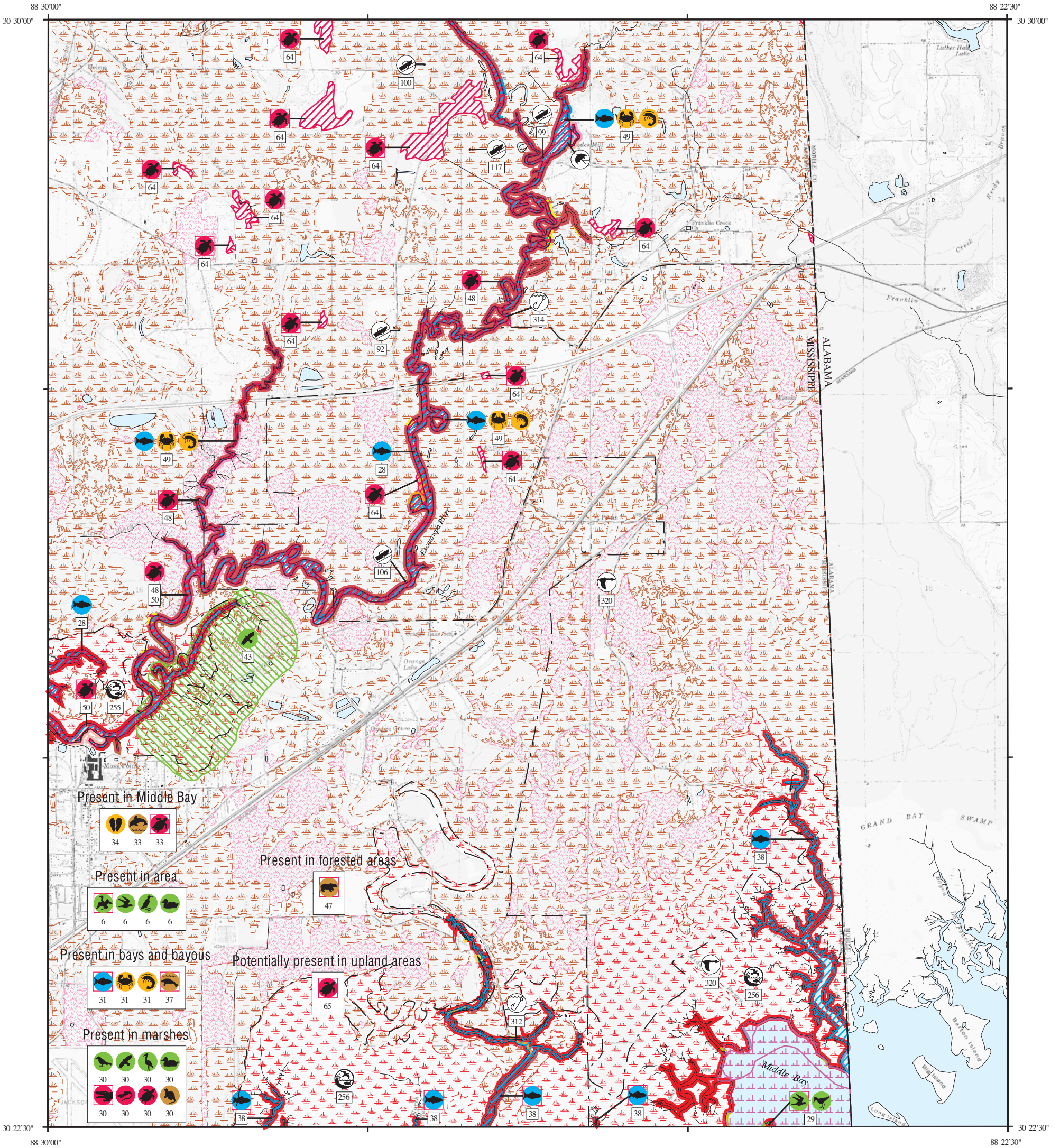


ENVIRONMENTAL SENSITIVITY INDEX MAP



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
- 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

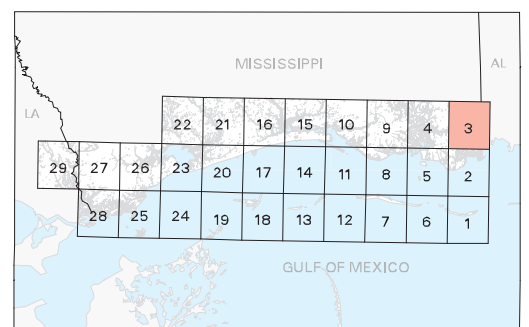


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Mississippi: ESIMAP 3

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting	
6	American white pelican		X	X	X								X	X	X	-	-	-
	Bonaparte's gull		X	X	X	X							X	X	-	-	-	
	Brown pelican	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Bufflehead		X	X	X	X							X	X	X	-	-	-
	Canvasback		X	X	X	X							X	X	X	-	-	-
	Common goldeneye		X	X	X	X							X	X	X	-	-	-
	Common loon		X	X	X	X							X	X	X	-	-	-
	Double-crested cormorant		X	X	X								X	X	X	-	-	-
	Greater scaup		X	X	X	X							X	X	X	-	-	-
	Herring gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Hooded merganser		X	X	X	X							X	X	X	-	-	-
	Horned grebe		X	X	X	X							X	X	-	-	-	
	Laughing gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Lesser scaup		X	X	X	X							X	X	X	-	-	-
	Long-tailed duck		X	X	X	X							X	X	X	-	-	-
	Northern gannet		X	X									X	X	X	-	-	-
	Pied-billed grebe		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Red-breasted merganser		X	X	X	X							X	X	X	-	-	-
	Redhead		X	X	X	X							X	X	X	-	-	-
	Ring-billed gull		X	X	X								X	X	-	-	-	
	Ring-necked duck		X	X	X	X							X	X	X	-	-	-
	Ruddy duck		X	X	X	X							X	X	X	-	-	-
	Terns		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
29	American oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-
	Black-bellied plover		X	X	X								X	X	-	-	-	
	Dowitchers		X	X	X								X	X	-	-	-	
	Dunlin		X	X	X								X	X	-	-	-	
	Greater yellowlegs		X	X	X	X							X	X	X	-	-	-
	Gull-billed tern		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-
	Killdeer		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Least sandpiper		X	X	X	X							X	X	X	-	-	-
	Least tern	E				X	X	X	X	X					MAY-SEP	-	-	-
	Lesser yellowlegs		X	X	X	X							X	X	X	-	-	-
	Red knot		X	X	X								X	X	-	-	-	
	Royal tern		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-
	Ruddy turnstone		X	X	X								X	X	-	-	-	
	Sanderling		X	X	X								X	X	-	-	-	
	Sandwich tern					X	X	X	X	X					MAY-SEP	-	-	-
	Semipalmated plover		X	X	X								X	X	X	-	-	-
	Semipalmated sandpiper		X	X	X	X							X	X	X	-	-	-
	Snowy plover		X	X	X								X	X	-	-	-	
	Spotted sandpiper		X	X	X	X							X	X	X	-	-	-
	Western sandpiper		X	X	X	X	X						X	X	X	-	-	-
	Willet		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-	-
	Wilson's plover		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	-
30	American coot		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	American wigeon		X	X	X	X							X	X	-	-	-	
	Black-crowned night-heron		X										X	X	-	-	-	
	Blue-winged teal		X	X	X	X							X	X	X	-	-	-
	Bufflehead		X	X	X	X							X	X	X	-	-	-
	Canada goose		X	X	X	X	X	X	X	X	X	X	X	X	FEB-MAY	-	-	-
	Canvasback		X	X	X	X							X	X	X	-	-	-
	Cattle egret		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	-	-	-	
	Gadwall		X	X	X								X	X	X	-	-	-
	Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-
	Great egret		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Greater scaup		X	X	X	X							X	X	X	-	-	-
	Green heron		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Green-winged teal		X	X	X	X							X	X	X	-	-	-
	Hooded merganser		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	-
	King rail		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Least bittern			X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-
	Lesser scaup		X	X	X	X							X	X	X	-	-	-
	Little blue heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Mallard		X	X	X								X	X	X	-	-	-
	Marsh wren		X	X	X	X							X	X	X	-	-	-
	Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	-
	Nelson's sharp-tailed sparrow		X	X	X	X							X	X	X	-	-	-
	Northern pintail		X	X	X								X	X	X	-	-	-
	Northern shoveler		X	X	X								X	X	X	-	-	-
	Osprey		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-	-
	Redhead		X	X	X	X							X	X	X	-	-	-
	Ring-necked duck		X	X	X	X							X	X	X	-	-	-
	Ruddy duck		X	X	X	X							X	X	X	-	-	-
	Seaside sparrow		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Sedge wren		X	X	X	X							X	X	X	-	-	-
	Snowy egret					X	X	X	X						MAY-SEP	-	-	-
	Sora			X	X	X							X	X	X	-	-	-
	Tricolored heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Virginia rail			X	X	X							X	X	X	-	-	-
	Wood duck		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	-
	Yellow-crowned night-heron			X	X	X	X	X							-	-	-	
43	Bald eagle		X	X	X	X	X						X	X	NOV-JUN	-	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
28	Blackmouth shiner		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-OCT	APR-OCT	APR-OCT	JAN-DEC
31	Alligator gar	C	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Atlantic croaker		X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-APR	JAN-DEC	APR-OCT
	Atlantic sturgeon		X	X	X	X							X	X	-	-	-	-	OCT-MAY
	Atlantic thread herring			X	X	X	X	X	X	X	X				-	-	-	-	MAR-NOV
	Bay anchovy		X	X	X	X	X	X	X	X	X	X	X	X	FEB-OCT	FEB-OCT	FEB-OCT	JAN-DEC	JAN-DEC
	Blue catfish		X	X	X	X							X	X	X	-	-	-	-
	Bluefish		X	X	X	X							X	X	X	-	-	OCT-APR	-
	Channel catfish		X	X	X	X							X	X	MAR-MAR	-	-	-	-
	Florida pompano					X	X	X	X	X	X				-	-	-	MAY-NOV	-
	Gafftopsail catfish					X	X	X	X						JUN-JUL	-	-	MAY-AUG	MAY-AUG
	Gizzard shad		X	X									X	X	X	-	-	NOV-FEB	NOV-FEB
	Gulf butterfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-AUG	JAN-DEC
	Gulf killifish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-	-	-
	Gulf menhaden		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-DEC	JAN-DEC	MAR-AUG
	Halfbeak			X	X	X	X	X					X	X	X	-	-	-	APR-OCT
	Hardhead catfish		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	MAY-SEP	JAN-DEC	MAR-OCT
	Harvestfish			X	X	X	X	X					X	X	X	-	-	-	-
	Inland silverside		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Ladyfish			X	X	X	X	X							-	-	-	APR-SEP	-

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.

Mississippi: ESIMAP 3 (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	
31	Longnose killifish		X	X	X	X	X	X	X	X	X	X	X	X	JUN-JUL	-	-	-	-	-
	Marsh killifish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Northern kingfish					X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Pigfish				X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Pinfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR	JAN-DEC	-	
	Red drum		X	X	X	X	X	X	X	X	X	X	X	X	-	-	SEP-FEB	JAN-DEC	-	
	Sailfin molly		X	X				X	X	X	X	X	X	X	-	-	-	-	-	
	Sand seatrout		X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAY-OCT	FEB-OCT	JAN-DEC	JAN-DEC	
	Scaled sardine				X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	AUG-SEP	-	
	Sheepshead		X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-MAY	JAN-DEC	JUN-FEB	
	Sheepshead minnow		X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-OCT	-	-	
	Silver perch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC	
	Skipjack herring		X	X	X	X					X	X			MAR-APR	-	-	-	-	
	Southern flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Southern hake		X	X	X	X									-	-	-	-	-	
	Southern kingfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	-	-	JAN-NOV	-	
	Spot		X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAY	JAN-DEC	MAR-OCT	
	Spotted seatrout		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC	
	Striped anchovy				X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	APR-AUG	APR-DEC	-	
	Striped bass				X	X	X								APR-JUN	-	-	-	-	
	Striped mullet		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAY	NOV-MAY	NOV-MAY	JAN-DEC	JAN-DEC	
	Tarpon		X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-SEP	JAN-DEC	-	
	White mullet		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
38	Saltmarsh topminnow	C	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAY-JUN	-	JAN-DEC	
49	Atlantic croaker		X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-APR	JAN-DEC	-	
	Atlantic sturgeon		X	X	X	X					X	X	X	X	-	-	-	-	OCT-MAY	
	Bay anchovy		X	X	X	X	X	X	X	X	X	X	X	X	FEB-OCT	FEB-OCT	FEB-OCT	JAN-DEC	JAN-DEC	
	Blue catfish		X	X	X	X				X	X	X	X	X	-	-	-	-	-	
	Bluegill		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	JAN-DEC	JAN-DEC	
	Channel catfish		X	X	X	X	X			X	X	X	X	X	MAR-MAR	-	-	-	-	
	Gulf butterfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-AUG	JAN-DEC	
	Gulf killifish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC	
	Gulf menhaden		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-DEC	JAN-DEC	MAR-AUG	
	Hardhead catfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	MAR-OCT	
	Harvestfish				X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Largemouth bass		X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	JAN-DEC	JAN-DEC	
	Longear sunfish		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	-	
	Pigfish				X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Pinfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR	JAN-DEC	-	
	Rainwater killifish				X	X	X								-	-	-	-	-	
	Red drum		X	X	X	X	X	X	X	X	X	X	X	X	-	-	SEP-FEB	JAN-DEC	-	
	Redear sunfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Rough silverside		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC	
	Sailfin molly		X	X						X	X	X	X	X	-	-	-	-	-	
	Sand seatrout		X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAY-OCT	FEB-OCT	JAN-DEC	JAN-DEC	
	Scaled sardine				X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	AUG-SEP	-	
	Sheepshead		X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-MAY	JAN-DEC	JUN-FEB	
	Sheepshead minnow		X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-OCT	APR-NOV	MAY-SEP	JAN-DEC	
	Shiners		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Silver perch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC	
	Skipjack herring		X	X	X	X					X	X			MAR-APR	-	-	-	-	
	Southern flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Spot		X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAY	JAN-DEC	MAR-OCT	
	Spotted seatrout		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC	
	Spotted sunfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Striped anchovy				X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	APR-AUG	APR-DEC	-	
	Striped bass				X	X	X								APR-JUN	-	-	-	-	
	Striped mullet		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAY	NOV-MAY	NOV-MAY	JAN-DEC	JAN-DEC	
	White mullet		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	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
31	Blue crab		X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	MAY-NOV	MAY-NOV	JAN-DEC
	Brown shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	FEB-NOV	JAN-DEC
	Pink shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-NOV	APR-NOV	JAN-DEC
	Stone crab		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-OCT	APR-OCT	JAN-DEC
	White shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-NOV	JAN-DEC	JAN-DEC
34	Eastern oyster		X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	MAR-DEC	APR-DEC	APR-DEC	JAN-DEC
49	Blue crab				X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	MAY-NOV	MAY-NOV	MAY-NOV
	Brown shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	FEB-NOV	FEB-NOV
	Pink shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-NOV	APR-NOV	APR-NOV
	White shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-NOV	MAR-NOV	MAR-NOV

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
33	Bottlenose dolphin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
37	West Indian manatee	E E	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
30	American alligator	T T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Diamondback terrapin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Gulf salt marsh snake		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
33	Kemp's ridley sea turtle	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Loggerhead sea turtle	E T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
48	Alligator snapping turtle	C	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Yellow-blotched map turtle	E T	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-	-	-
50	Alabama red-bellied turtle	E E	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	-	JAN-DEC	-
64	Gopher tortoise	E T MED-HIGH PROBABILITY	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	-	-	-	-
65	Gopher tortoise	E T LOW PROBABILITY	X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	-	-	-	-

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
30	Muskrat		X	X	X	X	X	X	X	X	X	X	X	X
	Northern river otter		X	X	X	X	X	X	X	X	X	X	X	X
47	Louisiana black bear	E T	X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

BOAT RAMP:

HUN#	Name	Contact	Phone
92	HWY 57 RAMP		

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.

Mississippi: ESIMAP 3 (cont.)

HUMAN USE RESOURCES: (cont.)

BOAT RAMP: (cont.)

HUN#	Name	Contact	Phone
99	LOWER RINES RAMP PAS WMA		
100	MCCRAE DEAD RIVER PAS. WMA		
106	POLLOCK FERRY BOAT RAMP	JACKSON COUNTY	228/826-5330
117	WILKERSON FERRY RAMP		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
255	ESCATAWPA RIVER COASTAL PRESERVE	MDMR	228/374-5000
256	GRAND BAY COASTAL PRESERVE	NERR MANAGER	228/475-7047

RECREATIONAL FISHING:

HUN#	Name	Contact	Phone
312	POINT-O-PINES FISHING CAMP	DON GLENNON	228/474-1327
314	SHINGLE MILL FISHING CAMP		228/475-8085

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
320	GRAND BAY NATIONAL WILDLIFE REFUGE	REFUGE MANAGER	228/497-6322