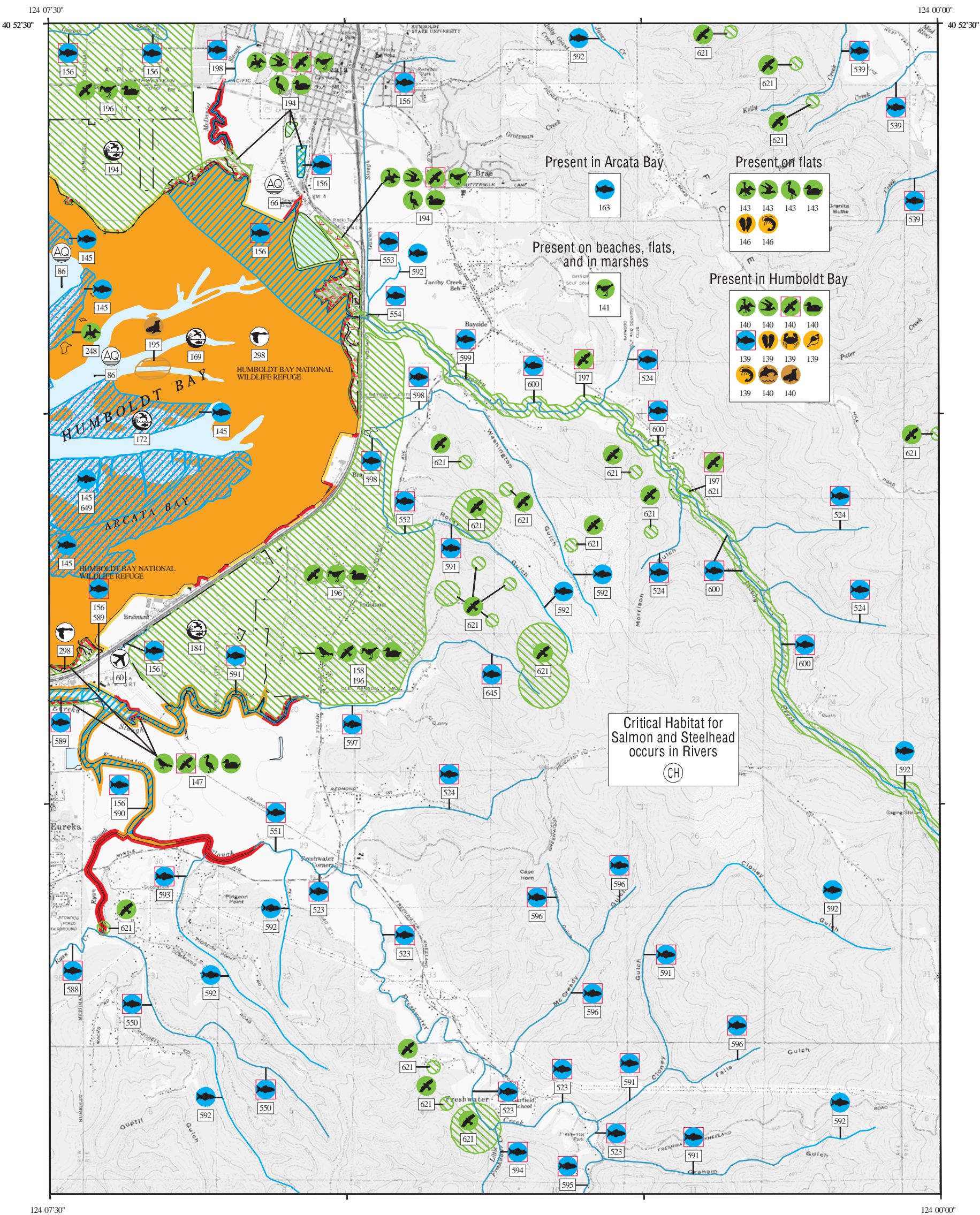


ENVIRONMENTAL SENSITIVITY INDEX MAP



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

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ARCATA SOUTH, CALIF. (1972) **ESI-30**

Northern California: ESIMAP 30

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
140	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	American wigeon		X	X	X	X					X	X	X		-	-	-
	Brant	1500-20000	X	X	X	X						X	X		-	-	-
	Bufflehead		X	X	X	X						X	X		-	-	-
	Cinnamon teal		X	X	X					X	X	X	X		-	-	-
	Double-crested cormorant		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Greater scaup		X	X	X	X					X	X	X		-	-	-
	Green-winged teal		X	X	X	X				X	X	X	X		-	-	-
	Mallard		X	X	X						X	X	X		-	-	-
	Northern pintail		X	X	X	X	X		X	X	X	X	X	X	-	-	-
	Northern shoveler		X	X	X	X				X	X	X	X	X	-	-	-
	Osprey		X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	-	-
	Red-breasted merganser		X	X	X	X	X					X	X		-	-	-
	Ruddy duck		X	X	X	X					X	X	X		-	-	-
141	American avocet	1000S	X	X	X	X	X			X	X	X	X	X	-	-	-
	Black turnstone	100S	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-bellied plover	1000S	X	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	X	-	-	-
	Least sandpiper	10,000S	X	X	X	X				X	X	X	X	X	-	-	-
	Long-billed curlew	1000S	X	X	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	X	-	-	-
	Sanderling	1000S	X	X	X	X	X			X	X	X	X	X	-	-	-
	Semipalmated plover	1000S		X	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	X	-	-	-
	Whimbrel	100S		X	X	X		X	X	X					-	-	-
	Willet	10,000S	X	X	X	X		X	X	X	X	X	X	X	-	-	-
143	Black-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Canada goose		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Cattle egret		X	X	X						X	X	X		-	-	-
	Cormorants		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Great egret		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	-	-	-
	Snowy egret		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	-	-	-
147	American kestrel		X	X	X						X	X	X		-	-	-
	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	-	-	-
	Belted kingfisher		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Dabbling ducks		X	X	X	X					X	X	X		-	-	-
	Diving ducks		X	X	X	X					X	X	X		-	-	-
	Northern harrier		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Red-shouldered hawk		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Red-tailed hawk		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wading birds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
158	Band-tailed pigeon		X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
194	American avocet		X	X	X	X	X			X	X	X	X		-	-	-
	American bittern		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	American kestrel		X	X	X						X	X	X		-	-	-
	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	American wigeon		X	X	X	X				X	X	X	X		-	-	-
	Black-bellied plover		X	X	X	X				X	X	X	X		-	-	-
	Black-crowned night-heron		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Bonaparte's gull			X	X						X	X			-	-	-
	Bufflehead		X	X	X	X					X	X			-	-	-
	Caspian tern			X	X	X	X	X	X	X	X	X			-	-	-
	Double-crested cormorant		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Dunlin		X	X	X	X	X			X	X	X			-	-	-
	Forster's tern		X	X	X				X	X	X	X	X		-	-	-
	Great blue heron		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Great egret		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Greater scaup		X	X	X	X				X	X	X			-	-	-
	Green-winged teal		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
	Least sandpiper		X	X	X	X			X	X	X	X	X		-	-	-
	Marbled godwit		X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Merlin		X	X	X	X			X	X	X	X			-	-	-
	Mew gull		X	X	X	X				X	X	X			-	-	-
	Northern harrier		X	X	X	X			X	X	X	X			-	-	-
	Northern pintail		X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Osprey			X	X	X	X	X	X						-	-	-
	Pied-billed grebe		X	X	X	X			X	X	X	X			-	-	-
	Ruddy duck		X	X	X	X	X			X	X	X			-	-	-
	Western gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Western sandpiper		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
196	Aleutian cackling goose		X	X	X	X									-	-	-
	American kestrel		X	X	X					X	X	X			-	-	-
	Dabbling ducks		X	X	X	X				X	X	X			-	-	-
	Raptors		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shorebirds	HIGH	X	X	X	X		X	X	X	X	X	X		-	MAR-APR JUL-OCT	-
197	Bald eagle	E	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-
248	Double-crested cormorant	286 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	-
621	Osprey		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
139	Arrow goby		X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-OCT	AUG-DEC	JAN-DEC	JAN-DEC
	Bay goby		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Black rockfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	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		-	-	-	SEP-JUN	SEP-JUN
	Brown rockfish		X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-	JAN-DEC	JAN-DEC
	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	-	-	JAN-DEC	JAN-DEC
	Chinook salmon	T		X	X	X	X	X	X	X	X	X	X		-	-	-	MAR-NOV	JUL-DEC
	Coastal cutthroat trout			X	X	X			X	X	X				-	-	-	MAR-MAY	AUG-OCT
	Coho salmon	T T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-MAY	JAN-DEC
	Copper rockfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	English sole		X	X	X	X	X	X	X	X	X	X	X	X	-	-	FEB-JUN	JAN-DEC	-
	Grass rockfish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Jacksmelt			X	X	X	X	X	X	X					APR-JUN	APR-JUN	APR-AUG	APR-OCT	APR-OCT
	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	DEC-JAN	DEC-JAN	JAN-FEB	JAN-DEC	JAN-DEC
	Longfin smelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JAN	NOV-JAN	OCT-FEB	JAN-DEC	OCT-MAR
	Night smelt		X	X	X	X	X	X	X	X					JAN-SEP	-	-	JAN-SEP	JAN-SEP

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 30 (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
-----	-----	-----	-	-	-	-	-	-	-	-	-	-	-	-	-----	-----	-----	-----	-----
139	Northern anchovy								X	X	X				-	-	-	JUL-SEP	JUL-SEP
	Pacific sand lance		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-APR	JAN-DEC	JAN-DEC
	Pacific sardine		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	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
	Pile surfperch		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	-	-	-	JAN-DEC	JAN-DEC
	Rubberlip surfperch		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
	Sevengill shark			X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	MAR-NOV
	Shiner surfperch	VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-DEC	JAN-DEC
	Silver surfperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	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
	Starry flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JUN-AUG	JAN-DEC	JAN-DEC
	Steelhead	T	X	X	X	X								X	-	-	-	MAR-MAY	DEC-MAR
	Striped surfperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Surf smelt		X	X	X	X	X	X	X	X	X	X	X	X	-	-	OCT-MAR	JAN-DEC	JAN-DEC
	Threespine stickleback		X	X	X	X	X	X	X	X	X	X	X	X	-	-	JUN-SEP	JUL-DEC	JAN-DEC
	Topsmelt		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	APR-FEB	JAN-DEC
	White croaker					X	X	X	X	X	X				-	-	-	APR-SEP	APR-SEP
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
145	Bay pipefish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
156	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
163	Green sturgeon		X	X	X			X	X	X	X	X	X	X	-	-	-	JUL-DEC	JUL-MAR
	Pacific halibut		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
198	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
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
523	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	-	-	-	JAN-DEC	DEC-MAY
524	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
539	Steelhead	T	X	X	X	X	X							X X X	-	-	-	-	OCT-JUN
550	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	DEC-MAY
551	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	-	-	-	JAN-DEC	DEC-MAY
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
552	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-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
553	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
	Coho salmon	T T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
554	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
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
588	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-MAY	DEC-JUN	DEC-JUL	JAN-DEC	OCT-JUN
589	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
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	DEC-MAY
590	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	-	-	-	JAN-DEC	DEC-MAY
591	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-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
592	Coastal cutthroat trout		X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-APR	-	JAN-DEC	SEP-FEB
593	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	-	-	-	JAN-DEC	DEC-MAY
594	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
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
595	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-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
596	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
597	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-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
598	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-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
599	Chinook salmon	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	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-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
600	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-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
645	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-APR	JAN-MAY	FEB-JUL	JAN-DEC	DEC-MAY
649	Pacific herring	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-MAR	JAN-MAY	APR-OCT	NOV-APR

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
			-	-	-	-	-	-	-	-	-	-	-	-					
139	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	-	-	APR-JUL	JAN-DEC	JAN-DEC
	Dungeness crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN	JAN-DEC	JAN-DEC
	Geoduck		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-AUG	MAR-AUG	JAN-DEC	JAN-DEC
	Green crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Horseneck gaper		X	X	X	X	X	X	X	X	X	X	X	X	FEB-APR	-	-	JAN-DEC	JAN-DEC
	Lewis's moonsnail		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Pacific gaper		X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Red rock crab		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
146	California butterclam		X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	-	-	JAN-DEC
	Cockles		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Ghost shrimp		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Manila clam		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	-	JUN-AUG	JAN-DEC	JAN-DEC
	Pacific littleneck	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC	JAN-DEC
	Softshell clam		X	X	X	X	X	X	X	X	X	X	X	X	APR-OCT	APR-OCT	APR-OCT	JAN-DEC	JAN-DEC

Northern California: ESIMAP 30 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
146	Washington butterclam		X X X X X X X X X X X	MAR-NOV	-	-	-	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
140	California sea lion		X X X X X X X X X X X	-	-	-	-
	Harbor porpoise		X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
195	Harbor seal	113-126 INDIV.	X X X X X X X X X X X	-	-	-	-

HUMAN USE RESOURCES:

AIRPORT:

HUN#	Name	Contact	Phone
60	MURRAY FIELD AIRPORT		

AQUACULTURE:

HUN#	Name	Contact	Phone
66	ARCATA MARSH	CDFG	
86	NORTH HUMBOLDT BAY MARICULTURE SITES	NORTH BAY SHELLFISH	707/839-4723

ESSENTIAL HABITAT:

HUN#	Name	Contact	Phone
169	ESSENTIAL FISH HABITAT HAPC - ESTUARIES	PACIFIC STATES MARINE FISHERIES COMMISSION	
172	ESSENTIAL FISH HABITAT HAPC - SEAGRASS	PACIFIC STATES MARINE FISHERIES COMMISSION	

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
184	FAY SLOUGH WA	CDFG	707/445-6493
194	MAD RIVER SLOUGH WA	CDFG	707/445-6493

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
298	HUMBOLDT BAY NWR	USFWS	707/733-5406