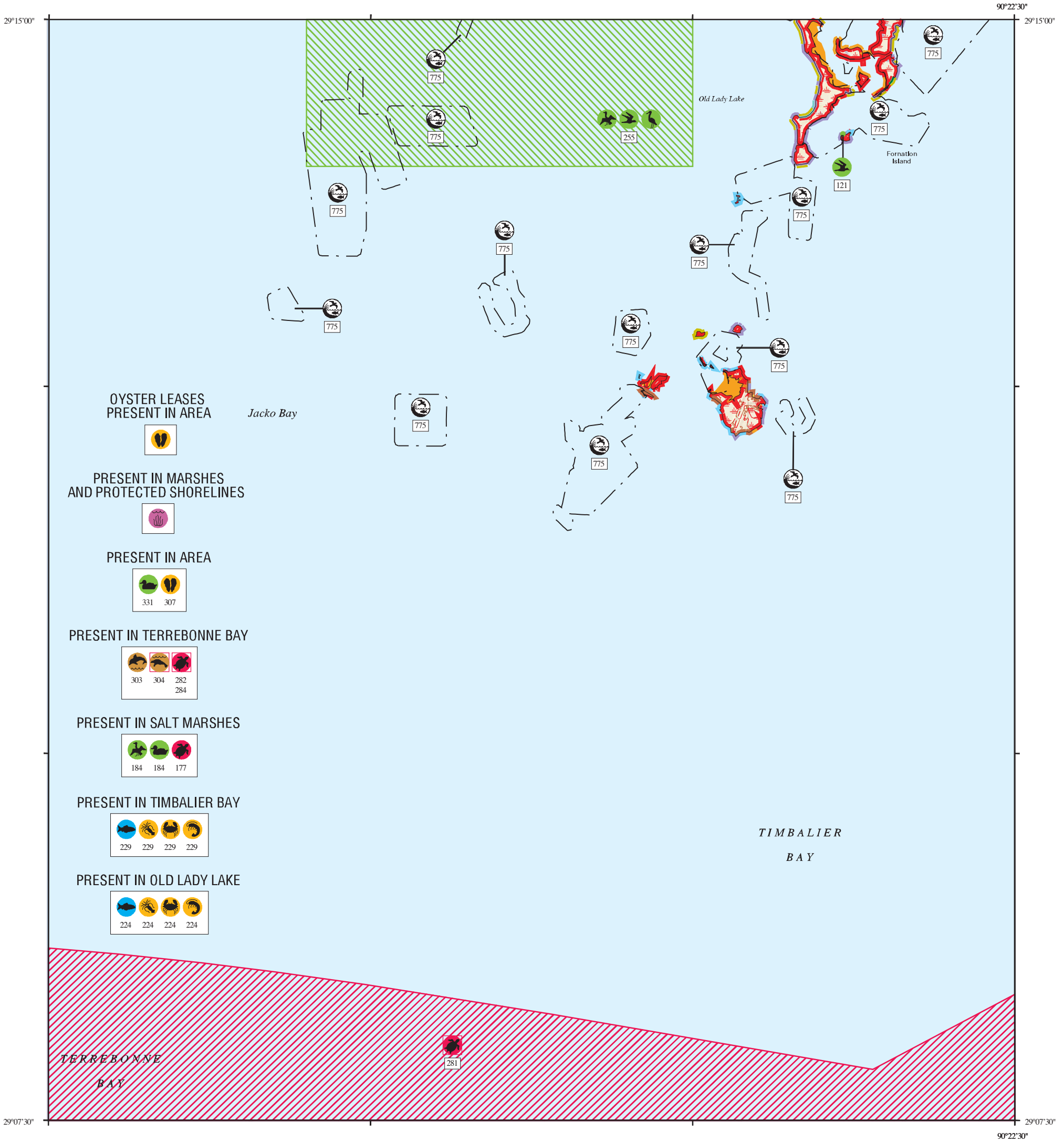


# ENVIRONMENTAL SENSITIVITY INDEX MAP



OYSTER LEASES  
PRESENT IN AREA



PRESENT IN MARSHES  
AND PROTECTED SHORELINES



PRESENT IN AREA



PRESENT IN TERREBONNE BAY



PRESENT IN SALT MARSHES



PRESENT IN TIMBALIER BAY

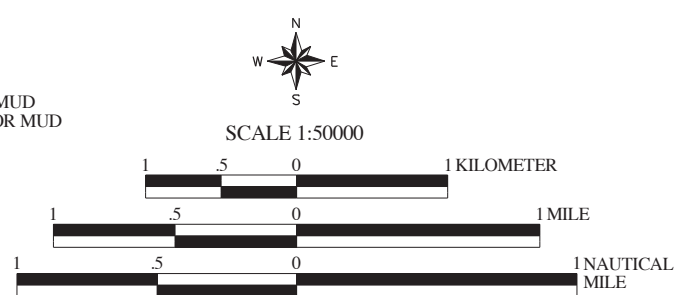


PRESENT IN OLD LADY LAKE

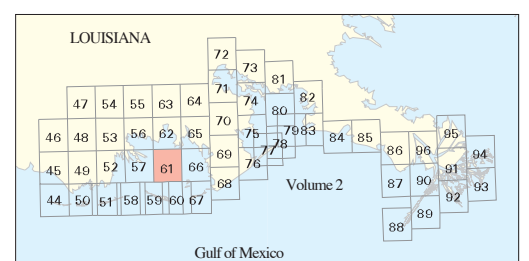
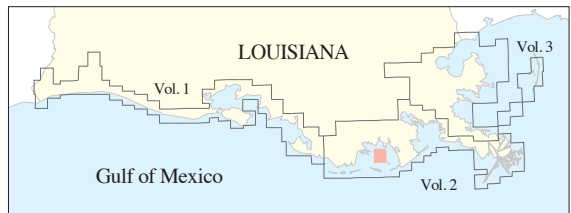


## SHORELINE HABITATS (ESI)

- 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



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



# Louisiana: ESIMAP 61

## BIOLOGICAL RESOURCES:

### BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
121	Forster's tern	150 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
184	American coot	UP TO 2 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	American white pelican	HIGH	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	American wigeon	UP TO 19 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Blue-winged teal	UP TO 12 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Canvasback	UP TO 2 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Gadwall	UP TO 181 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Green-winged teal	UP TO 232 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Hooded merganser	UP TO 8 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Mallard	UP TO 4 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Mottled duck	UP TO 17 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	
	Northern pintail	UP TO 6 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Northern shoveler	UP TO 9 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Ring-necked duck	UP TO 9 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
	Scaup	UP TO 468 IND/SQ MI	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
255	Gulls	800 PAIRS	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	
	Pelicans	225 PAIRS	X	X	X	X	X	X	X	X	X	X	X	NOV-JUL	-	-	
	Terns	550 PAIRS	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-	
	Wading birds	355 PAIRS	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-	
331	Scaup	100,000S	X	X	X	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
224	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 sharpnose shark	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Atlantic spadefish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Atlantic tripletail	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-OCT	APR-OCT	
	Black drum	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Blacktip shark	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Bull shark	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-SEP	MAR-SEP	-	
	Croakers	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Finetooth shark	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Forage fish	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	-	-	-	-	-	
	Gray snapper	RARE	X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-OCT	-	
	Gulf menhaden	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	AUG-APR	JAN-DEC	JAN-DEC	
	Killifish	ABUNDANT	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	-	-	-	-	-	
	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	-	
	Shad	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Sheepshead	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	Southern flounder	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-MAR	JAN-DEC	JAN-DEC	
	Spotted seatrout	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-SEP	JAN-DEC	JAN-DEC	
	Striped mullet	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	White trout	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-SEP	JAN-DEC	JAN-DEC	
229	Anchovies	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	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	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Atlantic tripletail	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-OCT	APR-OCT	
	Black drum	PRESENT	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	-	JAN-JUL	JAN-DEC	JAN-DEC	
	Blacktip shark	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Bull shark	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-SEP	MAR-DEC	-	
	Cobia	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Croakers	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Finetooth shark	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	MAR-OCT	MAR-OCT	
	Forage fish	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	-	-	-	-	-	
	Gray snapper	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUL-NOV	-	
	Gulf menhaden	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	AUG-APR	SEP-JUN	SEP-JUN	
	Herrings and sardines	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Killifish	ABUNDANT	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	-	-	-	-	-	
	Lane snapper	RARE	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	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-	
	Scalloped hammerhead	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-OCT	-	-	
	Seahorses	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	-	-	-	-	-	
	Sheepshead	HIGHLY ABUNDANT	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	-	-	OCT-MAR	JAN-DEC	JAN-DEC	
	Spanish mackerel	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-AUG	-	
	Spotted seatrout	HIGHLY 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	
	White trout	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	MAR-SEP	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
224	Atlantic seabob shrimp	COMMON	X	X	X	X	X	X	X	X	X	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	JAN-DEC	-	
	Fiddler crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	-	-	-	-	
	Grass shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Squid	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	FEB-NOV	FEB-NOV	
	Stone crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	White shrimp	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-NOV	JAN-DEC	-	
229	Atlantic seabob shrimp	COMMON	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Blue crab	HIGHLY 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	JAN-DEC	-	
	Fiddler crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	JUN-AUG	-	-	-	-	
	Grass shrimp	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
	Squid	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC	
	Stone crab	PRESENT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
	White shrimp	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	

### 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	-	-	-	-	
304	West Indian manatee	E E RARE TO UNCOMMON	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
177	Diamondback terrapin	-	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	
281	Kemp's ridley sea turtle	E E ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC	JAN-DEC

**Louisiana: ESIMAP 61 (cont.)**

**BIOLOGICAL RESOURCES: (cont.)**

**REPTILE: (cont.)**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
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		-	-	-	MAR-NOV	MAR-NOV
	Hawksbill sea turtle	E E VERY RARE				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			-	-	-	MAR-NOV	MAR-NOV

**HUMAN USE RESOURCES:**

**MANAGEMENT AREA:**

HUN#	Name	Contact	Phone
775	OYSTER LEASE	LDWF - OYSTER LEASE SURVEY SECTION	

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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.

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