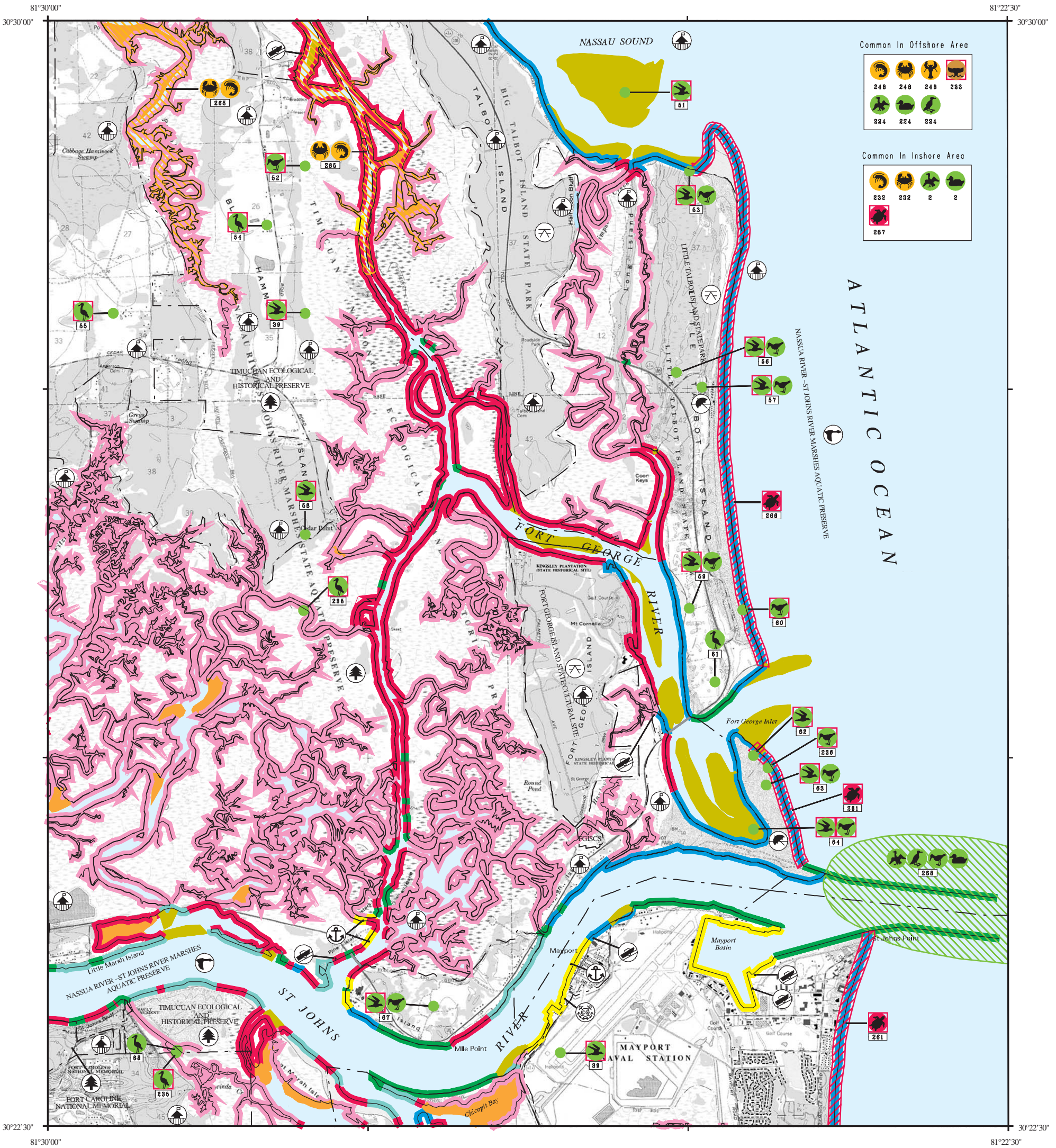


ENVIRONMENTAL SENSITIVITY INDEX MAP



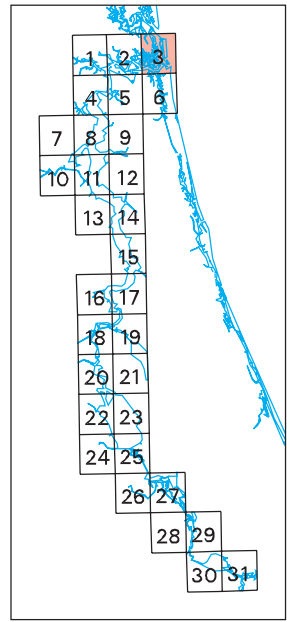
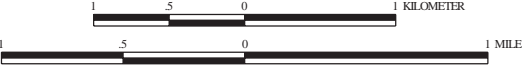
Prepared by:  
Research Planning, Inc.



Prepared for:  
Florida Department of  
Environmental Protection



SCALE 1:50000



Not For Navigation  
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ST. JOHNS RIVER ESIMAP 3

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
2	Brown pelican			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead			LOW	X	X										X	-	-	-	-
	Common loon			LOW	X	X	X	X								X	X	-	-	-
	Double-crested cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Lesser scaup			MED	X	X	X	X								X	X	X	-	-
	Red-breasted merganser			LOW	X	X	X	X								X	X	X	-	-
	Redhead			LOW	X	X	X									X	X	-	-	-
39	Least tern	S	T				X	X	X	X	X	X	X				APR-AUG	-	-	-
51	Gull-billed tern			12			X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Least tern	S	T	60			X	X	X	X	X	X	X				APR-AUG	-	-	-
	Royal tern				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	-
	Sandwich tern			6	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
52	American oystercatcher				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	-
	Black-bellied plover			127	X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Common snipe				X	X	X	X	X				X	X	X	X	-	-	-	-
	Dunlin				X	X	X	X				X	X	X	X	X	-	-	-	-
	Greater yellowlegs				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Hudsonian godwit				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Killdeer				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least sandpiper				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Lesser yellowlegs				X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Lesser-golden plover						X	X	X				X	X	X		-	-	-	-
	Long-billed dowitcher				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Marbled godwit				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Pectoral sandpiper						X	X	X		X	X	X	X	X		-	-	-	-
	Peep			77	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Piping plover	S/F	T/T		X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Purple sandpiper				X	X	X	X	X					X	X	X	-	-	-	-
	Red knot				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ruddy turnstone				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sanderling			235	X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Semipalmated plover			634	X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Semipalmated sandpiper				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Sharp-tailed sandpiper				X	X							X	X	X	X	-	-	-	-
	Shorebirds			15	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Short-billed dowitcher			206	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Spotted sandpiper				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Stilt sandpiper				X	X	X					X	X	X	X	X	-	-	-	-
	Western sandpiper				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Whimbrel						X	X	X		X	X	X	X			-	-	-	-
	White-rumped sandpiper							X	X	X	X	X					-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
53	American oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern	S	T	8			X	X	X	X	X	X					APR-AUG	-	-	-
54	Cattle egret				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	-	-	-
	Wading birds				X	X	X	X	X	X	X	X	X	X	X	X	DEC-AUG	-	-	-
	Wood stork	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAY	-	-	-
55	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	-	-	-
	Tricolored heron				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-	-
	Wood stork	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAY	-	-	-
56	American oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black skimmer			1	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern	S	T	63			X	X	X	X	X	X	X				APR-AUG	-	-	-
	Royal tern			20	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	-
	Wilson's plover			2	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
57	Least tern	S	T	15			X	X	X	X	X	X	X				APR-AUG	-	-	-
	Willet			2	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
	Wilson's plover			2	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
58	Least tern	S	T	16			X	X	X	X	X	X	X				APR-AUG	-	-	-
59	American oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Least tern	S	T	14			X	X	X	X	X	X					APR-AUG	-	-	-
	Wilson's plover			42	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
60	Piping plover	S/F	T/T	9	X	X	X	X	X			X	X	X	X	X	-	-	-	-
61	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUL	-	-	-
62	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-
	Least tern	S	T				X	X	X	X	X	X					APR-AUG	-	-	-
63	Black skimmer			250	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-
	Laughing gull			1000	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Least tern	S	T	50			X	X	X	X	X	X					APR-AUG	-	-	-
	Royal tern			150	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Ruddy turnstone			4	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet			1	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
64	Black skimmer				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	-
	Black-bellied plover				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Least tern	S	T				X	X	X	X	X	X					APR-AUG	-	-	-
	Piping plover	S/F	T/T	8	X	X	X	X	X			X	X	X	X	X	-	-	-	-
	Red knot				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sanderling				X	X	X	X	X		X	X	X	X	X	X	-	-	-	-
	Shorebirds			1000	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Short-billed dowitcher				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Whimbrel						X	X	X		X	X	X	X			-	-	-	-
	Wilson's plover			12	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
67	Laughing gull			50	X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	-
	Least tern	S	T	111			X	X	X	X	X	X					APR-AUG	-	-	-
	Wilson's plover			4	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
68	Cattle egret				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-	-
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	-	-	-
	Little blue heron				X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-	-



ST. JOHNS RIVER ESIMAP 3 (continued)

BIOLOGICAL RESOURCES (continued):

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
224	Brown pelican			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Bufflehead			LOW	X	X										X	-	-	-	-
	Common loon			LOW	X	X	X	X								X	X	-	-	-
	Double-crested cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Lesser scaup			MED	X	X	X	X								X	X	X	-	-
	Northern gannet			LOW	X	X	X	X								X	-	-	-	-
	Red-breasted merganser			LOW	X	X	X	X								X	X	X	-	-
	Redhead			LOW	X	X	X									X	X	-	-	-
235	Wood stork	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
236	Piping plover	S/F	T/T		X	X	X	X	X			X	X	X	X	X	-	-	-	-
268	Brown pelican			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern gannet			HIGH	X	X	X	X								X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			HIGH	X	X	X									X	X	-	-	-

M_MAMMAL:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
233	Humpback whale	S/F	E/E	HIGH	X	X	X								X	X	-	-	-	-
	Northern right whale	S/F	E/E	HIGH	X	X	X								X	X	-	NOV-MAR	-	-

REPTILE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting
261	Loggerhead sea turtle	S/F	T/T	LOW	-		X	X	X	X	X	X	X	X	X	X	APR-OCT	MAY-NOV	MAR-OCT
266	Leatherback sea turtle	S/F	E/E	LOW	X	X	X	X	X	X	X	X	X				FEB-AUG	MAR-SEP	JAN-AUG
	Loggerhead sea turtle	S/F	T/T	LOW			X	X	X	X	X	X	X	X	X	X	APR-OCT	MAY-NOV	MAR-OCT
267	Green sea turtle	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Leatherback sea turtle	S/F	E/E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loggerhead sea turtle	S/F	T/T		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Larvae/Juv	Mating
232	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	MAR-DEC
	Brown shrimp			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	-
	Pink shrimp			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	-
	Stone crab			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	SEP-NOV
	White shrimp			MED	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	JAN-DEC	-
248	Blue crab			LOW	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	-
	Brown shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-
	Pink shrimp			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	-
	Spiny lobster			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Stone crab			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	JAN-DEC	-
265	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Blue crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	MAR-DEC
	Brown shrimp			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	-
	Pink shrimp			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	-
	Stone crab			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	JAN-DEC	SEP-NOV
	White shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	JAN-DEC	-

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