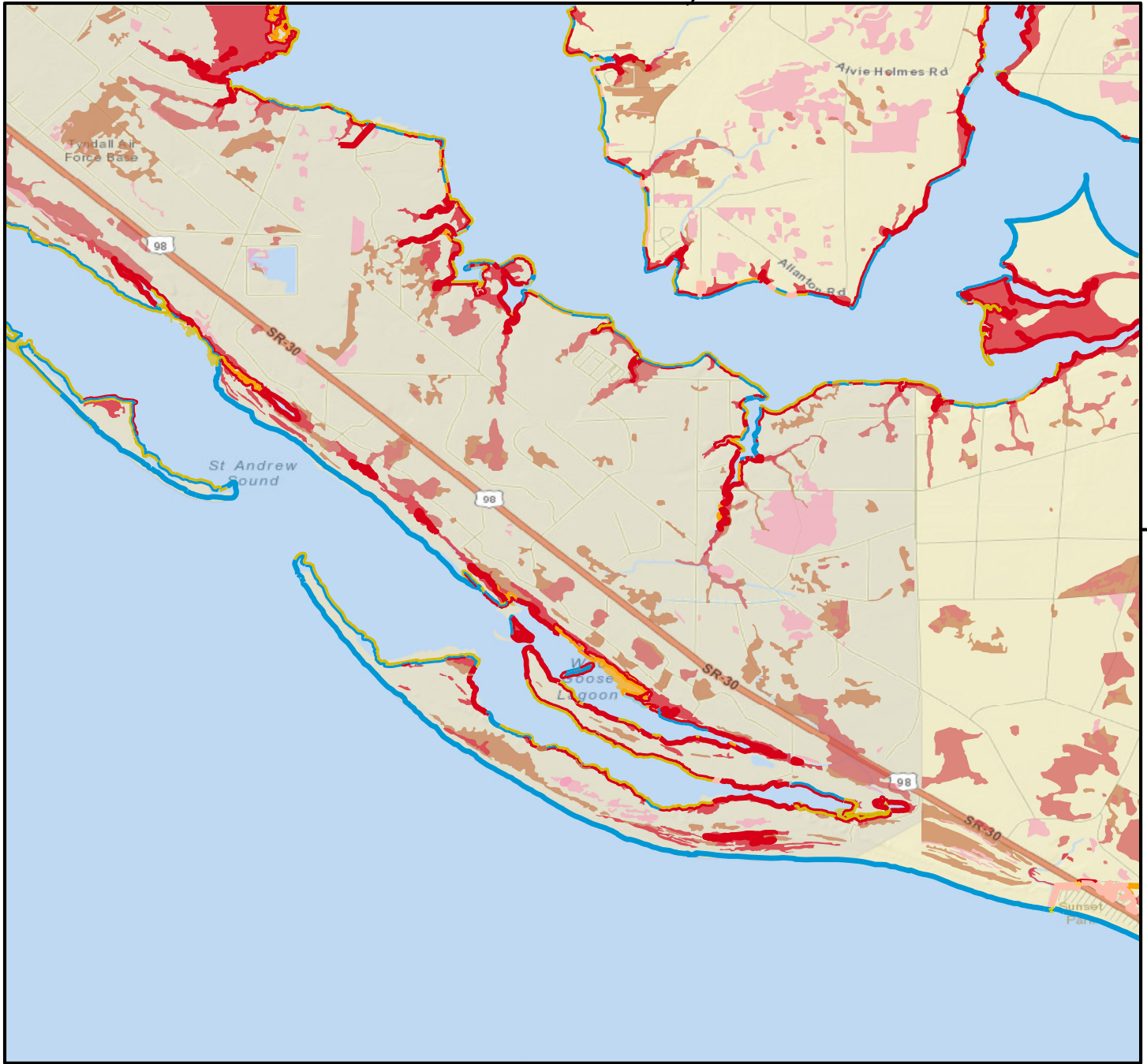


St Andrew Sound, Florida

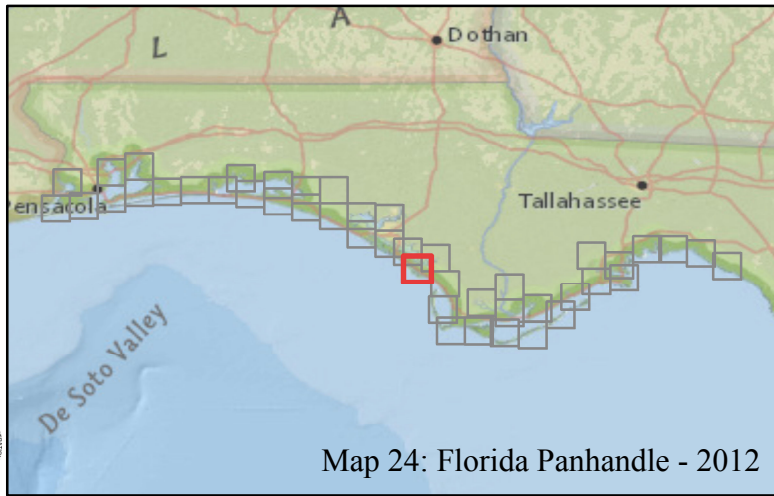
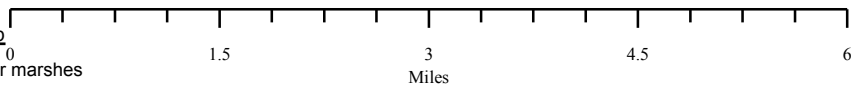


85°30'0\"/>

30°00'N








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
- 6B Riprap
- 5 Mixed sand and gravel beaches
- 3A Fine- to medium-grained sand beaches







St Andrew Sound, 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			
 Gull/Tern	Black skimmer	C	-	-					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			
 Passerine	Red-cockaded woodpecker	E	E	-	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	Nov-Jun			
	Osprey	C	-	-	X	X	X	X	X	X	X	X	X	X	X				
	Peregrine falcon		-	-	X	X	X	X					X	X	X				
 Shorebird	American oystercatcher	C	2	-	X	X	X	X	X	X	X	X	X	X	X	Mar-Jul			
	Piping plover	T	T	-	X	X	X	X			X	X	X	X					
	Red knot		2-28-BIRDS	-	X	X	X	X	X	X	X	X	X	X	X				
	Snowy plover	T	5-NESTS	-	X	X	X	X	X	X							Mar-Aug		
	Willet		2	-	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul			
	Wilson's plover		1-NEST	-	X	X	X	X	X	X	X	X	X	X	X	Apr-Jul			
 Waterfowl	American black duck		-	-	X	X	X	X					X	X	X				
	American coot		-	-	X	X						X	X	X	X				
	American wigeon		-	-	X	X	X	X					X	X	X				
	Bufflehead		100S	-	X	X								X					
	Canvasback		-	-	X	X	X							X	X				
	Common goldeneye		-	-	X	X	X							X					
	Gadwall		-	-	X	X	X						X	X	X				
	Green-winged teal		-	-	X	X	X	X					X	X	X	X			
	Lesser scaup		100S	-	X	X	X	X						X	X	X			
	Mallard		-	-	X	X	X					X	X	X	X				
	Mottled duck		-	-	X								X	X	X				
	Northern pintail		-	-	X	X	X						X	X	X				
	Red-breasted merganser		100S	-	X	X	X	X					X	X	X				
	Redhead		36000-131000	-	X	X	X							X	X				
	Ring-necked duck		-	-	X	X	X	X					X	X	X				
Ruddy duck		-	-	X	X	X	X					X	X	X					



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	PRESENT	X	X	X	X	X	X	X	X	X	X	X					Jan-Dec	Jan-Dec
	Gulf sturgeon	T	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X					Oct-Apr	Oct-Apr
	Striped bass		PRESENT	PRESENT	X	X	X	X	X	X	X	X	X	X	X						

St Andrew Sound, 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	X	X	X	X	X	X	X	X	X	Sep-Apr	Sep-Apr	Sep-Apr	Jan-Dec	Jan-Dec	
	Atlantic sharpnose shark			ABUNDANT				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		Mar-Nov	Mar-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			ABUNDANT			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-Jul		Apr-Jun	Jan-Dec	Jan-Dec
	Gray snapper			COMMON							X	X	X	X	X	X		Jun-Nov	Jun-Nov	Jun-Dec	Jan-Dec	Jan-Dec
	Grunts			RARE							X	X	X	X							Jun-Sep	
	Gulf flounder			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Nov-Feb	Nov-Feb	Nov-Mar	Jan-Dec	Jan-Dec
	Gulf menhaden			HIGHLY-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			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		May-Aug	May-Aug	May-Sep	Jan-Dec	Jan-Dec
	Kingfishes			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X					Jun-Dec	
	Ladyfish			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Nov	Jan-Nov	Jan-Dec	Jan-Dec	Jan-Dec
	Lane snapper			COMMON										X	X			Sep-Jan*	Sep-Jan*	Sep-Jan*	Sep-Jan*	Sep-Jan*
	Mojarras			ABUNDANT				X	X	X	X	X	X	X	X			Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov
	Pigfish			PRESENT	X	X	X	X										Jan-May	Jan-May	Jan-May		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.			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Jan-Aug	Jan-Aug	Jan-Sep	Jan-Dec	Apr-Dec
	Red drum			COMMON	X	X	X	X	X	X	X	X	X	X	X	X		Sep-Dec	Sep-Dec	Sep-Jan	Jan-Dec	Jan-Dec
	Sand seatrout			ABUNDANT	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	Nov-Sep
	Spot			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Oct-Apr	Oct-Apr	Oct-Apr	Jan-Dec	Jan-Dec
	Spotted seatrout			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X		Apr-Dec	Apr-Sep	Apr-Oct	Jan-Dec	Jan-Dec
	Striped mullet			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X		Oct-Mar	Oct-Mar	Oct-Mar	Jan-Dec	Jan-Dec
Tarpon			COMMON					X	X	X	X	X								May-Sep	Jun-Sep	
 Estuarine Resident	Code goby			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X		Apr-Sep	Apr-Sep	Apr-Sep	Jan-Dec	Jan-Dec	
	Gulf killifish			COMMON	X	X	X	X	X	X	X	X	X	X	X		Mar-Sep	Mar-Sep	Mar-Oct	May-Feb	Jan-Dec	
	Sheepshead minnow			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X		Mar-Sep	Mar-Sep	Apr-Oct	May-Mar	Jan-Dec	
	Silver perch			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X		Mar-Jul	Mar-Jul	Mar-Aug	Jan-Dec	Jan-Dec	
	Silversides			ABUNDANT	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	X			Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov	Apr-Nov	
 Freshwater	Bluegill			COMMON	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	

St Andrew Sound, 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	X	X	X	X	X	X	X	X	May-Sep	May-Sep	May-Oct	Jan-Dec	Jan-Dec
	Cusk eels			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Flatfish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Florida pompano			COMMON			X	X	X	X	X	X	X	X	X		Mar-Oct	Mar-Oct	Mar-Sep	Mar-Nov	
	Gag grouper			ABUNDANT	X	X			X	X	X	X	X	X	X					Jan-Dec	Jan-Dec
	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			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X					
	Lizardfishes			PRESENT	X	X	X	X	X	X	X	X	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			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec
	Red snapper			COMMON								X	X	X			May-Oct	May-Oct	May-Nov	Apr-Jan	Apr-Jan
	Rock sea bass			ABUNDANT				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	X		Mar-May	Mar-May	Mar-Jun	Mar-Nov	Apr-Nov
	Searobins			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
	Skates			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	Jan-Dec	Jan-Dec		Jan-Dec	Jan-Dec
	Tonguefish			PRESENT	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	
	Ballyhoo			PRESENT					X	X	X										
	Bigeye scad			HIGHLY-ABUNDANT	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	X	Apr-Dec	Apr-Dec	Apr-Dec	Apr-Dec	Oct	
	Blacknose shark			PRESENT	X	X	X	X	X	X	X	X	X	X	X	May-Jul		May-Oct	May-Oct	Jan-Dec	
	Blacktip shark			PRESENT			X	X	X	X	X	X	X	X		May-Jun		May-Sep	Mar-Nov	Apr-Nov	
	Blue runner			HIGHLY-ABUNDANT	X	X	X	X	X	X	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			COMMON			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	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	
	Finetooth shark			-					X	X	X	X						May-Sep	May-Sep	May-Sep	
	King mackerel			PRESENT						X	X	X	X			Jun-Oct	Jun-Oct	Jun-Oct	Jun-Nov	Jun-Nov	
	Red grouper			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	Mar-Jul				Jan-Dec	
	Round scad			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	Sep-Jan*	Sep-Jan*	Sep-Jan*	Jan-Dec	Jan-Dec	
	Scalloped hammerhead			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	May-Jun		Apr-Oct	Jan-Dec	Apr-Nov	
	Spanish mackerel			ABUNDANT				X	X	X	X	X	X	X		May-Oct	May-Oct	May-Oct	Feb-Dec	Feb-Dec	
	Spanish sardine			HIGHLY-ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	Mar-Nov	Mar-Nov	Mar-Nov	Jan-Dec	Jan-Dec	
Spinner shark			-					X	X	X	X				May-Jun			Jun-Sep	May-Jun		
Thread herring			ABUNDANT	X	X				X	X	X	X	X	X	Mar-Sep	Mar-Sep	Mar-Sep	Apr-Feb	Jan-Dec		
Wahoo			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.

St Andrew Sound, Florida (continued)


Habitats and Rare Plants

Subelement	Species	S	F	Concentration	J	F	M	A	M	J	J	A	S	O	N	D
 Plant	Apalachicola dragon-head	T	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Bumpy jointtail grass	T	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Chapman's crownbeard	T	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Florida skullcap	E	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Giant water-dropwort	E	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Godfrey's butterwort	E	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Godfrey's goldenaster	E	-	-	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
	Nightflowering wild petunia	E	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Panhandle spiderlily	E	-	-	X	X	X	X	X	X	X	X	X	X	X	X
	Quillwort yellow-eyed grass	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
	Thick-leaved water-willow	E	-	-	X	X	X	X	X	X	X	X	X	X	X	X
 Wetland	Southern milkweed	T	-	-	X	X	X	X	X	X	X	X	X	X	X	X


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	
 Turtle	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			May-Nov	Jan-Dec	Jan-Dec	
	Hawksbill sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec	
	Kemp's ridley sea turtle	E	E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X				Jan-Dec	Jan-Dec	
	Leatherback sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X	Jun-Jul	Aug-Sep		Jan-Dec	Jan-Dec	
	Loggerhead sea turtle	T	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	May-Aug	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
 Small Mammal	Choctawhatchee beach mouse	E	E	-	X	X	X	X	X	X	X	X	X	X	X	X
	St. Andrews beach mouse	E	E	-	X	X	X	X	X	X	X	X	X	X	X	X

Human Use Resources

Icon	Type	Name	Contact	Phone
	Recreational Fishing	Mexico Beach Pier		
	Recreational Fishing	Shellfish Harvesting Area		
	Marina	Hide-a-way Harbor Marina	DOCKMASTER	850/648-5407
	Marina	Marquardt's Marina & Yacht Sl's	DOCKMASTER	850/648-8900
	Marina	Mexico Beach Marina	DOCKMASTER	850/648-5023
	Marina	Mexico Beach Municipal Marina	DOCKMASTER	850/648-5700
	Management Area	St. Andrew Bay Watershed Swim	NWFWMD SWIM	850/539-5999
	Historical Site	Historic Property	FL SHPO	850/245-6440
	Critical Habitat	Choctawhatchee Beach Mouse	USFWS	
	Critical Habitat	Gulf Sturgeon Critical Habitat	FWRI	
	Critical Habitat	Piping Plover Critical Habitat	USFWS	

St Andrew Sound, Florida (continued)

Human Use Resources (continued)

Icon	Type	Name	Contact	Phone
	Critical Habitat	St. Andrews Beach Mouse Critical Habitat	USFWS	
	Boat Ramp	Bay County Public Boat Ramp		
	Boat Ramp	City Of Mexico Beach Public Boat Ramp		
	Boat Ramp	Marquardt's Marina		
	Boat Ramp	New Mexico Beach Public Ramp		
	Beach	Crooked Island		
	Beach	Mexico Beach		
	Artificial Reef	Artificial Reef		
	Access	Access		

SHORELINE RESOURCES:

ESI Polygon Habitats

Pattern	ESI Rank	Habitat	Area (meters ²)
	10A	Salt- and brackish-water marshes	5,772,469
	10B	Freshwater marshes	4,224,332
	10C	Swamps	5,162,331
	10D	Scrub-shrub wetlands	5,941,904
	9A	Sheltered tidal flats	117,211
	7	Exposed tidal flats	225,004

Shoreline Types (Length of ESI Shoreline on Map = 163,081 meters ; Length of Shoreline on Map = 154,901 meters)

Color	ESI Rank	Shoreline Habitat	Length (meters)	% of ESI Shoreline
	10A	Salt- and brackish-water marshes	106,597	65
	10B	Freshwater marshes	287	<1
	10C	Swamps	2,959	1
	10D	Scrub-shrub wetlands	1,300	<1
	9A	Sheltered tidal flats	11,277	6
	9B	Vegetated low banks	3,446	2
	8B	Sheltered, solid man-made structures	6,099	3
	8C	Sheltered riprap	153	<1
	7	Exposed tidal flats	48,674	29
	6B	Riprap	86	<1
	5	Mixed sand and gravel beaches	2,376	1
	3A	Fine- to medium-grained sand beaches	62,206	38

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%.

