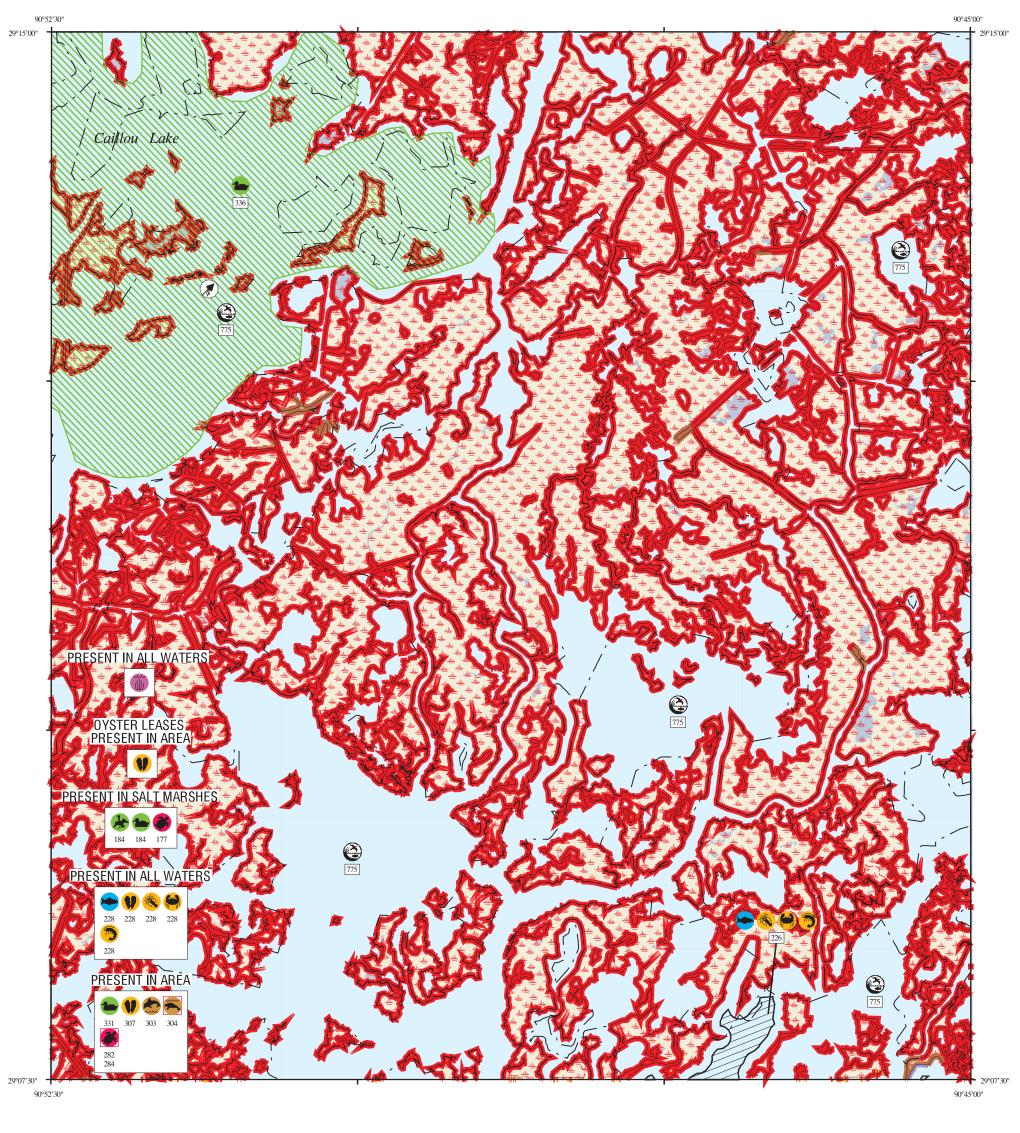
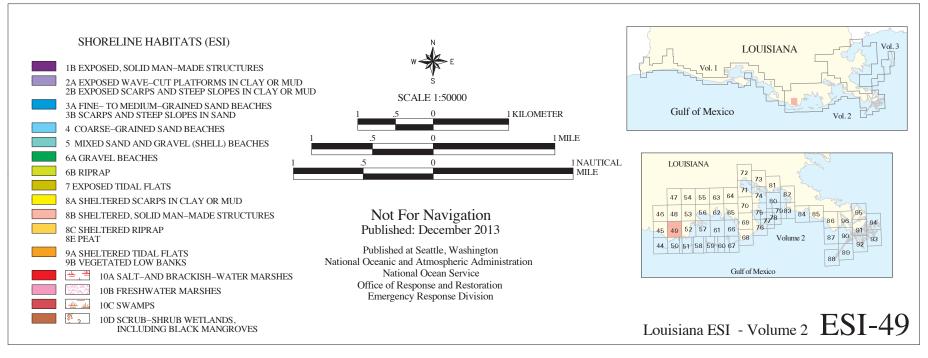
# ENVIRONMENTAL SENSITIVITY INDEX MAP





## Louisiana: ESIMAP 49

#### BIOLOGICAL RESOURCES:

BIRD		0.7.0		37 t. ·	<b>N</b> 6: <b>1</b> :			
RAR# 	Species	S F Conc.	J F M A M J J A S O N D		Migrating	g Molting 	: · <del>-</del>	
184	American coot American white pelican	UP TO 2 IND/SQ MI HIGH	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-		
	American wigeon	UP TO 19 IND/SQ MI	XXXX XXXX	_	_	_		
	Blue-winged teal	UP TO 12 IND/SQ MI	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-		
	Canvasback Gadwall	UP TO 2 IND/SQ MI UP TO 181 IND/SQ MI	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	-		
	Green-winged teal	UP TO 232 IND/SQ MI	X X X X X X X X		-	-		
	Hooded merganser Mallard	UP TO 8 IND/SQ MI	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-		
	Mottled duck	UP TO 4 IND/SQ MI UP TO 17 IND/SQ MI	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	_		
	Northern pintail	UP TO 6 IND/SQ MI	$X \ X \ X \ X \qquad \qquad X \ X \ X$	-	-	_		
	Northern shoveler Ring-necked duck	UP TO 9 IND/SQ MI UP TO 9 IND/SQ MI	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_		
	Scaup	UP TO 468 IND/SQ MI			-	-		
331	Scaup American coot	100,000S	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
330	American wigeon		X X X X X X X X X	-	-	-		
	Blue-winged teal Canvasback		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-		
	Gadwall		X X X X X X X X X		-	-		
	Green-winged teal		X X X X X X X X		-	-		
	Hooded merganser Mallard		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_		
	Mottled duck		$\times$	-	-	-		
	Northern pintail Northern shoveler		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	-		
	Ring-necked duck		X X X $X X$	-	-	-		
FISH	:							
RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning		Larvae	Juveniles	Adults
226	Anchovies	HIGHLY ABUNDANT		MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC
∨	Atlantic sharpnose shark	HIGHLY ABUNDANT	XXXXXXXX	- - -	MAK-SEP	MAY-OCT	MAR-OCT	MAR-OCT
	Atlantic spadefish	ABUNDANT PRESENT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	-	- λ DD = ∩ C Ͳ	– л DD = ∩ С т
	Atlantic tripletail Black drum	PRESENT ABUNDANT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- JAN-JUL	-	- JAN-JUL	APR-OCT JAN-DEC	APR-OCT JAN-DEC
	Blacktip shark	ABUNDANT	X X X X X X X X	-	-	MAY-OCT	MAR-OCT	MAR-OCT
	Bull shark Croakers	ABUNDANT ABUNDANT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	MAY-SEP -	MAR-OCT -	_
	Finetooth shark		X X X X X X X X	-	-	MAY-OCT	MAR-OCT	MAR-OCT
	Florida pompano Forage fish	ABUNDANT HIGHLY ABUNDANT	$\begin{smallmatrix} & & & \times & \times & \times \\ & \times & \times & \times & \times & \times &$	-	-	-	-	_
	Gafftopsail catfish	ABUNDANT	X X X X X X X X	-	-	-	-	-
	Gray snapper Gulf menhaden	COMMON HIGHLY ABUNDANT	$\begin{array}{c} & \times $	_	-	- AUG-APR	JUL-NOV JAN-DEC	- JAN-DEC
	Herrings and sardines	ABUNDANT	$\times \times \times \times \times \times$	-	-	-	-	-
	Killifish King mackerel	ABUNDANT PRESENT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	APR-SEP -	_	_	JAN-DEC -	JAN-DEC -
	Kingfishes	HIGHLY ABUNDANT	x	-	-	-	-	-
	Lane snapper Pipefish	RARE PRESENT	$\begin{array}{c} & \times $	_	-	_	-	_
	Red drum	ABUNDANT	$X \times X \times X \times X \times X \times X \times X \times X$		-	-	JAN-DEC	_
	Seahorses Shad	PRESENT ABUNDANT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	_	_
	Sheepshead	ABUNDANT	X X X X X X X X X X X X X X X X X X X		_	-	JAN-DEC	JAN-DEC
	Southern flounder	HIGHLY ABUNDANT	$\times \times $	-	-	OCT-MAR	JAN-DEC	JAN-DEC
	Spanish mackerel Spotted seatrout	COMMON HIGHLY ABUNDANT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- APR-SEP	_	- APR-SEP	MAR-OCT JAN-DEC	- JAN-DEC
	Striped mullet	ABUNDANT	$\times \times $	-	-	-	JAN-DEC	JAN-DEC
228	White trout Anchovies	ABUNDANT ABUNDANT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		- MAR-SEP	MAR-SEP MAR-SEP	JAN-DEC JAN-DEC	JAN-DEC JAN-DEC
	Atlantic spadefish	ABUNDANT	X X X X X X	-	-	_	-	-
	Atlantic tripletail Black drum	PRESENT ABUNDANT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	_	APR-OCT JAN-DEC	APR-OCT JAN-DEC
	Bull shark	COMMON	$\times \times $		-	MAY-SEP	JAN-DEC	-
	Croakers Forage fish	ABUNDANT COMMON	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	-	-	-
	Gafftopsail catfish	ABUNDANT	XXXXXXX	_	_	-	_	_
	Gray snapper	RARE	X X	-	-	-	OCT-NOV	-
	Gulf menhaden Herrings and sardines	ABUNDANT PRESENT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	_	_	JAN-DEC -	JAN-DEC -
	Killifish	ABUNDANT	$\times \times $		-	-	JAN-DEC	JAN-DEC
	Kingfishes Lane snapper	ABUNDANT RARE	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	-	_	-	_
	Red drum	HIGHLY ABUNDANT	$\times$	-	-	-	JAN-DEC	-
	Shad Southern flounder	HIGHLY ABUNDANT HIGHLY ABUNDANT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-	-	- OCT-MAR	- JAN-DEC	- JAN-DEC
	Spanish mackerel	COMMON	X X X	-	-	-	MAY-JUL	-
	Spotted gar Spotted seatrout	HIGHLY ABUNDANT ABUNDANT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		MAR-APR -	MAR-APR APR-SEP	MAR-JUN JAN-DEC	JAN-DEC JAN-DEC
	Striped mullet	ABUNDANT	X X X X X X X X X X X X X X X X X X X	APK-SEP	-	-	JAN-DEC	JAN-DEC
	Tarpon White trout	A DUINDA NIII	$\begin{smallmatrix} & & & & \times & \times & \times & \times & \times & \times \\ & & \times & \times$	- MAD CED	-	- MAR-SEP	MAY-NOV JAN-DEC	- JAN-DEC
	White trout	ABUNDANT	* * * * * * * * * * * * * * * * * * * *	MAK-SEF	_	MAK-SEP	JAN-DEC	JAN-DEC
	RTEBRATE: Species	S F Conc.	TEMAMITACOND	Constant	Ease	Larvae	Juveniles	Adults
			J F M A M J J A S O N D					
226	Atlantic seabob shrimp Blue crab	ABUNDANT ABUNDANT	$\begin{smallmatrix} & & & & \times & \times & \times & \times & \times \\ & & \times & \times &$	-	-		- JAN-DEC	- JAN-DEC
	Brown shrimp	ABUNDANT	$\times \times $	-	-	FEB-NOV	JAN-NOV	-
	Fiddler crab Grass shrimp	PRESENT	X X X X X X X X X X X X X	JUN-AUG -	-	-	-	-
	Grass shrimp Squid	HIGHLY ABUNDANT HIGHLY ABUNDANT	$\begin{smallmatrix} X & X & X & X & X & X & X & X & X & X $		- MAR-NOV	- MAR-NOV	- FEB-DEC	- FEB-DEC
	Stone crab	PRESENT	$\times \times $	= '	-	_	JAN-DEC	JAN-DEC
228	White shrimp Atlantic rangia	ABUNDANT PRESENT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- MAR-NOV	-	MAY-NOV MAR-NOV	JAN-DEC JAN-DEC	- JAN-DEC
-	Blue crab	HIGHLY ABUNDANT	$\times \times $	APR-NOV		APR-NOV	JAN-DEC	JAN-DEC
	Brown shrimp Fiddler crab	HIGHLY ABUNDANT PRESENT	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		-	FEB-NOV -	JAN-DEC -	_
	Grass shrimp	ABUNDANT	X X X X X X X X X X X X X X X X X X X		_	-	_	_
	Squid White shrimp	ABUNDANT HIGHLY ABUNDANT	$\begin{smallmatrix} & & \times \\ & \times & \times$	-	- -	- MAY-NOV	MAR-OCT JAN-DEC	MAR-OCT
307	Eastern oyster	PRESENT	X X X X X X X X X X X X X X X X X X X				JAN-DEC	JAN-DEC
	NE MAMMAL:							
MARII				Mating	Calving	Pupping	Molting	
RAR#	Species	S F Conc.		_	Carving	- app 9		
<b>RAR#</b> 303	Species Bottlenose dolphin West Indian manatee	VERY ABUNDANT						

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 49 (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
177	Diamondback terrapin		X X X X X X X X	-	-	-	-	-
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	imes  ime	-	-	-	JAN-DEC	JAN-DEC
	Loggerhead sea turtle	T T COMMON	X X X X X X X X X	-	-	-	MAR-NOV	MAR-NOV

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### HUMAN USE RESOURCES:

#### MANAGEMENT AREA:

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

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.