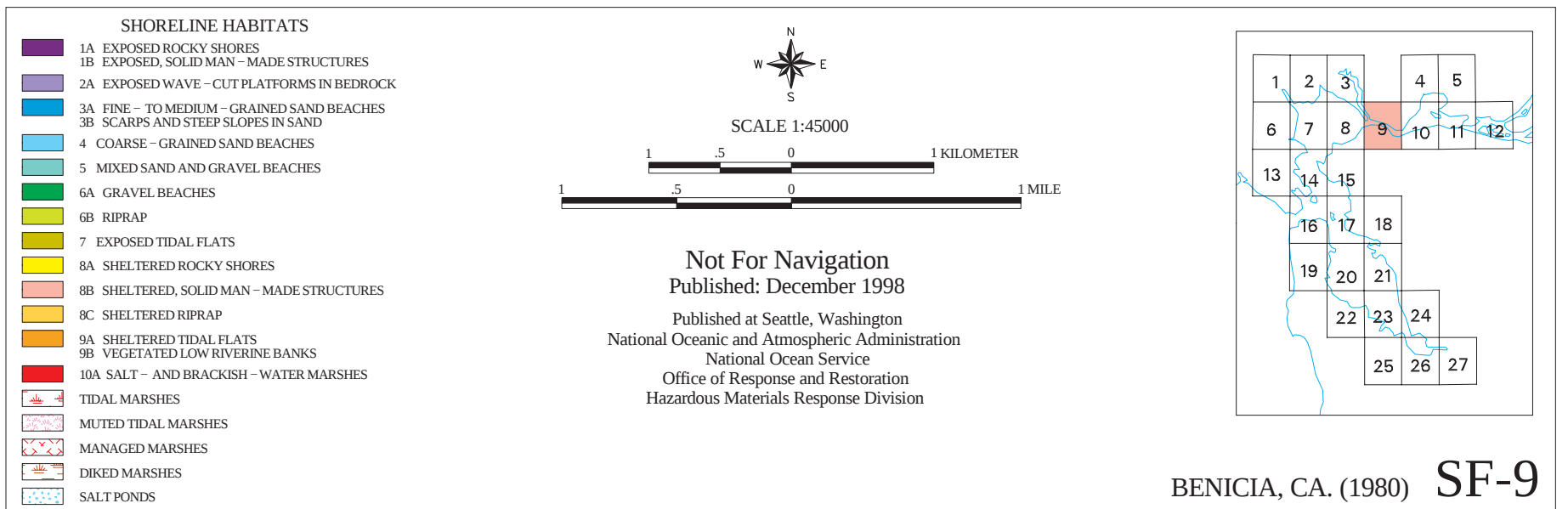
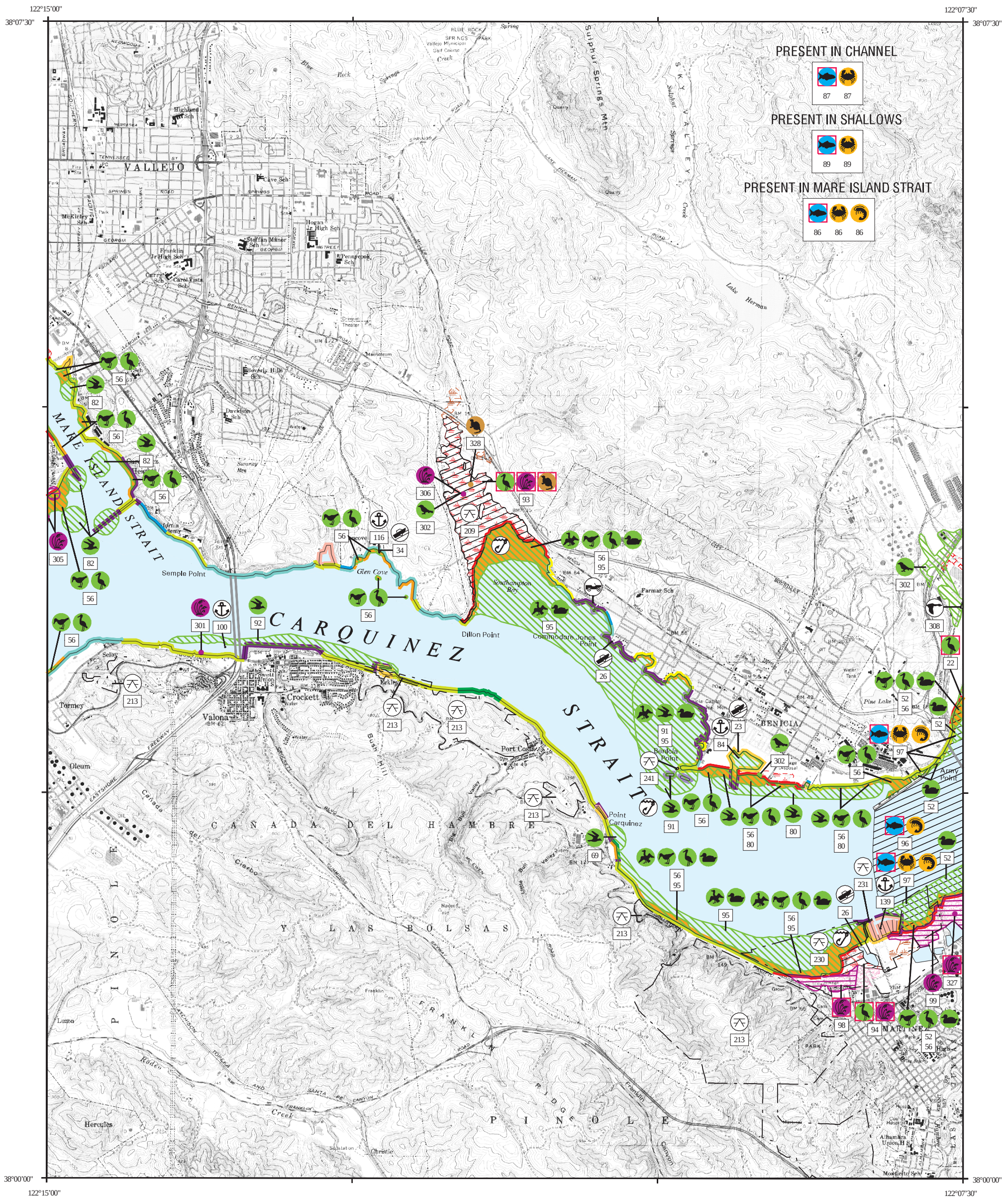


ENVIRONMENTAL SENSITIVITY INDEX MAP



SAN FRANCISCO BAY – ESIMAP 9

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
22	California clapper rail	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	-
52	Canvasback			MEDIUM	X	X	X	X					X	X	X		-	-	-	
	Diving ducks			HIGH	X	X	X	X					X	X	X		-	-	-	
	Ruddy duck			LOW	X	X	X	X					X	X	X	X	-	-	-	
56	Shorebirds			LOW	X	X	X	X		X	X	X	X	X	X		-	-	-	
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
69	western gull			1	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-JUN	MAY-JUL	JUL-AUG
80	western gull			3	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-JUN	MAY-JUL	JUL-AUG
82	western gull			10	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-JUN	MAY-JUL	JUL-AUG
91	western gull			5	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-JUN	MAY-JUL	JUL-AUG
92	western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-JUN	MAY-JUL	JUL-AUG
93	California black rail	S	T	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	-
	California clapper rail	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	-
94	California clapper rail	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	-
95	Canvasback			HIGH	X	X	X	X					X	X	X		-	-	-	
	Dabbling ducks			HIGH	X	X	X	X					X	X	X		-	-	-	
	Diving ducks			HIGH	X	X	X	X					X	X	X		-	-	-	
	Western grebe			HIGH	X	X	X	X					X	X	X		-	-	-	
302	Suisun song sparrow			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
86	American shad			HIGH	-	-	-	X	X	X	X	X	X	X	X		-	-	-	AUG-DEC	MAY-JUL
	Chinook salmon			LOW	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Delta smelt	S/F	T/T	RARE	X	X	X	X	X	X			X	X	X		JAN-MAY	JAN-MAY	JAN-JUL	MAR-JUL	OCT-JUN
	Rainbow trout (steelhead)	F	T	LOW	X	X	X	X	X	X	X	X	X	X	X		-	-	-	FEB-JUN	JUL-FEB
	Striped bass			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	White sturgeon			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
87	American shad			HIGH				X	X	X	X	X	X	X	X		-	-	-	AUG-DEC	MAY-JUL
	Chinook salmon (fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JUL-NOV
	Chinook salmon (late fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	OCT-MAR
	Chinook salmon (spring)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	FEB-AUG
	Chinook salmon (winter)	S/F	E/E	HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	NOV-MAY
	Delta smelt	S/F	T/T	RARE	X	X		X	X	X	X	X	X	X	X		-	-	APR-JUN	APR-AUG	AUG-FEB
	Green sturgeon			MEDIUM	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Longfin smelt			HIGH	X	X	X	X									-	JAN-MAR	JAN-APR	APR-APR	-
	Striped bass			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JUN-AUG
	White sturgeon			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
89	American shad			HIGH				X	X	X	X	X	X	X	X		-	-	-	AUG-DEC	MAY-JUL
	Chinook salmon (fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	Chinook salmon (late fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	Chinook salmon (spring)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	Chinook salmon (winter)	S/F	E/E	HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	Delta smelt	S/F	T/T	RARE	X	X		X	X	X	X	X	X	X	X		-	-	APR-JUN	APR-AUG	AUG-FEB
	Green sturgeon			MEDIUM	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Longfin smelt			HIGH	X	X	X	X									-	JAN-MAR	JAN-APR	APR-APR	-
	Striped bass			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	APR-MAY	APR-JUN	JAN-DEC	SEP-MAY
	White croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	SEP-MAR	JAN-DEC	-
	White sturgeon			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
97	American shad			HIGH				X	X	X	X	X	X	X	X		-	-	-	AUG-DEC	MAY-JUL
	Chinook salmon (fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JUL-NOV
	Chinook salmon (late fall)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	OCT-MAR
	Chinook salmon (spring)			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	FEB-AUG
	Chinook salmon (winter)	S/F	E/E	HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	NOV-MAY
	Delta smelt	S/F	T/T	LOW	X	X	X	X	X	X	X	X	X	X	X		-	-	APR-JUN	APR-AUG	JAN-DEC
	Green sturgeon			MEDIUM	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Longfin smelt			HIGH	X	X	X	X									-	JAN-MAR	JAN-APR	APR-APR	-
	Striped bass			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	APR-MAY	APR-JUN	JAN-DEC	SEP-MAY
	White croaker			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	SEP-MAR	JAN-DEC	-
	White sturgeon			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC

HABITAT/PLANT:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
93	Soft bird's-beak	F	E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
94	Soft bird's-beak	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X
98	Soft bird's-beak	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X
99	Delta tule pea			LOW	X	X	X	X	X	X	X	X	X	X	X	X
301	Delta tule pea			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
305	Mason's lilaeopsis			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
306	Suisun marsh aster			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
327	Soft bird's-beak	F	E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X

INVERTEBRATE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
86	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-SEP	MAR-OCT	JAN-NOV
	Dungeness crab			HIGH				X	X	X	X	X	X	X	X		-	-	-	APR-DEC	-
87	Dungeness crab			HIGH	X	X		X	X	X				X	X		-	-	-	APR-JUN	-
																				NOV-FEB	
89	Dungeness crab			HIGH				X	X	X	X	X	X	X	X		-	-	-	APR-DEC	-
96	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X		JAN-MAR	JAN-SEP	MAR-SEP	-	JAN-NOV
97	California bay shrimp			HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-SEP	MAR-OCT	JAN-NOV
	Dungeness crab			HIGH				X	X	X	X	X	X	X	X		-	-	-	APR-DEC	-

TERRESTRIAL MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
93	Salt-marsh harvest mouse	S/F	E/E	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
328	Suisun ornate shrew			PRESENT	X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

BOAT RAMP:

HUN#	Name
23	BENICIA MARINA BOAT RAMP
26	BOAT RAMP
34	GLEN COVE WATERFRONT PARK AND MARINA

MARINA:

HUN#	Name
84	BENECIA MARINA
100	CROCKETT MARINE SERVICE
116	GLEN COVE MARINA
139	MARTINEZ MARINA

STATE/REGIONAL PARK:

HUN#	Name	Owner	Contact	Phone
209	BENICIA STATE RECREATION AREA	CDPR	DISPATCH	916-988-7322
213	CARQUINEZ STRAIT REGIONAL SHORELINE	EBRP	DISPATCH	510-881-1833
230	MARTINEZ REGIONAL SHORELINE	EBRP	DISPATCH	510-881-1833
231	MARTINEZ STATE FISHING PIER			
241	POINT BENICIA STATE FISHING PIER			

WILDLIFE REFUGE/MGMT AREA:

HUN#	Name	Owner	Contact	Phone
308	GRIZZLY ISLAND STATE WILDLIFE AREA	CDFG	MANAGER	707-425-3828