

**Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Pinhook Swamp Florida Forever Project Analysis
December 2025**



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 **Pinhook Swamp** 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

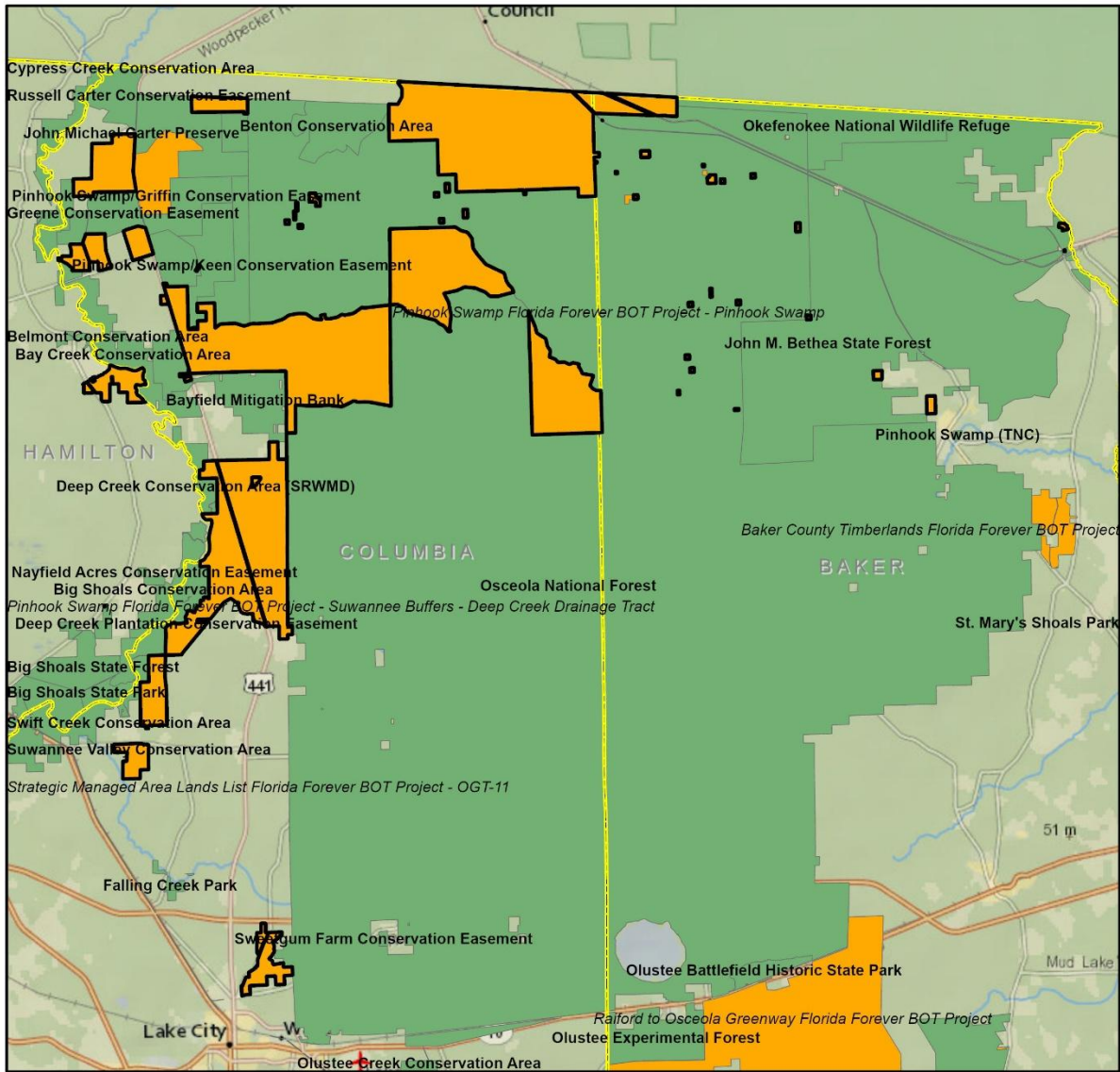
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review 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) is 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 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. The FLAM ranks habitat from 0-10; a rank of 10 being of greatest value. **The FLAM score for this project is 7.46.**

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



**Pinhook Swamp
Florida Forever Project**
Baker, Columbia,
and Hamilton Counties
38,653 Acres

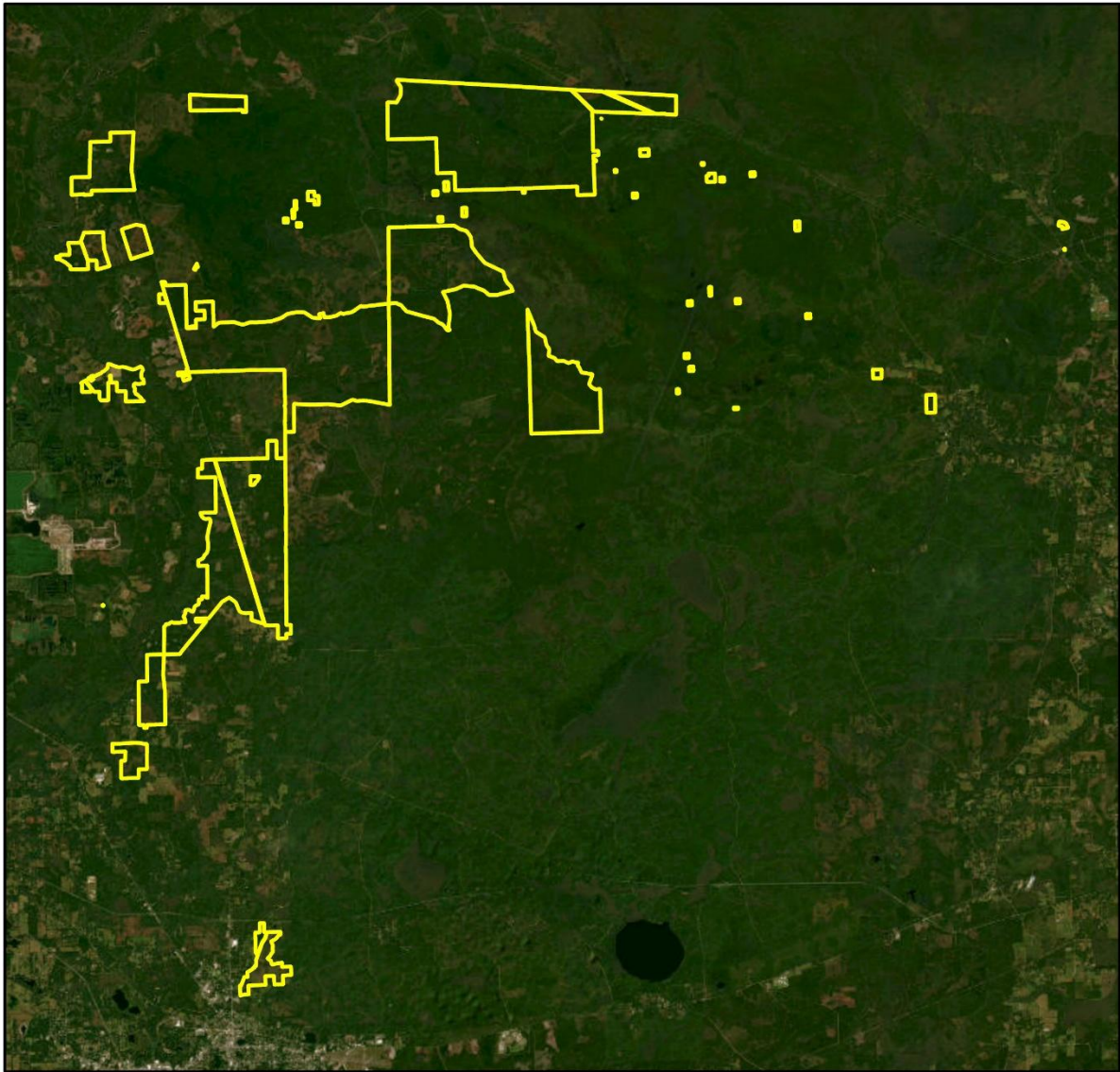


0 4 8 12 16 Miles

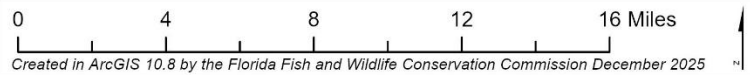
Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2025

Vicinity Map

- Pinhook Swamp Boundary
- County Boundaries
- Conservation Lands
- Florida Forever Projects

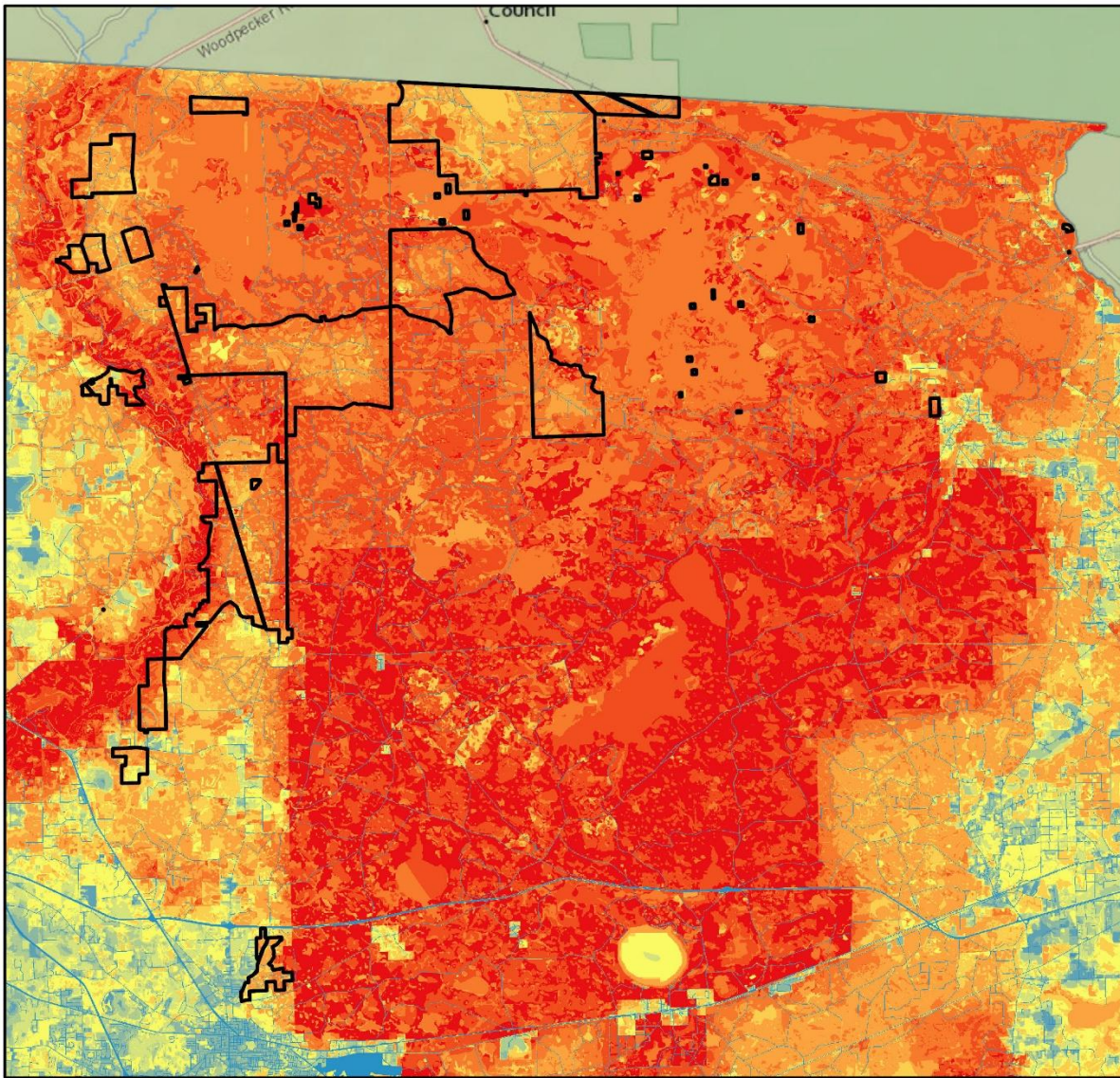


Pinhook Swamp
Florida Forever Project
Baker, Columbia,
and Hamilton Counties
38,653 Acres

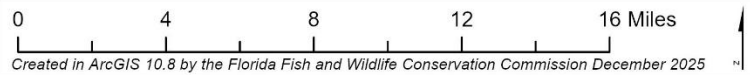
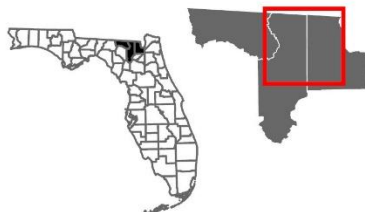


Aerial Imagery

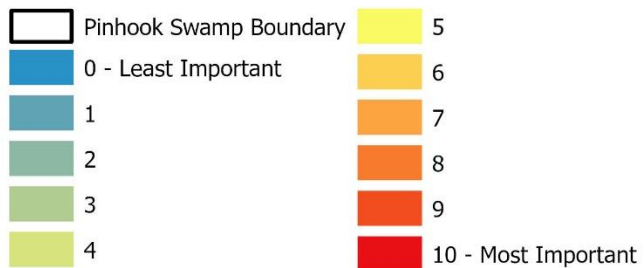
 Pinhook Swamp Boundary



Pinhook Swamp
Florida Forever Project
 Baker, Columbia,
 and Hamilton Counties
 38,653 Acres



Florida Landscape Assessment Model



Environmental Resource Analysis

FWC Land Conservation and Planning

Analysis Shape Type: Polygon

Analysis Timestamp: 10312025 11:39:13

Shape Name: Unnamed polygon centered at -82.476439 °, 30.398955 °

Boundary Area: 38652.5 acres

Buffer Area: 0 acres

Total Area: 38652.5 acres

FWC Wildlife Data and Models

Cooperative Land Cover v3.8

Name - State	Code - State	Name - Site	Code - Site	Total Area (acres)	Percent of Area
Rural	1830	Rural Open Forested	18311	32.14	0.08 %
High Intensity Urban	1822	Institutional	18225	2.33	0.01 %
Orchards/Groves	18332	Orchards/Groves	18332	2.42	0.01 %
Wet Flatwoods	2221	Hydric Pine Flatwoods	22211	2,569.77	6.65 %
Basin Swamp	22132	Basin Swamp	22132	0.93	0 %
Alluvial Stream	4100	Natural Rivers and Streams	4100	3.45	0.01 %
Cultural-Lacustrine	3200	Artificial Impoundment/Reservoir	3220	16.09	0.04 %
Low Intensity Urban	1821	Residential, Low Density	18212	24.38	0.06 %
High Intensity Urban	1822	Commercial and Services	18223	5.24	0.01 %
High Intensity Urban	1822	Residential, Med. Density - 2-5 Dwelling Units/AC	18221	7.99	0.02 %
Baygall	2231	Bay Swamp	22311	437.46	1.13 %
Cropland/Pasture	18331	Irrigated Row Crops	1833111	45.36	0.12 %
Dome Swamp	22131	Gum Pond	221312	68.36	0.18 %
Tree Plantations	18333	Wet Coniferous Plantations	1833321	740.70	1.92 %
Transportation	1840	Transportation	1840	941.86	2.44 %
Dome Swamp	22131	Dome Swamp	22131	0.00	0 %
Improved Pasture	183313	Improved Pasture	183313	350.73	0.91 %
Cropland/Pasture	18331	Field Crops	183312	100.42	0.26 %
Rural	1830	Unimproved/Woodland Pasture	183314	119.83	0.31 %
Other Agriculture	18335	Specialty Farms	183352	0.00	0 %
Tree Plantations	18333	Coniferous Plantations	183332	19,612.39	50.74 %
Rural	1830	Rural Open	1831	390.02	1.01 %
Shrub and Brushland	1500	Shrub and Brushland	1500	164.60	0.43 %
Rural	1830	Rural Structures	1832	43.83	0.11 %
Bare Soil/Clear Cut	1880	Bare Soil/Clear Cut	1880	189.80	0.49 %
Communication	1850	Communication	1850	2.70	0.01 %
High Pine and Scrub	1200	Upland Coniferous	1230	18.93	0.05 %
Upland Hardwood Forest	1110	Upland Hardwood Forest	1110	377.47	0.98 %
Sandhill	1240	Sandhill	1240	1.91	0 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	726.01	1.88 %
Mesic Flatwoods	1310	Mesic Flatwoods	1311	406.79	1.05 %
Prairies and Bogs	2110	Wet Prairie	2111	92.76	0.24 %
Baygall	2231	Baygall	2231	28.30	0.07 %
Wet Flatwoods	2221	Wet Flatwoods	2221	4.14	0.01 %
Freshwater Forested Wetlands	2200	Mixed Wetland Hardwoods	2233	956.43	2.47 %
Natural Lakes and Ponds	3100	Natural Lakes and Ponds	3100	0.51	0 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	5,619.78	14.54 %
Marshes	2120	Marshes	2120	13.98	0.04 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	3,853.44	9.97 %
Freshwater Non-Forested Wetlands	2100	Floating/Emergent Aquatic Vegetation	2140	2.12	0.01 %
Floodplain Swamp	2215	Floodplain Swamp	2215	2.07	0.01 %
Cypress	2211	Cypress	2211	651.19	1.68 %
TOTAL:				38,628.66	99.94 %

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	8,527.01	22.06 %
CLIP P1 in submerged lands/state waters	41.88	0.11 %
CLIP P1 in terrestrial	26,808.58	69.36 %
CLIP P2 in submerged lands/state waters	5.40	0.01 %
CLIP P2 in terrestrial	3,204.15	8.29 %
TOTAL:	38,587.03	99.83 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
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0	39.43	0.1 %								
1	39.30	0.1 %								
2	27.98	0.07 %								
3	14,063.40	36.38 %								
4	2,490.66	6.44 %								
5	21,991.73	56.9 %								
TOTAL:	38,652.50	100 %								
CLIP- Biodiversity Category										
Priority	Total Area (acres)	Percent of Area								
0	86.45	0.22 %								
1	8.88	0.02 %								
2	993.45	2.57 %								
3	9,836.97	25.45 %								
4	27,711.48	71.69 %								
5	15.29	0.04 %								
TOTAL:	38,652.50	100 %								
Priority FWC Strategic Habitat Conservation Areas 2020										
Priority	Total Area (acres)	Percent of Area								
0	1,941.75	5.02 %								
2	2,452.95	6.35 %								
3	26,712.31	69.11 %								
5	7,545.49	19.52 %								
TOTAL:	38,652.50	100 %								
FWC Strategic Habitat Conservation Areas 2024										
Species 1	Species 2	Species 3	Species 4	Species 5	Species 6	Species 7	Species 8	Species 9	Total Area (acres)	Percent of Area
Cooper's hawk									863.09	2.23 %
Cooper's hawk	Florida black bear								1,428.77	3.7 %
Cooper's hawk	Florida black bear	Gray bat							85.74	0.22 %
Cooper's hawk	Gray bat								3.06	0.01 %
Cooper's hawk	Striped newt								0.80	0 %
Cooper's hawk	Striped newt	Florida black bear							0.76	0 %
Florida black bear									5,227.82	13.53 %
Florida black bear	Gray bat								109.19	0.28 %
Gray bat									13.07	0.03 %
Striped newt									2.63	0.01 %
Striped newt	Florida black bear								4.70	0.01 %
Swallow-tailed kite									367.33	0.95 %
Swallow-tailed kite	Cooper's hawk								430.90	1.11 %
Swallow-tailed kite	Cooper's hawk	Florida black bear							13,424.67	34.73 %
Swallow-tailed kite	Cooper's hawk	Florida black bear	Gray bat						1,709.81	4.42 %
Swallow-tailed kite	Cooper's hawk	Gray bat							26.55	0.07 %
Swallow-tailed kite	Cooper's hawk	Striped newt							0.63	0 %
Swallow-tailed kite	Cooper's hawk	Striped newt	Florida black bear						17.39	0.04 %
Swallow-tailed kite	Florida black bear								12,465.56	32.25 %
Swallow-tailed kite	Florida black bear	Gray bat							454.27	1.18 %
Swallow-tailed kite	Gray bat								14.73	0.04 %
Swallow-tailed kite	Striped newt								0.06	0 %
Swallow-tailed kite	Striped newt	Florida black bear							0.17	0 %
TOTAL:									36,651.70	94.82 %
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	11,723.21	30.33 %	
Frequent	26,916.67	69.64 %	
TOTAL:	38,639.88	99.97 %	
Rare Fish			
No Records Found			
Rare Fish Imperiled Waters			
COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area
Blackbanded sunfish	Enneacanthus chaetodon	20.64	0.05 %
Eastern mudminnow	Umbra pygmaea	13,740.59	35.55 %
Spotted bullhead	Ameiurus serracanthus	4,453.02	11.52 %
Suwannee bass	Micropterus notius	3,881.30	10.04 %
	TOTAL:	22,095.56	57.16 %
Southern bald eagle nest			
No Records Found			
Imperiled Species Richness			
Number of Species	Total Area (acres)	Percent of Area	
0	2,334.96	6.04 %	
1	246.82	0.64 %	
2	33.62	0.09 %	
3	17,175.19	44.43 %	
4	10,534.16	27.25 %	
5	5,173.78	13.39 %	
6	1,503.25	3.89 %	
7	948.50	2.45 %	
8	688.64	1.78 %	
TOTAL:	38,638.94	99.96 %	

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
Alabama Shad	Alosa alabamiae	G2?	S1S2	N	N	C	2021-12-17	1.89	0 %
Belle's Sanddragon	Progomphus bellei	G3	S3	N	N	E	1998-01-13	10.04	0.03 %
Big Brown Bat	Eptesicus fuscus	G5	S3	N	N	E	1957-07-08	1,266.64	3.28 %
Florida Black Bear	Ursus americanus floridanus	G5T4	S4	N	N	B	2020-11-19	38,638.54	99.96 %
Florida hartwrightia	Hartwrightia floridana	G2G3	S2S3	T	UR	F	1929	9.85	0.03 %
Gopher Tortoise	Gopherus polyphemus	G3	S3	ST	N	CD	1984-04-03	2.06	0.01 %
Large Pocket Gopher	Dellacasiellus laevigatus	G3G4	S3?	N	N	E	1997-11-15 -- 1997-12-05	2.61	0.01 %
Little Blue Heron	Egretta caerulea	G5	S4	ST	N	E	1988-05-19	20.64	0.05 %
Many-lined Salamander	Stereochilus marginatus	G5	S1	N	N	E	1976-01-03	752.79	1.95 %
Say's Spiketail	Zoraena sayi	G3	S3	N	N	E	1897-03-28	728.77	1.89 %
Small Pocket Gopher	Alloblackburneius aegrotus	G3G4	S3?	N	N	E	1997-11-15 -- 1997-12-05	2.61	0.01 %
Suwannee Alligator	Macrochelys suwanniensis	G2	S2	ST	T	A	2020	1.89	0 %
Snapping Turtle	Micropterus notius	G3	S3	N	N	E	1988-03-30	0.28	0 %
Suwannee Cooter	Pseudemys concinna suwanniensis	G5T3	S3	N	N	A	2015-10-20	1.89	0 %
Timber Rattlesnake	Crotalus horridus	G4	S3	N	N	E	1987	2.45	0.01 %
ZZ	Colonial Wading Bird Colony	G5	SNRB	N	N	E	1978-08	204.85	0.53 %
TOTAL:								41,647.81	107.75 %

Suitable Habitat that Supports Species Known to Occur in the Vicinity

COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area
Florida Sandhill Crane	Antigone canadensis pratensis	1,125.96	2.91 %
Gopher Frog	Lithobates capito	278.16	0.72 %
Gray Bat	Myotis grisescens	114.01	0.29 %
Gulf Sturgeon	Acipenser oxyrinchus desotoi	16.01	0.04 %
hartwrightia	Hartwrightia floridana	0.00	0 %
pondspice	Litsea aestivalis	41.84	0.11 %
Red-cockaded Woodpecker	Dryobates borealis	149.54	0.39 %
Suwannee Alligator Snapping Turtle	Macrochelys suwanniensis	2,781.43	7.2 %
Tawny Sanddragon	Progomphus alachuensis	319.19	0.83 %
Wood Stork	Mycteria americana	1,196.59	3.1 %
	TOTAL:	6,022.75	15.58 %

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
1	21,988.28	56.89 %
2	15,216.22	39.37 %
5	987.28	2.55 %
TOTAL:	38,191.78	98.81 %

Water Resources**FDEP Surface Water Classification**

Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
ST MARYS RIVER (NORTH PRONG)	STREAM	2097K	3F	24.34	0.06 %
MOCCASIN CREEK	STREAM	2163	3F	20.64	0.05 %
LITTLE RIVER	STREAM	2192	3F	91.31	0.24 %
GUM SWAMP CREEK	STREAM	2195	3F	1,961.99	5.08 %
SUWANNEE RIVER (UPPER SEGMENT)	STREAM	3341A	3F	434.54	1.12 %
SUWANNEE RIVER (UPPER SEGMENT)	STREAM	3341B	3F	4,052.86	10.49 %
SUWANNEE RIVER (UPPER SEGMENT)	STREAM	3341C	3F	417.31	1.08 %
SANDLIN BAY DRAIN	STREAM	3343	3F	1,799.37	4.66 %
LITTLE SUWANNEE CREEK	STREAM	3345	3F	9,580.91	24.79 %
DOUBLE RUN SWAMP	STREAM	3347	3F	4,722.55	12.22 %
BAY CREEK	STREAM	3353	3F	1,512.60	3.91 %
UNNAMED DITCH	STREAM	3361	3F	352.10	0.91 %
LITTLE CREEK	STREAM	3368	3F	5,854.55	15.15 %
UNNAMED DRAIN	STREAM	3376	3F	1,663.27	4.3 %
COWHOUSE BAY DRAIN	STREAM	3383	3F	723.52	1.87 %
DEEP CREEK	STREAM	3388	3F	2,127.97	5.51 %
UNNAMED SLOUGH	STREAM	3404	3F	264.71	0.68 %
UNNAMED BRANCH	STREAM	3413	3F	1,045.16	2.7 %
LONG BRANCH	STREAM	3425	3F	0.50	0 %
BROWNS BRANCH	STREAM	3437	3F	262.07	0.68 %
ROBINSON CREEK	STREAM	3448	3F	661.74	1.71 %
FALLING CREEK	STREAM	3464	3F	254.62	0.66 %
FALLING CREEK	STREAM	3477	3F	78.52	0.2 %
WATERTOWN LAKE OUTLET	STREAM	3488	3F	157.27	0.41 %
UNNAMED DRAIN	STREAM	3491	3F	388.28	1 %
UNNAMED DRAIN	STREAM	3493	3F	104.70	0.27 %
TOTAL:				38,557.39	99.75 %

Outstanding Florida Waters

Name	OFW Type	Total Area (acres)	Percent of Area
DEEP CREEK	Other	3.02	0.01 %
OKEFENOKEE NATIONAL WILDLIFE REFUGE	Other	17.66	0.05 %
Suwannee River	Special	502.55	1.3 %
TOTAL:		523.23	1.35 %

Florida Geological Survey Springs

No Records Found

National Wetlands Inventory

Wetland Type	Wetland Code	Total Area (acres)	Percent of Area
Freshwater Forested/Shrub Wetland	PFO6/3C	1,363.07	3.53 %
Freshwater Forested/Shrub Wetland	PFO6/4C	875.92	2.27 %

Freshwater Forested/Shrub Wetland	PFO6C	444.92	1.15 %
Freshwater Forested/Shrub Wetland	PFO6F	5,735.20	14.84 %
Freshwater Emergent Wetland	PEM1/FO6F	6.67	0.02 %
Freshwater Emergent Wetland	PEM1/SS3C	12.00	0.03 %
Freshwater Emergent Wetland	PEM1A	1.18	0 %
Freshwater Emergent Wetland	PEM1B	39.48	0.1 %
Freshwater Emergent Wetland	PEM1C	27.43	0.07 %
Freshwater Emergent Wetland	PEM1F	71.74	0.19 %
Freshwater Forested/Shrub Wetland	PFO3/4B	164.81	0.43 %
Freshwater Forested/Shrub Wetland	PFO3/4C	64.15	0.17 %
Freshwater Forested/Shrub Wetland	PFO3/6C	67.71	0.18 %
Freshwater Forested/Shrub Wetland	PFO3B	266.38	0.69 %
Freshwater Forested/Shrub Wetland	PFO3C	12.52	0.03 %
Freshwater Forested/Shrub Wetland	PFO4/1C	68.57	0.18 %
Freshwater Forested/Shrub Wetland	PFO4/6C	98.06	0.25 %
Freshwater Forested/Shrub Wetland	PFO4/EM1C	2.36	0.01 %
Freshwater Forested/Shrub Wetland	PFO4B	1,081.75	2.8 %
Freshwater Forested/Shrub Wetland	PFO4C	196.30	0.51 %
Freshwater Forested/Shrub Wetland	PFO7C	26.74	0.07 %
Freshwater Forested/Shrub Wetland	PFO6/SS3B	177.83	0.46 %
Freshwater Forested/Shrub Wetland	PFO6/SS6F	43.21	0.11 %
Freshwater Forested/Shrub Wetland	PFO7/1C	9.79	0.03 %
Freshwater Forested/Shrub Wetland	PSS1C	4.80	0.01 %
Freshwater Forested/Shrub Wetland	PSS1F	97.53	0.25 %
Freshwater Forested/Shrub Wetland	PSS3/1B	11.95	0.03 %
Freshwater Forested/Shrub Wetland	PSS3/6B	40.74	0.11 %
Freshwater Forested/Shrub Wetland	PSS3/6C	878.02	2.27 %
Freshwater Forested/Shrub Wetland	PSS3/FO6C	2.39	0.01 %
Freshwater Forested/Shrub Wetland	PSS3/FO4B	108.78	0.28 %
Freshwater Forested/Shrub Wetland	PSS3B	1,017.55	2.63 %
Freshwater Forested/Shrub Wetland	PSSF	25.84	0.07 %
Freshwater Forested/Shrub Wetland	PSS6/3C	0.96	0 %
Freshwater Forested/Shrub Wetland	PSS6F	236.34	0.61 %
Riverine	R4SBC	8.57	0.02 %
Riverine	R5UBH	25.57	0.07 %
Freshwater Pond	PUBHx	4.40	0.01 %
Freshwater Forested/Shrub Wetland	PFO4/3B	206.61	0.53 %
Freshwater Forested/Shrub Wetland	PFO4/SS3B	458.06	1.19 %
Freshwater Forested/Shrub Wetland	PSS3/FO3B	7.14	0.02 %
Freshwater Emergent Wetland	PEM1/FO1C	1.31	0 %
Freshwater Emergent Wetland	PEM1/SS1F	1.96	0.01 %
Freshwater Forested/Shrub Wetland	PFO1/4A	48.28	0.12 %
Freshwater Forested/Shrub Wetland	PFO1A	61.56	0.16 %
Freshwater Forested/Shrub Wetland	PFO1C	6.93	0.02 %
Freshwater Forested/Shrub Wetland	PFO2F	0.05	0 %
Freshwater Forested/Shrub Wetland	PFO4/EM1B	10.23	0.03 %
Freshwater Forested/Shrub Wetland	PFO4A	22.70	0.06 %
Freshwater Forested/Shrub Wetland	PFO6/7C	12.62	0.03 %
Riverine	R2UBH	20.39	0.05 %
Riverine	R2UBHx	1.85	0 %
Freshwater Forested/Shrub Wetland	PSS3C	13.52	0.03 %
Freshwater Pond	PUBH	1.51	0 %
Freshwater Forested/Shrub Wetland	PFO6Fd	4.69	0.01 %
Freshwater Forested/Shrub Wetland	PSS3/1C	13.34	0.03 %
Freshwater Forested/Shrub Wetland	PSS6/FO6F	15.26	0.04 %
Freshwater Pond	PUBHd	2.57	0.01 %
	TOTAL:	14,231.82	36.82 %
Priority Floodplain Resources			
Priority	Total Area (acres)	Percent of Area	
3	12,408.10	32.1 %	
0	16,773.88	43.4 %	
2	3,571.28	9.24 %	
4	5,680.96	14.7 %	
1	210.24	0.54 %	
5	8.04	0.02 %	
TOTAL:	38,652.50	100 %	