

Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Ochlockonee River Conservation Area
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 **Ochlockonee River Conservation Area** 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

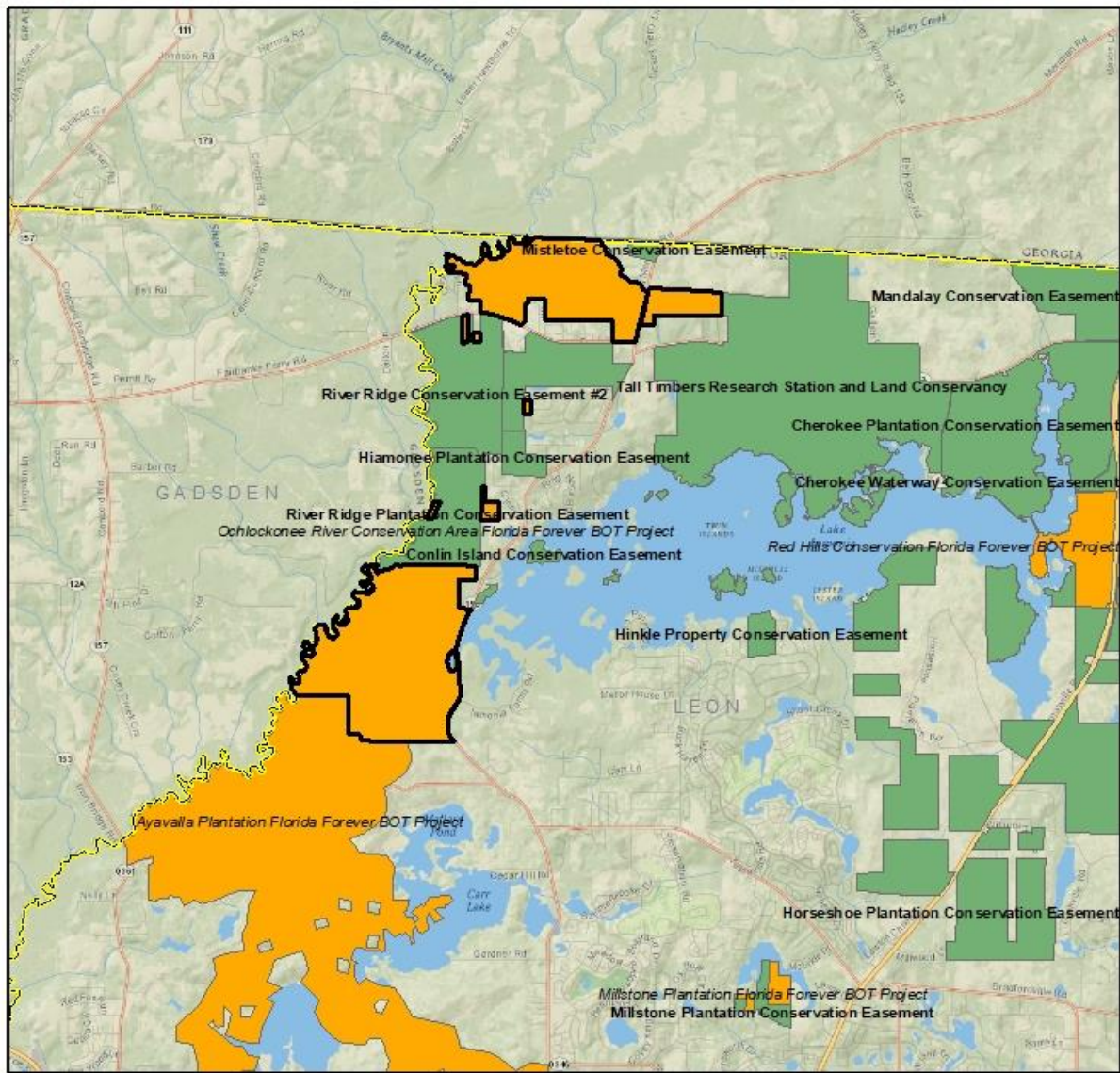
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review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



**Ochlockonee River
Conservation Area
Florida Forever Project**
Leon County
3,057 Remaining Acres



0 1.5 3 4.5 6 Miles

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Vicinity Map

- Ochlockonee River Conservation Area Boundary
- County Boundaries
- Conservation Lands
- Florida Forever Projects



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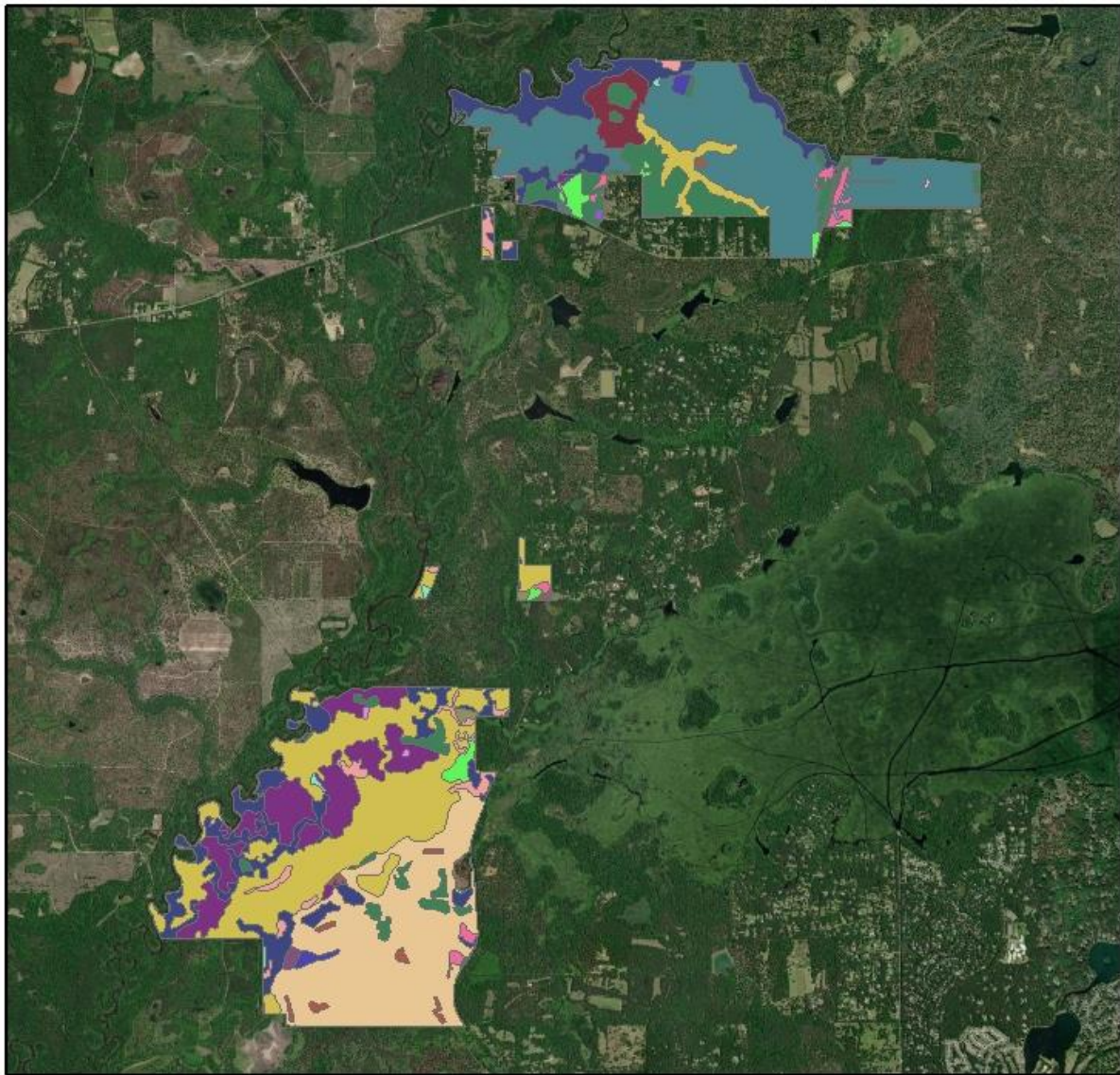


0 0.75 1.5 2.25 3 Miles

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Aerial Imagery

 Ochlockonee River Conservation Area Boundary



**Ochlockonee River
Conservation Area**
Florida Forever Project
Leon County
3,057 Remaining Acres

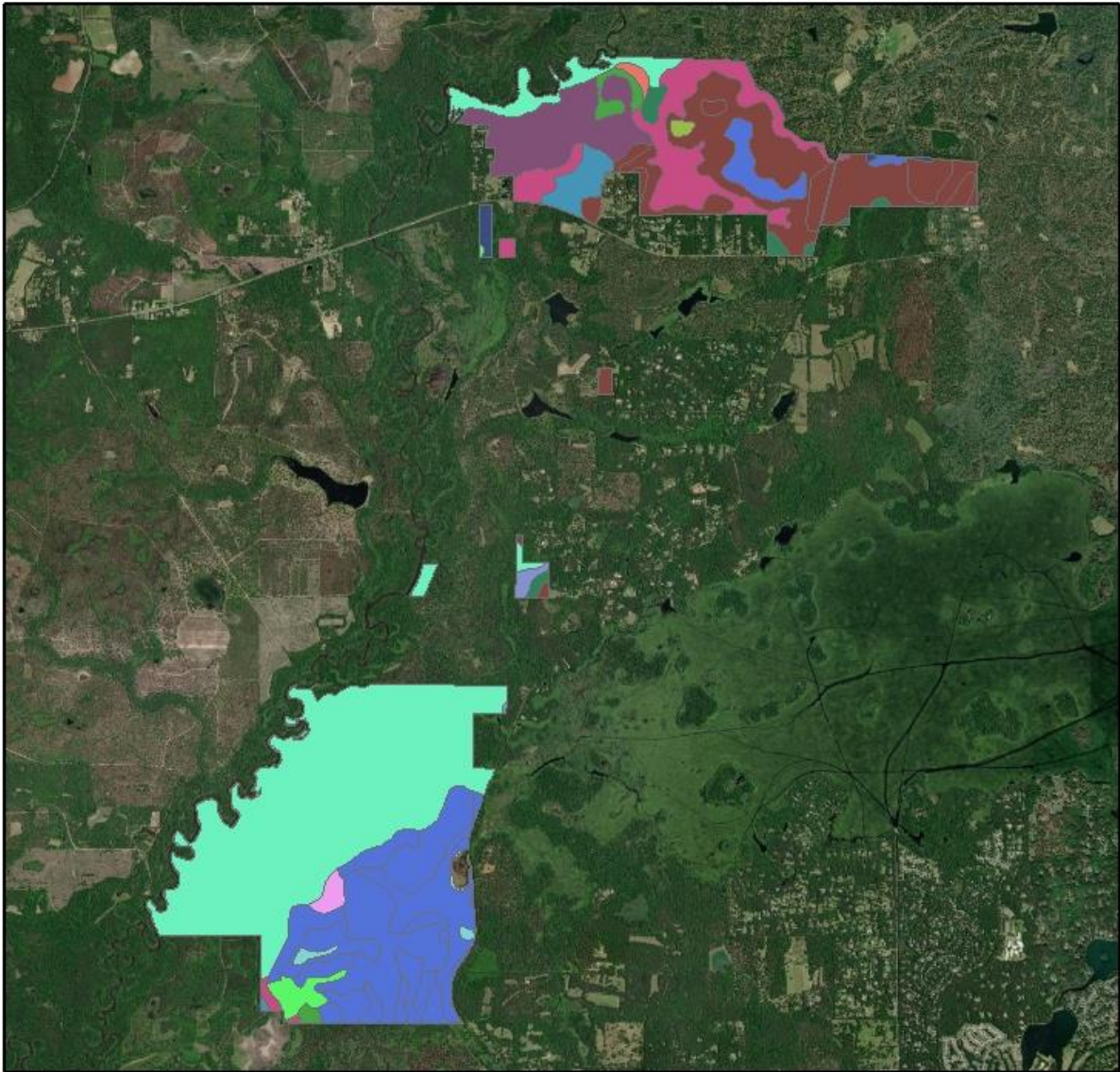


0 0.75 1.5 2.25 3 Miles

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Cooperative Land Cover

Artificial Impoundment/Reservoir	Mesic Flatwoods	Rural Structures
Coniferous Plantations	Mixed Hardwood-Coniferous	Shrub and Brushland
Cypress	Mixed Hardwood-Coniferous Swamps	Transportation
Field Crops	Mixed Wetland Hardwoods	Unimproved/Woodland Pasture
Hydric Pine Flatwoods	Natural Lakes and Ponds	Upland Coniferous
Improved Pasture	Natural Rivers and Streams	Upland Hardwood Forest
Lacustrine	Residential, Med. Density	Upland Mixed Woodland
Marshes	Rural Open	Wet Coniferous Plantations
		Wet Prairie



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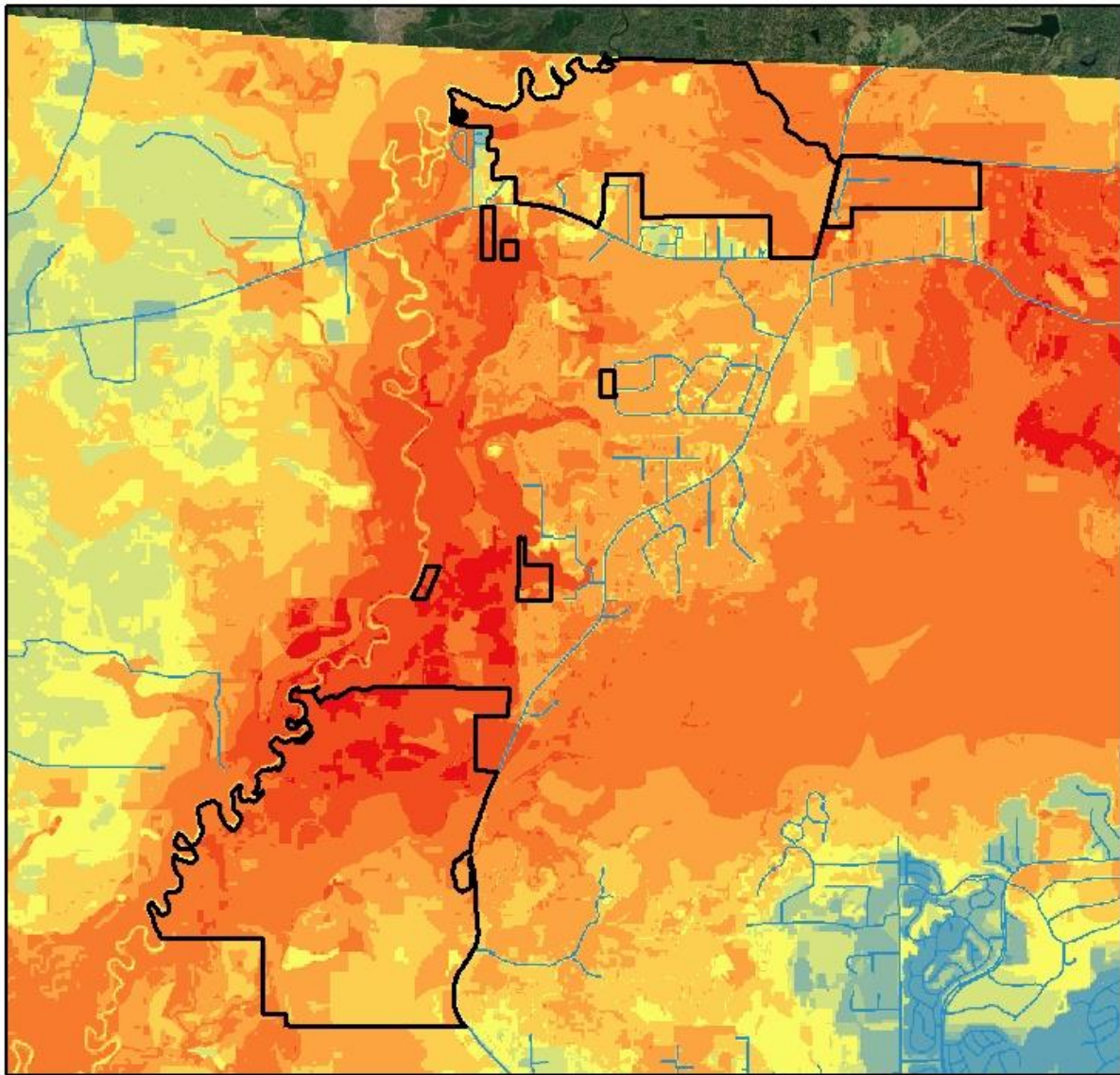


0 0.75 1.5 2.25 3 Miles

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Soil Types

Albany loamy sand	Meggett soils
Blanton fine sand	Orangeburg fine sandy loam
Dothan loamy fine sand	Pelham fine sand
Faceville sandy loam	Plummer fine sand
Fuquay fine sand	Troup fine sand
Lee field loamy sand	Wagram loamy fine sand
Lucy fine sand	Water
Lynchburg fine sandy loam	



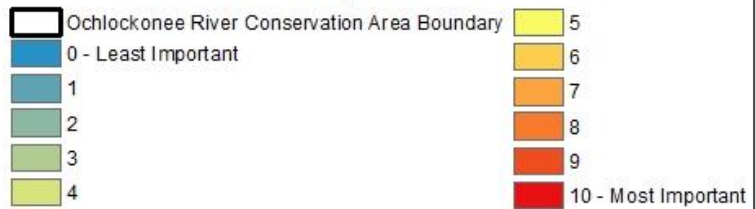
**Ochlockonee River
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0 0.75 1.5 2.25 3 Miles

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Florida Landscape Assessment Model



FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	10.2
	1	0.0
	2	0.1
	3	0.7
	4	0.9
	5	35.8
	6	295.3
	7	954.7
	8	1094.8
	9	561.7
	10	104.6
Mean FLAM value =	7.7	

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: 11052024 08:32:56

Shape Name: Unnamed polygon centered at -84.28613 °, 30.643427 °

Boundary Area: 3057.13 acres

Buffer Area: 0 acres

Total Area: 3057.13 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
Alluvial Stream	4100	Natural Rivers and Streams	4100	3.40	0.11 %
High Intensity Urban	1822	Residential, Med. Density - 2-5 Dwelling Units/AC	18221	0.89	0.03 %
Wet Flatwoods	2221	Hydric Pine Flatwoods	22211	262.10	8.57 %
Lacustrine	3000	Lacustrine	3000	0.67	0.02 %
Natural Lakes and Ponds	3100	Natural Lakes and Ponds	3100	0.37	0.01 %
Cultural-Lacustrine	3200	Artificial Impoundment/Reservoir	3220	15.72	0.51 %
Tree Plantations	18333	Coniferous Plantations	183332	223.50	7.31 %
Tree Plantations	18333	Wet Coniferous Plantations	1833321	6.78	0.22 %
Transportation	1840	Transportation	1840	8.67	0.28 %
Cropland/Pasture	18331	Field Crops	183312	19.53	0.64 %
Improved Pasture	183313	Improved Pasture	183313	0.65	0.02 %
Rural	1830	Unimproved/Woodland Pasture	183314	63.44	2.07 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	667.13	21.82 %
Dry Flatwoods	1310	Mesic Flatwoods	1311	42.47	1.39 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	19.45	0.64 %
Shrub and Brushland	1500	Shrub and Brushland	1500	5.96	0.19 %
Upland Hardwood Forest	1110	Upland Hardwood Forest	1110	3.21	0.11 %
High Pine and Scrub	1200	Upland Mixed Woodland	1220	576.38	18.85 %
High Pine and Scrub	1200	Upland Coniferous	1230	645.90	21.13 %
Marshes	2120	Marshes	2120	0.65	0.02 %
Cypress	2211	Cypress	2211	58.24	1.91 %
Freshwater Forested Wetlands	2200	Mixed Wetland Hardwoods	2233	392.82	12.85 %
Rural	1830	Rural Open	1831	34.44	1.13 %
Rural	1830	Rural Structures	1832	2.39	0.08 %
Prairies and Bogs	2110	Wet Prairie	2111	2.38	0.08 %
TOTAL:				3,057.12	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	277.45	9.08 %
CLIP P1 in submerged lands/state waters	46.51	1.52 %
CLIP P1 in terrestrial	1,604.32	52.48 %
CLIP P2 in submerged lands/state waters	9.69	0.32 %
CLIP P2 in terrestrial	1,112.64	36.39 %
TOTAL:	3,050.61	99.79 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	0.04	0 %
2	57.15	1.87 %
3	2,999.93	98.13 %
TOTAL:	3,057.13	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	34.42	1.13 %
1	36.24	1.19 %
2	115.12	3.77 %
3	731.66	23.93 %
4	819.41	26.8 %
5	1,320.27	43.19 %
TOTAL:	3,057.13	100 %

Priority FWC Strategic Habitat Conservation Areas 2024

Priority	Total Area (acres)	Percent of Area
3	2,367.88	77.45 %

5	358.96	11.74 %
TOTAL:	2,726.84	89.2 %
FWC Strategic Habitat Conservation Areas 2024		
Species 1	Species 2	Species 3 Species 4 Species 5 Species 6 Total Area (acres) Percent of Area
American swallow-tailed kite		1,425.79 46.64 %
Cooper's hawk		358.96 11.74 %
Cooper's hawk	American swallow-tailed kite	942.09 30.82 %
		TOTAL: 2,726.84 89.2 %
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	1,837.44	60.1 %
Occasional	1,187.46	38.84 %
Rare	32.23	1.05 %
TOTAL:	3,057.13	100 %
Rare Fish		
No Records Found		
Rare Fish Imperiled Waters		
COMMON NAME	SCIENTIFIC NAME	Total Area (acres) Percent of Area
Spotted bullhead	Ameiurus serracanthus	1,532.18 50.12 %
Suwannee bass	Micropterus notius	2,677.56 87.58 %
		TOTAL: 4,209.75 137.7 %
Southern bald eagle nest		
No Records Found		
Imperiled Species Richness		
Number of Species	Total Area (acres)	Percent of Area
0	116.63	3.82 %
1	37.02	1.21 %
2	19.61	0.64 %
3	2.93	0.1 %
4	10.31	0.34 %
5	1,173.82	38.4 %
6	599.87	19.62 %
7	871.60	28.51 %
8	225.31	7.37 %
TOTAL:	3,057.13	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	
Alligator Snapping Turtle	Macrochelys temminckii	G3	S3	N	PT	AB	2018-04-11	476.97	15.6 %	
American Alligator	Alligator mississippiensis	G5	S4	FT(S/A)	SAT	B	2020-05-03	476.97	15.6 %	
Barbour's Map Turtle	Graptemys barbouri	G2	S2	ST	SAT	BC	2014-05-20	4.17	0.14 %	
Bicolored Burrowing Scarab Beetle	Bolbocerosoma hamatum	G3G4	S3	N	N	E	1970-11-09	2.21	0.07 %	
Cartwright's Mycotrupes Beetle	Mycotrupes cartwrighti	G3	S2	N	N	E	1994 pre	2.21	0.07 %	
Clemens' June Beetle	Phyllophaga clemens	G2	S1	N	N	E	1989 pre	2.21	0.07 %	
Eastern Kingsnake	Lampropeltis getula	G5	S1S2	N	N	D	1983	0.00	0 %	
Florida Black Bear	Ursus americanus floridanus	G5T4	S4	N	N	BC	2022-07-06	973.60	31.85 %	
Flyr's brickell-bush	Brickellia cordifolia	G3	S2	E	N	BC	2004-10-26	0.02	0 %	
Inflated Spike	Elliptio purpurella	G2	S2	N	N	AC	2010-11-11	24.69	0.81 %	
Little Blue Heron	Egretta caerulea	G5	S4	ST	N	E	1978-08	21.60	0.71 %	
Mat Red Globe Scarab Beetle	Eucanthus alutaceus	G2G3	S2	N	N	E	1969-03-04	2.21	0.07 %	
Purple Bankclimber	Elliptioideus sloatianus	G2	S1	FT	T	B	2011-09-11	2.29	0.07 %	
Sculptured Pigtoe	Pustulosa infucata	G3	S1	N	N	BD	2014 pre	24.69	0.81 %	
Similar Cebrionid Beetle	Selonodon similis	G1	S1	N	N	H?	1972-07-16 -- 1972-07-22	2.21	0.07 %	
Southeastern Weasel	Mustela frenata olivacea	G5T4	S3?	N	N	E	1967-01-11	241.70	7.91 %	

Southeastern Weasel	Mustela frenata olivacea	G5T4	S3?	N	N	H	1967-02-12	331.57	10.85 %
Spiny Softshell	Apalone spinifera	G5	S3	N	N	AB	2014-05-20	24.69	0.81 %
Spotted Bullhead	Ameiurus serracanthus	G3	S3	N	N	E	1988-12	0.98	0.03 %
Turk's cap lily	Lilium superbum	G5	S1	E	N	E	1988-08-12	706.86	23.12 %
White Ibis	Eudocimus albus	G5	S4	N	N	E	1978-08	21.60	0.71 %
White-breasted Nuthatch	Sitta carolinensis	G5	S2	N	N	AC	2004-10-26	0.48	0.02 %
ZZ	Bird Rookery	G5	SNRB	N	N	E	1978-08	21.60	0.71 %
ZZ	Upland hardwood forest	G5	S3	N	N	BC	2004-10-26	0.02	0 %
TOTAL:								3,365.52	110.09 %

Suitable Habitat that Supports Species Known to Occur in the Vicinity

COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area
Alligator Snapping Turtle	Macrochelys temminckii	1,608.60	52.62 %
Apalachicola Floater	Anodonta heardi	470.87	15.4 %
Barbour's Map Turtle	Graptemys barbouri	1,502.81	49.16 %
Cartwright's Mycotrupes Beetle	Mycotrupes cartwrighti	147.30	4.82 %
Flyr's brickell-bush	Brickellia cordifolia	28.25	0.92 %
Inflated Spike	Elliptio purpurella	1,502.81	49.16 %
Ochlockonee Moccasinshell	Medionidus simpsonianus	470.87	15.4 %
Oval Pigtoe	Pleurobema pyriforme	470.87	15.4 %
Purple Bankclimber	Elliptioideus sloatianus	1,502.81	49.16 %
Red-cockaded Woodpecker	Dryobates borealis	136.77	4.47 %
Sculptured Pigtoe	Quadrula infucata	1,502.20	49.14 %
Shiny-rayed Pocketbook	Hamiota subangulata	1,502.81	49.16 %
Wood Stork	Mycteria americana	453.64	14.84 %
TOTAL:		11,300.58	369.65 %

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	2,446.83	80.04 %
5	608.11	19.89 %
TOTAL:	3,054.94	99.93 %

Water Resources

FDEP Surface Water Classification

Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
OCHLOCKONEE RIVER	STREAM	1297F	3F	1,452.30	47.51 %
LAKE IAMONIA DRAIN	STREAM	442A	3F	1,378.25	45.08 %
TALL TIMBERS CREEK	STREAM	442B	3F	28.02	0.92 %
MERIDIAN HILLS BRANCH	STREAM	449	3F	192.14	6.28 %
UNNAMED BRANCH	STREAM	474	3F	6.36	0.21 %
TOTAL:				3,057.07	100 %

Outstanding Florida Waters

Name	OFW Type	Total Area (acres)	Percent of Area
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Ochlockonee River	Special	1,253.42	41 %
TOTAL:		1,253.42	41 %
Florida Geological Survey Springs			
No Records Found			
National Wetlands Inventory			
Wetland Type	Wetland Code	Total Area (acres)	Percent of Area
FRESHWATER EMERGENT WETLAND	PEM1/AB4F	2.72	0.09 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/EM1A	42.31	1.38 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/4A	147.44	4.82 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/3A	157.34	5.15 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6C	332.46	10.87 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/3C	403.16	13.19 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6F	12.65	0.41 %
RIVERINE	R4SBC	2.12	0.07 %
FRESHWATER POND	PUBHx	2.32	0.08 %
FRESHWATER POND	PUBHh	2.82	0.09 %
RIVERINE	R5UBH	0.02	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/4C	7.72	0.25 %
RIVERINE	R2UBH	2.83	0.09 %
TOTAL:		1,115.91	36.5 %
Priority Floodplain Resources			
Priority	Total Area (acres)	Percent of Area	
2	567.30	18.56 %	
1	803.37	26.28 %	
3	111.46	3.65 %	
4	4.37	0.14 %	
0	1,570.63	51.38 %	
TOTAL:	3,057.13	100 %	