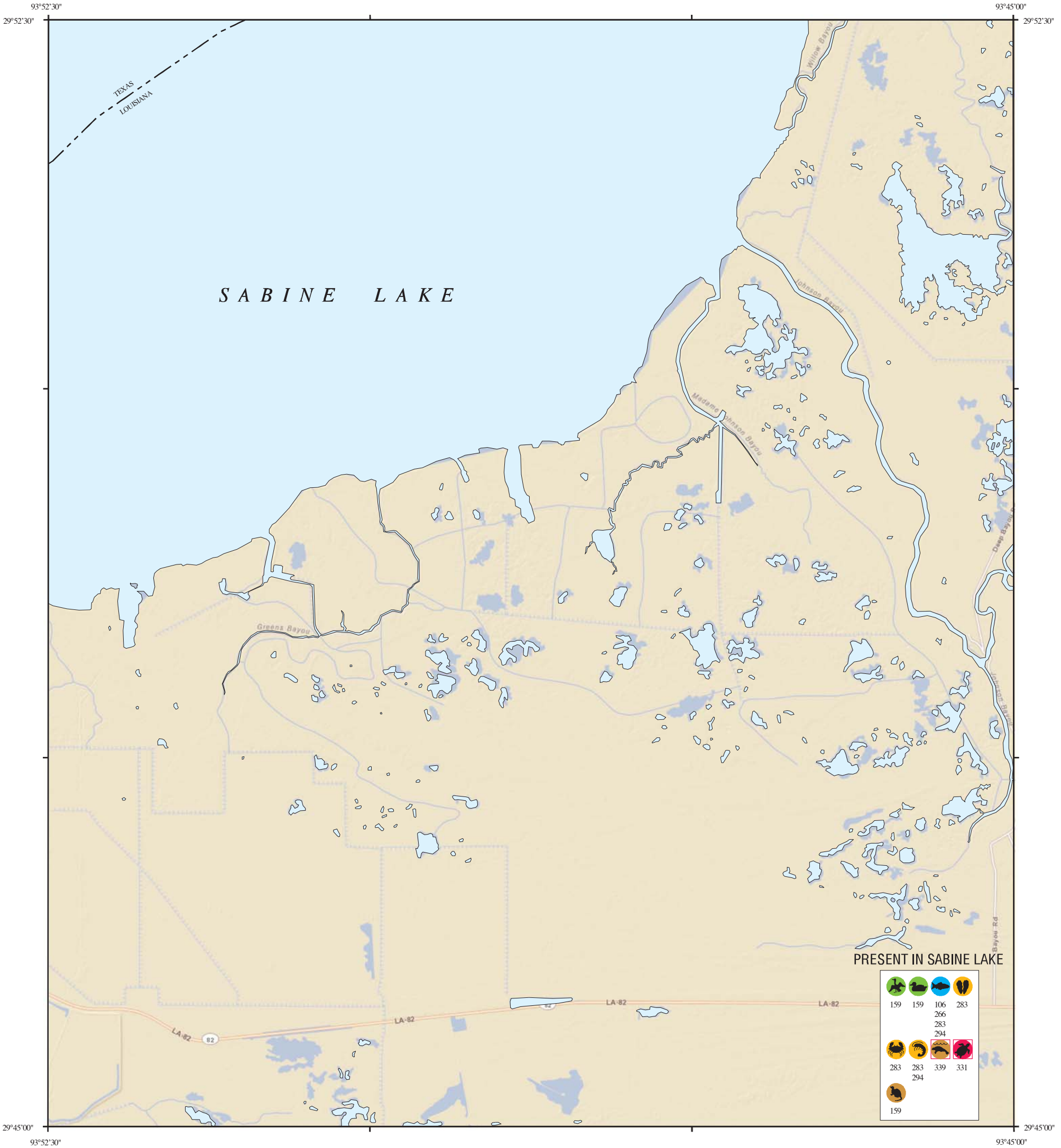


# ENVIRONMENTAL SENSITIVITY INDEX MAP



### SHORELINE HABITATS (ESI)

1B EXPOSED, SOLID MAN-MADE STRUCTURES	
2A EXPOSED WAVE-CUT PLATFORMS IN 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 (SHELL) BEACHES	
6A GRAVEL BEACHES	
6B RIPRAP	
7 EXPOSED TIDAL FLATS	
8A SHELTERED SCARPS IN CLAY OR BEDROCK	
8B SHELTERED, SOLID MAN-MADE STRUCTURES	
8C SHELTERED RIPRAP	
9A SHELTERED TIDAL FLATS	
10A SALT-AND BRACKISH-WATER MARSHES	
10B FRESHWATER MARSHES	
10C SWAMPS	
10D SCRUB-SHRUB WETLANDS	

SCALE 1:50000

1 KILOMETER

1 MILE

1 NAUTICAL MILE

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TEXAS

GULF OF MEXICO

Upper Texas Coast: ESIMAP 8

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
159	Diving birds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Diving ducks		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
106	Bull shark	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	MAY-AUG	MAY-AUG	APR-NOV	JAN-DEC
266	Tarpon	RARE			X	X	X	X	X	X	X	X	X		-	-	-	MAR-NOV	-
283	Alligator gar	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Atlantic bumper	RARE							X	X					-	-	-	-	AUG-SEP
	Atlantic spadefish	RARE						X	X	X	X				-	-	-	JUL-OCT	-
	Bay anchovy	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-DEC	JAN-DEC
	Bay whiff	RARE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUL-AUG	JAN-DEC
	Crevalle jack	COMMON						X	X	X					-	-	-	JUN-AUG	-
	Gafftopsail catfish	ABUNDANT				X	X	X	X	X	X	X			APR-MAY	-	-	APR-OCT	APR-OCT
	Gizzard shad	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Gulf killifish	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-OCT	JAN-DEC	JAN-DEC
	Gulf menhaden	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	APR-DEC
	Hardhead catfish	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	MAY-SEP	MAY-SEP	JUN-SEP	JAN-DEC
	Pinfish	RARE				X	X	X	X	X	X	X			-	-	-	APR-OCT	APR-OCT
	Sand seatrout	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	DEC-FEB	JAN-DEC
	Silver perch	RARE	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-SEP	OCT-NOV	JAN-DEC
	Silversides	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC
	Spanish mackerel	COMMON								X	X				-	-	-	SEP-OCT	SEP-OCT
	Spotfin mojarra	RARE								X	X				-	-	-	-	-
	Spotted gar	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	APR-MAY	-	JAN-DEC	JAN-DEC
	Star drum		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Striped mullet	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	White mullet	COMMON						X	X	X	X				-	-	-	JUN-SEP	-
294	Atlantic croaker	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-JUN	JAN-DEC	JAN-DEC
	Black drum	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Red drum	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Southern flounder	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Spot	HIGHLY ABUNDANT			X	X	X	X	X	X	X	X			-	-	-	MAR-OCT	MAR-NOV
	Spotted seatrout	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-OCT	APR-OCT	OCT-NOV	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
283	Atlantic rangia	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	-	MAR-OCT	JAN-DEC	JAN-DEC
	Blue crab	ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	MAR-NOV	JAN-DEC	JAN-DEC
	Grass shrimp	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
294	Brown shrimp	ABUNDANT			X	X	X	X	X	X	X	X	X	X	-	-	MAR-APR	APR-DEC	-
	White shrimp	HIGHLY ABUNDANT	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN	APR-DEC	MAR-JAN

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
339	West Indian manatee	E E VERY RARE						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
331	Kemp's ridley sea turtle	E E COMMON				X	X	X	X	X	X	X	X		-	-	-	APR-NOV	-

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
159	Northern river otter		X	X	X	X	X	X	X	X	X	X	X	X

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