampropeltis extenuata	12.15	0.71 %
Southern Hognose Snake	Heterodon simus	2.15	0.13 %
Wood Stork	Mycteria americana	7.44	0.44 %
	TOTAL:	1,016.46	59.58 %

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
4	814.29	47.73 %
TOTAL:	814.29	47.73 %

Water Resources

FDEP Surface Water Classification

Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
ALLIGATOR LAKE OUTLET	STREAM	3516	3F	287.92	16.88 %
ICHETUCKNEE RIVER	STREAM	3519	3F	1,246.79	73.08 %
CANNON CREEK	STREAM	3520	3F	6.19	0.36 %
UNNAMED DRAIN	STREAM	3522	3F	162.31	9.51 %
ROSE CREEK	STREAM	3531	3F	2.90	0.17 %
			TOTAL:	1,706.11	100 %

Outstanding Florida Waters

Name	OFW Type	Total Area (acres)	Percent of Area
Ichetucknee Springs State Park	Other	8.67	0.51 %
Rose Sink (addition to Ichetucknee Springs State Park)	Other	1.90	0.11 %
	TOTAL:	10.56	0.62 %

Florida Geological Survey Springs

No Records Found

National Wetlands Inventory

Wetland Type	Wetland Code	Total Area (acres)	Percent of Area
FRESHWATER POND	PAB4H	0.26	0.02 %
FRESHWATER EMERGENT WETLAND	PEM1C	0.52	0.03 %
FRESHWATER EMERGENT WETLAND	PEM1A	2.93	0.17 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1A	8.07	0.47 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6C	7.25	0.43 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6F	7.90	0.46 %
FRESHWATER POND	PUBH	1.68	0.1 %
RIVERINE	R5UBH	2.94	0.17 %
RIVERINE	R2UBHx	0.50	0.03 %
FRESHWATER POND	PUBHx	1.00	0.06 %
	TOTAL:	33.05	1.94 %

Priority Floodplain Resources

Priority	Total Area (acres)	Percent of Area
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0	1,521.95	89.21 %
4	90.70	5.32 %
6	28.72	1.68 %
5	64.23	3.76 %
2	0.51	0.03 %
TOTAL:	1,706.11	100 %