

Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Belle Meade 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 **Belle Meade** 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

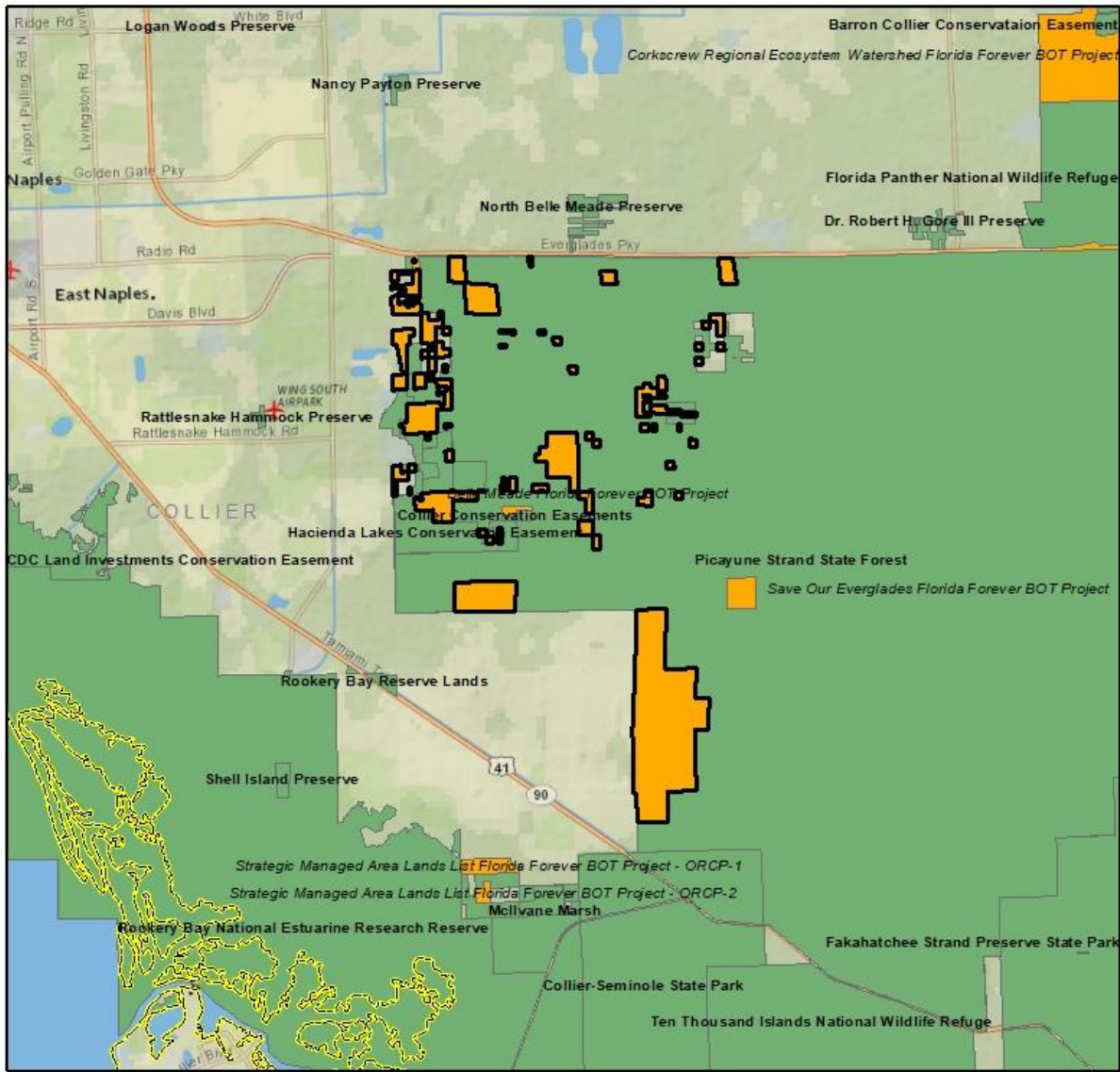
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review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



**Belle Meade
Florida Forever Project**
Collier County
4,653 Remaining Acres

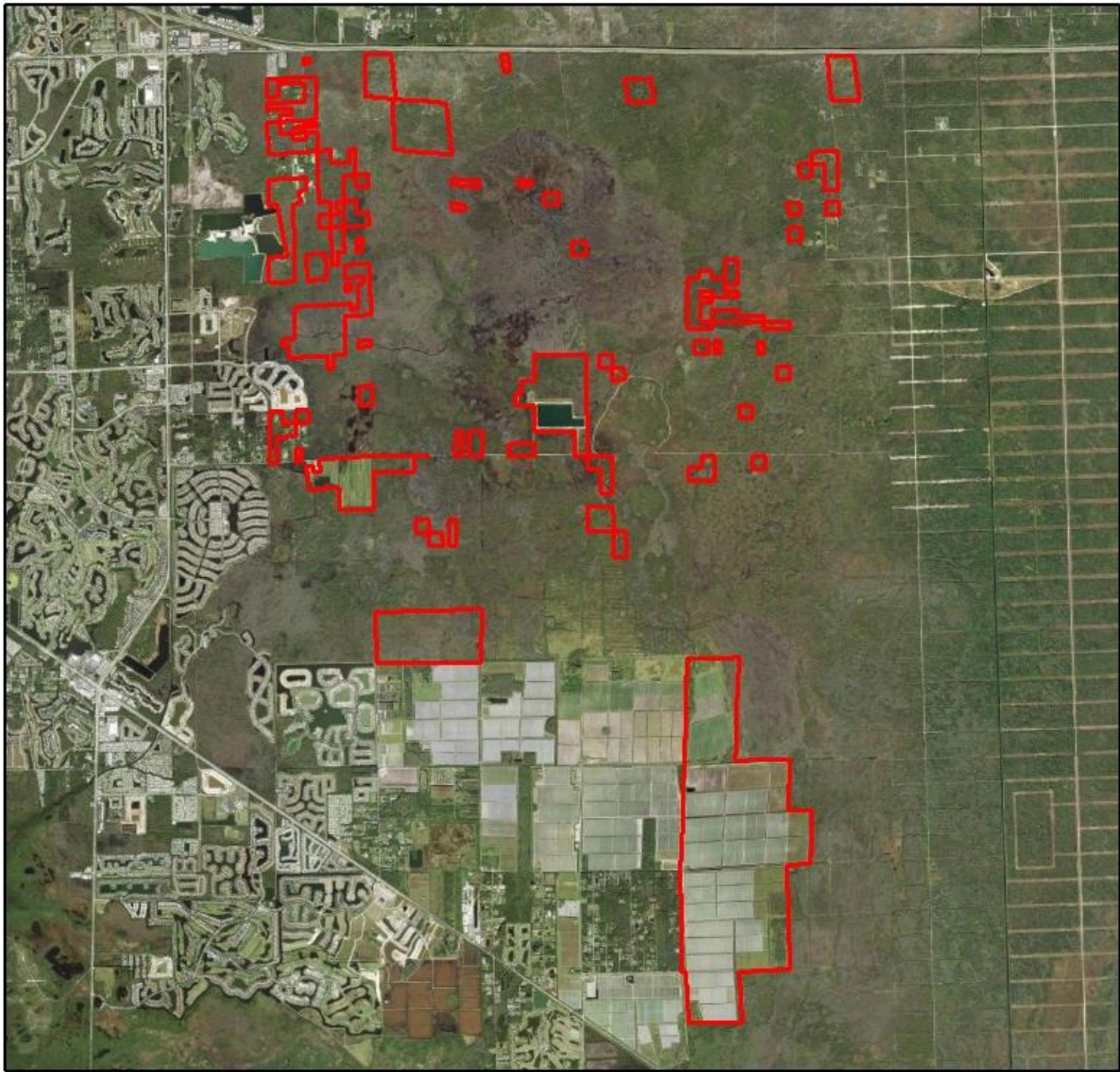


0 2 4 6 8 Miles

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

Vicinity Map

- Belle Meade
- County Boundaries
- Conservation Lands
- Florida Forever Projects



Belle Meade
Florida Forever Project
Collier County
4,653 Remaining Acres

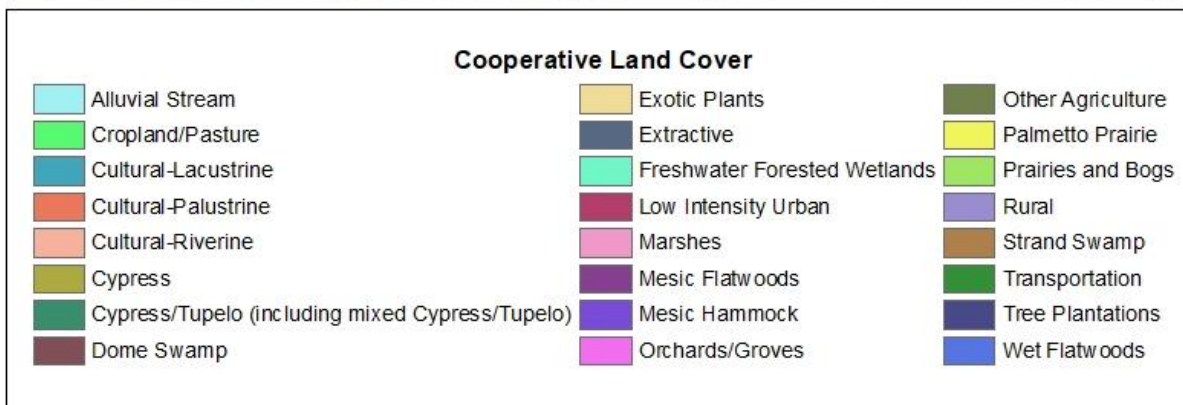
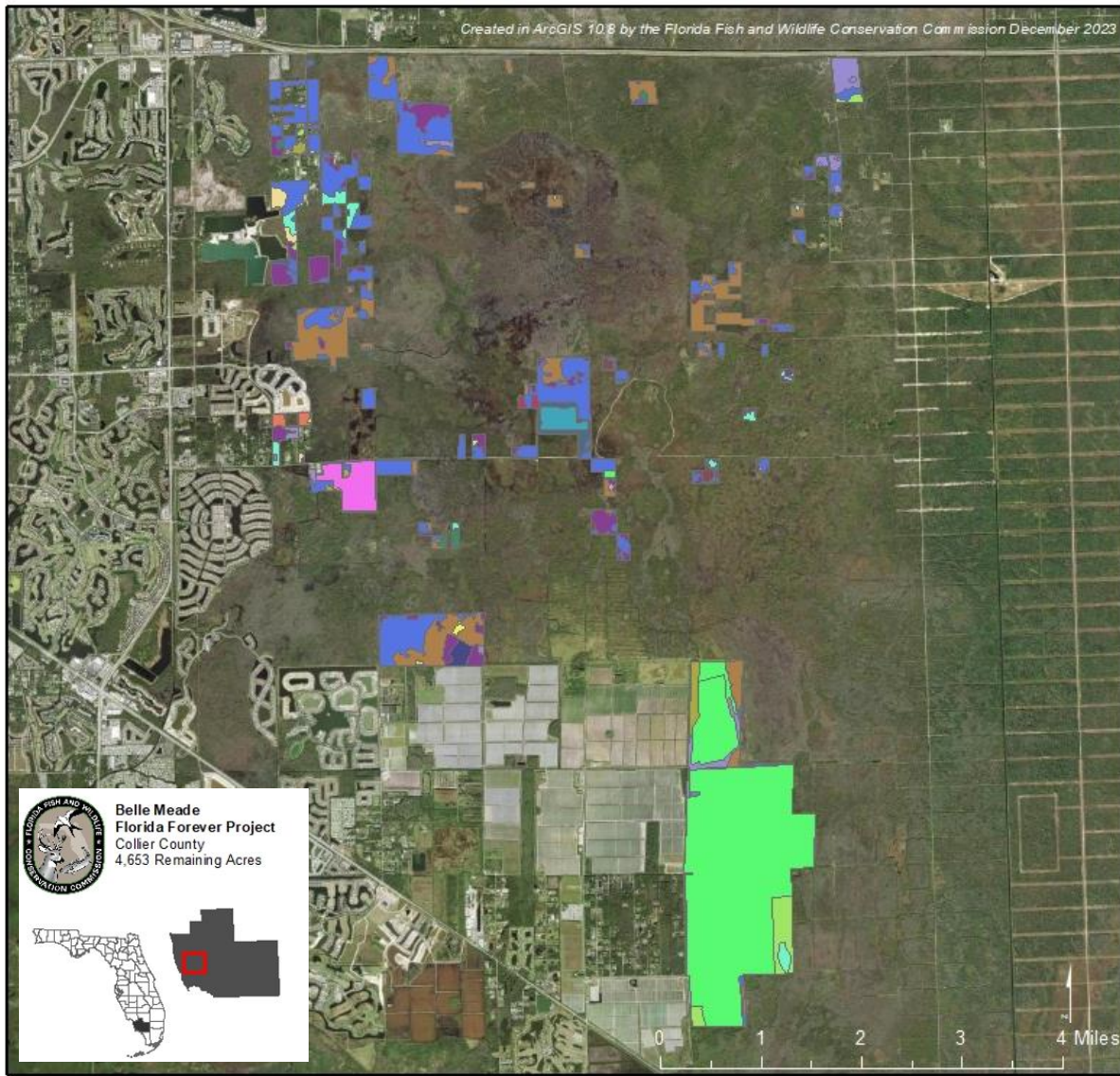


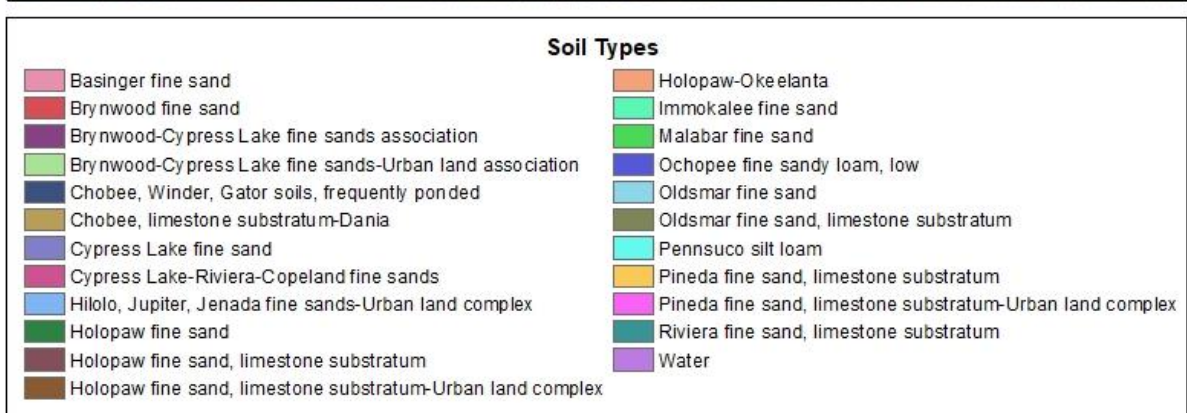
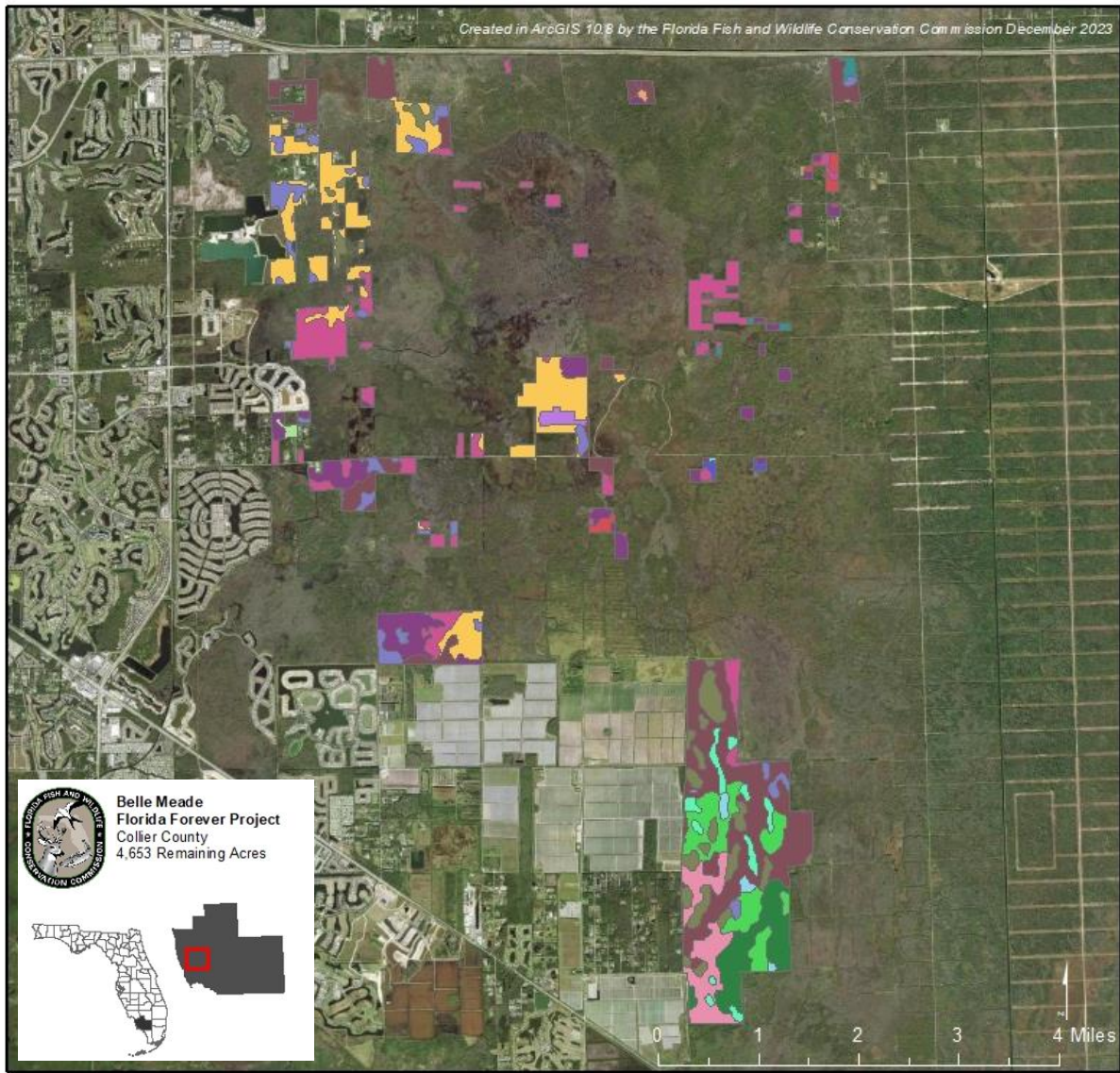
0 1 2 3 4 Miles

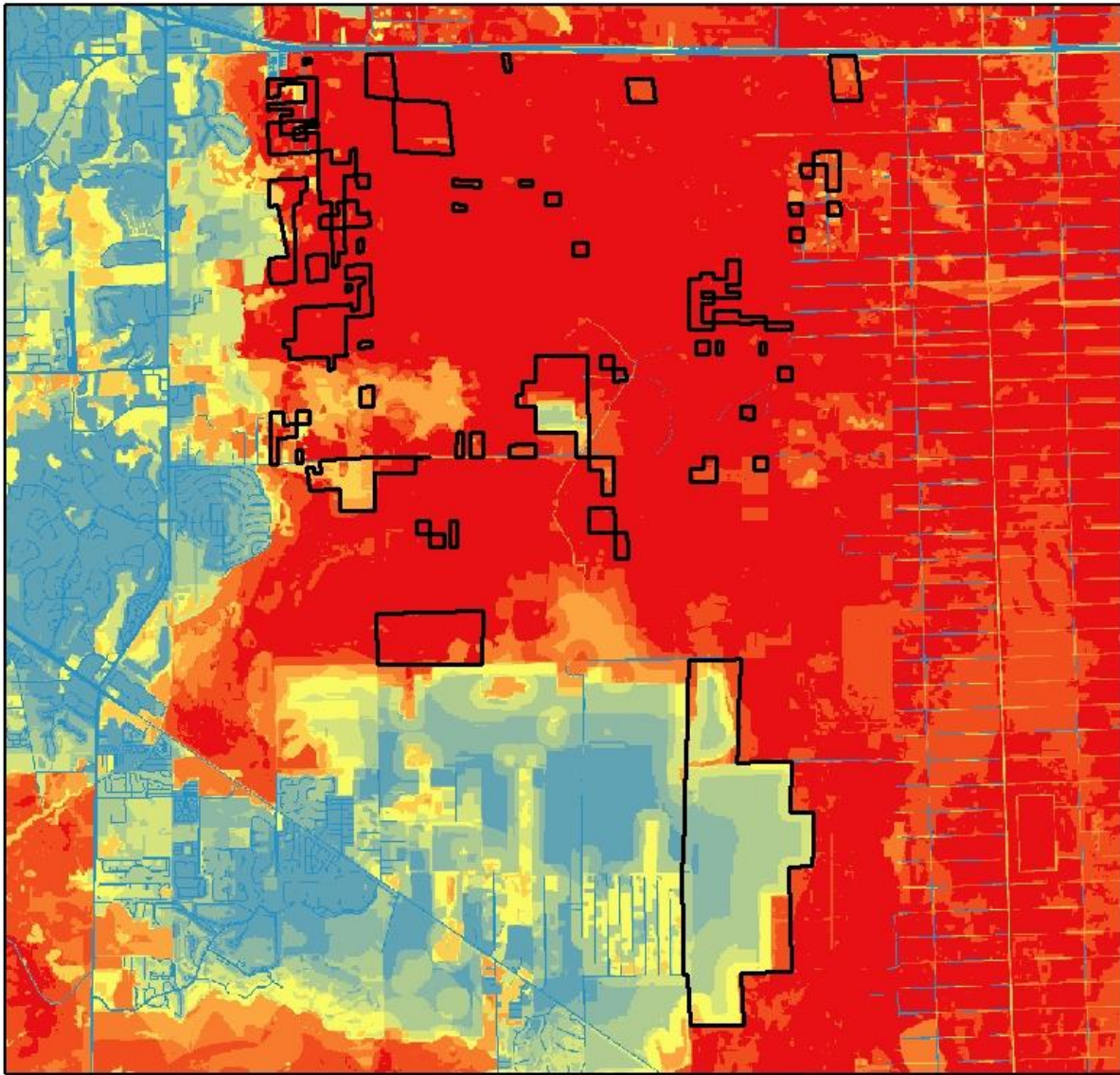
Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2023

Aerial Imagery

 Belle Meade







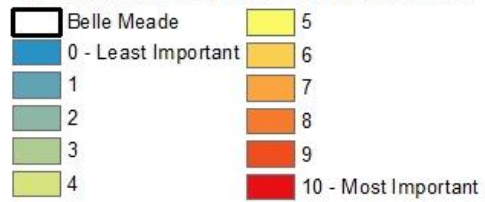
Belle Meade
Florida Forever Project
 Collier County
 4,653 Remaining Acres



0 1 2 3 4 Miles

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

Florida Landscape Assessment Model



FWC Florida Landscape Assessment Model 2019		
	Value	Acres
	0	37.3
	1	1.4
	2	556.7
	3	764.7
	4	371.8
	5	141.3
	6	194.8
	7	118.7
	8	184.8
	9	526.5
	10	1754.8
Mean FLAM value =	6.7	

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: 10242023 05:02:14

Shape Name: Unnamed polygon centered at -81.624007 °, 26.083633 °

Boundary Area: 4653.13 acres

Buffer Area: 0 acres

Total Area: 4653.13 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
Low Intensity Urban	1821 Low Structure Density	18212	11.90	0.26 %
Exotic Plants	7000 Exotic Wetland Hardwoods	7400	26.47	0.57 %
Rural	1830 Rural Open Pine	18312	9.87	0.21 %
Rural	1830 Rural Open Forested	18311	22.19	0.48 %
Exotic Plants	7000 Brazilian Pepper	7300	0.92	0.02 %
Natural Rivers and Streams	4100 Natural Rivers and Streams	4100	1.30	0.03 %
Cultural - Lacustrine	3200 Quarry Pond	3230	0.02	0 %
Exotic Plants	7000 Melaleuca	7200	2.59	0.06 %
Cultural - Riverine	4200 Canal	4210	6.12	0.13 %
Orchards/Groves	18332 Orchards/Groves	18332	129.52	2.78 %
Cropland/Pasture	18331 Irrigated Row Crops	1833111	1,724.18	37.05 %
Other Agriculture	18335 Specialty Farms	183352	0.22	0 %
Transportation	1840 Transportation	1840	39.36	0.85 %
Cropland/Pasture	18331 Fallow Cropland	1833151	45.87	0.99 %
Other Agriculture	18335 Feeding Operations	183351	0.03	0 %
Wet Flatwoods	2221 Hydric Pine Flatwoods	22211	50.77	1.09 %
Dome Swamp	22131 Dome Swamp	22131	31.13	0.67 %
Tree Plantations	18333 Coniferous plantation	183332	26.79	0.58 %
Rural	1830 Unimproved/Woodland Pasture	183314	54.15	1.16 %
Extractive	1870 Sand and Gravel Pits	1872	5.60	0.12 %
Extractive	1870 Extractive	1870	45.02	0.97 %
Prairies and Bogs	2110 Mixed Scrub-Shrub Wetland	2112	110.28	2.37 %
Prairies and Bogs	2110 Wet Prairie	2111	2.44	0.05 %
Rural	1830 Rural Structures	1832	8.99	0.19 %
Mesic Flatwoods	1311 Mesic Flatwoods	1311	320.31	6.88 %
Mesic Hammock	1120 Mesic Hammock	1120	3.36	0.07 %
Rural	1830 Rural Open	1831	54.06	1.16 %
Palmetto Prairie	1340 Palmetto Prairie	1340	8.11	0.17 %
Marshes	2120 Glades Marsh	2125	1.90	0.04 %
Freshwater Forested Wetlands	2200 Cypress/Pine/Cabbage Palm	2242	19.07	0.41 %
Freshwater Forested Wetlands	2200 Mixed Hardwood-Coniferous Swamps	2240	57.49	1.24 %
Cultural - Lacustrine	3200 Artificial Impoundment/Reservoir	3220	60.05	1.29 %
Cultural-Palustrine	2400 Clearcut Wetland	2440	18.81	0.4 %
Freshwater Forested Wetlands	2200 Mixed Wetland Hardwoods	2233	15.61	0.34 %
Cypress	2211 Cypress	2211	54.06	1.16 %
Cypress/Tupelo (Cypress/Tupelo mixed)	2210 Cypress/Tupelo (Cypress/Tupelo mixed)	2210	20.74	0.45 %
Wet Flatwoods	2221 Wet Flatwoods	2221	1,042.10	22.4 %
Strand Swamp	2214 Strand Swamp	2214	621.76	13.36 %
TOTAL:			4,653.13	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	990.35	21.28 %
CLIP P1 in submerged lands/state waters	11.24	0.24 %
CLIP P1 in terrestrial	3,373.94	72.51 %
CLIP P2 in submerged lands/state waters	0.14	0 %
CLIP P2 in terrestrial	272.15	5.85 %
TOTAL:	4,647.83	99.89 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	0.49	0.01 %
2	2,011.27	43.22 %
3	1,696.41	36.46 %
4	859.85	18.48 %

5	85.11	1.83 %					
TOTAL:	4,653.13	100 %					
CLIP- Biodiversity Category							
Priority	Total Area (acres)	Percent of Area					
0	1,789.73	38.46 %					
1	3.28	0.07 %					
2	113.83	2.45 %					
3	11.76	0.25 %					
4	165.39	3.55 %					
5	2,569.14	55.21 %					
TOTAL:	4,653.13	100 %					
Priority FWC Strategic Habitat Conservation Areas 2021							
Priority	Total Area (acres)	Percent of Area					
0	2,064.71	44.37 %					
1	2,307.29	49.59 %					
2	281.14	6.04 %					
TOTAL:	4,653.13	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
Big Cypress fox squirrel						0.71	0.02 %
Big Cypress fox squirrel	Florida black bear					1.04	0.02 %
Big Cypress fox squirrel	Florida black bear	Florida panther				300.68	6.46 %
Big Cypress fox squirrel	Florida black bear	Florida panther	American swallow-tailed kite			263.06	5.65 %
Big Cypress fox squirrel	Florida black bear	Florida panther	Short-tailed hawk			67.14	1.44 %
Big Cypress fox squirrel	Florida black bear	Florida panther	Short-tailed hawk	American swallow-tailed kite		17.84	0.38 %
Big Cypress fox squirrel	Florida black bear	Short-tailed hawk				17.67	0.38 %
Big Cypress fox squirrel	Florida panther					0.37	0.01 %
Big Cypress fox squirrel	Florida panther	American swallow-tailed kite				7.77	0.17 %
Big Cypress fox squirrel	Florida panther	Short-tailed hawk				1.56	0.03 %
Big Cypress fox squirrel	Florida panther	Short-tailed hawk	American swallow-tailed kite			27.80	0.6 %
Big Cypress fox squirrel	Short-tailed hawk					0.67	0.01 %
Florida black bear						11.07	0.24 %
Florida black bear	Florida panther					100.56	2.16 %
Florida black bear	Florida panther	American swallow-tailed kite				95.09	2.04 %
Florida black bear	Florida panther	Florida snail kite				2.22	0.05 %
Florida black bear	Florida panther	Florida snail kite	Short-tailed hawk			158.65	3.41 %
Florida black bear	Florida panther	Florida snail kite	Short-tailed hawk	American swallow-tailed kite		190.78	4.1 %
Florida black bear	Florida panther	Short-tailed hawk				480.29	10.32 %
Florida black bear	Florida panther	Short-tailed hawk	American swallow-tailed kite			320.77	6.89 %
Florida black bear	Florida snail kite	Short-tailed hawk				39.68	0.85 %
Florida black bear	Short-tailed hawk					32.62	0.7 %
Florida panther						15.17	0.33 %
Florida panther	American swallow-tailed kite					16.41	0.35 %
Florida panther	Florida snail kite					7.83	0.17 %
Florida panther	Florida snail kite	American swallow-tailed kite				0.22	0 %
Florida panther	Florida snail kite	Short-tailed hawk				4.58	0.1 %
Florida panther	Florida snail kite	Short-tailed hawk	American swallow-tailed kite			52.81	1.13 %
Florida panther	Short-tailed hawk					28.75	0.62 %
Florida panther	Short-tailed hawk	American swallow-tailed kite				129.45	2.78 %
Florida snail kite	Short-tailed hawk					69.05	1.48 %
Short-tailed hawk						116.57	2.51 %
TOTAL:						2,578.88	55.42 %
Panther location							
DATE				# Features			

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11/15/1989 12:00:00 AM	1
12/6/1989 12:00:00 AM	1
12/29/1989 12:00:00 AM	1
5/20/1992 12:00:00 AM	1
6/1/1992 12:00:00 AM	1
6/3/1992 12:00:00 AM	1
6/10/1992 12:00:00 AM	1
6/17/1992 12:00:00 AM	1
7/13/1992 12:00:00 AM	1
11/11/1992 12:00:00 AM	1
12/23/1992 12:00:00 AM	1
5/26/1995 12:00:00 AM	1
9/1/1995 12:00:00 AM	1
11/6/1995 12:00:00 AM	1
12/5/1995 12:00:00 AM	1
10/21/1996 12:00:00 AM	1
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9/2/1998 12:00:00 AM	1
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10/29/1999 12:00:00 AM	1
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2/21/2001 12:00:00 AM	1
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11/20/2002 12:00:00 AM	1
12/18/2002 12:00:00 AM	1
12/23/2002 12:00:00 AM	1
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5/16/2014 12:00:00 AM	1
5/23/2014 12:00:00 AM	1
6/9/2014 12:00:00 AM	1
7/7/2014 12:00:00 AM	1
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7/23/2014 12:00:00 AM	1			
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9/24/2018 12:00:00 AM	1			
9/28/2018 12:00:00 AM	1			
10/1/2018 12:00:00 AM	1			
3/4/2019 12:00:00 AM	1			
TOTAL:	177			
Panther mortality				
DATE	# Features			
4/20/1998	1			
TOTAL:	1			
Panther Priority Habitat				
ZONE	Total Area (acres)	Percent of Area		
Primary	3,613.51	77.66 %		
Secondary	1,039.62	22.34 %		
TOTAL:	4,653.13	100 %		
Bear Range				
Bear Range	Total Area (acres)	Percent of Area		
Frequent	4,653.13	100 %		
TOTAL:	4,653.13	100 %		
Rare Fish				
No Records Found				
Rare Fish Imperiled Waters				
No Records Found				
Southern bald eagle nest				
Nest Count	Earliest Survey Year	Latest Survey Year	Total Area (acres)	Percent of Area
4	1998	2010	16.43	0.35 %
TOTAL:			16.43	0.35 %
Imperiled Species Richness				
Number of Species	Total Area (acres)	Percent of Area		
0	1,797.95	38.64 %		
3	242.05	5.2 %		
5	27.28	0.59 %		
6	0.99	0.02 %		
7	95.49	2.05 %		
8	1,658.91	35.65 %		
9	515.81	11.09 %		
10	314.65	6.76 %		
TOTAL:	4,653.13	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	
American Alligator	Alligator mississippiensis	G5	S4	FT(S/A)	SAT	AC	2018-03-21	0.02	0 %	
Bald Eagle	Haliaeetus leucocephalus	G5	S3	N	N	E	2003	7.98	0.17 %	
Big Cypress Fox Squirrel	Sciurus niger avicennia	G5T2	S2	ST	N	E	ZZ	2.81	0.06 %	
DATA SENSITIVE	DATA SENSITIVE	G5?	S1	E	N	A	1986-11-13	2.81	0.06 %	
ELEMENT OCCURRENCE - contact FNAI for more information	ELEMENT OCCURRENCE - contact FNAI for more information									
DATA SENSITIVE	DATA SENSITIVE									
ELEMENT OCCURRENCE - contact FNAI for more information	ELEMENT OCCURRENCE - contact FNAI for more information	G5?	S1	E	N	D	1986-11-13	2.81	0.06 %	
DATA SENSITIVE	DATA SENSITIVE	G4	S1	E	N	F	1986-11-26	2.81	0.06 %	
ELEMENT OCCURRENCE - contact FNAI for more information	ELEMENT OCCURRENCE - contact FNAI for more information									

DATA SENSITIVE ELEMENT OCCURRENCE - contact FNAI for more information	DATA SENSITIVE ELEMENT OCCURRENCE - contact FNAI for more information	G4G5	S1	E	N	F	1986-11-26	2.81	0.06 %
DATA SENSITIVE ELEMENT OCCURRENCE - contact FNAI for more information	DATA SENSITIVE ELEMENT OCCURRENCE - contact FNAI for more information	G2	S2	N	N	X?	1986-11-26	2.81	0.06 %
DATA SENSITIVE ELEMENT OCCURRENCE - contact FNAI for more information	DATA SENSITIVE ELEMENT OCCURRENCE - contact FNAI for more information	G5	S3	T	N	E	1973-03-14	1,935.39	41.59 %
Eastern Indigo Snake	Drymarchon couperi	G3	S2?	FT	T	E	1970	70.74	1.52 %
Florida Panther	Puma concolor coryi	G5T1	S1	FE	E	C	2018-02-27	4,653.13	100 %
Hairy Woodpecker	Dryobates villosus	G5	S3	N	N	E	1983	1,968.08	42.3 %
Osprey	Pandion haliaetus	G5	S3S4	N	N	E	1984	498.61	10.72 %
Red-cockaded Woodpecker	Dryobates borealis	G3	S2	FE	E, PT	D	2017	121.98	2.62 %
Red-cockaded Woodpecker	Dryobates borealis	G3	S2	FE	E, PT	D	2021	605.81	13.02 %
ZZ	Basin swamp	G4	S3	N	N	AB	1999	82.88	1.78 %
ZZ	Mesic flatwoods	G4	S4	N	N	B	1999	28.27	0.61 %
ZZ	Strand swamp	G2	S2	N	N	A	1999	204.31	4.39 %
TOTAL:								10,194.08	219.08 %

Suitable Habitat that Supports Species Known to Occur in the Vicinity

COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area
Big Cypress Fox Squirrel	Sciurus niger avicennia	2,202.31	47.33 %
Eastern Indigo Snake	Drymarchon couperi	831.21	17.86 %
Florida Long-tailed Weasel	Mustela frenata peninsulae	2,648.44	56.92 %
Florida Panther	Puma concolor coryi	2,645.65	56.86 %
Florida Sandhill Crane	Antigone canadensis pratensis	492.40	10.58 %
ghost orchid	Dendrophylax lindenii	47.16	1.01 %
narrow-leaved Carolina scalystem	Elytraria caroliniensis var. angustifolia	22.46	0.48 %
Red-cockaded Woodpecker	Dryobates borealis	1,391.71	29.91 %
Wood Stork	Mycteria americana	404.57	8.69 %
TOTAL:		10,685.91	229.65 %

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
1	85.19	1.83 %
2	1,625.60	34.94 %
5	2,936.24	63.1 %
TOTAL:	4,647.03	99.87 %

Water Resources

FDEP Surface Water Classification

Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
FAKA UNION (SOUTH SEGMENT)	STREAM	3278I	3F	62.83	1.35 %
ROOKERY BAY (INLAND EAST SEGMENT)	STREAM	3278V	3F	4,590.30	98.65 %
TOTAL:				4,653.13	100 %

