

**Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Terra Ceia 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 **Terra Ceia** 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

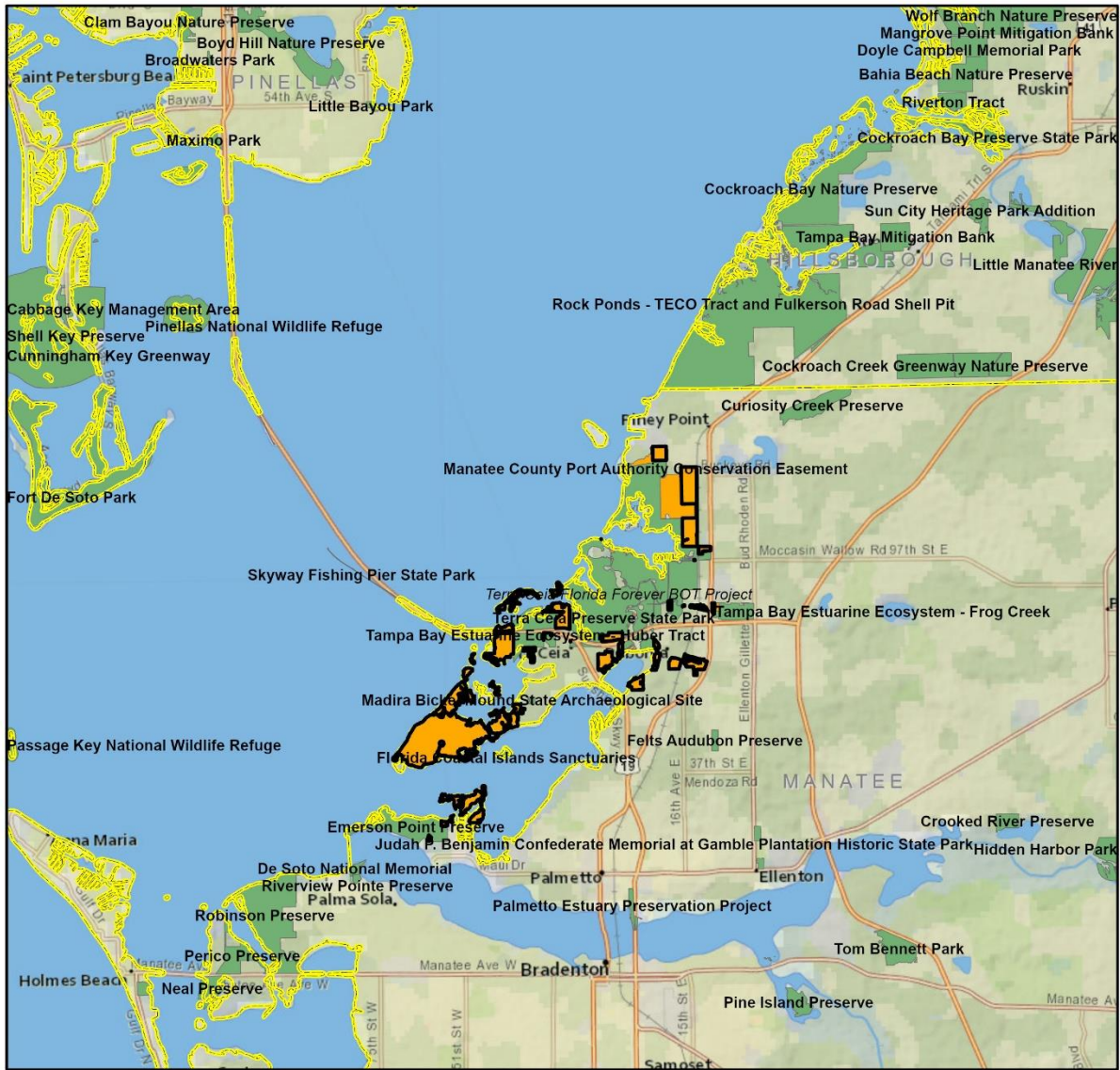
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review 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 5.9.**

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



**Terra Ceia
Florida Forever Project**
Manatee County
1,674 Acres



0 3 5 8 10 Miles

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

Vicinity Map

-  Terra Ceia Boundary
-  County Boundaries
-  Conservation Lands
-  Florida Forever Projects



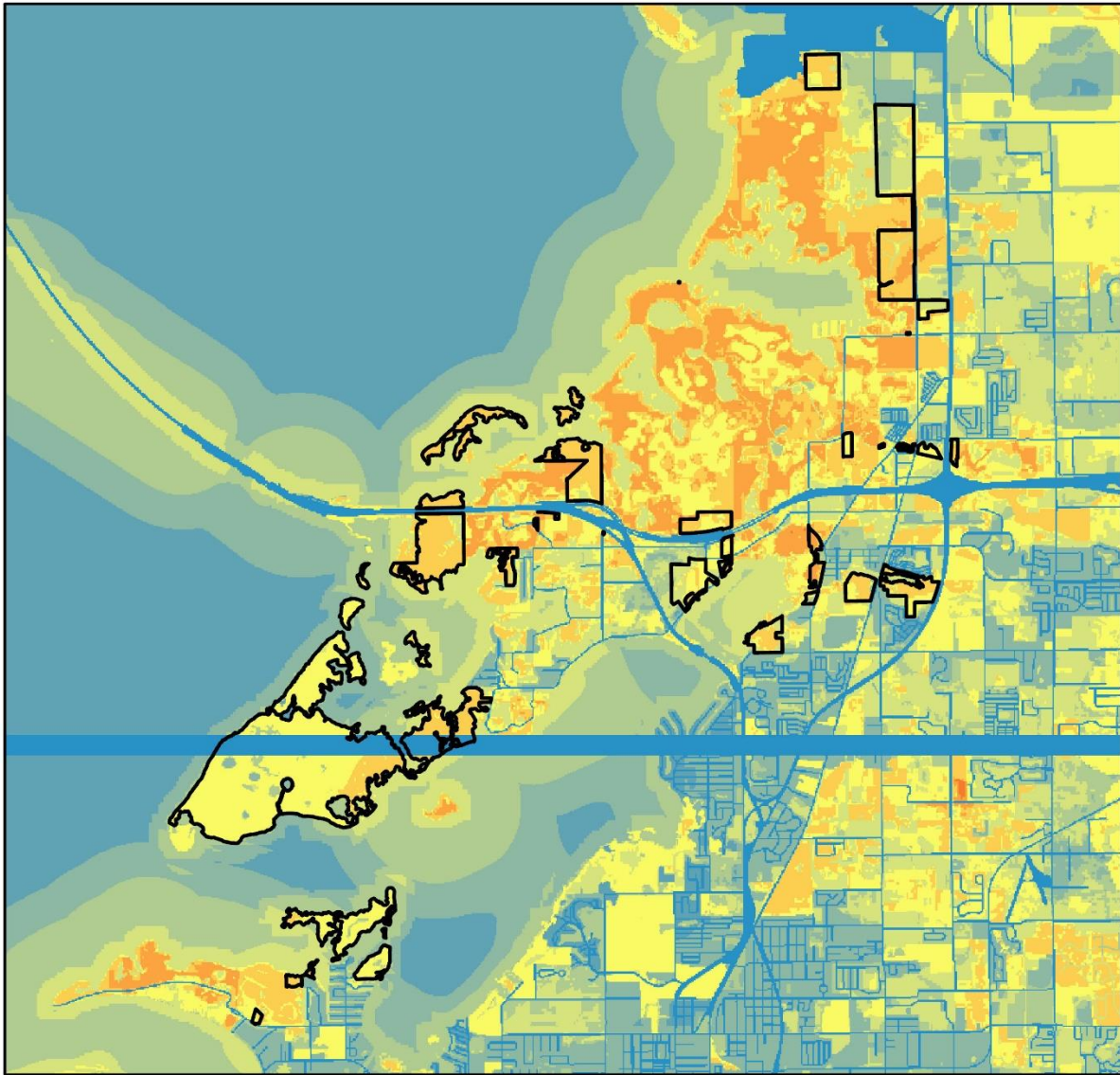
Terra Ceia
Florida Forever Project
Manatee County
1,674 Acres



0 1 2 3 4 Miles
Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2025

Aerial Imagery

 Terra Ceia Boundary



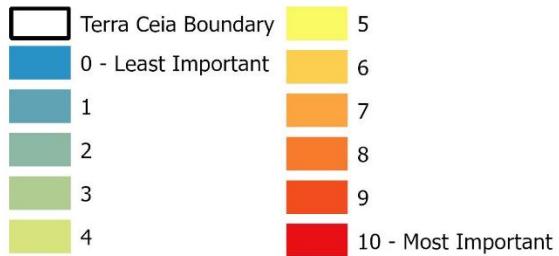
Terra Ceia
Florida Forever Project
 Manatee County
 1,674 Acres



0 1 2 3 4 Miles

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

Florida Landscape Assessment



Environmental Resource Analysis

FWC Land Conservation and Planning

Analysis Shape Type: Polygon

Analysis Timestamp: 10312025 09:13:42

Shape Name: Terra Ceia

Boundary Area: 1673.59 acres

Buffer Area: 0 acres

Total Area: 1673.59 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
High Intensity Urban	1822	Residential, Med. Density - 2-5 Dwelling Units/AC	18221	5.19	0.31 %
Low Intensity Urban	1821	Residential, Low Density	18212	7.32	0.44 %
High Intensity Urban	1822	Commercial and Services	18223	1.73	0.1 %
High Intensity Urban	1822	Residential, High Density > 5 Dwelling Units/AC	18222	0.46	0.03 %
Exotic Plants	7000	Australian Pine	7100	2.19	0.13 %
Mangrove Swamp	5250	Mangrove Swamp	5250	1,099.11	65.67 %
Low Intensity Urban	1821	Urban Open Land	18211	16.29	0.97 %
Exotic Plants	7000	Brazilian Pepper	7300	12.34	0.74 %
Vineyard and Nurseries	18334	Vineyard and Nurseries	18334	22.03	1.32 %
Orchards/Groves	18332	Fallow Orchards	183324	0.55	0.03 %
Improved Pasture	183313	Improved Pasture	183313	3.53	0.21 %
Transportation	1840	Transportation	1840	4.25	0.25 %
Cropland/Pasture	18331	Irrigated Row Crops	1833111	90.61	5.41 %
Isolated Freshwater Marsh	2121	Depression Marsh	21211	0.53	0.03 %
Prairies and Bogs	2110	Cutthroat Seep	21112	2.26	0.14 %
Cropland/Pasture	18331	Row Crops	183311	5.74	0.34 %
Low Intensity Urban	1821	Urban Open Forested	182111	4.61	0.28 %
Salt Marsh	5240	Salt Marsh	5240	0.90	0.05 %
Rural	1830	Rural Open	1831	13.45	0.8 %
Maritime Hammock	1650	Maritime Hammock	1650	5.37	0.32 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	26.23	1.57 %
Utilities	1860	Utilities	1860	1.11	0.07 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	41.62	2.49 %
Mesic Hammock	1120	Mesic Hammock	1120	5.15	0.31 %
Coastal Uplands	1600	Coastal Grassland	1630	0.00	0 %
Shrub and Brushland	1500	Shrub and Brushland	1500	9.95	0.59 %
Isolated Freshwater Marsh	2121	Isolated Freshwater Marsh	2121	1.81	0.11 %
Estuarine	5000	Estuarine	5000	20.62	1.23 %
Alluvial Stream	4100	Natural Rivers and Streams	4100	0.56	0.03 %
Estuarine	5000	Oyster Bar	5230	0.04	0 %
Tidal Flat	5220	Tidal Flat	5220	43.30	2.59 %
Hydric Hammock	2232	Hydric Hammock	2232	71.73	4.29 %
Freshwater Non-Forested Wetlands	2100	Floating/Emergent Aquatic Vegetation	2140	0.15	0.01 %
Cultural-Lacustrine	3200	Artificial Impoundment/Reservoir	3220	7.92	0.47 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	144.92	8.66 %
TOTAL:				1,673.59	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	51.40	3.07 %
CLIP P1 in submerged lands/state waters	77.60	4.64 %
CLIP P1 in terrestrial	1,334.28	79.73 %
CLIP P2 in submerged lands/state waters	6.81	0.41 %
CLIP P2 in terrestrial	195.51	11.68 %
TOTAL:	1,665.60	99.52 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	683.37	40.83 %
1	959.70	57.34 %
2	30.53	1.82 %
TOTAL:	1,673.59	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	124.32	7.43 %

1	50.30	3.01 %
2	169.33	10.12 %
3	366.88	21.92 %
4	957.35	57.2 %
5	5.41	0.32 %
TOTAL:	1,673.59	100 %
Priority FWC Strategic Habitat Conservation Areas 2020		
Priority	Total Area (acres)	Percent of Area
0	1,427.29	85.28 %
3	0.69	0.04 %
4	0.30	0.02 %
5	245.32	14.66 %
TOTAL:	1,673.59	100 %
FWC Strategic Habitat Conservation Areas 2024		
Species 1	Species 2	Species 3Species 4Species 5Species 6Species 7Species 8Species 9Total Area (acres)Percent of Area
Cooper's hawk		9.660.58 %
Florida black bear		74.224.43 %
Florida burrowing owl		5.910.35 %
Florida burrowing owl Cooper's hawk		2.400.14 %
Florida burrowing owl Florida black bear		1.560.09 %
Florida burrowing owl Mangrove cuckoo		0.040 %
Mangrove cuckoo		138.748.29 %
Mangrove cuckoo Florida black bear		19.611.17 %
	TOTAL:	252.1315.07 %
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	10.39	0.62 %
Rare	1,619.83	96.79 %
TOTAL:	1,630.22	97.41 %
Rare Fish		
COMMON NAME	SCIENTIFIC NAME	# Features
Mangrove rivulus	Kryptolebias marmoratus	1
	TOTAL:	1
Rare Fish Imperiled Waters		
COMMON NAME	SCIENTIFIC NAME	Total Area (acres)Percent of Area
Mangrove rivulus	Kryptolebias marmoratus	1,637.3697.83 %
Opossum pipefish	Microphis brachyurus	84.205.03 %
	TOTAL:	1,721.56102.87 %
Southern bald eagle nest		
No Records Found		
Imperiled Species Richness		
Number of Species	Total Area (acres)	Percent of Area
0	266.02	15.9 %
1	155.00	9.26 %
2	53.98	3.23 %
3	1.77	0.11 %
8	1,196.83	71.51 %
TOTAL:	1,673.59	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
Black-crowned Night Heron	Nycticorax nycticorax	G5	S3	N	N	NR	1989	188.97	11.29 %
Eastern Indigo Snake	Drymarchon couperi	G3	S2?	FT	T	X?	1990	242.08	14.46 %
Glossy Ibis	Plegadis falcinellus	G5	S3	N	N	NR	1989	188.97	11.29 %
hairy beach sunflower	Helianthus debilis ssp. vestitus	G5T2	S2	N	N	B	1996-04-29	1.30	0.08 %
Little Blue Heron	Egretta caerulea	G5	S4	ST	N	NR	1989	188.97	11.29 %
Reddish Egret	Egretta rufescens	G4	S2	ST	N	NR	1989	188.97	11.29 %
Roseate Spoonbill	Platalea ajaja	G5	S2	ST	N	E	1999	210.74	12.59 %
Snowy Egret	Egretta thula	G5	S3	N	N	NR	1989	188.97	11.29 %
Tricolored Heron	Egretta tricolor	G5	S4	ST	N	NR	1989	188.97	11.29 %

White Ibis	Eudocimus albus	G5	S4	N	N	NR	1989	188.97	11.29 %
Yellow-crowned Night Heron	Nyctanassa violacea	G5	S3	N	N	NR	1989	188.97	11.29 %
ZZ	Colonial Wading Bird Colony	G5	SNRB	N	N	E	1989	188.97	11.29 %
ZZ	Maritime hammock	G3	S2	N	N	C	1996-04-29	2.67	0.16 %
TOTAL:								2,157.54	128.92 %

Suitable Habitat that Supports Species Known to Occur in the Vicinity

COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area
Florida Long-tailed Weasel	Neogale frenata peninsulae	4.50	0.27 %
Florida Manatee	Trichechus manatus latirostris	173.89	10.39 %
Florida Sandhill Crane	Antigone canadensis pratensis	15.32	0.92 %
hairy beach sunflower	Helianthus debilis ssp. vestitus	594.33	35.51 %
Wood Stork	Mycteria americana	1,151.03	68.78 %
TOTAL:		1,939.07	115.86 %

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

No Records Found

Water Resources

FDEP Surface Water Classification

Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
TAMPA BAY (LOWER SEGMENT)	ESTUARY	1558A	2	19.84	1.19 %
TAMPA BAY (LOWER NORTH SEGMENT)	ESTUARY	1558BZ	2	53.67	3.21 %
TERRA CEIA BAY	ESTUARY	1797A	2	1,155.42	69.04 %
BISHOPS HARBOR	ESTUARY	1797B	2	336.50	20.11 %
FROG CREEK (TIDAL SEGMENT)	ESTUARY	1825A	3M	24.64	1.47 %
FROG CREEK (FRESHWATER SEGMENT)	STREAM	1825B	3F	11.84	0.71 %
MCMULLEN CREEK	STREAM	1841	3F	71.69	4.28 %
TOTAL:				1,673.59	100 %

Outstanding Florida Waters

Name	OFW Type	Total Area (acres)	Percent of Area
TERRA CEIA AQUATIC PRESERVE	Aquatic Preserve	1,261.68	75.39 %
TOTAL:		1,261.68	75.39 %

Florida Geological Survey Springs

No Records Found

National Wetlands Inventory

Wetland Type	Wetland Code	Total Area (acres)	Percent of Area
Estuarine and Marine Deepwater	E1UBL	18.80	1.12 %
Riverine	R2UBHx	0.09	0.01 %
Freshwater Pond	PUBHx	0.62	0.04 %
Estuarine and Marine Deepwater	E1UBLx	8.10	0.48 %
Riverine	R1UBVx	31.16	1.86 %
Freshwater Pond	PUBH	0.29	0.02 %
Riverine	R1UBV	1.65	0.1 %
Estuarine and Marine Wetland	E2SS3N	1,100.01	65.73 %
Estuarine and Marine Wetland	E2SS1P	0.56	0.03 %

Freshwater Forested/Shrub Wetland	PFO3A	14.29	0.85 %
Freshwater Emergent Wetland	PEM1A	1.81	0.11 %
Freshwater Forested/Shrub Wetland	PSS3A	3.43	0.2 %
Estuarine and Marine Wetland	E2ABM	0.49	0.03 %
Estuarine and Marine Wetland	E2USM	1.90	0.11 %
Estuarine and Marine Wetland	E2SS3P	0.53	0.03 %
Estuarine and Marine Wetland	E2EM1N	0.08	0 %
Estuarine and Marine Wetland	E2USN	22.67	1.35 %
Estuarine and Marine Wetland	E2EM1P	6.10	0.36 %
Estuarine and Marine Deepwater	E1ABL	0.00	0 %
Estuarine and Marine Wetland	E2USP	1.28	0.08 %
Estuarine and Marine Wetland	E2FO3N	40.64	2.43 %
Estuarine and Marine Wetland	E2FO3P	13.47	0.8 %
Estuarine and Marine Wetland	E2EM2N	0.75	0.05 %
	TOTAL:	1,268.72	75.81 %
Priority Floodplain Resources			
Priority	Total Area (acres)	Percent of Area	
4	155.82	9.31 %	
5	167.36	10 %	
6	70.51	4.21 %	
3	209.11	12.49 %	
0	50.42	3.01 %	
2	262.59	15.69 %	
1	757.79	45.28 %	
TOTAL:	1,673.59	100 %	