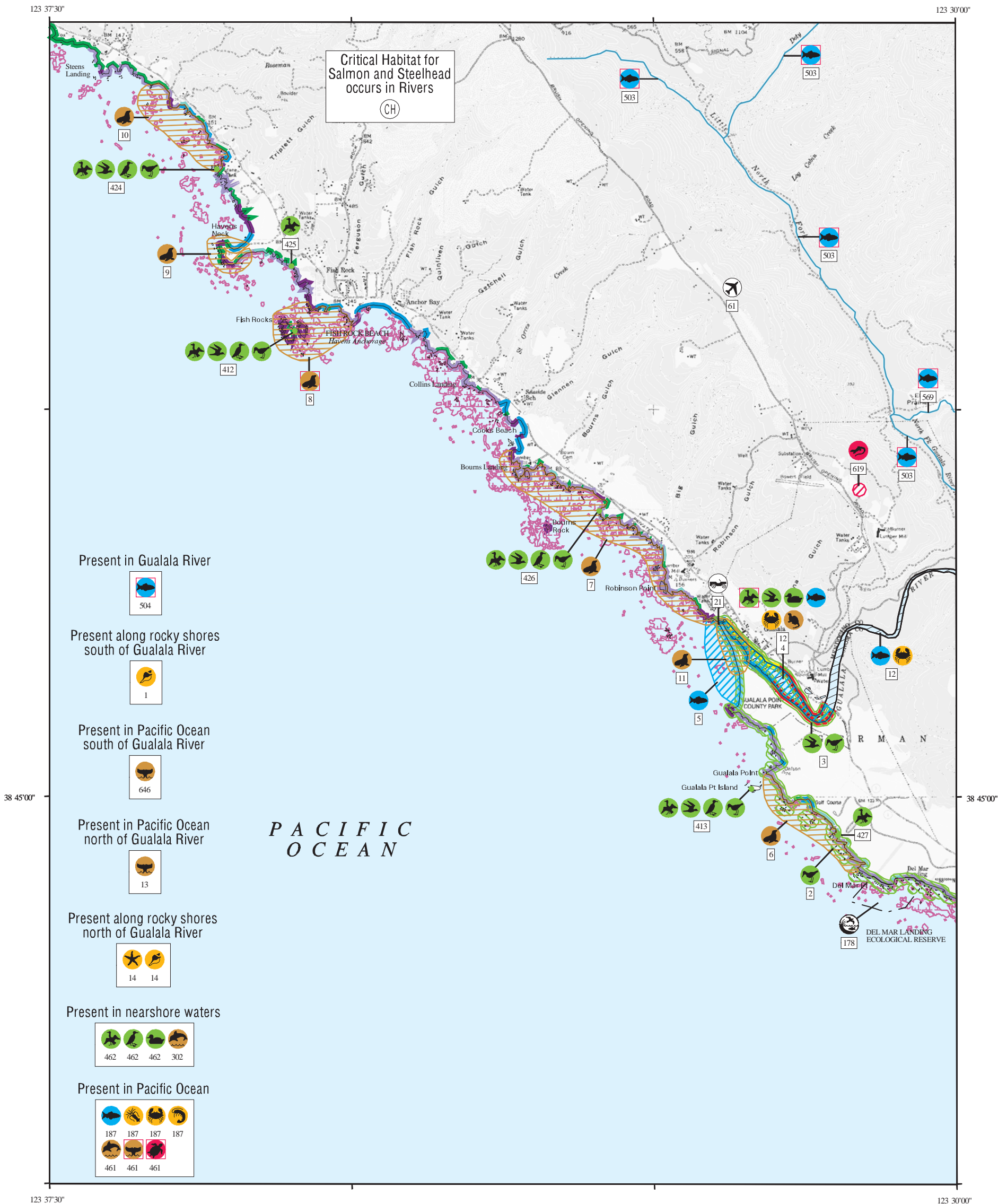




ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- | | |
|---|---|
|  | 1A EXPOSED ROCKY SHORES |
|  | 1B EXPOSED, SOLID, MAN- MADE STRUCTURES |
|  | 2A EXPOSED WAVE- CUT PLATFORMS IN BEDROCK |
|  | 3A FINE- TO MEDIUM- GRAINED SAND BEACHES |
|  | 3B SCARPS AND STEEP SLOPES IN SAND |
|  | 4 COARSE- GRAINED SAND BEACHES |
|  | 5 MIXED SAND AND GRAVEL BEACHES |
|  | 6A GRAVEL BEACHES |
|  | 6B RIPRAP |
|  | 7 EXPOSED TIDAL FLATS |
|  | 8A SHELTERED ROCKY SHORES |
|  | 8B SHELTERED, SOLID MAN- MADE STRUCTURES |
|  | 8C SHELTERED RIPRAP |
|  | 9A SHELTERED TIDAL FLATS |
|  | 9B VEGETATED LOW BANKS |
|  | 10A SALT- AND BRACKISH- WATER MARSHES |
| | 10B FRESHWATER MARSHES |
| | 10C SWAMPS |
| | 10D SCRUB- SHRUB WETLANDS |

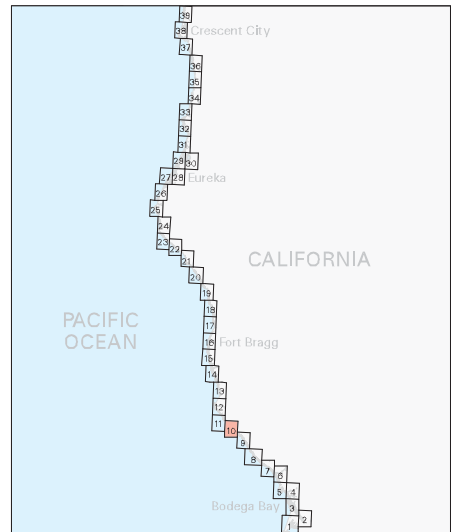


SCALE 1:48000



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Emergency Response Division



GUALALA, CALIF. (1977)
STEWARTS POINT, CALIF. (1978)

Northern California: ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
2	Shorebirds		X	X	X	X			X	X	X	X	X	X	-	MAR-APR JUL-OCT	-
3	Greater yellowlegs		X	X	X	X	X			X	X	X	X	X	-	-	-
	Gulls		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Least sandpiper		X	X	X	X			X	X	X	X	X		-	-	-
	Shorebirds		X	X	X	X			X	X	X	X	X	X	-	MAR-APR JUL-OCT	-
4	Brandt's cormorant						X	X	X	X	X	X	X	X	-	-	-
	Brant		X	X	X	X							X	X	X	-	-
	Brown pelican	E E								X	X	X	X	X	-	-	-
	Common loon		X	X	X	X	X			X	X	X	X	X	-	-	-
	Common merganser		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	-	-	-
	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	-	-	-
	Terns				X	X	X	X	X	X	X	X	X	X	-	-	-
412	Black oystercatcher	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Brandt's cormorant	184 NESTS			X	X	X	X	X	X	X	X	X		MAR-AUG	-	-
	Leach's storm-petrel	100 INDIV.			X	X	X	X	X	X	X	X	X		MAY-OCT	-	-
	Pelagic cormorant	123 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	119 INDIV.			X	X	X	X	X	X	X	X	X		MAY-AUG	-	-
	Rhinoceros auklet	4 INDIV.			X	X	X	X	X	X	X	X	X		APR-AUG	-	-
	Tufted puffin	15 INDIV.			X	X	X	X	X	X	X	X	X		MAY-SEP	-	-
	Western gull	170 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
413	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Brandt's cormorant	132 NESTS			X	X	X	X	X	X	X	X	X		MAR-AUG	-	-
	Pelagic cormorant	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	29 INDIV.			X	X	X	X	X	X	X	X	X		MAY-AUG	-	-
	Western gull	26 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
424	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Pelagic cormorant	119 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	55 INDIV.			X	X	X	X	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	-	-
425	Brandt's cormorant	18 INDIV.			X	X	X	X	X	X	X	X	X		MAR-AUG	-	-
	Pelagic cormorant	54 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
426	Black oystercatcher	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Pelagic cormorant	187 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	90 INDIV.			X	X	X	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	-	-
427	Pelagic cormorant	9 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
462	Black scoter		X	X	X	X							X	X	-	-	-
	Brandt's cormorant				X	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	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			-	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
5	Night smelt		X	X	X	X	X	X	X	X	X	X	X		JAN-SEP	-	-	JAN-SEP	JAN-SEP
	Pile surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-	JAN-DEC	JAN-DEC
	Redtail surfperch			X	X	X	X	X	X	X	X	X			FEB-NOV	-	-	FEB-NOV	FEB-NOV
	Shiner surfperch				X	X	X	X	X	X	X	X			APR-NOV	-	-	APR-NOV	APR-NOV
	Silver surfperch		X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	-	JUN-AUG	JAN-DEC	JAN-DEC
	Surf smelt				X	X	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
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	-	-	JAN-DEC	JAN-DEC
12	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	JAN-AUG	JAN-DEC	JAN-DEC	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
	Northern anchovy							X	X	X					-	-	-	JUL-SEP	JUL-SEP
	Pacific herring		X	X	X	X	X	X	X	X		X	X		NOV-MAR	NOV-MAR	NOV-MAR	MAR-AUG	NOV-MAR
	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
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	-	-	JAN-DEC	FEB-NOV
	Shiner surfperch				X	X	X	X	X	X	X	X	X		MAY-JUL	-	-	MAY-DEC	APR-OCT
	Starry flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JUN-AUG	JAN-DEC	JAN-DEC
	Surf smelt		X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-MAR	JAN-DEC	MAY-OCT
	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	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 pricklyback		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

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 10 (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	Rock greenling		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	JAN-JUL	-	-	JAN-DEC	JAN-DEC
	Sandpaper skate		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	-	-	-	-	MAR-NOV
	Sixgill shark		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	MAR-OCT	-	AUG-DEC	JAN-DEC	JAN-DEC
	Spiny dogfish		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	NOV-FEB	-	-	JAN-DEC	JAN-DEC
	Steelhead		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	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Topsmelt		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	DEC-MAR	-	-	JAN-DEC	JAN-DEC
	Yellowtail rockfish		X X X X X X X X X X X	JAN-JUL	JAN-JUL	JAN-JUL	JAN-DEC	JAN-DEC
503	Steelhead	T	X X X X X X X X X X X	JAN-MAR	JAN-APR	JAN-MAY	JAN-DEC	NOV-MAR
504	Coho salmon	E E	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	-	-	-	JAN-DEC	NOV-MAR
569	Coho salmon	E E	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	JAN-MAR	JAN-APR	JAN-MAY	JAN-DEC	NOV-MAR

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
1	Red abalone		X X X X X X X X X X X	APR-JUL	APR-JUL	APR-JUL	JAN-DEC	JAN-DEC
12	Dungeness crab		X X X X X X X X X X X	-	-	MAR-JUN	JAN-DEC	JAN-DEC
14	Red abalone		X X X X X X X X X X X	APR-JUL	APR-JUL	APR-JUL	JAN-DEC	JAN-DEC
	Sea urchins		X X X X X X X X X X X	-	-	-	-	JAN-DEC
187	California market squid		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	MAR-JUN	-	MAR-SEP	JUN-SEP	JAN-DEC
	Ocean pink shrimp		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	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
6	Harbor seal	29-60 INDIV.	X X X X X X X X X X X	-	-	-	-
7	Harbor seal	27-58 INDIV.	X X X X X X X X X X X	-	-	-	-
8	California sea lion	1-1206 INDIV.	X X X X X X X X X X X	-	-	-	-
	Harbor seal	12-81 INDIV.	X X X X X X X X X X X	-	-	-	-
	Steller sea lion	T 1-7 INDIV.	X X X X X X X X X X X	-	-	-	-
9	Harbor seal	9-22 INDIV.	X X X X X X X X X X X	-	-	-	-
10	Harbor seal	91-95 INDIV.	X X X X X X X X X X X	-	-	-	-
11	Harbor seal		X X X X X X X X X X X	-	-	-	-
13	Gray whale		X X X X X X X X X X X	-	DEC-FEB	-	-
302	Harbor porpoise	MODERATE	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
461	Blue whale	E LOW	X X X X X	-	-	-	-
	Humpback whale	E MODERATE	X X X X X	-	-	-	-
	Killer whale	LOW	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	-	-	-	-
	Pacific white-sided dolphin	LOW	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	-	-	-	-
	Short-finned pilot whale	LOW	X X X X X X X X X X X	-	-	-	-
646	Gray whale		X X X X X X X	-	DEC-FEB	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
461	Leatherback sea turtle	E VERY LOW	X X X X X X X X X	-	-	-	-	MAY-NOV
619	California red-legged frog		X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC

TERRESTRIAL MAMMAL:

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

HUMAN USE RESOURCES:

ACCESS:

HUN#	Name	Contact	Phone
21	GUALALA RIVER	CDFG	

AIRPORT:

HUN#	Name	Contact	Phone
61	OCEAN RIDGE AIRPORT		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
178	DEL MAR LANDING SMP	CDFG	