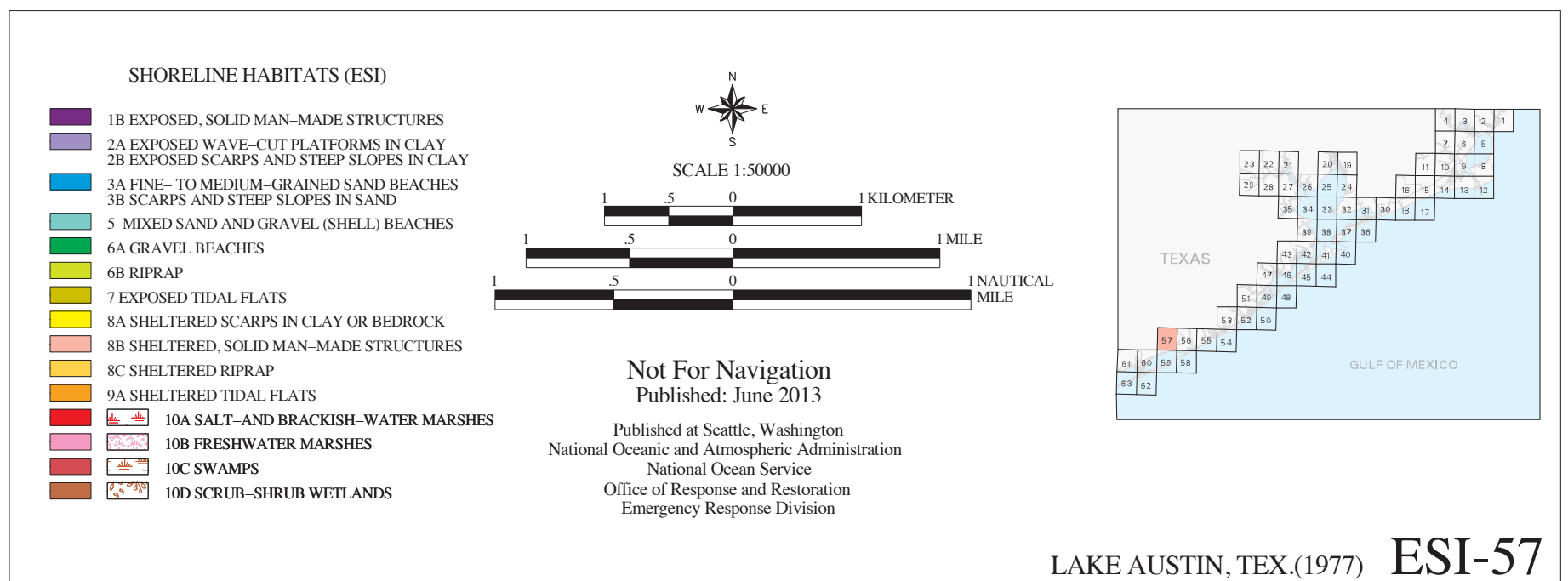
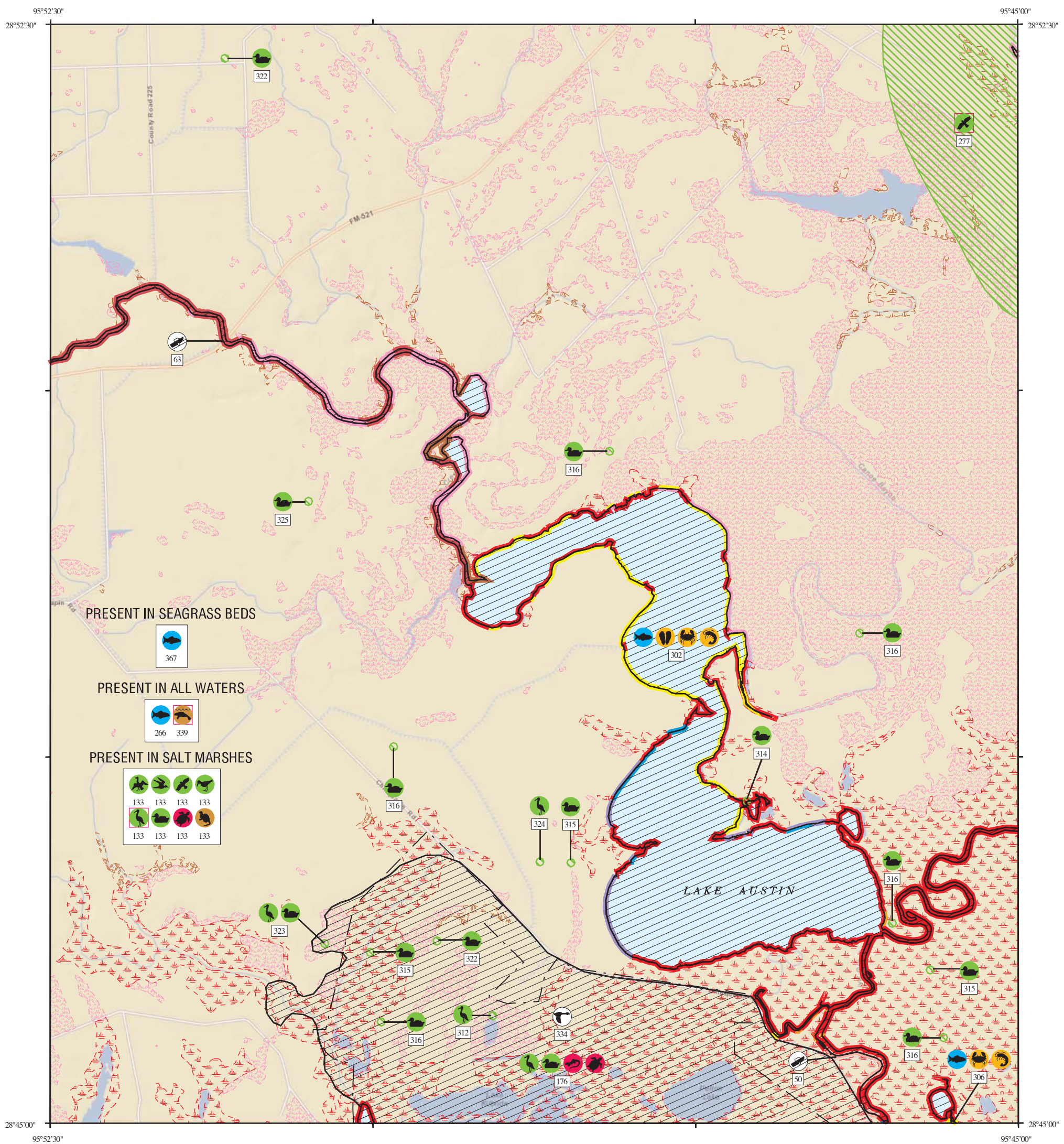


ENVIRONMENTAL SENSITIVITY INDEX MAP



Upper Texas Coast: ESIMAP 57

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
-----	-----	-----	-----	-----	-----	-----
133	American avocet	100S	X X X X X X X X X X X	-	MAR-APR JUL-NOV	-
	American oystercatcher	10S	X X X X X X X X X X X	-	-	-
	Black skimmer	100S	X X X X X X X X X X X	-	-	-
	Black-bellied plover	100S	X X X X X X X X X X X	-	MAR-MAY JUL-NOV	-
	Black-necked stilt	10S	X X X X X X X X X	-	-	-
	Dabbling ducks	HIGH	X X X X X X X X X	-	-	-
	Diving birds		X X X X X X X X X X X	-	-	-
	Dowitchers	1000S	X X X X X X X X X X X	-	MAR-MAY JUL-NOV	-
	Dunlin	1000S	X X X X X X X X X	-	-	-
	Killdeer	10S	X X X X X X X X X X X	-	DEC-MAR	-
	Long-billed curlew	PRESENT	X X X X X X X X X X X	-	FEB-APR	-
	Marbled godwit	10S	X X X X X X X X X X X	-	JUN-NOV MAR-APR JUL-NOV	-
	Marsh birds		X X X X X X X X X X X	-	-	-
	Raptors		X X X X X X X X X X X	-	-	-
	Red knot	PRESENT	X X X X X X X X X	-	-	-
	Reddish egret	T PRESENT	X X X X X X X X X X X	-	-	-
	Sandhill crane	HIGH	X X X X X X X X X	-	-	-
	Shorebirds	1000S	X X X X X X X X X X X	-	-	-
	Wading birds		X X X X X X X X X X X	-	-	-
	Waterfowl		X X X X X X X X X X X	-	-	-
	Western sandpiper	1000S	X X X X X X X X X X X	-	FEB-MAY JUL-NOV	-
	Willet	100S	X X X X X X X X X X X	-	APR-APR AUG-AUG	-
	Yellowlegs	100S	X X X X X X X X X X X	-	MAR-MAY JUL-NOV	-
176	American coot	1000S	X X X X X X X X X	-	-	-
	American wigeon	1000S	X X X X X X X X X	-	-	-
	Blue-winged teal	1000S	X X X X X X X X X X X	-	-	-
	Bufflehead	100S	X X X X X X X X X	-	-	-
	Canada goose	10S	X X X X X X X X X	-	-	-
	Canvasback	10S	X X X X X X X X X	-	-	-
	Fulvous whistling-duck	10S	X X X X X X X X X X X	MAY-AUG	-	-
	Gadwall	10000S	X X X X X X X X X X X	-	-	-
	Greater white-fronted goose	100S	X X X X X X X X X X X	-	-	-
	Green-winged teal	1000S	X X X X X X X X X X X	-	-	-
	Lesser scaup	100S	X X X X X X X X X X X	-	-	-
	Mallard	10S	X X X X X X X X X X X	-	-	-
	Mottled duck	100S	X X X X X X X X X X X	FEB-AUG	-	JUN-AUG
	Northern pintail	1000S	X X X X X X X X X X X	-	-	-
	Northern shoveler	1000S	X X X X X X X X X X X	-	-	-
	Redhead	100S	X X X X X X X X X X X	-	-	-
	Ring-necked duck	10S	X X X X X X X X X X X	-	-	-
	Ruddy duck	100S	X X X X X X X X X X X	-	-	-
	Sandhill crane	100S	X X X X X X X X X X X	-	-	-
	Snow goose	10000S	X X X X X X X X X X X	-	-	-
277	Bald eagle	T 1 NEST	X X X X X X X X X X X	OCT-JUL	-	-
312	Sandhill crane	PRESENT	X X X X X X X X X X X	-	-	-
314	Greater white-fronted goose	100S	X X X X X X X X X X X	-	-	-
	Ross's goose	100S	X X X X X X X X X X X	-	-	-
	Snow goose	100S	X X X X X X X X X X X	-	-	-
315	Greater white-fronted goose	10S	X X X X X X X X X X X	-	-	-
316	Ross's goose	100S	X X X X X X X X X X X	-	-	-
	Snow goose	100S	X X X X X X X X X X X	-	-	-
322	Ross's goose	10S	X X X X X X X X X X X	-	-	-
	Snow goose	10S	X X X X X X X X X X X	-	-	-
323	Ross's goose	100S	X X X X X X X X X X X	-	-	-
	Sandhill crane	10S	X X X X X X X X X X X	-	-	-
	Snow goose	100S	X X X X X X X X X X X	-	-	-
324	Sandhill crane	10S	X X X X X X X X X X X	-	-	-
325	Greater white-fronted goose	10S	X X X X X X X X X X X	-	-	-
	Ross's goose	10S	X X X X X X X X X X X	-	-	-
	Snow goose	10S	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
-----	-----	-----	-----	-----	-----	-----	-----	-----
266	Tarpon	RARE	X X X X X X X X X X	-	-	-	MAR-NOV	-
302	Alligator gar	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Atlantic croaker	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	JAN-JUN	JAN-DEC	JAN-DEC
	Bay anchovy	COMMON	X X X X X X X X X X X	JAN-DEC	JAN-DEC	JAN-DEC	APR-DEC	JAN-DEC
	Bay whiff	COMMON	X X X X X X X X X X X	-	-	-	MAR-NOV	JAN-DEC
	Black drum	RARE	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Blue catfish	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Gizzard shad	ABUNDANT	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Gulf killifish	COMMON	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	-	-	-	JAN-DEC	-
	Hardhead catfish	ABUNDANT	X X X X X X X X X X X	MAY-JUL	MAY-JUL	MAY-JUL	MAY-SEP	JAN-DEC
	Pinfish	COMMON	X X X X X X X X X X X	-	-	-	JAN-OCT	FEB-NOV
	Red drum	ABUNDANT	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sand seatrout	RARE	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sheepshead	RARE	X X X X X X X X X X X	-	-	-	NOV-AUG	JAN-DEC
	Silversides	RARE	X X X X X X X X X X X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC
	Smallmouth buffalo		X X X X X X X X X X X	-	-	-	-	JAN-DEC
	Southern flounder	COMMON	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 X X X	-	-	-	FEB-DEC	JAN-DEC
	Spotfin mojarra	RARE	X X X X X X X X X X X	-	-	-	-	-
	Spotted gar	ABUNDANT	X X X X X X X X X X X	APR-MAY	APR-MAY	-	JAN-DEC	JAN-DEC
	Spotted seatrout	COMMON	X X X X X X X X X X X	MAR-OCT	MAR-OCT	MAR-OCT	SEP-NOV	JAN-DEC
	Striped mullet	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	White mullet	RARE	X X X X X X X X X X X	-	-	-	MAR-OCT	-
306	Atlantic croaker	HIGHLY ABUNDANT	X X X X X X X X X X X	-	-	JAN-JUN	JAN-DEC	MAY-DEC
	Atlantic spadefish	RARE	X X X X X X X X X X X	-	-	-	MAR-DEC	-
	Bay anchovy	COMMON	X X X X X X X X X X X	MAR-NOV	MAR-NOV	MAR-NOV	JAN-NOV	JAN-DEC
	Bay whiff	RARE	X X X X X X X X X X X	-	-	-	MAR-DEC	JAN-DEC
	Gafftopsail catfish	COMMON	X X X X X X X X X X X	APR-MAY	-	-	APR-SEP	APR-SEP
	Gray snapper	COMMON	X X X X X X X X X X X	-	-	-	AUG-OCT	JAN-DEC
	Gulf menhaden	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	NOV-JAN
	Hardhead catfish	ABUNDANT	X X X X X X X X X X X	MAY-AUG	MAY-SEP	MAY-SEP	MAY-OCT	JAN-DEC
	Pinfish	COMMON	X X X X X X X X X X X	-	-	-	MAR-DEC	FEB-NOV
	Red drum	COMMON	X X X X X X X X X X X	-	-	AUG-NOV	JAN-DEC	JAN-DEC
	Sand seatrout	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Silver perch	RARE	X X X X X X X X X X X	MAY-SEP	MAY-SEP	MAY-SEP	MAR-DEC	JAN-DEC
	Southern flounder	COMMON	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 X X X	-	-	-	JAN-DEC	NOV-JUN
	Spotted seatrout	COMMON	X X X X X X X X X X X	MAR-OCT	MAR-OCT	MAR-OCT	JUN-NOV	JAN-DEC
	Striped mullet	COMMON	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
367	Dwarf seahorse		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. This is particularly important to recognize when considering potential impacts to protected species.

Upper Texas Coast: ESIMAP 57 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
302	Atlantic rangia	COMMON	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	MAR-NOV	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Brown shrimp	ABUNDANT	X X X X X X X X X X	-	-	FEB-APR	FEB-NOV	-
	Grass shrimp	ABUNDANT	X X X X X X X X X X X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	White shrimp	ABUNDANT	X X X X X X X X X X X	-	-	MAY-NOV	JUN-DEC	JAN-DEC
306	Blue crab	HIGHLY ABUNDANT	X X X X X X X X X X X	MAR-NOV	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Brown shrimp	ABUNDANT	X X X X X X X X X X X	-	-	FEB-APR	JAN-DEC	-
	White shrimp	COMMON	X X X X X X X X X X X	-	-	APR-NOV	MAY-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
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	Interneesting	Juveniles	Adults
133	Diamondback terrapin		X X X X X X X X X X X	APR-MAY	JUN-SEP	-	JAN-DEC	JAN-DEC
176	Diamondback terrapin		X X X X X X X X X X X	APR-MAY	JUN-SEP	-	JAN-DEC	JAN-DEC
	Gulf salt marsh snake		X X X X X X X X X X X	MAR-MAY	JUL-AUG	-	JAN-DEC	JAN-DEC

TERRESTRIAL MAMMAL:

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

HUMAN USE RESOURCES:

BOAT RAMP:

HUN#	Name	Contact	Phone
50	CHINQUAPIN RAMP		
63	FM 521		

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
334	BIG BOGGY NATIONAL WILDLIFE REFUGE		