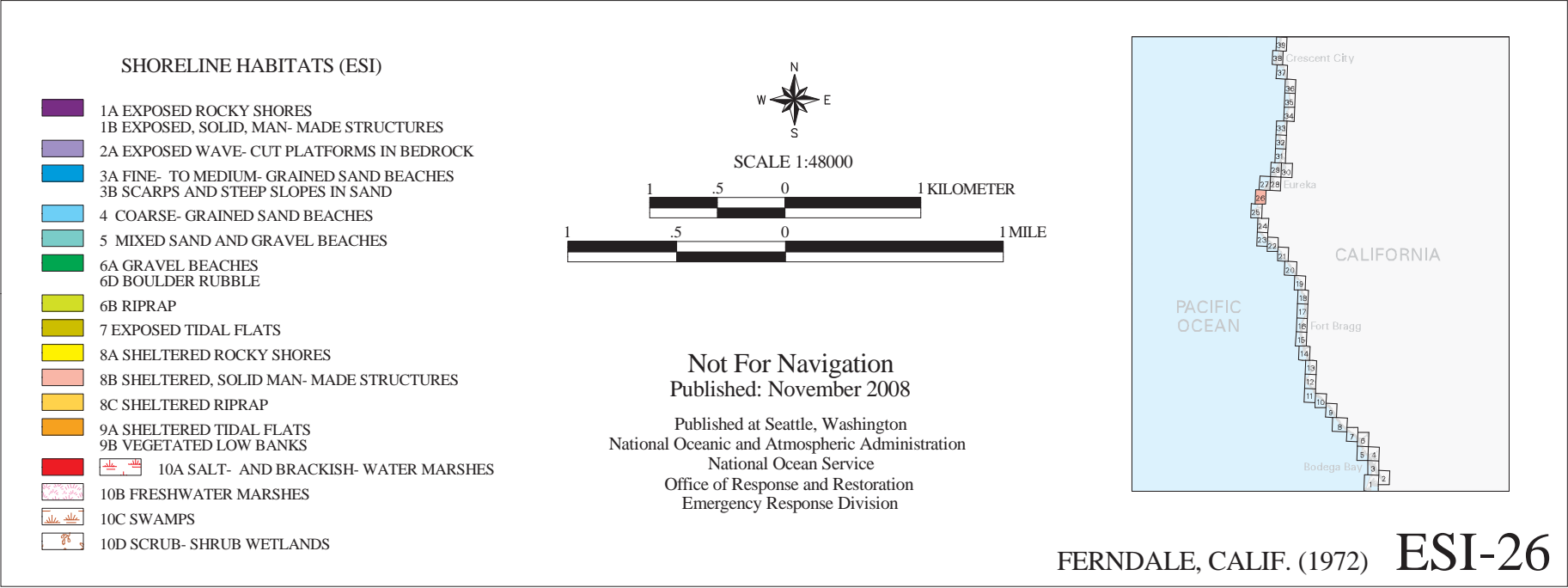
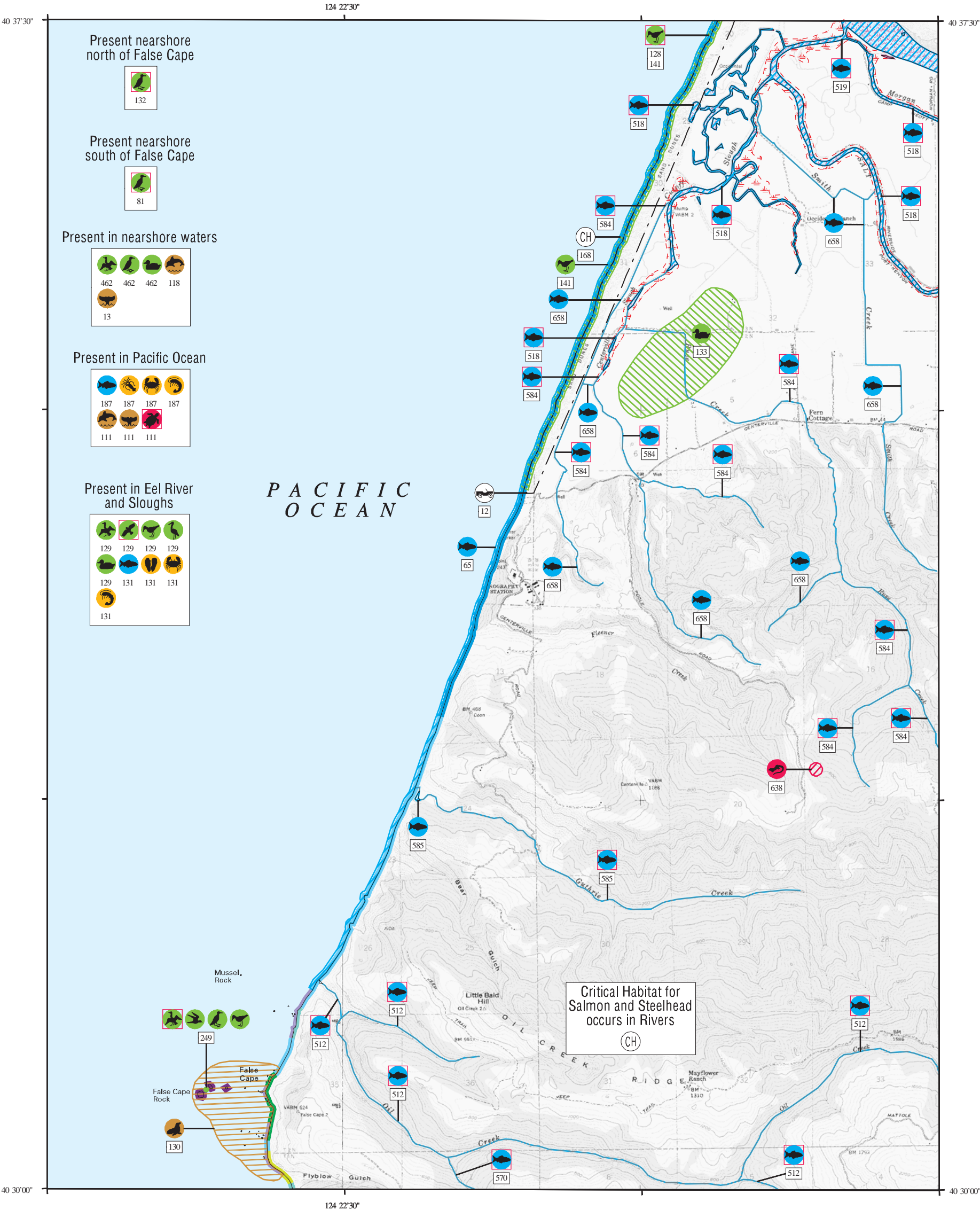


ENVIRONMENTAL SENSITIVITY INDEX MAP



Northern California: ESIMAP 26

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
81	Marbled murrelet	E T LOW	-	-	-	X	X	X	X	X	X	X	X	-	-	-	-
128	Western snowy plover	T 1-42 BIRDS	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-	-
129	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brant		X	X	X	X								-	-	-	-
	Clark's grebe		X	X	X	X					X	X	X	-	-	-	-
	Common loon		X	X	X	X	X			X	X	X	X	-	-	-	-
	Common merganser		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		-	-	-	-
	Merlin		X	X	X	X	X			X	X	X	X	-	-	-	-
	Osprey		X	X	X	X	X	X	X	X	X	X		FEB-AUG	-	-	-
	Pacific loon					X	X	X			X	X		-	-	-	-
	Red-breasted merganser		X	X	X	X	X				X	X		-	-	-	-
	Red-throated loon		X	X	X	X	X				X	X		-	-	-	-
	Shorebirds	HIGH	X	X	X	X			X	X	X	X	X	-	MAR-APR JUL-OCT	-	-
	Wading birds		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe		X	X	X	X	X			X	X	X	X	-	-	-	-
132	Marbled murrelet	E T MODERATE				X	X	X	X	X	X	X	X	-	-	-	-
133	Tundra swan		X	X									X	-	-	-	-
141	American avocet	1000S	X	X	X	X	X			X	X	X	X	-	-	-	-
	Black turnstone	100S	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Black-bellied plover	1000S	X	X	X	X	X			X	X	X	X	-	-	-	-
	Dunlin	10,000S	X	X	X	X	X			X	X	X		-	-	-	-
	Greater yellowlegs	100S	X	X	X	X	X			X	X	X	X	-	-	-	-
	Least sandpiper	10,000S	X	X	X	X				X	X	X	X	-	-	-	-
	Long-billed curlew	1000S	X	X	X	X			X	X	X	X	X	-	-	-	-
	Long-billed dowitcher	100S	X	X	X	X				X	X	X		-	-	-	-
	Marbled godwit	10,000S	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sanderling	1000S	X	X	X	X	X			X	X	X	X	-	-	-	-
	Semipalmated plover	1000S				X	X	X		X	X	X	X	-	-	-	-
	Short-billed dowitcher	1000S				X	X		X	X				-	-	-	-
	Western sandpiper	>100,000	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Whimbrel	100S				X	X	X		X	X	X		-	-	-	-
	Willet	10,000S	X	X	X	X			X	X	X	X	X	-	-	-	-
249	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-	-
	Brandt's cormorant	178 NESTS				X	X	X	X	X	X	X		MAR-AUG	-	-	-
	Brown pelican	E E 21 INDIV.				X	X	X	X	X	X	X	X	-	-	-	-
	Common murre	16734 INDIV.	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
	Pelagic cormorant	240 INDIV.	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-	-
	Pigeon guillemot	55 INDIV.				X	X	X	X	X	X			MAY-AUG	-	-	-
	Tufted puffin	8 INDIV.				X	X	X	X	X	X			MAY-SEP	-	-	-
	Western gull	96 INDIV.	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
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	X	-	-	-	-
	Common murre		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	-	-	-	-
	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	-	-	-	-
	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		-	-	-	-

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		FEB-NOV	-	-	JAN-DEC	FEB-NOV
	Silver surfperch		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		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 NOV-DEC	-	-	APR-FEB	JAN-DEC
131	White seaperch		X	X	X	X	X	X	X	X	X	X	X		MAY-AUG	-	-	JAN-DEC	JAN-DEC
	American shad					X	X	X	X	X	X	X			-	-	-	JUL-NOV	APR-JUL
	Bay goby		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Bay pipefish		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Big skate		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Buffalo sculpin		X	X	X	X	X	X	X	X	X	X	X		JAN-MAY	-	-	JAN-DEC	JAN-DEC
	Cabazon		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	California roach		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Coastrange sculpin		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		-	-	FEB-JUN	JAN-DEC	-
	Eulachon		X	X	X	X	X							X	-	JAN-MAY	FEB-JUN	-	DEC-MAY
	Green sturgeon		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	JAN-DEC
	Jack mackerel		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	Kelp greenling		X	X	X	X	X	X	X	X	X	X	X		-	-	-	JAN-DEC	-
	Longfin smelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	NOV-JAN	NOV-FEB	JAN-DEC	OCT-APR
	Night smelt		X	X	X	X	X	X	X	X					JAN-SEP	-	-	JAN-SEP	JAN-SEP
	Northern anchovy								X	X	X				-	-	-	JUL-SEP	JUL-SEP
	Pacific herring		X	X	X	X	X	X	X	X	X	X	X	X	JAN-FEB	JAN-FEB	JAN-APR	APR-OCT	SEP-APR
	Pacific lamprey		X	X	X	X	X	X	X	X	X	X	X		APR-JUL	APR-JAN	JAN-DEC	JAN-DEC	JAN-DEC
	Pacific sand lance		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-APR	JAN-DEC	JAN-DEC
	Pacific staghorn sculpin		X	X	X	X	X	X	X	X	X	X	X	X	DEC-FEB	DEC-FEB	SEP-MAR	JAN-DEC	JAN-DEC
	Pacific tomcod		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Prickly sculpin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	-	-	JAN-DEC	FEB-NOV
	Ringtail snailfish		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
	Sand sole		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
	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	-	-	OCT-MAR	JAN-DEC	MAY-OCT
	Threespine stickleback		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	JUN-SEP	JUN-DEC	JAN-DEC
	Topsmelt					X	X	X	X	X	X	X			APR-JUN	APR-JUN	APR-JUL	MAR-OCT	MAR-OCT
187	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	SEP-NOV	-	JAN-MAY	JAN-DEC	JAN-DEC	
	Black-and-yellow rockfish		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	NOV-MAR	-	-	JAN-DEC	JAN-DEC	
	Bocaccio		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	DEC-JUL	-	-	JAN-DEC	JAN-DEC	
	Brown smoothhound		X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-	JAN-DEC	JAN-DEC	

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 26 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
187	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	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	X	X	-	-	JUN-SEP	JUN-NOV	JUN-OCT
	Pacific herring		X	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	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
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
518	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	NOV-APR	NOV-MAY	DEC-JUN	JAN-DEC	JAN-DEC
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
519	Chinook salmon	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-SEP	SEP-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 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	NOV-APR	NOV-MAY	DEC-JUN	JAN-DEC	JAN-DEC
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
570	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	OCT-JUN
584	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	NOV-APR	NOV-MAY	DEC-JUN	JAN-DEC	JAN-DEC
585	Coho salmon	T 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
658	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	NOV-MAY	DEC-JUN	JAN-DEC	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
131	Bay mussel		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-OCT	JAN-DEC	JAN-DEC
	Brown rock crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	California bay shrimp		X	X	X	X	X	X	X	X	X	X	X	X	DEC-AUG	DEC-AUG	DEC-SEP	JAN-DEC	JAN-DEC
	Dungeness crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN	JAN-DEC	JAN-DEC
	Lined shore crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Red rock crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Softshell clam		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-SEP	MAY-SEP	JAN-DEC	JAN-DEC
	Yellow shore 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

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	-	-
130	California sea lion	2-341 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Harbor seal	71 INDIV.	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	-	-	-	-	MAY-NOV
638	Northern red-legged frog		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-	-	-

HUMAN USE RESOURCES:

ACCESS:

HUN#	Name	Contact	Phone
12	CENTERVILLE BEACH COUNTY PARK	CDFG	916/445-9338

CRITICAL HABITAT:

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