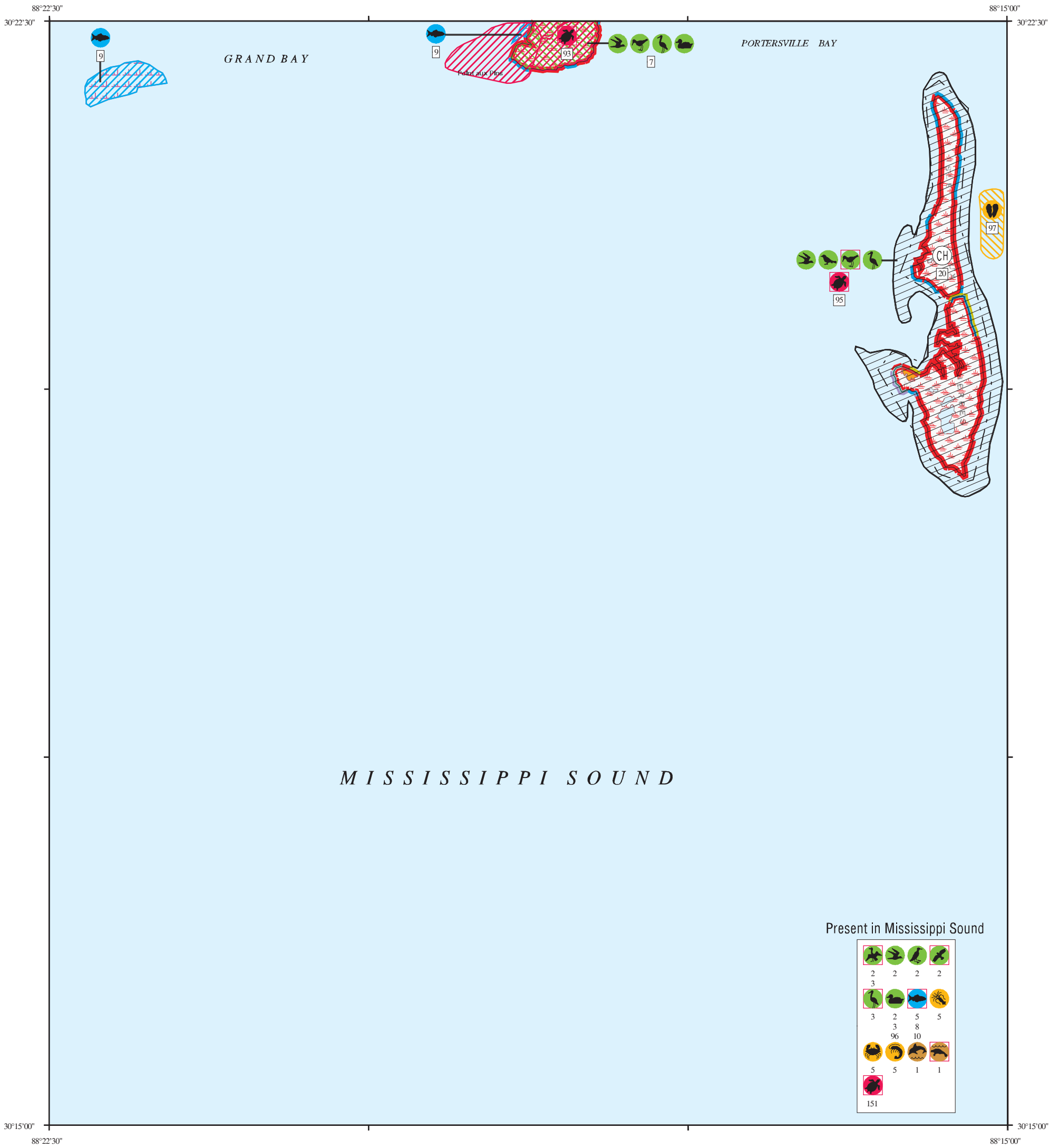


# ENVIRONMENTAL SENSITIVITY INDEX MAP



### SHORELINE HABITATS (ESI)

- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN MUD OR CLAY  
 2B EXPOSED SCARPS AND STEEP SLOPES IN CLAY
- 3A FINE-TO MEDIUM-GRAINED SAND BEACHES  
 3B SCARPS AND STEEP SLOPES IN SAND
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED SCARPS IN MUD OR CLAY
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS  
 9B SHELTERED, VEGETATED LOW BANKS
- 10A SALT-AND BRACKISH-WATER MARSHES
- 10B FRESHWATER MARSHES
- 10C SWAMPS
- 10D SCRUB-SHRUB WETLANDS

SCALE 1:50000

1 .5 0 1 KILOMETER

1 .5 0 1 MILE

**Not For Navigation**  
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National Oceanic and Atmospheric Administration  
National Ocean Service  
Office of Response and Restoration  
Emergency Response Division

**Alabama: ESIMAP 4**

**BIOLOGICAL RESOURCES:**

**BIRD:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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	Bonaparte's gull		X	X	X	X	X						X	X					Brown pelican		X	X	X	X	X	X	X	X	X	X	X	X					Bufflehead		X	X	X								X	X					Canvasback		X	X	X								X	X					Common goldeneye		X	X	X								X	X					Common loon		X	X	X	X				X	X	X	X						Forster's tern		X	X	X	X							X	X					Herring gull		X	X	X	X	X	X	X	X	X	X	X	X					Horned grebe		X	X	X	X				X	X	X	X						Laughing gull		X	X	X	X	X	X	X	X	X	X	X						Least tern		X	X	X	X				X	X	X	X						Lesser scaup		X	X	X								X	X					Magnificent frigatebird					X	X	X	X	X	X	X	X						Northern gannet		X	X	X	X						X	X	X					Osprey	P	X	X	X	X	X	X	X	X	X	X	X	X					Redhead		X	X	X								X	X					Ring-billed gull		X	X	X	X	X	X	X	X	X	X	X	X					Royal tern		X	X	X	X	X	X	X	X	X	X	X	X				3	Double-crested cormorant		X	X	X							X	X	X					Greater scaup		X	X	X								X	X					Hooded merganser		X	X	X								X	X					Red-breasted merganser		X	X	X								X	X					Reddish egret	P	X	X	X	X	X	X	X	X	X	X	X	X					Ruddy duck		X	X	X								X	X				7	American bittern		X	X	X								X						Black tern		X	X	X								X	X	X				Black-crowned night-heron					X	X	X	X	X	X	X	X		APR-JUN				Blue-winged teal		X	X									X						Caspian tern		X	X	X	X	X	X	X	X	X	X	X	X					Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Common moorhen		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X		FEB-MAY			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Greater yellowlegs		X	X	X	X							X	X					Killdeer		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			King rail		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			Least bittern					X	X	X	X	X	X	X	X		MAY-JUL				Little blue heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Purple gallinule					X	X	X	X	X					MAY-JUL				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Solitary sandpiper		X	X	X								X	X					Spotted sandpiper		X	X	X								X	X	X				Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																					
	Brown pelican		X	X	X	X	X	X	X	X	X	X	X	X					Bufflehead		X	X	X								X	X					Canvasback		X	X	X								X	X					Common goldeneye		X	X	X								X	X					Common loon		X	X	X	X				X	X	X	X						Forster's tern		X	X	X	X							X	X					Herring gull		X	X	X	X	X	X	X	X	X	X	X	X					Horned grebe		X	X	X	X				X	X	X	X						Laughing gull		X	X	X	X	X	X	X	X	X	X	X						Least tern		X	X	X	X				X	X	X	X						Lesser scaup		X	X	X								X	X					Magnificent frigatebird					X	X	X	X	X	X	X	X						Northern gannet		X	X	X	X						X	X	X					Osprey	P	X	X	X	X	X	X	X	X	X	X	X	X					Redhead		X	X	X								X	X					Ring-billed gull		X	X	X	X	X	X	X	X	X	X	X	X					Royal tern		X	X	X	X	X	X	X	X	X	X	X	X				3	Double-crested cormorant		X	X	X							X	X	X					Greater scaup		X	X	X								X	X					Hooded merganser		X	X	X								X	X					Red-breasted merganser		X	X	X								X	X					Reddish egret	P	X	X	X	X	X	X	X	X	X	X	X	X					Ruddy duck		X	X	X								X	X				7	American bittern		X	X	X								X						Black tern		X	X	X								X	X	X				Black-crowned night-heron					X	X	X	X	X	X	X	X		APR-JUN				Blue-winged teal		X	X									X						Caspian tern		X	X	X	X	X	X	X	X	X	X	X	X					Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Common moorhen		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X		FEB-MAY			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Greater yellowlegs		X	X	X	X							X	X					Killdeer		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			King rail		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			Least bittern					X	X	X	X	X	X	X	X		MAY-JUL				Little blue heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Purple gallinule					X	X	X	X	X					MAY-JUL				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Solitary sandpiper		X	X	X								X	X					Spotted sandpiper		X	X	X								X	X	X				Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																							
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	Canvasback		X	X	X								X	X					Common goldeneye		X	X	X								X	X					Common loon		X	X	X	X				X	X	X	X						Forster's tern		X	X	X	X							X	X					Herring gull		X	X	X	X	X	X	X	X	X	X	X	X					Horned grebe		X	X	X	X				X	X	X	X						Laughing gull		X	X	X	X	X	X	X	X	X	X	X						Least tern		X	X	X	X				X	X	X	X						Lesser scaup		X	X	X								X	X					Magnificent frigatebird					X	X	X	X	X	X	X	X						Northern gannet		X	X	X	X						X	X	X					Osprey	P	X	X	X	X	X	X	X	X	X	X	X	X					Redhead		X	X	X								X	X					Ring-billed gull		X	X	X	X	X	X	X	X	X	X	X	X					Royal tern		X	X	X	X	X	X	X	X	X	X	X	X				3	Double-crested cormorant		X	X	X							X	X	X					Greater scaup		X	X	X								X	X					Hooded merganser		X	X	X								X	X					Red-breasted merganser		X	X	X								X	X					Reddish egret	P	X	X	X	X	X	X	X	X	X	X	X	X					Ruddy duck		X	X	X								X	X				7	American bittern		X	X	X								X						Black tern		X	X	X								X	X	X				Black-crowned night-heron					X	X	X	X	X	X	X	X		APR-JUN				Blue-winged teal		X	X									X						Caspian tern		X	X	X	X	X	X	X	X	X	X	X	X					Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Common moorhen		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X		FEB-MAY			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Greater yellowlegs		X	X	X	X							X	X					Killdeer		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			King rail		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			Least bittern					X	X	X	X	X	X	X	X		MAY-JUL				Little blue heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Purple gallinule					X	X	X	X	X					MAY-JUL				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Solitary sandpiper		X	X	X								X	X					Spotted sandpiper		X	X	X								X	X	X				Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																											
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	Forster's tern		X	X	X	X							X	X					Herring gull		X	X	X	X	X	X	X	X	X	X	X	X					Horned grebe		X	X	X	X				X	X	X	X						Laughing gull		X	X	X	X	X	X	X	X	X	X	X						Least tern		X	X	X	X				X	X	X	X						Lesser scaup		X	X	X								X	X					Magnificent frigatebird					X	X	X	X	X	X	X	X						Northern gannet		X	X	X	X						X	X	X					Osprey	P	X	X	X	X	X	X	X	X	X	X	X	X					Redhead		X	X	X								X	X					Ring-billed gull		X	X	X	X	X	X	X	X	X	X	X	X					Royal tern		X	X	X	X	X	X	X	X	X	X	X	X				3	Double-crested cormorant		X	X	X							X	X	X					Greater scaup		X	X	X								X	X					Hooded merganser		X	X	X								X	X					Red-breasted merganser		X	X	X								X	X					Reddish egret	P	X	X	X	X	X	X	X	X	X	X	X	X					Ruddy duck		X	X	X								X	X				7	American bittern		X	X	X								X						Black tern		X	X	X								X	X	X				Black-crowned night-heron					X	X	X	X	X	X	X	X		APR-JUN				Blue-winged teal		X	X									X						Caspian tern		X	X	X	X	X	X	X	X	X	X	X	X					Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Common moorhen		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X		FEB-MAY			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Greater yellowlegs		X	X	X	X							X	X					Killdeer		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			King rail		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			Least bittern					X	X	X	X	X	X	X	X		MAY-JUL				Little blue heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Purple gallinule					X	X	X	X	X					MAY-JUL				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Solitary sandpiper		X	X	X								X	X					Spotted sandpiper		X	X	X								X	X	X				Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																	
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	Common moorhen		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X		FEB-MAY			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Greater yellowlegs		X	X	X	X							X	X					Killdeer		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			King rail		X	X	X	X	X	X	X	X	X	X	X	X		APR-AUG			Least bittern					X	X	X	X	X	X	X	X		MAY-JUL				Little blue heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Purple gallinule					X	X	X	X	X					MAY-JUL				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Solitary sandpiper		X	X	X								X	X					Spotted sandpiper		X	X	X								X	X	X				Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	Spotted sandpiper		X	X	X								X	X	X				Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	White ibis		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL			Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Willet		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Yellow-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUL		95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
95	American oystercatcher	P 10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	Black skimmer		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUL			Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Cattle egret					X	X	X	X	X	X				MAY-JUN				Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Clapper rail		X	X	X	X	X	X	X	X	X	X	X	X		MAY-AUG			Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	Great egret		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN			Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Least tern	50 PAIRS				X	X	X	X	X					MAY-JUL				Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Louisiana seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X		MAR-JUL			Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	Shorebirds		X	X	X	X							X	X	X				Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	Snowy egret		X	X	X	X	X	X	X	X	X	X	X	X		APR-JUN			Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X		MAY-JUN			White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	White ibis					X	X	X	X	X	X				APR-JUN			96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
96	Black scoter		X	X									X	X					White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	White-winged scoter		X	X									X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

**FISH:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
5	Atlantic croaker		4	4	4	4	4	4	3	3	3	3	3	3	SEP-APR	SEP-APR	OCT-APR	JAN-DEC	JAN-DEC
	Atlantic stingray		2	2	2	2	2	2	2	2	2	2	2	2					JAN-DEC
	Bay anchovy		3	3	3	4	4	4	4	4	4	4	4	4	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Bay whiff		2	2	2	2	2	2	2	2	2	2	2	2					JAN-DEC
	Crevalle jack		2	2	2	2	2	2	2	2	2	2	2	2	JAN-DEC	MAY-SEP	MAY-SEP	JAN-DEC	MAY-SEP
	Darter goby		2	2	2	2	2	2	2	2	2	2	2	2					JAN-DEC
	Fringed flounder		2	2	2	2	2	2	2	2	2	2	2	2					JAN-DEC
	Gafftopsail catfish						1	2	2	2	1								JUN-OCT
	Gray snapper						1	1	1	1	1	1	1	1					MAY-DEC
	Gulf killifish		2	2	2	3	3	3	3	3	3	3	2		JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Gulf menhaden		4	4	4	4	4	4	4	4	4	4	4	4	OCT-MAR	OCT-MAR	OCT-MAY	JAN-DEC	JAN-DEC
	Gulf toadfish		2	2	2	2	2	2	2	2	2	2	2	2					JAN-DEC
	Hardhead catfish		2	2	4	4	4	4	4	4	4	4	4	2	APR-AUG	APR-AUG	APR-SEP	JAN-DEC	JAN-DEC
	Least puffer		2	2	2	2	2	2	2	2	2	2	2	2					JAN-DEC
	Pigfish				1	1	1	1	1	1	2	1							MAR-NOV
	Pinfish		3	3	3	3	4	4	4	4	4	3	3		NOV-MAR	NOV-MAR	NOV-APR	JAN-DEC	JAN-DEC
	Red drum		2	2	2	2	2	2	2	2	2	2	2	2	SEP-NOV	SEP-FEB	SEP-FEB	JAN-DEC	JAN-DEC
	Sand seatrout		4	4	4	4	4	4	4	4	4	4	4	4	MAR-OCT	MAY-OCT	FEB-OCT	JAN-DEC	JAN-DEC
	Silver perch		3	3	3	3	3	3	3	3	3	3	3	3	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Southern flounder		3	3	3	3	3	3	3	2	3	3	3	3	SEP-JAN	SEP-JAN	SEP-APR	JAN-DEC	JAN-DEC
	Southern kingfish		2	2	3	3	3	3	3	3	3	3	3	3					JAN-DEC
	Spot		4	4	4	4	4	4	4	4	4	4	4	4	NOV-MAR	NOV-APR	NOV-MAR	JAN-DEC	JAN-DEC
	Spotfin mojarra					1	2	2	1	1	1	1							MAY-NOV
	Spotted seatrout		3	3	3	3	3	3	3	3	3	3	3	3	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Star drum		1	1	2	2	2	2	2	2	2	1	1						JAN-DEC
	Striped anchovy				1	1	1	1	1	1	1	1	1						APR-DEC
	Striped mullet		4	4	4	4	4	4	4	4	4	4	4	4	NOV-MAY	NOV-MAY	NOV-MAY	JAN-DEC	JAN-DEC
	Threadfin shad		2	2	2	2	1	1	1	1	1	1	2						JAN-DEC
	White mullet		1	1	1	1	1	1	1	1	1	1	1	1					JAN-DEC
8	Atlantic spadefish					2	2	3	3	3	2	1					JUN-SEP		APR-DEC
	Atlantic sturgeon		1	1	1	1							1	1					OCT-MAY
	Black drum		2	2	2	2	2	2	2	2	2	2	2	2	FEB-APR	FEB-APR	FEB-APR	JAN-DEC	JAN-DEC
	Bluefish				2	2	2	2	2	2					APR-OCT				APR-OCT
	Florida pompano				1	2	3	3	3	2	2	1	1		MAY-JUL	MAY-JUL	MAY-JUL	MAY-NOV	MAR-SEP
	Gulf butterfish		2	2	2	3	3	2	2	2	2	2	2						JAN-DEC
	Gulf flounder		2	2	2	2	2	2	2	2	2	2	2	2	NOV-FEB	NOV-FEB	NOV-FEB	JAN-DEC	JAN-DEC
	Harvestfish		1	1	1	2	2	2	2	2	2	1	1					JAN-DEC	
	Ladyfish				1	1	2	1	1	1	1	1							MAR-OCT
	Scaled sardine				1	1	1	1	2	2									APR-OCT
	Sheepshead		2	2	2	2	2	2	2	2	2	2	2	2	FEB-MAR	FEB-APR	FEB-MAY	JAN-DEC	JAN-DEC
	Silver seatrout		1	1	1	1	1	1	1	2	2	1	1	1					JAN-DEC
	Southern hake		1	1	1	1						1							FEB-MAY
	Spanish mackerel		1	1	1	3	3	3	3	3	3	1	1	1	JUN-SEP	JUN-SEP	JUN-SEP	APR-SEP	JAN-DEC

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

**Alabama: ESIMAP 4 (cont.)**

**BIOLOGICAL RESOURCES: (cont.)**

**FISH: (cont.)**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
8	Spotted hake		1	1	1	1	1	1							-	-	-	-	JAN-JUN
	Tarpon		2	2	2	2	2	2	2	2	2	2	2	2	APR-SEP	APR-SEP	MAY-SEP	JAN-DEC	JAN-DEC
9	Lined seahorse		1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	JAN-DEC
10	Gulf sturgeon	P T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC

**INVERTEBRATE:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
5	Atlantic brief squid		2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	JAN-DEC
	Blue crab		4	4	3	4	4	4	4	4	4	4	4	4	MAR-NOV	MAR-NOV	MAR-DEC	JAN-DEC	JAN-DEC
	Brown shrimp		4	4	4	4	4	4	4	4	4	4	4	4	NOV-APR	NOV-APR	FEB-NOV	JAN-DEC	JAN-DEC
	Grass shrimp		3	3	3	3	3	3	3	3	3	3	3	2	-	-	-	JAN-DEC	JAN-DEC
	Pink shrimp		1	1	2	2	2	2	2	2	2	2	2	2	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
	White shrimp		4	4	3	3	3	4	4	4	4	4	4	4	MAR-OCT	MAR-NOV	JAN-DEC	JAN-DEC	JAN-DEC
97	Eastern oyster		2	2	2	2	2	2	2	2	2	2	2	2	APR-NOV	-	APR-NOV	APR-NOV	-

**MARINE MAMMAL:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
1	Bottlenose dolphin		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	-	-
	West Indian manatee	E VERY LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

**REPTILE:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
93	Mississippi diamondback terrapin	P	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
95	Mississippi diamondback terrapin	P	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
151	Green sea turtle	P T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	APR-SEP
	Kemp's ridley sea turtle	P E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	APR-SEP
	Leatherback sea turtle	P E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	-
	Loggerhead sea turtle	P T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	APR-SEP

**HUMAN USE RESOURCES:**

**CRITICAL HABITAT:**

HUN#	Name	Contact	Phone
20	PIPING PLOVER CRITICAL HABITAT	USFWS	251/441-5181

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