ENVIRONMENTAL SENSITIVITY INDEX MAP

91°52'30"

29°37'30"

VERMILION BAY

West Cote Blanche Bay

Lake Tom

PRESENT IN MARSHES AND PROTECTED SHORELINES

PRESENT IN BRACKISH MARSHES
333 333

PRESENT IN INTERMEDIATE MARSHES
337 337

PRESENT IN MARSHES AND LAKES
300 233 233 233
233 39

PRESENT IN BAYS
332 332 235 235 308
235 235 303 304
282 284

779 243 117 290 243 91 774 40 40

SHORELINE HABITATS (ESI)

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

N W E S

SCALE 1:50000

1 .5 0 1 KILOMETER

1 .5 0 1 MILE

1 .5 0 1 NAUTICAL MILE

Not For Navigation

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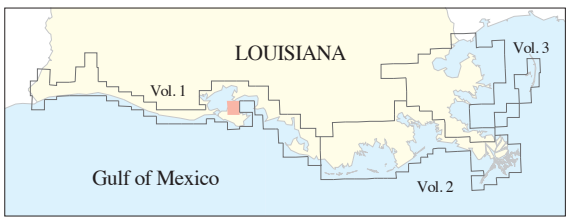

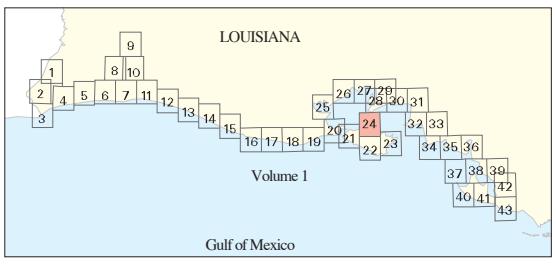

Louisiana ESI - Volume 1 **ESI-24**

Louisiana: ESIMAP 24

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
91	Black skimmer			1500 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
	Forster's tern			600 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Gull-billed tern			200 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
	Laughing gull			75 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
117	Forster's tern			300 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Least tern			30 PAIRS			X	X	X	X	X	X	X				APR-SEP	-	-
243	Terns			266 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
290	Least tern			12 PAIRS			X	X	X	X	X	X	X				APR-SEP	-	-
300	Dabbling ducks			10,000S	X	X	X	X	X				X	X	X	X	-	-	-
	Diving ducks			1,000S	X	X	X	X	X					X	X	X	-	-	-
	Snow goose			10,000S	X	X	X	X							X	X	-	-	-
332	Common loon			HIGH	X	X	X	X							X	X	-	-	-
	Scaup			1000S	X	X	X	X	X					X	X	X	-	-	-
333	American coot			UP TO 226 IND/SQ MI	X	X	X	X					X	X	X	X	-	-	-
	American white pelican			MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	American wigeon			UP TO 122 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Blue-winged teal			UP TO 202 IND/SQ MI	X	X	X	X					X	X	X	X	-	-	-
	Canvasback			UP TO 6 IND/SQ MI	X	X	X								X	X	-	-	-
	Gadwall			UP TO 665 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Green-winged teal			UP TO 1051 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Hooded merganser			UP TO 3 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Mallard			UP TO 428 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Mottled duck			UP TO 39 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Northern pintail			UP TO 167 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Northern shoveler			UP TO 127 IND/SQ MI	X	X	X	X	X				X	X	X	X	-	-	-
	Ring-necked duck			UP TO 51 IND/SQ MI	X	X	X								X	X	-	-	-
	Scaup			UP TO 203 IND/SQ MI	X	X	X	X	X					X	X	X	-	-	-
337	American coot			UP TO 234 IND/SQ MI	X	X	X	X					X	X	X	X	-	-	-
	American white pelican			MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	American wigeon			UP TO 41 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Blue-winged teal			UP TO 194 IND/SQ MI	X	X	X	X					X	X	X	X	-	-	-
	Canvasback			UP TO 3 IND/SQ MI	X	X	X								X	X	-	-	-
	Gadwall			UP TO 312 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Green-winged teal			UP TO 220 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Hooded merganser			UP TO 1 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Mallard			UP TO 169 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Mottled duck			UP TO 34 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Northern pintail			UP TO 210 IND/SQ MI	X	X	X	X						X	X	X	-	-	-
	Northern shoveler			UP TO 104 IND/SQ MI	X	X	X	X	X				X	X	X	X	-	-	-
	Ring-necked duck			UP TO 38 IND/SQ MI	X	X	X								X	X	-	-	-
	Scaup			UP TO 19 IND/SQ MI	X	X	X	X	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
233	Alligator gar			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Anchovies			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC
	Atlantic spadefish			RARE									X				-	-	-	-	-
	Black drum			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Blue catfish			HIGHLY ABUNDANT	X	X	X									X	-	-	-	DEC-MAR	DEC-MAR
	Croakers			HIGHLY ABUNDANT		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Gafftopsail catfish			COMMON			X	X	X	X	X	X	X				-	-	-	-	-
	Gulf menhaden			HIGHLY ABUNDANT		X	X	X	X	X	X	X	X	X	X	X	-	-	-	FEB-DEC	FEB-DEC
	Killifish			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Pipefish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Red drum			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	SEP-FEB
	Shad			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Southern flounder			ABUNDANT			X	X	X	X	X	X	X	X			-	-	-	MAR-NOV	MAR-NOV
	Spotted gar			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	MAR-APR	MAR-APR	MAR-JUN	JAN-DEC
	Spotted seatrout			ABUNDANT			X	X	X	X	X	X	X	X	X		-	-	-	MAR-NOV	MAR-NOV
	Striped mullet			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White trout			HIGHLY ABUNDANT			X	X	X	X	X	X	X	X	X		-	-	-	MAR-NOV	MAR-NOV
235	Alligator gar			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Anchovies			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC
	Atlantic spadefish			COMMON						X	X	X	X				-	-	-	-	-
	Black drum			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Blue catfish			ABUNDANT	X	X	X	X	X	X				X	X	X	APR-JUN	APR-JUN	-	NOV-JUN	NOV-JUN
	Bull shark			ABUNDANT				X	X	X	X	X					-	-	MAY-SEP	JUN-SEP	-
	Croakers			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Gafftopsail catfish			ABUNDANT			X	X	X	X	X	X	X	X			-	-	-	-	-
	Gulf menhaden			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Kingfishes			ABUNDANT				X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Paddlefish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Pipefish			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Red drum			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	SEP-FEB
	Shad			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Sheepshead			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Southern flounder			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Spotted seatrout			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Striped mullet			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White trout			HIGHLY ABUNDANT	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
233	Atlantic rangia			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	MAR-NOV	JAN-DEC	JAN-DEC
	Blue crab			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-NOV	APR-NOV	JAN-DEC	JAN-DEC
	Brown shrimp			HIGHLY ABUNDANT		X	X	X	X								-	-	FEB-MAY	MAR-JUN	-
	Fiddler crab			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	-	-	-	-
	Grass shrimp			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	White shrimp			HIGHLY ABUNDANT		X	X	X	X	X	X	X	X				-	-	MAY-NOV	MAR-NOV	-
235	Atlantic rangia			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	MAR-NOV	JAN-DEC	JAN-DEC
	Atlantic seabob shrimp			COMMON									X	X			-	-	-	-	-
	Blue crab			ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-NOV	APR-NOV	JAN-DEC	JAN-DEC
	Brown shrimp			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-NOV	MAR-JAN	-
	Grass shrimp			COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	River shrimp			ABUNDANT			X	X	X	X							APR-JUN	-	APR-JUL	-	APR-JUN
	White shrimp			HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-NOV	JAN-DEC	-
308	Eastern oyster			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC

MARINE MAMMAL:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
303	Bottlenose dolphin			VERY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
304	West Indian manatee	E	E	RARE TO UNCOMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-

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. The LDWF-LNHP provided information for some of the federally and state listed species and species of conservation concern for display in the ESI atlas and accompanying digital data in 2013. The available LNHP data sets are to be used for oil spill response and spill response planning only. These data represent existing information known to the LNHP at the time of the request and should never be substituted for consultation with the LNHP. The more spatially generalized 2011 polygonal waterbird colony data was provided by LNHP and the more spatially specific 2006 point waterbird colony data was provided by BTNEP. The display of these two data sets does not imply that EITHER or BOTH sets of polygons and/or points (especially if counts are aggregated) reflect current nest locations OR counts, but rather are to be used as a guide for what species could be present.

Louisiana: ESIMAP 24 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting	Juveniles	Adults
39	American alligator			76-125 AC/NEST	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	JUL-SEP	-	JAN-DEC	JAN-DEC
40	American alligator			<75 AC/NEST	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	JUL-SEP	-	JAN-DEC	JAN-DEC
282	Kemp's ridley sea turtle	E	E	ABUNDANT			X	X	X	X	X	X					-	-	-	APR-SEP	-
284	Green sea turtle	T	T	OCCASIONAL			X	X	X	X	X	X	X	X	X		-	-	-	MAR-NOV	MAR-NOV
	Hawksbill sea turtle	E	E	VERY RARE			X	X	X	X	X	X	X	X			-	-	-	MAR-OCT	-
	Leatherback sea turtle	E	E	RARE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Loggerhead sea turtle	T	T	COMMON			X	X	X	X	X	X	X	X	X		-	-	-	MAR-NOV	MAR-NOV

HUMAN USE RESOURCES:

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
774	MARSH ISLAND WILDLIFE REFUGE	LDWF	
779	PUBLIC OYSTER AREA	LDWF	

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