

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

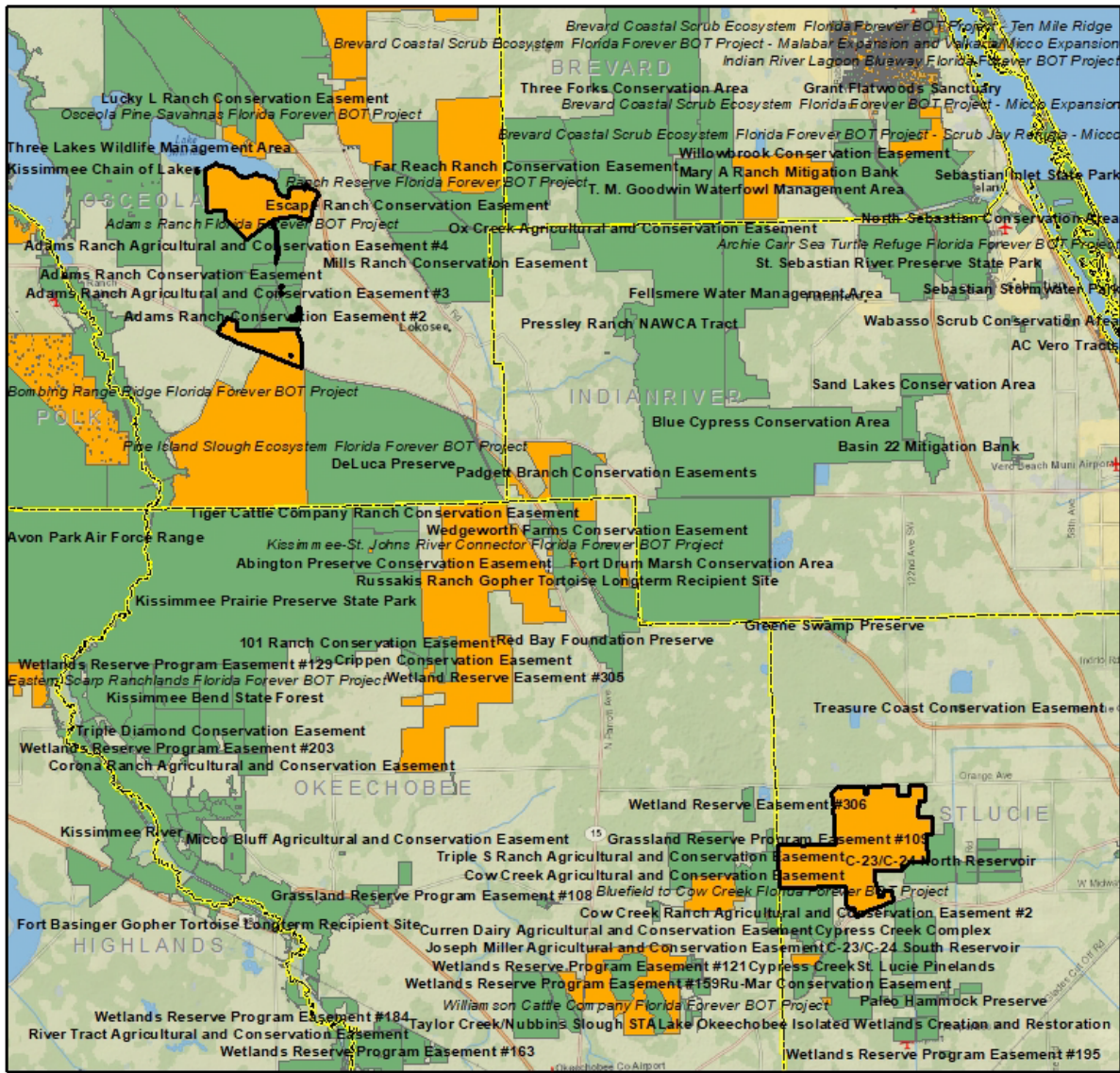
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review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

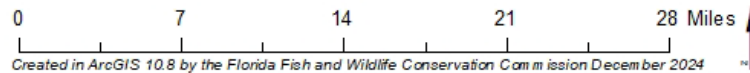
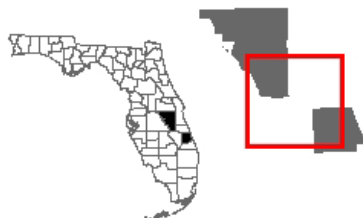
Important fish and wildlife resource GIS data were queried using Environmental Resource Analysis GIS computer software. These data include the following GIS layers:

- 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

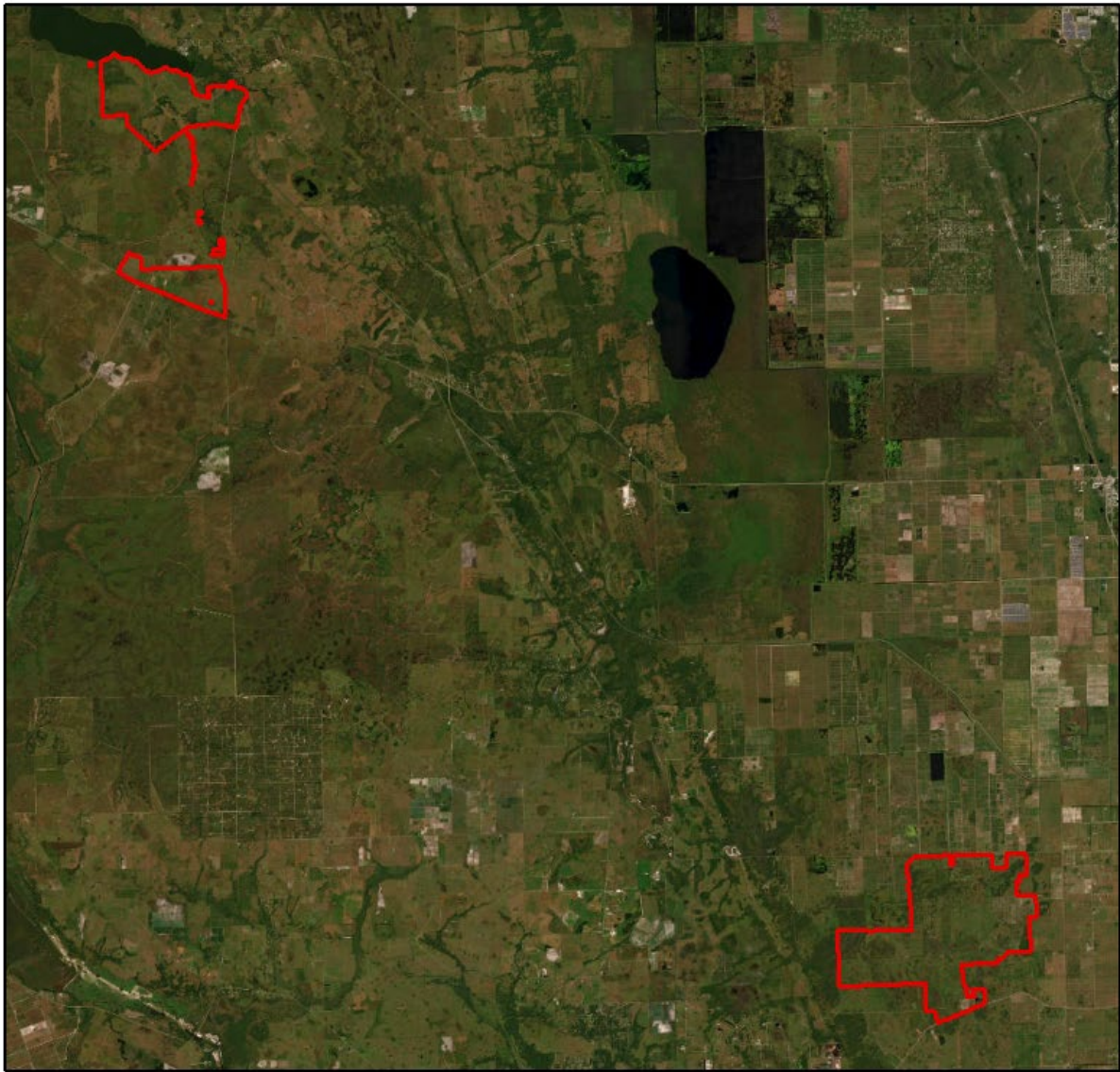


**Adams Ranch
Florida Forever Project**
Osceola & St. Lucie Counties
24,117 Remaining Acres



Vicinity Map

- Adams Ranch
- County Boundaries
- Conservation Lands
- Florida Forever Projects



Adams Ranch
Florida Forever Project
Osceola & St. Lucie Counties
24,117 Remaining Acres



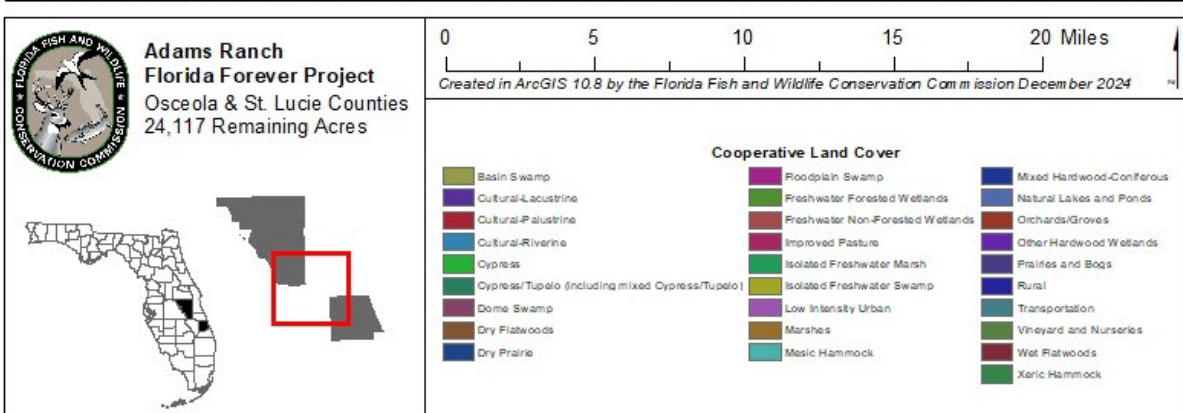
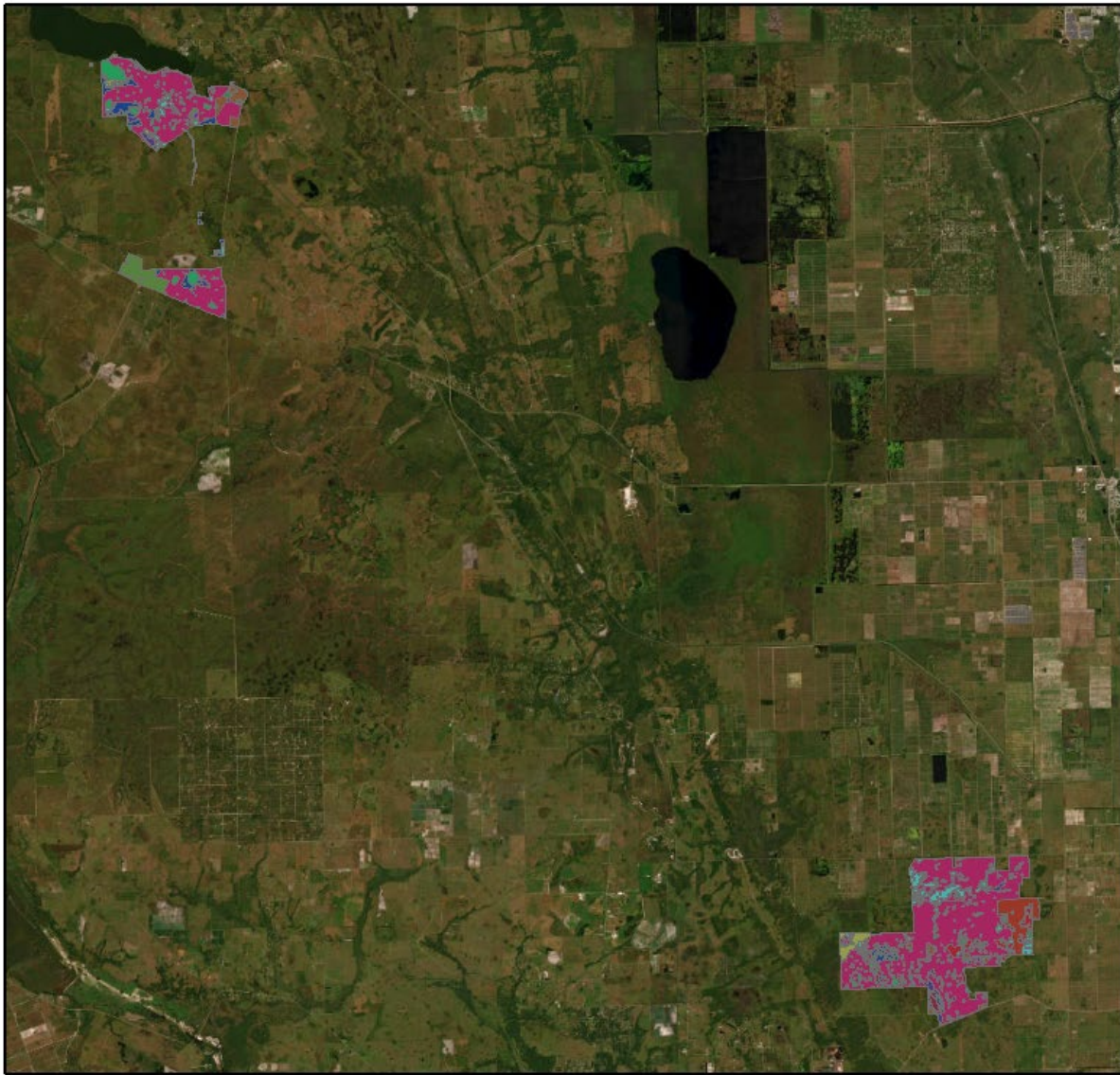
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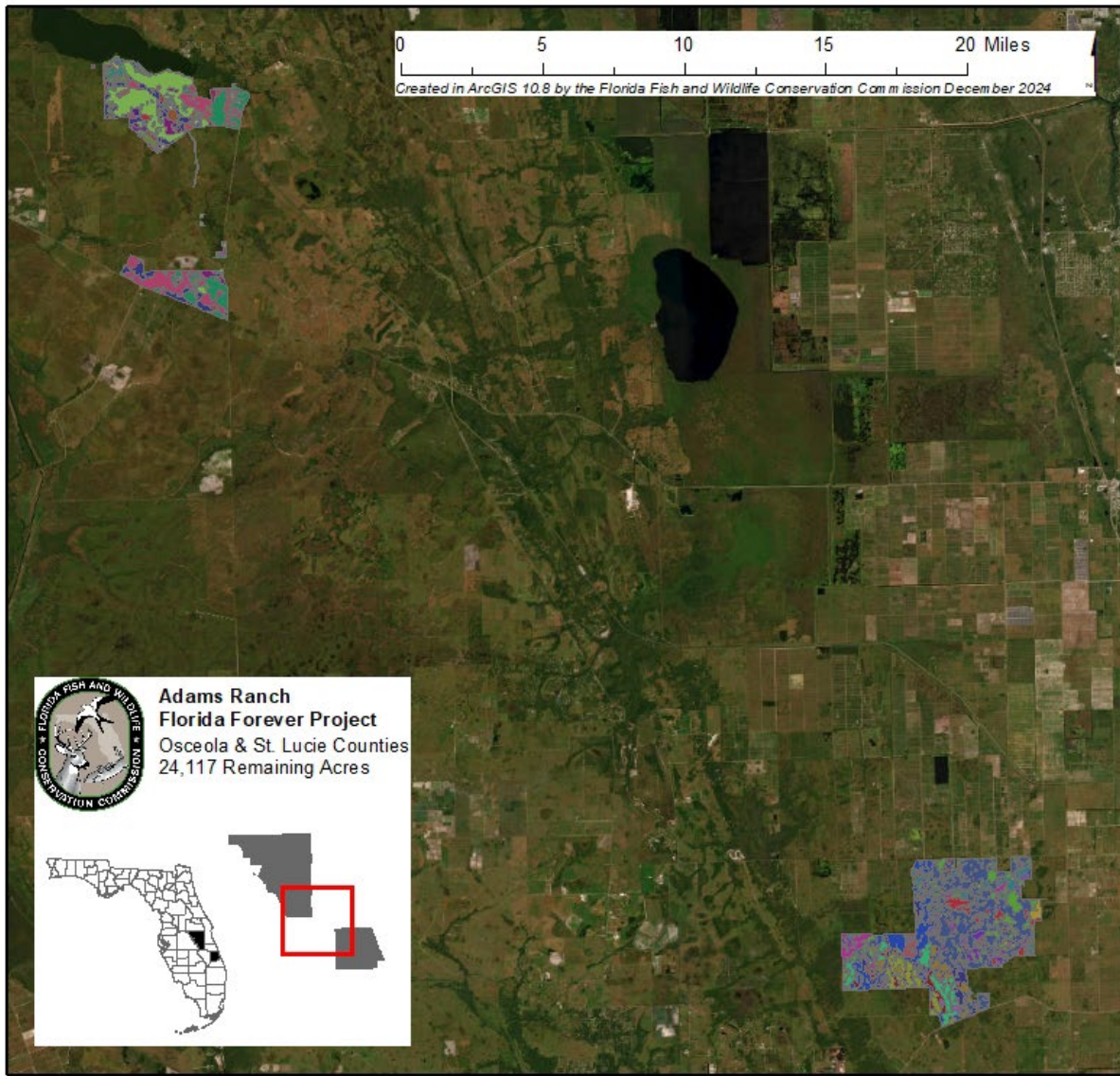
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Aerial Imagery

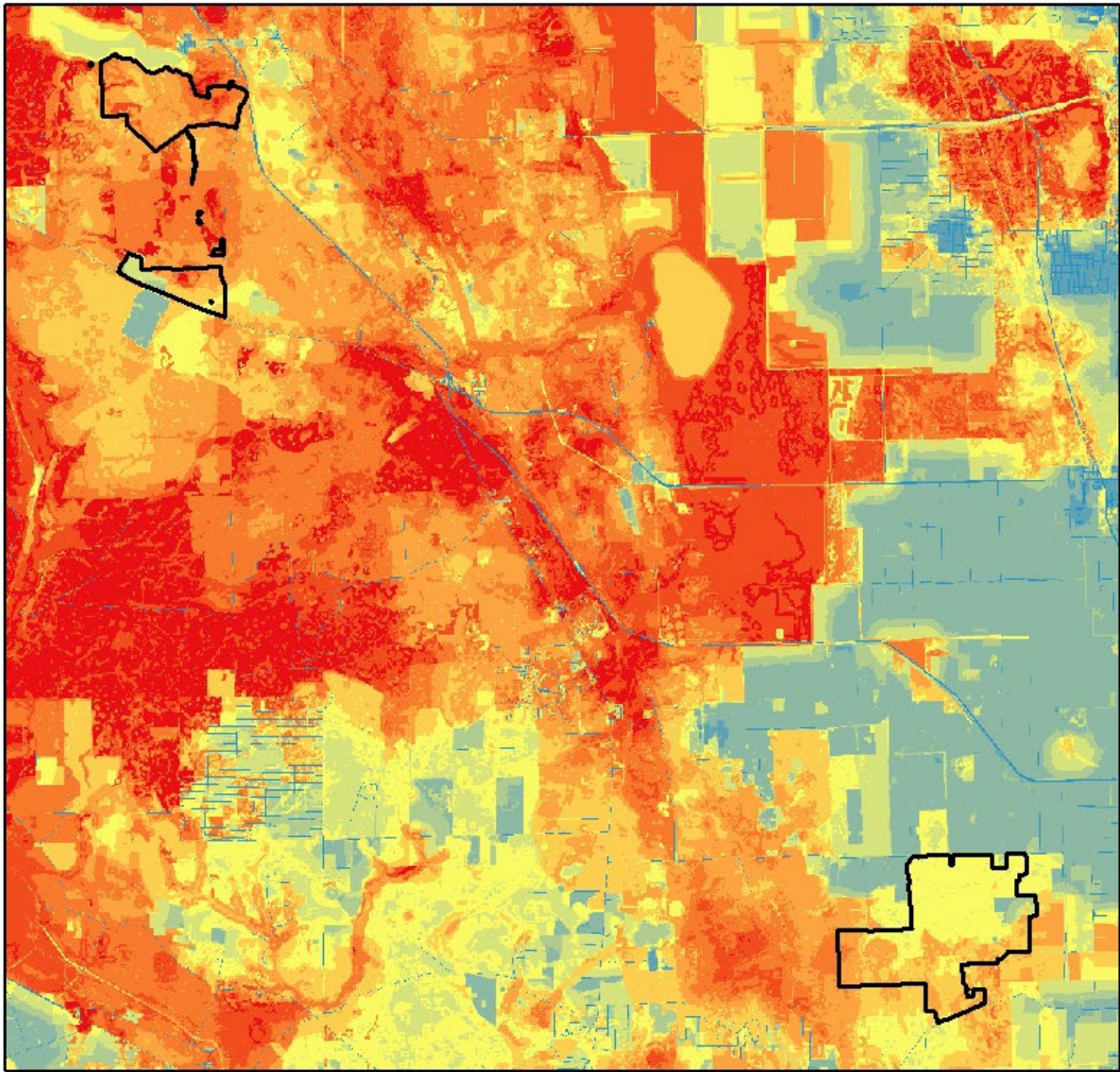


Adams Ranch





Soil Types			
Adamsville sand	Gentry fine sand	Oldsmar fine sand	Riviera fine sand
Andote sand	Hilolo loamy sand	Oldsmar sand, depressional	Riviera sand
Ankona-Urban land complex	Holopaw fine sand	Ona fine sand	Samsula muck
Arents	Immokalee fine sand	Parkwood loamy fine sand	Smyrna fine sand
Basinger fine sand	Kaliga muck	Pepper and Eau Gallie sands	Wabasso fine sand
Basinger fine sand, depressional	Lawnwood and Myakka sands	Pineda sand	Wabasso fine sand, gravelly substratum
Basinger sand	Lokosee fine sand	Pineda-Pineda, wet, fine sand	Wabasso sand
Brynwood sand	Malabar fine sand	Placid fine sand	Water
Chobee loamy sand	Malabar fine sand	Pomello fine sand	Waveland and Immokalee fine sands
Delray loamy fine sand	Myakka fine sand	Pompano fine sand	Waveland-Lawnwood complex
Eau Gallie fine sand	Narcoossee fine sand	Pompano fine sand, frequently ponded	Winder loamy fine sand
Florida fine sand	Nettles and Oldsmar sands	Pople sand	Winder loamy sand
Florida sand	Nittaw muck	Riviera fine sand	Winder sand
			Winder sand, shell substratum



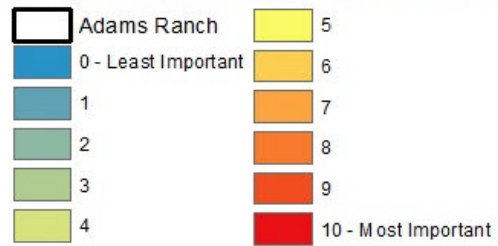
**Adams Ranch
Florida Forever Project**
Osceola & St. Lucie Counties
24,117 Remaining Acres



0 5 10 15 20 Miles

Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2024

Florida Landscape Assessment Model



FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	6.8
	1	0.0
	2	234.8
	3	451.1
	4	933.1
	5	7687.6
	6	4688.0
	7	7209.9
	8	2062.4
	9	690.4
	10	153.0
Mean FLAM value =	6.1	

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: 11042024 01:18:26

Shape Name: Unnamed polygon centered at -80.831154 °, 27.616081 °

Boundary Area: 24116.5 acres

Buffer Area: 0 acres

Total Area: 24116.5 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
Dome Swamp	22131	Dome Swamp	22131	55.17	0.23 %
Isolated Freshwater Marsh	2121	Basin Marsh	21212	466.63	1.93 %
Basin Swamp	22132	Basin Swamp	22132	400.70	1.66 %
Rural	1830	Unimproved/Woodland Pasture	183314	18.44	0.08 %
Improved Pasture	183313	Improved Pasture	183313	15,792.40	65.48 %
Cultural-Lacustrine	3200	Artificial Impoundment/Reservoir	3220	0.33	0 %
Cultural-Lacustrine	3200	Artificial/Farm Pond	3210	8.70	0.04 %
Cultural-Lacustrine	3200	Stormwater Treatment Areas	3250	0.00	0 %
Isolated Freshwater Marsh	2121	Depression Marsh	21211	1,132.54	4.7 %
Cultural-Riverine	4200	Canal	4210	40.56	0.17 %
Orchards/Groves	18332	Citrus	183321	887.32	3.68 %
Cropland/Pasture	18331	Row Crops	183311	0.00	0 %
Natural Lakes and Ponds	3100	Natural Lakes and Ponds	3100	0.00	0 %
Vineyard and Nurseries	18334	Sod Farms	183342	676.36	2.8 %
Transportation	1840	Transportation	1840	53.39	0.22 %
Cropland/Pasture	18331	Fallow Cropland	1833151	0.00	0 %
Low Intensity Urban	1821	Low Intensity Urban	1821	15.27	0.06 %
Dry Flatwoods	1310	Scrubby Flatwoods	1312	38.95	0.16 %
Bare Soil/Clear Cut	1880	Bare Soil/Clear Cut	1880	0.00	0 %
Cultural-Palustrine	2400	Grazed Wetlands	2430	0.01	0 %
Freshwater Non-Forested Wetlands	2100	Floating/Emergent Aquatic Vegetation	2140	0.00	0 %
Rural	1830	Rural Open	1831	2.45	0.01 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	0.00	0 %
Prairies and Bogs	2110	Wet Prairie	2111	688.99	2.86 %
Marshes	2120	Marshes	2120	1.32	0.01 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	32.69	0.14 %
Mesic Hammock	1120	Cabbage Palm	1125	4.26	0.02 %
Mesic Hammock	1120	Mesic Hammock	1120	1,390.67	5.77 %
Xeric Hammock	1150	Xeric Hammock	1150	50.62	0.21 %
Dry Prairie	1330	Dry Prairie	1330	786.62	3.26 %
Dry Flatwoods	1310	Mesic Flatwoods	1311	747.97	3.1 %
Marshes	2120	Slough Marsh	2124	26.73	0.11 %
Freshwater Forested Wetlands	2200	Mixed Wetland Hardwoods	2233	83.82	0.35 %
Other Hardwood Wetlands	2230	Other Hardwood Wetlands	2230	31.01	0.13 %
Freshwater Forested Wetlands	2200	Cypress/Pine/Cabbage Palm	2242	0.00	0 %
Natural Lakes and Ponds	3100	Flatwoods/Prairie/Marsh Lake	3113	5.19	0.02 %
Cultural-Palustrine	2400	Impounded Marsh	2410	433.28	1.8 %
Cypress	2211	Cypress	2211	12.19	0.05 %
Cypress/Tupelo (including mixed Cypress/Tupelo)	2210	Cypress/Tupelo (including mixed Cypress/Tupelo)	2210	13.15	0.05 %
Isolated Freshwater Swamp	2213	Isolated Freshwater Swamp	2213	20.53	0.09 %
Wet Flatwoods	2221	Wet Flatwoods	2221	196.49	0.81 %
Floodplain Swamp	2215	Floodplain Swamp	2215	1.72	0.01 %
TOTAL:				24,116.50	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	9,026.95	37.43 %
CLIP P1 in submerged lands/state waters	12.80	0.05 %
CLIP P1 in terrestrial	13,294.13	55.12 %
CLIP P2 in submerged lands/state waters	5.67	0.02 %
CLIP P2 in terrestrial	1,770.22	7.34 %
TOTAL:	24,109.77	99.97 %

CLIP- Landscape Category							
Priority	Total Area (acres)					Percent of Area	
0	746.08					3.09 %	
2	9,330.93					38.69 %	
3	7,599.38					31.51 %	
5	6,440.11					26.7 %	
TOTAL:	24,116.50					100 %	
CLIP- Biodiversity Category							
Priority	Total Area (acres)					Percent of Area	
0	954.62					3.96 %	
1	189.62					0.79 %	
2	13,092.44					54.29 %	
3	3,520.07					14.6 %	
4	5,431.15					22.52 %	
5	928.60					3.85 %	
TOTAL:	24,116.50					100 %	
Priority FWC Strategic Habitat Conservation Areas 2024							
Priority	Total Area (acres)					Percent of Area	
2	4,621.20					19.16 %	
3	2,873.31					11.91 %	
5	330.54					1.37 %	
TOTAL:	7,825.04					32.45 %	
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						318.85	1.32 %
Cooper's hawk						330.54	1.37 %
Cooper's hawk	American swallow-tailed kite					91.65	0.38 %
Florida burrowing owl						2,462.80	10.21 %
Florida burrowing owl	Short-tailed hawk					3,561.08	14.77 %
Florida snail kite						579.43	2.4 %
Florida snail kite	Short-tailed hawk					228.74	0.95 %
Short-tailed hawk						251.95	1.04 %
TOTAL:						7,825.04	32.45 %
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	
Occasional	8,904.02					36.92 %	
Rare	15,212.48					63.08 %	
TOTAL:	24,116.50					100 %	
Rare Fish							
No Records Found							
Rare Fish Imperiled Waters							
COMMON NAME	SCIENTIFIC NAME			Total Area (acres)		Percent of Area	
Ironcolor shiner	Notropis chalybaeus			351.68		1.46 %	
TOTAL:			351.68		1.46 %		
Southern bald eagle nest							
Nest Count	Earliest Survey Year	Latest Survey Year		Total Area (acres)		Percent of Area	
1	1998	1998		20.09		0.08 %	
1	1998	1999		20.09		0.08 %	
1	2005	2012		20.09		0.08 %	
1	2009	2012		20.09		0.08 %	
2	2000	2012		34.15		0.14 %	
2	2001	2008		37.35		0.15 %	
2	2005	2012		26.74		0.11 %	
2	2008	2012		26.67		0.11 %	
3	1998	2012		29.11		0.12 %	
4	1998	2012		0.20		0 %	
TOTAL:				234.58		0.97 %	
Imperiled Species Richness							
Number of Species		Total Area (acres)			Percent of Area		
0		1,061.76			4.4 %		
1		196.75			0.82 %		
2		0.79			0 %		
3		3,099.03			12.85 %		
4		136.55			0.57 %		
5		14,174.37			58.77 %		
6		790.12			3.28 %		

7	2,550.59	10.58 %
8	1,808.39	7.5 %
9	298.16	1.24 %
TOTAL:	24,116.50	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	B?	1987-04-02	286.95	1.19 %
Bald Eagle	Haliaeetus leucocephalus	G5	S3	N	N	E	2003	52.06	0.22 %
Crested Caracara	Caracara plancus	G5	S2	FT	T	E	1987	931.64	3.86 %
Crested Caracara	Caracara plancus	G5	S2	FT	T	E	1987-01	1,123.70	4.66 %
Crested Caracara	Caracara plancus	G5	S2	FT	T	E	1989	2.81	0.01 %
Eastern Indigo Snake	Drymarchon couperi	G3	S2?	FT	T	AB	1987-04-01	511.50	2.12 %
Florida Burrowing Owl	Athene cunicularia floridana	G4T3	S3	ST	N	E	1987	97.02	0.4 %
Gopher Tortoise	Gopherus polyphemus	G3	S3	ST	N	E	1987-03-31	441.80	1.83 %
Little Blue Heron	Egretta caerulea	G5	S4	ST	N	E	1987-04-01	725.96	3.01 %
Little Blue Heron	Egretta caerulea	G5	S4	ST	N	E	1989-05-04	830.37	3.44 %
Osprey	Pandion haliaetus	G5	S3S4	N	N	E	1987-04-16	356.74	1.48 %
Snowy Egret	Egretta thula	G5	S3	N	N	E	1987-04-01	725.96	3.01 %
Southeastern Fox Squirrel	Sciurus niger niger	G5T5	S3	N	N	BC	2019-04-13	517.88	2.15 %
Tricolored Heron	Egretta tricolor	G5	S4	ST	N	E	1987-04-01	725.96	3.01 %
White Ibis	Eudocimus albus	G5	S4	N	N	E	1987-04-01	725.96	3.01 %
Wood Stork	Mycteria americana	G4	S2	FT	T, PDL	E	1987-04-01	725.96	3.01 %
Wood Stork	Mycteria americana	G4	S2	FT	T, PDL	F	1987-06-30	425.63	1.76 %
ZZ	Bird Rookery	G5	SNRB	N	N	E	1986	94.89	0.39 %
ZZ	Bird Rookery	G5	SNRB	N	N	E	1988-06-17	356.74	1.48 %
ZZ	Bird Rookery	G5	SNRB	N	N	E	1989-05-04	830.37	3.44 %
ZZ	Bird Rookery	G5	SNRB	N	N	F	1987-06-30	425.63	1.76 %
TOTAL:								10,915.54	45.26 %

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	21,095.50	87.47 %
Eastern Indigo Snake	Drymarchon couperi	829.64	3.44 %
Florida Grasshopper Sparrow	Ammodramus savannarum floridanus	2.36	0.01 %
Florida Long-tailed Weasel	Mustela frenata peninsulae	5,249.97	21.77 %
Florida Sandhill Crane	Antigone canadensis pratensis	21,614.61	89.63 %
Wood Stork	Mycteria americana	2,437.78	10.11 %
TOTAL:		51,229.86	212.43 %

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	6,276.51	26.03 %
2	16,508.00	68.45 %
5	0.55	0 %
TOTAL:	22,785.06	94.48 %

Water Resources

FDEP Surface Water Classification

Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
LOKOSEE DITCHES	STREAM	3143	3F	118.17	0.49 %
C-25 CANAL WEST (ST JOHNS MARSH)	STREAM	3160	3F	12.03	0.05 %
LAKE MARIAN	LAKE	3184	3F	30.48	0.13 %
LAKE MARIAN OUTLET	STREAM	3184A	3F	6,251.10	25.92 %
SKEETER SLOUGH	STREAM	3186F	3F	2,503.33	10.38 %
BLANKET BAY SLOUGH	STREAM	3186G	3F	0.94	0 %
C-24	STREAM	3197	3F	15,200.45	63.03 %
TOTAL:				24,116.50	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	PEM1Cd	813.63	3.37 %
FRESHWATER EMERGENT WETLAND	PEM1Ad	555.36	2.3 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1/3Ad	24.76	0.1 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2Fd	64.33	0.27 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1Fd	169.61	0.7 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1Cd	8.20	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2Cd	13.84	0.06 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/1Ad	4.77	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/1Fd	39.64	0.16 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1Ad	10.43	0.04 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/1Cd	256.94	1.07 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/4Cd	1.36	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2Ad	7.72	0.03 %
FRESHWATER EMERGENT WETLAND	PEM1Fd	835.15	3.46 %
RIVERINE	R2UBHx	58.43	0.24 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1/3Cd	317.77	1.32 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3Cd	59.32	0.25 %
LAKE	L1UBHx	21.80	0.09 %
RIVERINE	R5UBFx	378.51	1.57 %
RIVERINE	R5UBH	5.75	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/3Ad	6.91	0.03 %
FRESHWATER EMERGENT WETLAND	PEM1Fx	3.37	0.01 %
FRESHWATER POND	PUBHx	25.74	0.11 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3Cx	12.03	0.05 %
FRESHWATER POND	PAB3H	1.59	0.01 %
FRESHWATER POND	PAB4H	1.99	0.01 %
LAKE	L2ABH	3.80	0.02 %
LAKE	L1UBH	7.09	0.03 %
FRESHWATER EMERGENT WETLAND	PEM1C	86.80	0.36 %
FRESHWATER EMERGENT WETLAND	PEM1A	104.89	0.43 %
FRESHWATER EMERGENT WETLAND	PEM1Cx	3.57	0.01 %
FRESHWATER EMERGENT WETLAND	PEM1F	426.14	1.77 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2C	4.64	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/3C	5.79	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/3Cd	36.39	0.15 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1A	3.84	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1C	5.05	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/4A	6.80	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1Ax	0.77	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/3A	8.22	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4A	0.09	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO3C	1.67	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2F	14.83	0.06 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1Cd	2.83	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1/3C	0.45	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1C	5.42	0.02 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO7A	6.50	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6Cd	1.77	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6F	18.76	0.08 %
FRESHWATER POND	PUBH	7.12	0.03 %

FRESHWATER FORESTED/SHRUB WETLAND	PSS3C	3.38	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3Ax	0.62	0 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/1Cd	2.67	0.01 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3A	12.48	0.05 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1F	18.42	0.08 %
RIVERINE	R2AB4Hx	0.50	0 %
RIVERINE	R2AB3Hx	7.03	0.03 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS3/1Ad	22.43	0.09 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO1/3Cd	15.00	0.06 %
FRESHWATER FORESTED/SHRUB WETLAND	PSS1A	6.75	0.03 %
	TOTAL:	4,551.46	18.87 %
Priority Floodplain Resources			
Priority	Total Area (acres)	Percent of Area	
1	35.55	0.15 %	
2	420.72	1.74 %	
3	627.22	2.6 %	
4	854.43	3.54 %	
5	1,404.47	5.82 %	
6	478.37	1.98 %	
0	20,295.75	84.16 %	
TOTAL:	24,116.50	100 %	