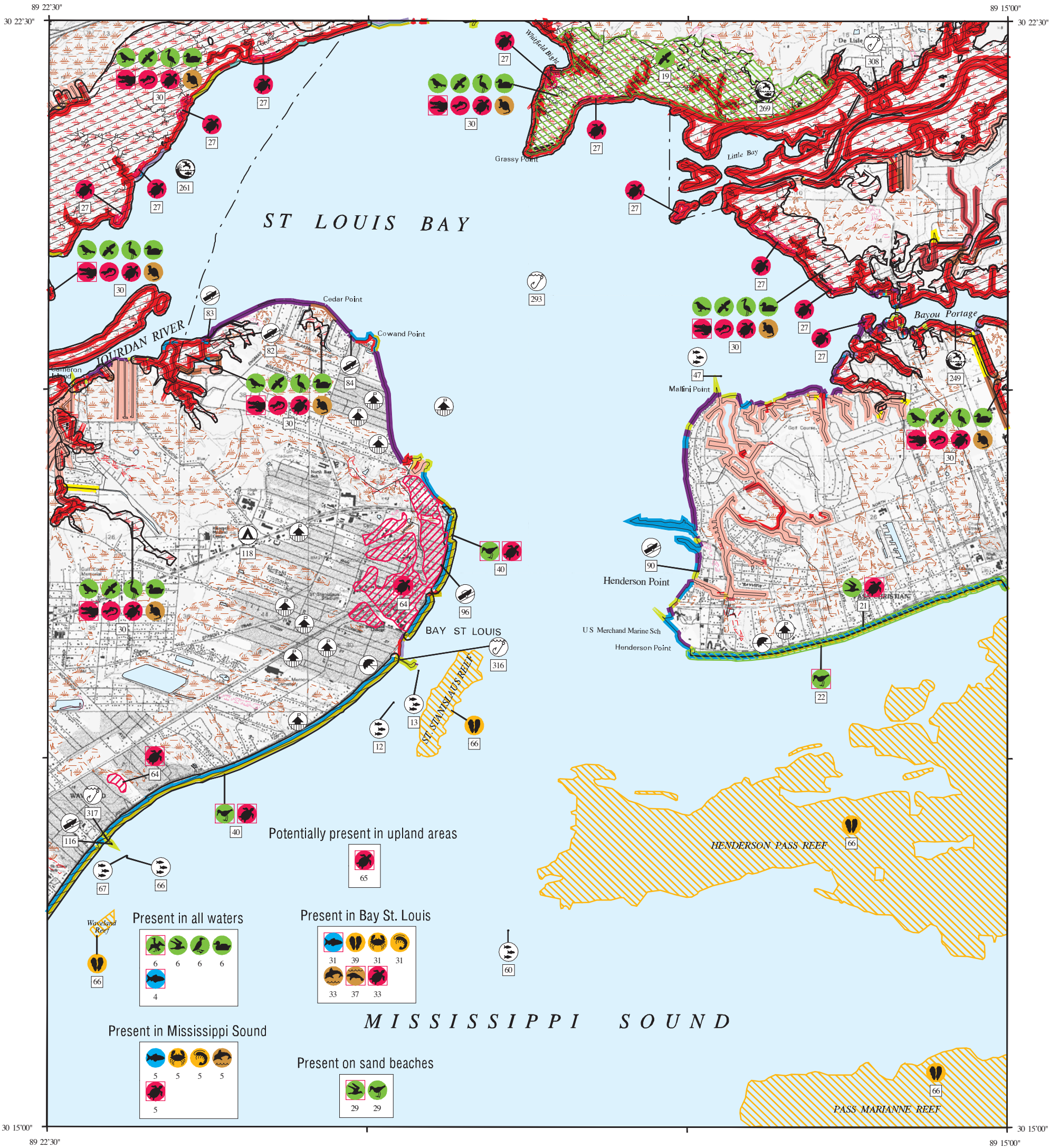


ENVIRONMENTAL SENSITIVITY INDEX MAP

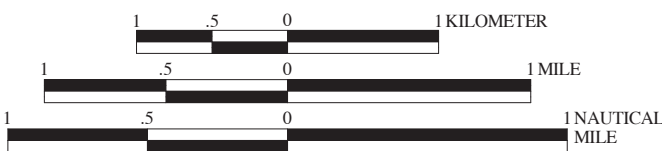


SHORELINE HABITATS (ESI)

- 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

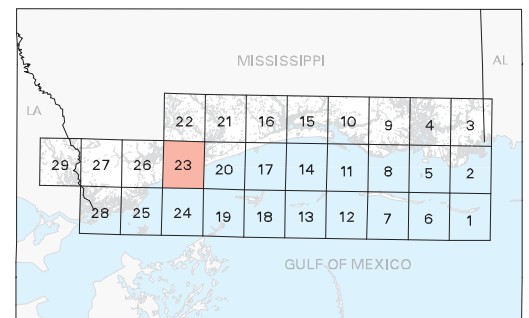


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Office of Response and Restoration
Emergency Response Division



Mississippi: ESIMAP 23 (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
5	Gray snapper							X	X	X	X	X	X	X	-	-	MAY-DEC	MAY-DEC	-
	Gulf butterfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-AUG	JAN-DEC
	Gulf kingfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	MAR-JAN
	Gulf menhaden		X	X	X	X	X	X	X	X	X	X	X	X	OCT-FEB	OCT-FEB	OCT-MAY	JAN-DEC	JAN-DEC
	Halfbeak							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	JAN-DEC
	Harvestfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JUN-NOV	JAN-DEC	APR-OCT
	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	X	X	-	-	-	APR-SEP	-
	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	-	-	MAR-JUN	-	-
	Pigfish							X	X	X	X	X	X	X	APR-MAY	-	-	-	-
	Pinfish		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	NOV-MAR	NOV-APR	JAN-DEC	JAN-DEC
	Red drum		X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-FEB	SEP-FEB	JAN-DEC	JAN-DEC
	Red snapper							X	X	X	X	X	X	X	-	-	-	-	-
	Rock sea bass							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
	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	APR-SEP	-	-	AUG-SEP	-
	Sheepshead		X	X	X	X	X	X	X	X	X	X	X	X	FEB-MAR	FEB-APR	FEB-MAY	JAN-DEC	JAN-DEC
	Silver perch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Silver seatrout							X	X	X	X	X	X	X	-	-	JUN-OCT	-	-
	Skipjack herring		X	X	X	X							X	X	MAR-APR	-	-	-	-
	Southern flounder		X	X	X	X	X	X	X	X	X	X	X	X	SEP-JAN	SEP-JAN	SEP-APR	JAN-DEC	JAN-DEC
	Southern hake							X	X	X	X	X	X	X	-	-	-	-	FEB-MAY
	Southern kingfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	-	-	JAN-NOV	-
	Spanish mackerel							X	X	X	X	X	X	X	JUN-SEP	JUN-SEP	JUN-SEP	APR-SEP	APR-SEP
	Spinner shark		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Spot		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	NOV-APR	NOV-MAR	JAN-DEC	JAN-DEC
	Spotfin mojarra		X					X	X	X	X	X	X	X	-	-	JUN-SEP	-	-
	Spotted hake							X	X						-	-	-	-	-
	Spotted seatrout		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Star drum							X	X						-	-	AUG-SEP	-	-
	Striped anchovy							X	X	X	X	X	X	X	MAY-AUG	MAY-AUG	APR-AUG	APR-DEC	-
	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	APR-SEP	APR-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Threadfin shad		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	White mullet		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	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	X	X	-	-	-	-	OCT-MAY
	Atlantic thread herring							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	X	-	-	-	-	-
	Bluefish		X	X	X	X					X	X	X	X	-	-	-	OCT-APR	-
	Channel catfish		X	X	X	X									MAR-MAR	-	-	-	-
	Florida pompano							X	X	X	X	X	X	X	-	-	-	MAY-NOV	-
	Gafftopsail catfish							X	X	X	X	X	X	X	JUN-JUL	-	-	MAY-AUG	MAY-AUG
	Gizzard shad		X	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	-	-	-	-	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	-	-	-	-	-
	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	X	X	-	-	-	APR-SEP	-
	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	-	-	-	-	-
	Pigfish							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	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							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	MAY-AUG	MAY-AUG	APR-AUG	APR-DEC	-
	Striped bass							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

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
5	Blue crab		X	X	X	X	X	X	X	X	X	X	X	X	MAY-NOV	MAY-NOV	MAY-NOV	-	JAN-DEC
	Brown shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	-	JAN-DEC
	Horseshoe crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Pink shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	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	-	-	-	-	JAN-DEC
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
39	Atlantic rangia		X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
66	Eastern oyster		X	X	X	X	X	X	X	X	X	X	X	X	MAR-DEC	MAR-DEC	APR-DEC	APR-DEC	JAN-DEC

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
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Mississippi: ESIMAP 23 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
5	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	-	-	-	JAN-DEC	JAN-DEC	
21	Loggerhead sea turtle	E T LOW						X	X	X	X	X		MAY-SEP	JUN-OCT	-	-	MAY-SEP	
27	Diamondback terrapin		X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-	-	
30	American alligator	T T	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Diamondback terrapin		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	-	-	-	-	-	
33	Kemp's ridley sea turtle	E E	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	-	-	-	JAN-DEC	JAN-DEC	
40	Loggerhead sea turtle	E T LOW						X	X	X	X	X		MAY-SEP	JUN-OCT	-	-	MAY-SEP	
64	Gopher tortoise	E T MED-HIGH PROBABILITY	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	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

HUMAN USE RESOURCES:

ARTIFICIAL REEF:

HUN#	Name	Contact	Phone
12	AMERICAN LEGION LAUNCH REEF	MDMR	228/523-4078
13	AMERICAN LEGION PIER REEF	MDMR	228/523-4078
47	MELLINI POINT REEF	MDMR	228/523-4078
60	SQUARE HANDKERCHIEF KEY	MDMR	228/523-4078
66	WAVELAND PIER REEF	MDMR	228/523-4078
67	WAVELAND RUBBLE REEF 2	MDMR	228/523-4078

BOAT RAMP:

HUN#	Name	Contact	Phone
82	CEDAR POINT BOAT RAMP	MS. DEPT. OF WILDLIFE, FISHERIES, & PARKS	228/859-3421
83	CEDAR POINT RAMP		
84	DUNBAR ST PIER		
90	HENDERSON POINT BOAT RAMP	MS. DEPT. OF WILDLIFE, FISHERIES, & PARKS	228/859-3421
96	JIMMY RUTHERFORD PIER		
116	WAVELAND MUNICIPAL PIER		

CAMPGROUND:

HUN#	Name	Contact	Phone
118	BAY ST. LOUIS K.O.A. CAMPGROUND	JERRY SCAFIDI	228/467-2080

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
249	BAYOU PORTAGE COASTAL PRESERVE	MDMR	228/374-5000
261	JOURDAN RIVER COASTAL PRESERVE	MDMR	228/374-5000
269	WOLF RIVER COASTAL PRESERVE	MDMR	228/374-5000

RECREATIONAL FISHING:

HUN#	Name	Contact	Phone
293			
308	LIVEOAK FISHING CAMP		228/832-1487
316	WASHINGTON ST. FISHING PIER	MS. DEPT. OF WILDLIFE, FISHERIES, & PARKS	228/859-3421
317	WAVELAND FISHING PIER	CITY OF WAVELAND	228/466-2549

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.