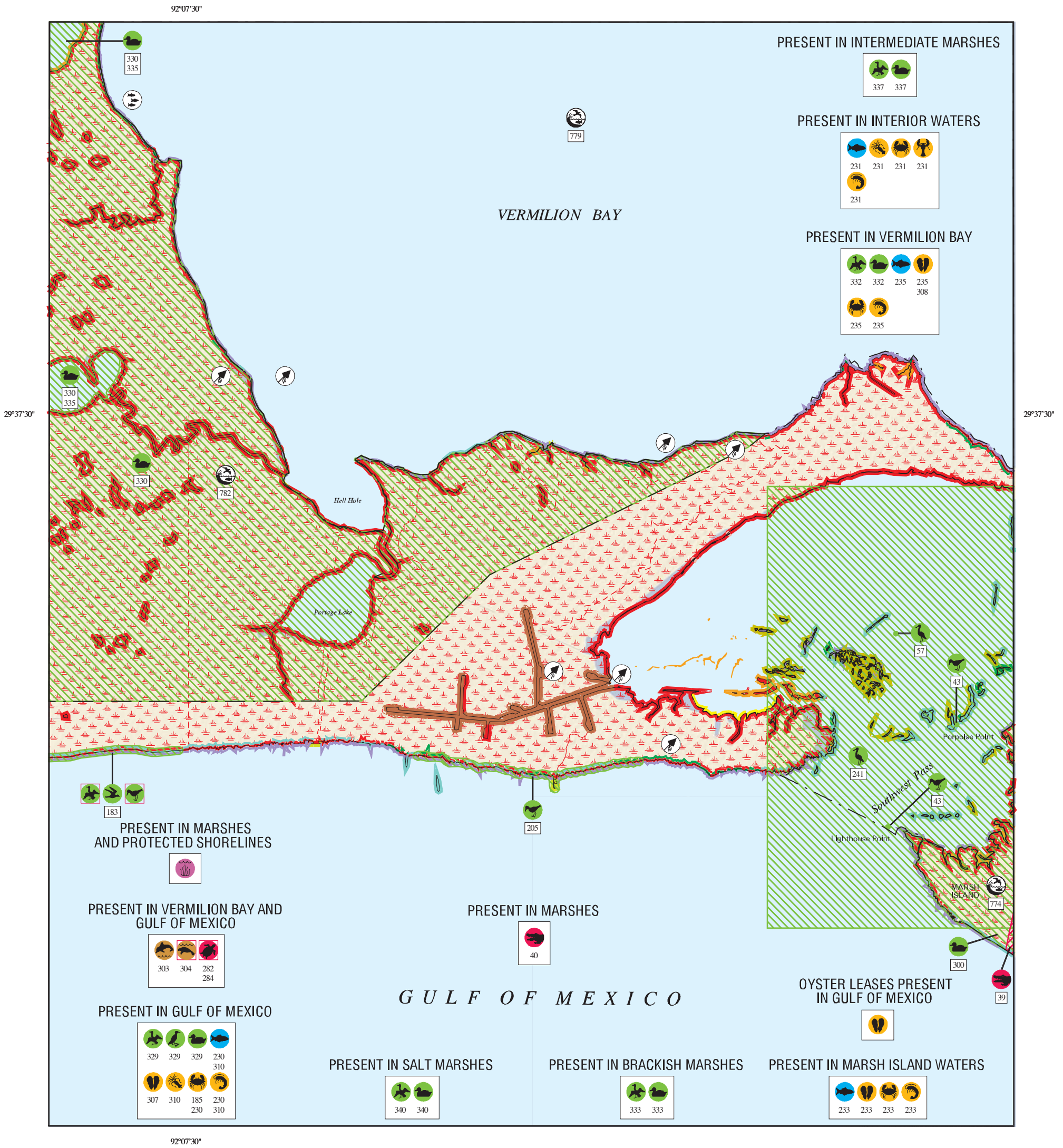


ENVIRONMENTAL SENSITIVITY INDEX MAP



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

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Scale: 1:50000
1 KILOMETER
1 MILE
1 NAUTICAL MILE

Louisiana ESI - Volume 1 ESI-20

Louisiana: ESIMAP 20

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
43	American oystercatcher	1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
57	Great egret	70 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
	Snowy egret	30 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Tricolored heron	1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
183	American avocet	UP TO 48 BIRDS /KM	X	X	X	X		X	X	X	X	X	X		-	-	-
	American white pelican	UP TO 4 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black skimmer	UP TO 3 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-bellied plover	UP TO 27 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-necked stilt	UP TO 2 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Brown pelican	E UP TO 5 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Caspian tern	UP TO 6 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Double-crested cormorant	UP TO 5 BIRDS /KM	X	X	X	X		X	X	X	X	X	X		-	-	-
	Dunlin	UP TO 15 BIRDS /KM	X	X	X	X		X	X	X	X	X	X		-	-	-
	Forster's tern	UP TO 14 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Greater yellowlegs	UP TO 2 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Herring gull	UP TO 2 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Killdeer	UP TO 13 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Laughing gull	UP TO 62 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Least sandpiper	UP TO 5 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Piping plover	T T UP TO 18 BIRDS /KM	X	X	X	X		X	X	X	X	X	X		-	-	-
	Red knot			X	X			X	X						-	-	-
	Ring-billed gull	UP TO 2 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Royal tern	UP TO 69 BIRDS / KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Ruddy turnstone	UP TO 7 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Sanderling	UP TO 39 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Semipalmated plover	UP TO 19 BIRDS /KM	X	X	X	X		X	X	X	X	X	X		-	-	-
	Short-billed dowitcher	UP TO 44 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Snowy plover	UP TO 1 BIRD /KM	X	X	X			X	X	X	X	X	X		-	-	-
	Solitary sandpiper	UP TO 5 BIRDS /KM		X	X	X		X	X	X					-	-	-
	Spotted sandpiper	UP TO 6 BIRDS /KM	X	X	X	X		X	X	X	X	X	X		-	-	-
	Stilt sandpiper	UP TO 2 BIRDS /KM		X	X	X		X	X	X					-	-	-
	Western sandpiper	LESS THAN 1 BIRD /KM	X	X	X	X		X	X	X	X	X	X		-	-	-
	Willet	UP TO 21 BIRDS /KM	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wilson's plover	15 PAIRS		X	X	X	X	X	X	X					MAR-JUL	-	-
205	Wilson's plover	15 BIRDS		X	X	X	X	X	X	X					-	-	-
241	Wading birds	830 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
300	Dabbling ducks	10,000S	X	X	X	X		X	X	X					-	-	-
	Diving ducks	1,000S	X	X	X	X		X	X	X					-	-	-
	Snow goose	10,000S	X	X	X	X		X	X						-	-	-
329	Common loon		X	X	X	X		X	X						-	-	-
	Northern gannet		X	X	X			X	X	X					-	-	-
	Scaup	100,000S	X	X	X	X		X	X	X					-	-	-
	Sea ducks		X	X	X	X		X	X	X					-	-	-
330	Dabbling ducks	100,000S	X	X	X	X		X	X	X					-	-	-
	Diving ducks	100S	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					-	-	-
333	American coot	UP TO 226 IND/SQ MI	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					-	-	-
	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					-	-	-
	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					-	-	-
	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					-	-	-
335	American coot		X	X	X	X		X	X	X					-	-	-
	American wigeon		X	X	X	X		X	X	X					-	-	-
	Blue-winged teal		X	X	X	X		X	X	X					-	-	-
	Canvasback		X	X	X			X	X						-	-	-
	Gadwall		X	X	X	X		X	X	X					-	-	-
	Green-winged teal		X	X	X	X		X	X	X					-	-	-
	Hooded merganser		X	X	X	X		X	X	X					-	-	-
	Mallard		X	X	X	X		X	X	X					-	-	-
	Mottled duck		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern pintail		X	X	X	X		X	X	X					-	-	-
	Northern shoveler		X	X	X	X		X	X	X					-	-	-
	Ring-necked duck		X	X	X			X	X						-	-	-
	Scaup		X	X	X			X	X						-	-	-
337	American coot	UP TO 234 IND/SQ MI	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					-	-	-
	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					-	-	-
	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					-	-	-
340	American coot	UP TO 15 IND/SQ MI	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 81 IND/SQ MI	X	X	X	X		X	X	X					-	-	-
	Blue-winged teal	UP TO 231 IND/SQ MI	X	X	X	X		X	X	X					-	-	-
	Gadwall	UP TO 1063 IND/SQ MI	X	X	X	X		X	X	X					-	-	-
	Green-winged teal	UP TO 938 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 181 IND/SQ MI	X	X	X	X		X	X	X					-	-	-
	Mottled duck	UP TO 51 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Northern pintail	UP TO 4 IND/SQ MI	X	X	X	X		X	X	X					-	-	-
	Northern shoveler	UP TO 286 IND/SQ MI	X	X	X	X		X	X	X					-	-	-
	Ring-necked duck	UP TO 974 IND/SQ MI	X	X	X			X	X						-	-	-
	Scaup	UP TO 45 IND/SQ MI	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
230	Black drum	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	-	JAN-JUL	JAN-DEC	JAN-DEC
	Gafftopsail catfish	HIGHLY ABUNDANT		X	X	X	X	X	X	X					-	-	-	-	-
	Gulf menhaden	HIGHLY ABUNDANT		X	X	X	X	X	X	X					-	-	-	-	APR-NOV

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.

Louisiana: ESIMAP 20 (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
230	Killifish	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Kingfishes	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Red snapper		X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC	
	Shad	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Spotted seatrout	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	APR-SEP	JAN-DEC	JAN-DEC	
	Striped mullet	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
231	Alligator gar	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	American eel	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Anchovies	COMMON	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC	
	Atlantic spadefish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Black drum	HIGHLY ABUNDANT	X	X							X	X	X	-	-	-	SEP-FEB	SEP-FEB	
	Blue catfish	HIGHLY ABUNDANT	X	X	X								X	-	-	-	DEC-MAR	DEC-MAR	
	Bowfin	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Bream	PRESENT	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-NOV	JAN-DEC	JAN-DEC	
	Buffalo	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Channel catfish	PRESENT	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	-	-	JAN-DEC	
	Crappie	PRESENT	X	X	X	X	X	X	X	X	X	X	X	FEB-MAY	FEB-MAY	FEB-JUN	JAN-DEC	JAN-DEC	
	Croakers	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Flathead catfish	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Forage fish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Freshwater drum	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Gafftopsail catfish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Gulf menhaden	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	AUG-APR	JAN-DEC	JAN-DEC	
	Killifish	COMMON	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC	
	Largemouth bass	PRESENT	X	X	X	X	X	X	X	X	X	X	X	JAN-MAY	-	-	JAN-DEC	JAN-DEC	
	Longnose gar	PRESENT	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	MAR-APR	MAR-APR	MAR-JUN	JAN-DEC	
	Pipefish	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Shad	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-MAY	MAR-JUN	MAR-JUL	JAN-DEC	
	Southern flounder	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-NOV	MAR-NOV	
	Spotted gar	PRESENT	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	MAR-APR	MAR-APR	MAR-JUN	JAN-DEC	
	Spotted seatrout	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	DEC-MAR	DEC-MAR	
	Striped mullet	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	White bass	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	White trout	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
233	Alligator gar	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Anchovies	ABUNDANT	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	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Black drum	HIGHLY ABUNDANT	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	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	APR-SEP	-	-	JAN-DEC	JAN-DEC	
	Pipefish	PRESENT	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	-	-	-	JAN-DEC	SEP-FEB	
	Shad	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Southern flounder	ABUNDANT	X	X	X	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	MAR-APR	MAR-APR	MAR-APR	MAR-JUN	JAN-DEC	
	Spotted seatrout	ABUNDANT	X	X	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	-	-	-	JAN-DEC	JAN-DEC	
	White trout	HIGHLY ABUNDANT	X	X	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	-	-	-	-	-	
	Anchovies	ABUNDANT	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	X	X	X	X	X	X	X	-	-	-	-	-	
	Black drum	HIGHLY ABUNDANT	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	X	X	APR-JUN	APR-JUN	-	NOV-JUN	NOV-JUN	
	Bull shark	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-SEP	JUN-SEP	-	
	Croakers	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Gafftopsail catfish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Gulf menhaden	HIGHLY ABUNDANT	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	X	X	-	-	-	-	-	
	Paddlefish	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Pipefish	PRESENT	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	-	-	-	JAN-DEC	SEP-FEB	
	Shad	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Sheepshead	COMMON	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	-	-	-	JAN-DEC	JAN-DEC	
	Spotted seatrout	ABUNDANT	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	-	-	-	JAN-DEC	JAN-DEC	
	White trout	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
310	Anchovies	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC	JAN-DEC	
	Atlantic sharpnose shark	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Atlantic spadefish		X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-SEP	SEP-MAY	JAN-DEC	
	Atlantic tripletail		X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-SEP	APR-SEP	
	Blacktip shark	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-OCT	MAR-OCT	MAR-OCT	
	Bull shark		X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-OCT	MAR-OCT	MAR-OCT	
	Cobia		X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	JUN-AUG	JUN-AUG	JUN-SEP	JUN-SEP	
	Croakers	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-MAR	NOV-MAY	-	JAN-DEC	
	Finetooth shark		X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-OCT	MAR-OCT	MAR-OCT	
	Florida pompano		X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG	APR-NOV	APR-NOV	
	Forage fish		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Gray snapper		X	X	X	X	X	X	X	X	X	X	X	JUN-NOV	JUN-NOV	JUN-NOV	JAN-DEC	JAN-DEC	
	Gray triggerfish		X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-SEP	APR-SEP	JAN-DEC	JAN-DEC	
	Great barracuda		X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-OCT	APR-OCT	JAN-DEC	JAN-DEC	
	Great hammerhead		X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Herrings and sardines		X	X	X	X	X	X	X	X	X	X	X	-	-	APR-SEP	JAN-DEC	JAN-DEC	
	King mackerel		X	X	X	X	X	X	X	X	X	X	X	JUN-NOV	JUN-NOV	JUN-NOV	MAR-NOV	MAR-NOV	
	Lane snapper		X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC	
	Red drum	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-NOV	SEP-NOV	JAN-DEC	JAN-DEC	
	Scalloped hammerhead		X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-OCT	JAN-DEC	JAN-DEC	
	Sheepshead		X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JAN-APR	JAN-MAY	-	DEC-MAR	
	Shortfin mako		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Southern flounder		X	X	X	X	X	X	X	X	X	X	X	SEP-FEB	SEP-FEB	SEP-APR	-	JAN-DEC	
	Spanish mackerel		X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-OCT	APR-OCT	MAR-OCT	MAR-OCT	
	Spinner shark		X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-	
	Tarpon		X	X	X	X	X	X	X	X	X	X	X	-	-	JUN-AUG	MAY-NOV	MAY-NOV	
	White trout		X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-OCT	MAR-OCT	JAN-DEC	JAN-DEC	

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A
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Louisiana: ESIMAP 20 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE: (cont.)

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
231	Grass shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Red swamp crawfish	PRESENT	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	
	River shrimp	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUL	JUL-SEP	JAN-DEC	
	Squid	PRESENT					X	X	X					-	-	-	JUN-AUG	JUN-AUG	
	White shrimp	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-NOV	JAN-DEC	-	
233	Atlantic rangia	PRESENT	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	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	JUN-AUG	-	-	-	-	
	Grass shrimp	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	White shrimp	HIGHLY ABUNDANT		X	X	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	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	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	-	-	FEB-NOV	MAR-JAN	-	
	Grass shrimp	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	River shrimp	ABUNDANT		X	X	X								APR-JUN	-	APR-JUL	-	APR-JUN	
	White shrimp	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-NOV	JAN-DEC	-	
307	Eastern oyster	PRESENT	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC	
308	Eastern oyster	PRESENT	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC	
310	Brown shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-APR	-	JAN-DEC	
	Squid	ABUNDANT	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	-	-	-	-

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						-	-	-	APR-SEP	-	
284	Green sea turtle	T T OCCASIONAL	X	X	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	X	X	X	-	-	-	MAR-OCT	-	
	Leatherback sea turtle	E E RARE	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	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	
782	STATE WILDLIFE REFUGE	LDWF	

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.