

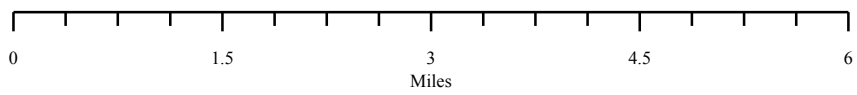
# Navarre, Florida



30°24'0"N

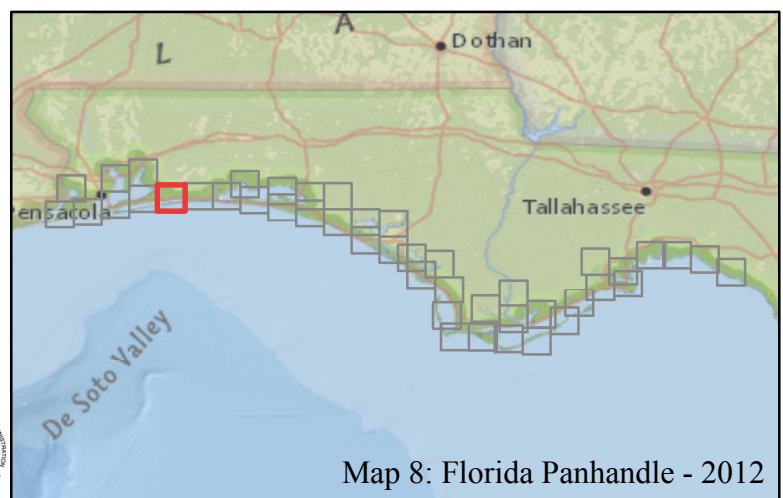
86°54'0"W

86°48'0"W



**ESI Shoreline Habitats on Map**

- 10A Salt- and brackish-water marshes
- 10B Freshwater marshes
- 10C Swamps
- 10D Scrub-shrub wetlands
- 9A Sheltered tidal flats
- 9B Vegetated low banks
- 8B Sheltered, solid man-made structures
- 8C Sheltered riprap
- 7 Exposed tidal flats
- 3A Fine- to medium-grained sand beaches
- 2B Exposed scarps and steep slopes in clay









Content from Florida Panhandle - 2012 ESI Atlas




Map 8: Florida Panhandle - 2012





# Navarre, Florida

## BIOLOGICAL RESOURCES



Birds																			
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	MIGRATING	MOLTING
 Diving	Brown pelican	C		-	X	X	X	X	X	X	X	X	X	X	X	X			
	Common loon			-	X	X	X	X								X	X		
	Double-crested cormorant			OCCASIONAL	X	X	X	X	X	X	X	X	X	X	X	X			
 Gull/Tern	Black skimmer	C		-						X	X	X	X	X			May-Sep		
	Common tern			COMMON	X	X				X	X	X	X	X	X	X			
	Forster's tern			COMMON	X	X	X	X	X	X	X	X	X	X	X	X			
	Herring gull			COMMON	X	X	X									X	X		
	Laughing gull			-	X	X	X	X	X	X	X	X	X	X	X	X			
	Least tern	T		-						X	X	X	X	X			Apr-Aug		
	Ring-billed gull			-	X	X	X	X	X	X	X	X	X	X	X	X			
	Royal tern			COMMON	X	X	X	X	X	X	X	X	X	X	X	X			
	Sandwich tern			COMMON	X	X	X	X								X	X	X	
	Terns			-	X	X	X	X	X	X	X	X	X	X	X	X			
 Passerine	Red-cockaded woodpecker	E	E	-	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul		
 Pelagic	Northern gannet			-	X	X	X	X								X			
 Raptor	Bald eagle			-	X	X	X	X	X	X	X	X	X	X	X	X	Nov-Jun		
	Osprey	C		-	X	X	X	X	X	X	X	X	X	X	X	X			
 Shorebird	Black-bellied plover			LESS-COMMON	X	X	X	X	X			X	X	X	X	X			
	Dunlin			LESS-COMMON	X	X	X	X	X				X	X	X	X			
	Piping plover	T	T	LESS-COMMON	X	X	X	X	X				X	X	X	X			
	Ruddy turnstone			LESS-COMMON	X	X	X	X				X	X	X	X	X			
	Sanderling			COMMON	X	X	X	X	X			X	X	X	X	X			
	Semipalmated plover			LESS-COMMON	X	X	X	X	X			X	X	X	X	X			
	Short-billed dowitcher			OCCASIONAL	X	X	X	X	X			X	X	X	X	X			
	Snowy plover	T		-	X	X						X	X	X	X	X	Mar-Aug		
	Willet			LESS-COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul		
	Wilson's plover			OCCASIONAL	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul		

Fish																					
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	EGGS	LARVAE	JUVENILE	ADULT
 Diadromous	Alabama shad	C		PRESENT	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Apr-Dec
	Gizzard shad			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Aug	Mar-Aug	Mar-Sep	Jan-Dec	Jan-Dec
	Gulf sturgeon	T	T	ABUNDANT	X	X	X	X						X	X	X	Mar-May	Mar-May	Apr-Jul	Jan-Dec	Jan-Dec
	Striped bass			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X					Jan-Dec


## Navarre, Florida (continued)

Fish (continued)																						
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	EGGS	LARVAE	JUVENILE	ADULT	
 Estuarine Nursery	Atlantic croaker			ABUNDANT						X	X	X					Sep-Apr	Sep-Apr	Sep-Apr	Jan-Dec	Jan-Dec	
	Atlantic sharpnose shark			PRESENT				X	X	X	X	X	X	X			May-Jul		Apr-Oct	Apr-Oct	Apr-Oct	
	Bay anchovy			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Feb-Oct	Feb-Nov	Mar-Nov	Jan-Dec	Jan-Dec
	Black drum			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Nov-Apr	Nov-Apr	Dec-May	Jan-Dec	Jan-Dec
	Black sea bass			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Dec-Apr	Dec-Apr	Dec-May	Jan-Dec	Jan-Dec
	Bluefish			COMMON			X	X	X	X	X	X	X	X	X	X		Sep-Jan*	Sep-Jan*	Sep-Jan*	Jan-Dec	Jan-Dec
	Bonnethead shark			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Oct-Nov		Aug-Sep	Oct-Jan*	Jul-May
	Bull shark			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Jun-Aug		Apr-Jun	Jan-Dec	Jan-Dec
	Gray snapper			ABUNDANT							X	X	X	X	X	X		Jun-Nov	Jun-Nov	Jun-Dec	Jan-Dec	Jan-Dec
	Grunts			PRESENT							X	X	X	X							Jun-Sep	
	Gulf flounder			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X				Dec-Mar	Jan-Dec	Feb-Oct
	Gulf menhaden			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Oct-Mar	Oct-Mar	Oct-May	Jan-Dec	Jan-Dec
	Hardhead catfish			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		May-Aug	Apr-Aug	Apr-Sep	Jan-Dec	Jan-Dec
	Hogchoker			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Apr-Oct	Apr-Oct	Apr-Oct	Jan-Dec	Jan-Dec
	Kingfishes			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X						
	Ladyfish			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Lane snapper			PRESENT							X	X	X	X				Sep-Jan*	Sep-Jan*	Sep-Jan*	Sep-Jan*	Sep-Jan*
	Mojarras			ABUNDANT				X	X	X	X	X	X					Apr-Nov	Apr-Nov	Apr-Nov	Apr-Oct	Apr-Nov
	Pigfish			COMMON				X	X	X	X	X	X					Jan-May	Jan-May	Jan-May	Apr-Oct	Jan-May
	Pinfish			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Oct-Apr	Oct-Apr	Oct-Apr	Jan-Dec	Jan-Dec
	Porgy spp.			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Aug	Jan-Aug	Jan-Sep	Jan-Dec	Apr-Dec
	Red drum			RARE	X	X	X	X	X	X	X	X	X	X	X	X		Sep-Dec	Sep-Dec	Sep-Dec	Jan-Dec	Jan-Dec
	Sand seatrout			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Mar-Sep	Mar-Sep	Mar-Oct	Jan-Dec	Jan-Dec
	Sheepshead			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Feb-Apr	Feb-Apr	Feb-Jul	Jan-Dec	Jan-Dec
	Silver mullet			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X					May-Oct	Jan-Dec
	Southern flounder			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Nov-Jan	Nov-Jan	Nov-Mar	Jan-Dec	Jan-Dec
	Spot			RARE	X	X	X	X	X	X	X	X	X	X	X	X		Oct-Apr	Oct-Apr	Oct-Apr	Jan-Dec	Jan-Dec
	Spotted seatrout			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Apr-Dec	Apr-Sep	Mar-Oct	Jan-Dec	Jan-Dec
Striped mullet			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Oct-Mar	Oct-Mar	Oct-May	Jan-Dec	Jan-Dec	
Tarpon			RARE							X	X	X							Jul-Dec	Jan-Dec	Jun-Aug	
Yellowfin menhaden			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Dec-Mar			Jan-Dec	Jan-Dec	
 Estuarine Resident	Code goby			RARE	X	X	X	X	X	X	X	X	X	X	X		Oct-Jan*	Oct-Jan*	Oct-Jan*	Jan-Dec	Jan-Dec	
	Gulf killifish			COMMON	X	X	X	X	X	X	X	X	X	X	X		Mar-Sep	Mar-Sep	Apr-Oct	May-Feb	Jan-Dec	
	Sheepshead minnow			COMMON	X	X	X	X	X	X	X	X	X	X	X		Apr-Oct	Apr-Oct	Apr-Nov	May-Feb	Jan-Dec	
	Silver perch			COMMON	X	X	X	X	X	X	X	X	X	X	X		Apr-Aug	Apr-Aug	Apr-Sep	Jan-Dec	Jan-Dec	
	Silversides			COMMON	X	X	X	X	X	X	X	X	X	X	X		Mar-Sep	Mar-Sep	Mar-Oct	Jan-Dec	Jan-Dec	
	Smalltooth sawfish	E		PRESENT	X	X	X	X	X	X	X	X	X	X	X					Jan-Dec	Jan-Dec	
 Fish	Vermillion snapper			COMMON			X	X	X	X	X	X	X				Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov	
 Freshwater	Bluegill			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X		Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec	
	Largemouth bass			COMMON	X	X	X	X	X	X	X	X	X	X	X		Mar-May	Mar-May	Mar-May	Jan-Dec	Jan-Dec	



## Navarre, Florida (continued)



Fish (continued)																						
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	SPAWNING	EGGS	LARVAE	JUVENILE	ADULT	
 Marine Benthic	Atlantic spadefish			PRESENT						X	X	X	X				May-Sep	May-Sep	May-Oct	Jan-Dec	Jan-Dec	
	Cusk eels			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Flatfish			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Florida pompano			RARE						X	X	X	X	X				Mar-Oct	Mar-Oct	Mar-Sep	Mar-Nov	Jun-Nov
	Gag grouper			COMMON	X	X			X	X	X	X	X	X	X						May-Oct	Oct-Feb
	Goatfishes			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Mar-Jun	Mar-Jun	Mar-Jul	Jan-Dec	Jan-Dec
	Gray triggerfish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		May-Sep	May-Sep	May-Oct	Apr-Nov	Apr-Nov
	Little tunny			COMMON	X	X	X	X	X	X	X	X	X	X	X	X						
	Lizardfishes			ABUNDANT						X	X	X	X					Apr-Aug	Apr-Aug	Apr-Oct	Jan-Dec	Jan-Dec
	Permit			PRESENT						X	X	X	X					Apr-Jun	Apr-Jun	Mar-Oct	Aug-Nov	Mar-Nov
	Rays			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec
	Red snapper			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		May-Oct	May-Oct	May-Nov	Apr-Jan	Apr-Jan
	Rock sea bass			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Mar-Jun	Mar-Jun	Mar-Jul	Jan-Dec	Jan-Dec
	Scamp grouper			ABUNDANT			X	X	X	X	X	X	X	X				Mar-May	Mar-May	Mar-Jun	Mar-Nov	Apr-Nov
	Searobins			COMMON			X	X	X	X	X							Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Skates			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec
	Tonguefish			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
 Marine Pelagic	Amberjacks			ABUNDANT				X	X	X	X	X	X	X	X		Apr-Nov	Apr-Nov	Apr-Dec	Apr-Dec	Apr-Dec	
	Atlantic tripletail			PRESENT	X	X	X	X	X	X	X	X	X	X	X			May-Sep	May-Sep	May-Oct	Jan-Dec	Jan-Dec
	Bigeye scad			PRESENT	X	X	X	X	X	X	X	X	X	X	X			Jun-Nov	Jun-Nov	Jun-Dec	Jan-Dec	Jan-Dec
	Blackfin tuna			PRESENT				X	X	X	X	X	X	X				Apr-Dec	Apr-Dec	Apr-Dec	Apr-Dec	Oct
	Blacktip shark			PRESENT			X	X	X	X	X	X	X					May-Jun		May-Sep	Mar-Nov	Apr-Nov
	Blue runner			COMMON			X	X	X	X	X							Apr-Aug	Apr-Aug	Apr-Sep	Jan-Dec	Jan-Dec
	Bluefin tuna		C	PRESENT			X	X	X									Apr-Jun	Apr-Jun	Apr-Jun	Apr-Jun	Apr-Jun
	Cobia			PRESENT	X	X	X	X	X	X	X	X	X	X	X			May-Sep	May-Sep	May-Sep	Mar-Nov	Mar-Nov
	Crevalle jack			COMMON				X	X	X	X	X						Apr-Aug	Apr-Aug	Apr-Sep	Jan-Dec	Jan-Dec
	Dolphin			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X			Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jul-Aug
	King mackerel			COMMON					X	X	X	X	X					Jun-Oct	Jun-Oct	Jun-Oct	Jun-Nov	Jun-Nov
	Red grouper			PRESENT	X	X	X	X	X	X	X	X	X	X	X			Mar-Jul				Jan-Dec
	Round scad			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X			Sep-Jan*	Sep-Jan*	Sep-Jan*	Jan-Dec	Jan-Dec
	Scalloped hammerhead			PRESENT	X	X	X	X	X	X	X	X	X	X	X			May-Jun		Apr-Oct	Jan-Dec	Apr-Nov
	Skipjack tuna			PRESENT			X	X	X	X	X							Apr-Oct	Apr-Oct	Apr-Oct	Apr-Oct	Apr-Oct
	Spanish mackerel			COMMON			X	X	X	X	X	X						May-Oct	May-Oct	May-Oct	May-Oct	Apr-Oct
	Spanish sardine			PRESENT	X	X	X	X	X	X	X	X	X	X	X			Mar-Nov	Mar-Nov	Mar-Nov	Jan-Dec	Jan-Dec
Thread herring			COMMON								X	X	X				Mar-Sep	Mar-Sep	Mar-Sep	Apr-Dec	Jan-Dec	
Wahoo			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X			Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec	



(\* ) = This life stage occurs during the months listed, but not continuously.

Habitats and Rare Plants																
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D
 Plant	Arkansas oak	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Baltzell's sedge	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Cruise's goldenaster	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Curtiss' sandgrass	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Hairy wild indigo	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Harper's yellow-eyed grass	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Large-leaved jointweed	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Panhandle lily	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Pine-woods bluestem	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Pineland hoary-pea	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Silky camellia	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	Spoon-leaved sundew	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	Sweet pitcherplant	T		-	X	X	X	X	X	X	X	X	X	X	X	X
	West's flax	E		-	X	X	X	X	X	X	X	X	X	X	X	X
	White-top pitcherplant	E		-	X	X	X	X	X	X	X	X	X	X	X	X










## Navarre, Florida (continued)

Marine Mammals																				
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	MATING	CALVING	PUPPING	MOLTING
 Dolphin	Bottlenose dolphin			-	X	X	X	X	X	X	X	X	X	X	X	X				
 Manatee	West Indian manatee	E	E	LOW			X	X	X	X	X	X	X	X	X					

Reptiles and Amphibians																						
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D	NESTING	HATCHING	INTERESTING	JUVENILE	ADULT	
 Alligator	Florida Bog Frog	C		-	X	X	X	X	X	X	X	X	X	X	X	X	Apr-Sep					Jan-Dec
 Turtle	Alligator snapping turtle	C		-	X	X	X	X	X	X	X	X	X	X	X	X	Apr-May	Aug-Oct	May-Nov	Jan-Dec	Jan-Dec	
	Gopher tortoise	T		-	X	X	X	X	X	X	X	X	X	X	X	X	Mar-Dec					
	Green sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X	Jun-Aug					
	Hawksbill sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X						
	Kemp's ridley sea turtle	E	E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X						
	Leatherback sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X						
Loggerhead sea turtle	T	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	May-Sep	Jul-Nov	Apr-Sep	Jan-Dec	Jan-Dec		

Terrestrial Mammals																
Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D
 Bear	Florida black bear	T		-	X	X	X	X	X	X	X	X	X	X	X	X
 Small Mammal	Santa Rosa beach mouse			-	X	X	X	X	X	X	X	X	X	X	X	X






### Human Use Resources

Icon	Type	Name	Contact	Phone
	Recreational Fishing	Navarre Beach Campground		
	Recreational Fishing	Navarre Beach Fishing Pier		
	Recreational Fishing	Shellfish Harvesting Area		
	National Park	Gulf Islands National Seashore	NATIONAL PARK SERVICE	850/934-2619
	Management Area	Pensacola Bay Swim	NFWFMD SWIM	850/539-5999
	Historical Site	Historic Property	FL SHPO	850/245-6440
	Critical Habitat	Gulf Sturgeon Critical Habitat	FWRI	
	Critical Habitat	Piping Plover Critical Habitat	USFWS	
	Critical Habitat	Reticulated Flatwoods Salamander	USFWS	
	Boat Ramp	East River Boat Ramp		850/983-1940
	Boat Ramp	Holley Boat Ramp #1		850/983-1940
	Boat Ramp	Navarre Beach - Fwc # Wb-47		
	Beach	Gulf Isl Ns		
	Beach	Navarre Bch		
	Access	Access		










## Navarre, Florida (continued)

### SHORELINE RESOURCES:

#### ESI Polygon Habitats

Pattern	ESI Rank	Habitat	Area (meters <sup>2</sup> )
	10A	Salt- and brackish-water marshes	432,693
	10B	Freshwater marshes	912,045
	10C	Swamps	14,451,774
	10D	Scrub-shrub wetlands	6,960,449
	7	Exposed tidal flats	142,843

#### Shoreline Types (Length of ESI Shoreline on Map = 102,918 meters ; Length of Shoreline on Map = 102,918 meters)

Color	ESI Rank	Shoreline Habitat	Length (meters)	% of ESI Shoreline
	10A	Salt- and brackish-water marshes	36,802	35
	10C	Swamps	27,993	27
	10D	Scrub-shrub wetlands	8,704	8
	9A	Sheltered tidal flats	692	<1
	9B	Vegetated low banks	1,200	1
	8B	Sheltered, solid man-made structures	9,021	8
	8C	Sheltered riprap	3,986	3
	7	Exposed tidal flats	27,529	26
	3A	Fine- to medium-grained sand beaches	48,843	47
	2B	Exposed scarps and steep slopes in clay	3,721	3

**Note:** A shoreline segment may include multiple shoreline habitats. If any segments include multiple habitats, the combined length of all habitats will exceed the length of the mapped ESI shoreline, and the percent of ESI shoreline values will sum to greater than 100%.



Content from Florida Panhandle - 2012 ESI Atlas