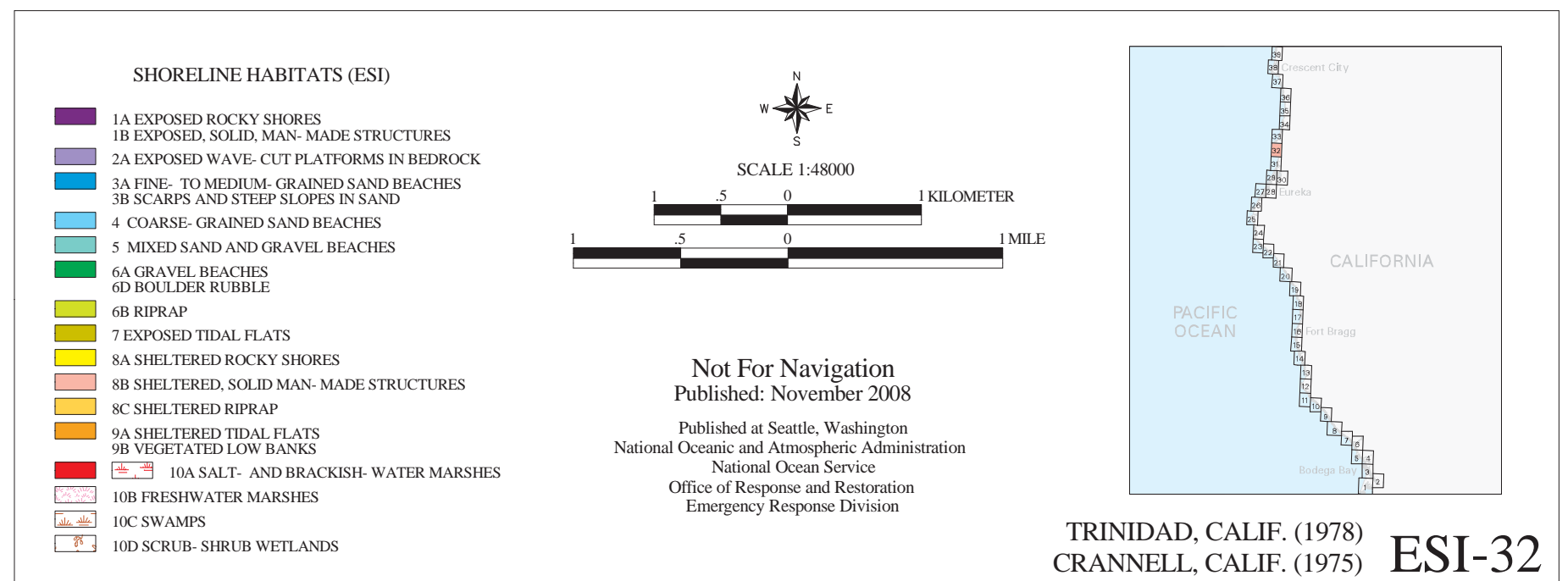
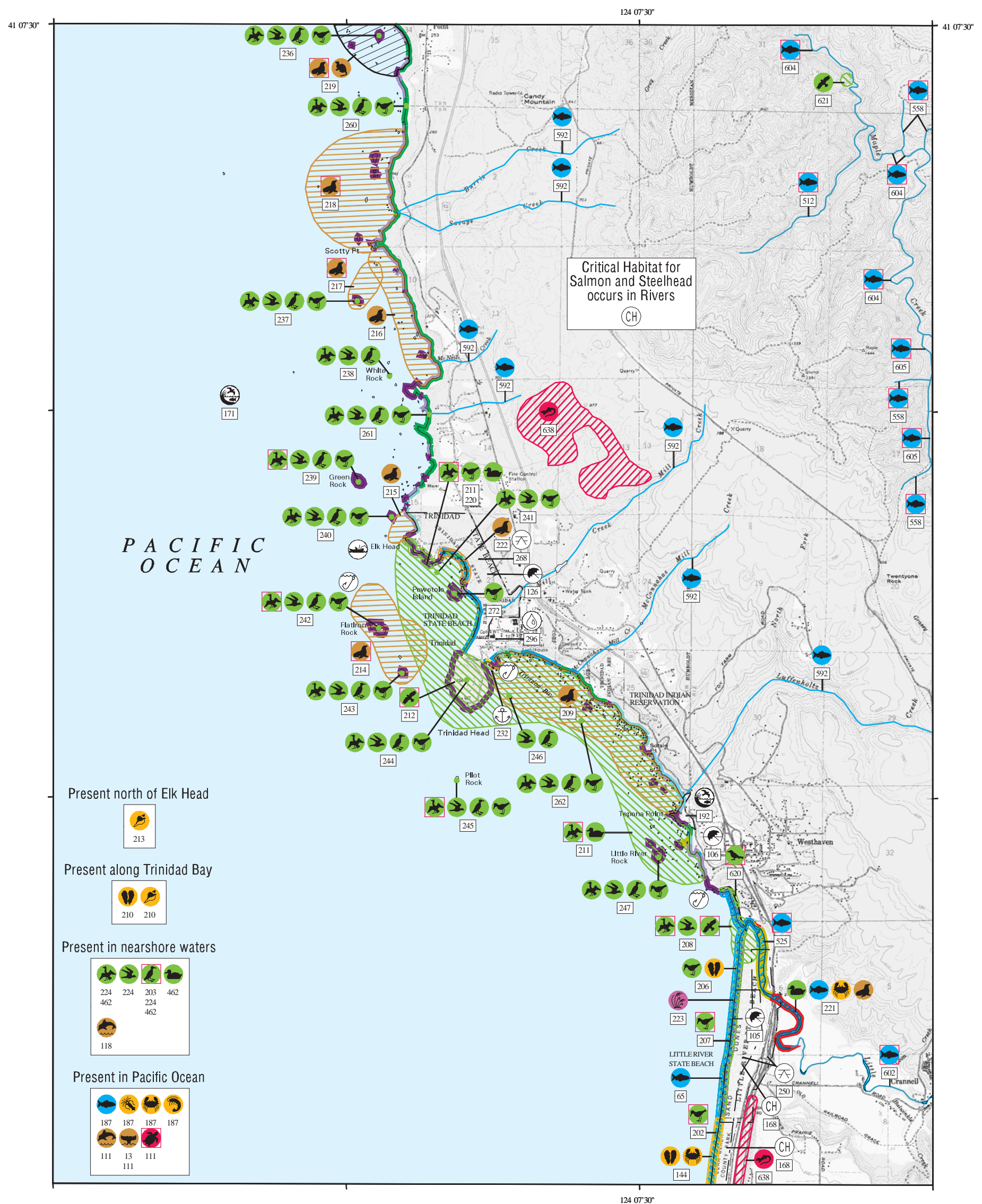


ENVIRONMENTAL SENSITIVITY INDEX MAP



Northern California: ESIMAP 32

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
202	Western snowy plover	T 5-14 BIRDS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
203	Marbled murrelet	E T HIGH				X	X	X	X	X	X	X			-	-	-
206	Black oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Dunlin		X	X	X	X					X	X	X		-	-	-
	Sanderling		X	X	X	X				X	X	X	X		-	-	-
	Shorebirds	HIGH	X	X	X	X			X	X	X	X	X	X	-	MAR-APR JUL-OCT	-
	Whimbrel					X	X	X		X	X	X			-	-	-
207	Western snowy plover	T 7-52 BIRDS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
208	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Bald eagle	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Brown pelican	E E				X	X	X	X	X	X	X	X		-	-	-
	Cormorants		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulls		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern harrier		X	X	X	X				X	X	X	X		-	-	-
	White-tailed kite		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
211	Brown pelican	E E				X	X	X	X	X	X	X	X		-	-	-
	Sea ducks	HIGH	X	X	X	X					X	X	X		-	-	-
212	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
220	Black oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
221	Canada goose		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
224	Diving birds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulls		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Seabirds	250,000	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Terns		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
236	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Double-crested cormorant	21 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Pelagic cormorant	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	1 INDIV.				X	X	X	X	X	X	X			MAY-AUG	-	-
	Western gull	44 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
237	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Double-crested cormorant	20 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Pelagic cormorant	24 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	5 INDIV.				X	X	X	X	X	X	X			MAY-AUG	-	-
	Western gull	20 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
238	Common murre	2,836 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Leach's storm-petrel	7 INDIV.				X	X	X	X	X	X	X			MAY-OCT	-	-
	Pelagic cormorant	22 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	10 INDIV.				X	X	X	X	X	X	X			MAY-AUG	-	-
	Western gull	12 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
239	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Brandt's cormorant	36 NESTS				X	X	X	X	X	X	X			MAR-AUG	-	-
	Brown pelican	E E 55 NESTS				X	X	X	X	X	X	X			-	-	-
	Cassin's auklet	84 INDIV.	X	X	X	X	X	X	X	X	X	X	X		FEB-OCT	-	-
	Common murre	24,026 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Fork-tailed storm-petrel	50 INDIV.	X	X	X	X	X	X	X	X	X	X	X		MAR-NOV	-	-
	Leach's storm-petrel	1 INDIV.				X	X	X	X	X	X	X			MAY-OCT	-	-
	Pelagic cormorant	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	25 INDIV.				X	X	X	X	X	X	X			MAY-AUG	-	-
	Rhinoceros auklet	12 INDIV.				X	X	X	X	X	X	X			APR-AUG	-	-
	Tufted puffin	29 INDIV.				X	X	X	X	X	X				MAY-SEP	-	-
	Western gull	28 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
240	Black oystercatcher	3 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Pelagic cormorant	8 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	8 INDIV.				X	X	X	X	X	X				MAY-AUG	-	-
	Tufted puffin	7 INDIV.				X	X	X	X	X	X				MAY-SEP	-	-
	Western gull	20 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
241	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Pelagic cormorant	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Western gull	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
242	Black oystercatcher	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Brandt's cormorant	777 NESTS				X	X	X	X	X	X	X			MAR-AUG	-	-
	Brown pelican	E E 66 INDIV.				X	X	X	X	X	X	X			-	-	-
	Common murre	30464 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Pelagic cormorant	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	3 INDIV.				X	X	X	X	X	X				MAY-AUG	-	-
	Tufted puffin	2 INDIV.				X	X	X	X	X	X				MAY-SEP	-	-
	Western gull	114 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
243	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Brandt's cormorant	65 NESTS				X	X	X	X	X	X	X			MAR-AUG	-	-
	Common murre	636 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Pigeon guillemot	5 INDIV.				X	X	X	X	X	X				MAY-AUG	-	-
	Western gull	96 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
244	Black oystercatcher	3 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Pelagic cormorant	68 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	30 INDIV.				X	X	X	X	X					MAY-AUG	-	-
	Western gull	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
245	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Brandt's cormorant	18 NESTS				X	X	X	X	X	X				MAR-AUG	-	-
	Brown pelican	E E 21 INDIV.				X	X	X	X	X	X				-	-	-
	Common murre	1336 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Double-crested cormorant	27 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Pelagic cormorant	8 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	5 INDIV.				X	X	X	X	X	X				MAY-AUG	-	-
	Rhinoceros auklet	1 INDIV.				X	X	X	X	X	X				APR-AUG	-	-
	Western gull	60 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
246	Fork-tailed storm-petrel	1 INDIV.	X	X	X	X	X	X	X	X	X				MAR-NOV	-	-
	Leach's storm-petrel	106 INDIV.				X	X	X	X	X	X				MAY-OCT	-	-
	Pigeon guillemot	3 INDIV.				X	X	X	X	X	X				MAY-AUG	-	-
	Western gull	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
247	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Double-crested cormorant	141 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
	Fork-tailed storm-petrel	200 INDIV.				X	X	X	X	X	X	X			MAR-NOV	-	-
	Leach's storm-petrel	4200 INDIV.				X	X	X	X	X	X				MAY-OCT	-	-
	Pelagic cormorant	12 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	23 INDIV.				X	X	X	X	X	X				MAY-AUG	-	-
	Rhinoceros auklet	1 INDIV.				X	X	X	X	X					APR-AUG	-	-
	Western gull	54 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
260	Black oystercatcher	9 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Pelagic cormorant	209 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	27 INDIV.				X	X	X	X	X					MAY-AUG	-	-
	Western gull	22 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
261	Black oystercatcher	5 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Brandt's cormorant	2 INDIV.				X	X	X	X	X	X				MAR-AUG	-	-
	Pelagic cormorant	206 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	9 INDIV.				X	X	X	X	X	X				MAY-AUG	-	-
	Western gull	22 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
262	Black oystercatcher	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Fork-tailed storm-petrel	8 INDIV.				X	X	X	X	X	X	X			MAR-NOV	-	-
	Leach's storm-petrel	4173 INDIV.				X	X	X	X	X	X				MAY-OCT	-	-
	Pelagic cormorant	72 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	36 INDIV.				X	X	X	X	X					MAY-AUG	-	-
	Western gull	48 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-

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.

Northern California: ESIMAP 32 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BIRD: (cont.)

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
272	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
462	Black scoter		X	X	X	X							X	X	-	-	-
	Brandt's cormorant					X	X	X	X	X	X	X	X		-	-	-
	Clark's grebe		X	X	X	X						X	X	X	-	-	-
	Common loon		X	X	X	X				X	X	X	X		-	-	-
	Common murre		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Double-crested cormorant		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Eared grebe		X	X	X	X				X	X	X	X		-	-	-
	Horned grebe		X	X	X	X				X	X	X			-	-	-
	Pacific loon					X	X	X			X	X			-	-	-
	Pelagic cormorant		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Red-throated loon		X	X	X	X	X						X	X	-	-	-
	Surf scoter		X	X	X	X				X	X	X	X		-	-	-
	Western grebe		X	X	X	X	X			X	X	X	X		-	-	-
	White-winged scoter		X	X	X	X				X	X	X			-	-	-
620	Bank swallow	T		X	X	X	X	X	X	X	X	X	X		JUN-AUG	-	-
621	Osprey		X	X	X	X	X	X	X	X	X	X			FEB-AUG	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
65	Night smelt		X	X	X	X	X	X	X	X					JAN-SEP	-	-	JAN-SEP	JAN-SEP
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	-	-	JAN-DEC	FEB-NOV
	Silver surfperch		X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	-	JUN-AUG	JAN-DEC	JAN-DEC
	Striped surfperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Surf smelt					X	X	X	X	X					MAY-OCT	-	-	MAY-OCT	MAY-OCT
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-	APR-FEB	JAN-DEC
															NOV-DEC				
187	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	JAN-DEC	JAN-DEC
	Bat ray			X	X	X	X	X	X	X	X				-	-	-	MAR-NOV	MAR-NOV
	Black rockfish		X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	-	JAN-MAY	JAN-DEC	JAN-DEC
	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	MAR-MAY	JAN-DEC	JAN-DEC
	Blue rockfish		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	-	-	JAN-DEC	JAN-DEC
	Bocaccio		X	X	X	X	X	X	X	X	X	X	X	X	JAN-MAY	JAN-MAY	FEB-MAY	JAN-DEC	JAN-DEC
	Brown rockfish		X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-	JAN-DEC	JAN-DEC
	Brown smoothhound		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-	JAN-DEC	JAN-DEC
	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-MAR	OCT-APR	OCT-APR	JAN-DEC	JAN-DEC
	California halibut		X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	JAN-SEP	JAN-SEP	JAN-DEC	FEB-OCT
	California skate		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Canary rockfish (orange)		X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-MAR	DEC-APR	JAN-DEC	JAN-DEC
	Chilipepper		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	JAN-JUN	JAN-DEC	JAN-DEC
	China rockfish		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	-	-	JAN-DEC	JAN-DEC
	Chinook salmon		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Coho salmon		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Copper rockfish		X	X	X	X	X	X	X	X	X	X	X	X	FEB-APR	FEB-APR	FEB-APR	JAN-DEC	JAN-DEC
	English sole		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Grass rockfish		X	X	X	X	X	X	X	X	X	X	X	X	DEC-FEB	DEC-MAR	JAN-JUN	JAN-DEC	JAN-DEC
	Gray smoothhound						X	X	X						-	-	-	-	JUN-SEP
	Green sturgeon		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-DEC	JAN-DEC	JAN-DEC
	Kelp greenling		X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	-	-	JAN-DEC	JAN-DEC
	Leopard shark		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	OCT-JUN
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-FEB	FEB-APR	JAN-DEC	JAN-DEC
	Longnose skate		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Northern anchovy						X	X	X	X	X				-	-	JUN-SEP	JUN-NOV	JUN-OCT
	Pacific herring		X	X	X	X	X	X	X			X	X		NOV-MAR	NOV-MAR	NOV-MAR	MAR-AUG	NOV-MAR
	Pacific sanddab		X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	-	-	JAN-DEC	JAN-DEC
	Pacific sardine						X	X	X						-	-	-	-	JUN-AUG
	Quillback rockfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	JAN-DEC	JAN-DEC
	Rock greenling		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sand sole		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	-	-	JAN-DEC	JAN-DEC
	Sandpaper skate		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sevengill shark					X	X	X	X	X	X	X	X		-	-	-	-	MAR-NOV
	Sixgill shark		X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	-	-	JAN-DEC	JAN-DEC
	Speckled sanddab		X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	-	AUG-DEC	JAN-DEC	JAN-DEC
	Spiny dogfish		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	JAN-DEC	JAN-DEC
	Starry flounder		X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	-	-	JAN-DEC	JAN-DEC
	Steelhead		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Striped surfperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Topsmelt		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUL	MAY-AUG	JAN-DEC	JAN-DEC
	Vermilion rockfish		X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	-	-	JAN-DEC	JAN-DEC
	Yellowtail rockfish		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	JAN-JUL	JAN-JUL	JAN-DEC	JAN-DEC
221	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	English sole		X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-JUN	JAN-DEC	-
	Green sturgeon		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Jacksmelt					X	X	X	X	X	X				APR-JUN	APR-JUN	APR-AUG	APR-OCT	APR-OCT
	Pacific lamprey		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JAN	JAN-DEC	JAN-DEC	JAN-DEC
	Pacific sardine		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Prickly sculpin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Saddleback gunnel		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Shiner surfperch					X	X	X	X	X	X	X	X	X	MAY-JUL	-	-	MAY-DEC	APR-OCT
	Silverspotted sculpin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Speckled sanddab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Starry flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JUN-AUG	JAN-DEC	JAN-DEC
	Striped surfperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Surf smelt		X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	JUN-OCT	-	JAN-DEC	JAN-DEC
	Threespine stickleback		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	MAR-JUN	MAR-AUG	JUN-MAR	JAN-DEC
	Tidepool sculpin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Topsmelt					X	X	X	X	X	X				APR-JUN	APR-JUN	APR-JUL	MAR-OCT	MAR-OCT
512	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAY	DEC-JUN	DEC-JUL	JAN-DEC	OCT-JUN
525	Chinook salmon	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-MAY	DEC-JUL	JAN-DEC	OCT-FEB
	Coho salmon	T	X	X	X	X	X	X	X	X	X	X	X	X	OCT-FEB	NOV-APR	FEB-JUN	JAN-DEC	SEP-JAN
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAY	DEC-JUN	DEC-JUL	JAN-DEC	OCT-JUN
558	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	OCT-JUN
592	Coastal cutthroat trout		X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-APR	-	JAN-DEC	SEP-FEB
602	Chinook salmon	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-FEB	NOV-MAY	DEC-JUL	JAN-DEC	OCT-FEB
	Coastal cutthroat trout		X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-APR	-	JAN-DEC	SEP-FEB
	Coho salmon	T	X	X	X	X	X	X	X	X	X	X	X	X	OCT-FEB	NOV-APR	FEB-JUN	JAN-DEC	SEP-JAN
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAY	DEC-JUN	DEC-JUL	JAN-DEC	OCT-JUN
604	Coastal cutthroat trout		X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-APR	-	JAN-DEC	SEP-FEB
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAY	DEC-JUN	DEC-JUL	JAN-DEC	OCT-JUN
605	Coastal cutthroat trout		X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-APR	-	JAN-DEC	SEP-FEB
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	OCT-JUN

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.

Northern California: ESIMAP 32 (cont.)

BIOLOGICAL RESOURCES: (cont.)

HABITAT:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
223	Pink sand verbena		X X X X X X X X X X X X

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
144	Pacific razor clam	LOW	X X X X X X X X X X X X	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Pacific sand crab		X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
187	California market squid		X X X X X X X X X X X X	APR-NOV	APR-NOV	APR-JAN	JAN-DEC	JAN-DEC
	Dungeness crab		X X X X X X X X X X X X	MAR-JUN	-	MAR-SEP	JUN-SEP	JAN-DEC
	Ocean pink shrimp		X X X X X X X X X X X X	SEP-OCT	OCT-APR	MAR-JUL	JAN-DEC	JAN-DEC
	Spot prawn		X X X X X X X X X X X X	SEP-APR	SEP-APR	SEP-APR	JAN-DEC	JAN-DEC
206	Pacific razor clam	HIGH	X X X X X X X X X X X X	MAY-JUN	-	-	JAN-DEC	JAN-DEC
210	Mussels		X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Red abalone	LOW	X X X X X X X X X X X X	APR-JUL	APR-JUL	APR-JUL	JAN-DEC	JAN-DEC
213	Red abalone		X X X X X X X X X X X X	APR-JUL	APR-JUL	APR-JUL	JAN-DEC	JAN-DEC
221	Dungeness crab		X X X X X X X X X X X X	-	-	MAR-JUN	JAN-DEC	JAN-DEC
	Yellow shore crab		X X X X X X X X X X X X	-	-	-	JAN-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
13	Gray whale		X X X X X X X X X X X X	-	DEC-FEB	-	-
111	Killer whale	LOW	X X X X X X X X X X X X	-	-	-	-
	Minke whale	LOW	X X X X X X X X X X X X	-	-	-	-
	Pacific white-sided dolphin	LOW	X X X X X X X X X X X X	-	-	-	-
	Risso's dolphin	LOW	X X X X X X X X X X X X	-	-	-	-
	Short-finned pilot whale	LOW	X X X X X X X X X X X X	-	-	-	-
118	Harbor porpoise	HIGH	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
209	Harbor seal	107-120 INDIV.	X X X X X X X X X X X X	-	-	-	-
214	California sea lion	31-1098 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Harbor seal	20-25 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Steller sea lion	T 17-24 INDIV.	X X X X X X X X X X X X	-	-	-	-
215	Harbor seal	38-68 INDIV.	X X X X X X X X X X X X	-	-	-	-
216	Harbor seal	44 INDIV.	X X X X X X X X X X X X	-	-	-	-
217	California sea lion	1-126 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Steller sea lion	T 18-127 INDIV.	X X X X X X X X X X X X	-	-	-	-
218	California sea lion	1-111 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Steller sea lion	T 5-148 INDIV.	X X X X X X X X X X X X	-	-	-	-
219	California sea lion	1-167 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Harbor seal	233-246 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Steller sea lion	T 1-29 INDIV.	X X X X X X X X X X X X	-	-	-	-
221	Harbor seal		X X X X X X X X X X X X	-	-	-	-
222	Harbor seal		X X X X X X X X X X X X	-	-	-	-
	Northern elephant seal		X X X X X X X X X 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
111	Leatherback sea turtle	E VERY LOW	X X X X X X X X X X	-	-	-	-	MAY-NOV
638	Northern red-legged frog		X X X X X X X X X X X X	MAR-JUL	-	-	-	-

TERRESTRIAL MAMMAL:

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

HUMAN USE RESOURCES:

BEACH:

HUN#	Name	Contact	Phone
105	LITTLE RIVER STATE BEACH	CSP	707/488-2041
106	LUFFENHOLTZ BEACH COUNTY PARK	CDFG	
126	TRINIDAD STATE BEACH	CSP	707/677-3570

CRITICAL HABITAT:

HUN#	Name	Contact	Phone
168	WESTERN SNOWY PLOVER CRITICAL HABITAT	USFWS	707/822-7201

ESSENTIAL HABITAT:

HUN#	Name	Contact	Phone
171	ESSENTIAL FISH HABITAT HAPC - ROCKY REEF	PACIFIC STATES MARINE FISHERIES COMMISSION	

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
192	LUFFENHOLTZ CREEK FA	CDFG	

MARINA:

HUN#	Name	Contact	Phone
232	TRINIDAD HARBOR	CDFG	

PARK:

HUN#	Name	Contact	Phone
250	LITTLE RIVER SB	CDPR	707/488-2041
268	TRINIDAD SB	CDPR	707/677-3570

WATER INTAKE:

HUN#	Name	Contact	Phone
296	TRINIDAD MARINE LAB	CDFG	