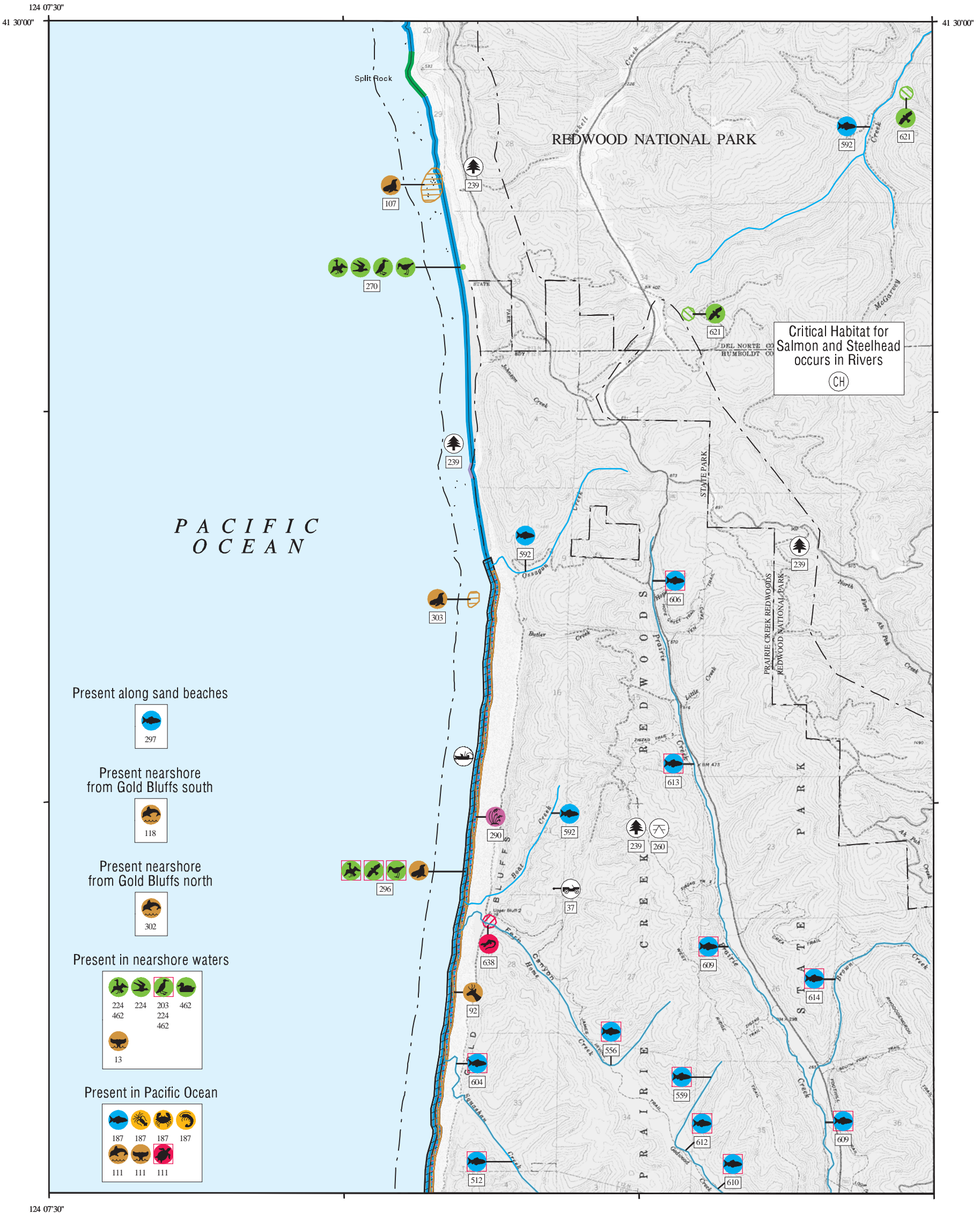
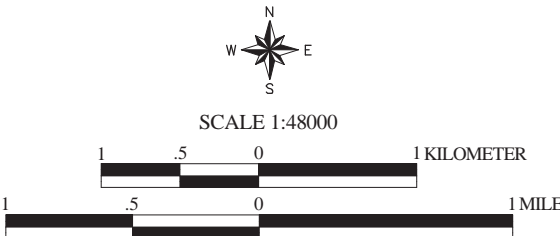


# ENVIRONMENTAL SENSITIVITY INDEX MAP

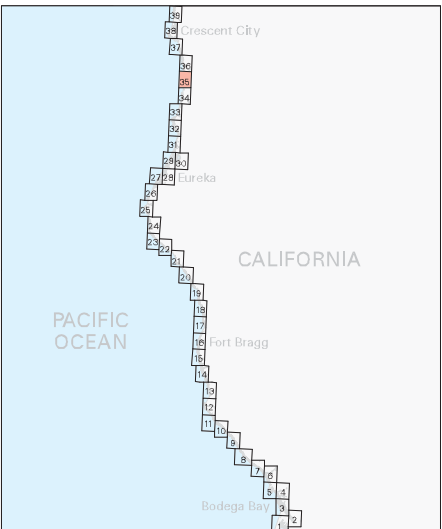


- ## SHORELINE HABITATS (ESI)
- |   |   |
|---|---|
|  | 1A EXPOSED ROCKY SHORES   |
|  | 1B EXPOSED, SOLID, MAN- MADE STRUCTURES   |
|  | 2A EXPOSED WAVE- CUT PLATFORMS IN BEDROCK   |
|  | 3A FINE- TO MEDIUM- GRAINED SAND BEACHES  |
|  | 3B SCARPS AND STEEP SLOPES IN SAND  |
|  | 4 COARSE- GRAINED SAND BEACHES  |
|  | 5 MIXED SAND AND GRAVEL BEACHES   |
|  | 6A GRAVEL BEACHES   |
|  | 6D BOULDER RUBBLE   |
|  | 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             |



Not For Navigation  
Published: November 2008

Published at Seattle, Washington  
National Oceanic and Atmospheric Administration  
National Ocean Service  
Office of Response and Restoration  
Emergency Response Division



Northern California: ESIMAP 35

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
203	Marbled murrelet	E T HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-
270	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	-	-
	Brandt's cormorant	23 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	13 INDIV.	X	X	X	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	-	-
296	American peregrine falcon	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	X	X	X	X	-	-	-
	Shorebirds		X	X	X	X		X	X	X	X	X	X	X	-	MAR-APR JUL-OCT	-
	Western snowy plover	T 1-5 BIRDS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
462	Black scoter		X	X	X	X								X X	-	-	-
	Brandt's cormorant		X	X	X	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							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	-	-	-
621	Osprey		X	X	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
187	Bat ray		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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
	Cabezon		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	X	X	X	X	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	X	X	X	X	X	-	-	JUN-SEP	JUN-NOV	JUN-OCT
	Pacific herring		X	X	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	X	X	X	X	X	X	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	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
297	Night smelt		X	X	X	X	X	X	X	X	X	X	X	X	JAN-SEP	-	-	JAN-SEP	JAN-SEP
	Redtail surfperch		X	X	X					X	X	X	X	X	FEB-APR AUG-NOV	-	-	FEB-APR AUG-NOV	FEB-APR AUG-NOV
	Surf smelt		X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	-	-	MAY-OCT	MAY-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
556	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	NOV-JUL
559	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	JAN-APR	FEB-JUN	JAN-DEC	NOV-JUL
592	Coastal cutthroat trout		X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-APR	-	JAN-DEC	SEP-FEB
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
606	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	JAN-APR	FEB-JUN	JAN-DEC	NOV-JUL
609	Chinook salmon	T	X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-FEB	NOV-APR	JAN-SEP	AUG-JAN
	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	DEC-MAR	JAN-APR	FEB-JUN	JAN-DEC	NOV-JUL
614	Chinook salmon	T	X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-FEB	NOV-APR	JAN-SEP	AUG-JAN
	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-MAR	JAN-APR	FEB-JUN	JAN-DEC	NOV-JUL

HABITAT:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
290	Beach pea		X	X	X	X	X	X	X	X	X	X	X	X
	Oregon Coast Indian paintbrush		X	X	X	X	X	X	X	X	X	X	X	X
	Pink sand verbena		X	X	X	X	X	X	X	X	X	X	X	X

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 35 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
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	-	-
107	Harbor seal	1 INDIV.	X X X X X X X X X X X X	-	-	-	-
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	-	-
296	Northern elephant seal		X X X X X X X X X X X X	-	-	-	-
302	Harbor porpoise	MODERATE	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
303	California sea lion		X X X X X X X X X X X X	-	-	-	-
	Harbor 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	Interesting	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
92	Roosevelt elk		X X X X X X X X X X X X

HUMAN USE RESOURCES:

ACCESS:

HUN#	Name	Contact	Phone
37	PRAIRIE CREEK STATE PARK	CSP	707/465-7347

NATIONAL PARK:

HUN#	Name	Contact	Phone
239	REDWOOD NATIONAL PARK	NPS	707/465-7777

PARK:

HUN#	Name	Contact	Phone
260	PRAIRIE CREEK REDWOODS SP	CDPR	707/445-6547

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.