

ESIMAP 1

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

197	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Canvasback			HIGH	X	X	X							X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-
	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Osprey			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Peregrine falcon	F	E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-
199	Willet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	FEB-JUL	MAR-AUG	JUN-NOV
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Peregrine falcon	F	E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
200	Sooty shearwater						X	X	X	X	X	X	X	X			-	-	-	-
	Black brant				X	X	X	X	X						X	X	-	-	-	-
	Black scoter (common)				X	X	X	X						X	X	X	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN
	Canvasback			HIGH	X	X	X							X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Eared grebe																-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-
	Horned grebe				X	X	X	X	X	X			X	X	X	X	-	-	-	-
	Marbled godwit				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP
	Red-breasted merganser				X	X	X	X				X	X	X	X	X	-	-	-	-
	Red-necked grebe				X	X	X								X	X	-	-	-	-
	Sanderling																-	-	-	-
	Short-billed dowitcher																-	-	-	-
	Surf scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	White-winged scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
201	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	FEB-JUL	MAR-AUG	JUN-NOV
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Peregrine falcon	F	E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sooty shearwater						X	X	X	X	X	X	X	X			-	-	-	-
202	Black scoter (common)				X	X	X	X						X	X	X	-	-	-	-
	Common loon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Eared grebe																-	-	-	-
	Horned grebe				X	X	X	X	X			X	X	X	X	-	-	-	-	-
	Marbled godwit				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP
	Red-necked grebe				X	X	X							X	X	-	-	-	-	
	Sanderling																-	-	-	-
	Snowy plover			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
	Surf scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	White-winged scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	203	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN
Black scoter (common)					X	X	X	X						X	X	X	-	-	-	-
204	Common loon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Eared grebe																-	-	-	-
	Horned grebe				X	X	X	X	X			X	X	X	X	-	-	-	-	-
	Marbled godwit				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP
	Red-necked grebe				X	X	X							X	X	-	-	-	-	-
	Sanderling																-	-	-	-
	Short-billed dowitcher																-	-	-	-
	Snowy plover			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
	Surf scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	White-winged scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
206	Black scoter (common)				X	X	X	X						X	X	X	-	-	-	-
	Common loon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Eared grebe																-	-	-	-
	Horned grebe				X	X	X	X	X			X	X	X	X	-	-	-	-	-
	Marbled godwit				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP
	Red-necked grebe				X	X	X							X	X	-	-	-	-	-
	Sanderling																-	-	-	-
	Surf scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	White-winged scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	207	Black brant				X	X	X	X	X					X	X	-	-	-	-
Black rail					X	X	X	X	X	X	X	X	X							

ESIMAP 1 (CONTINUED)

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
	Red-breasted merganser				X	X	X	X				X	X	X	X	X	-	-	-	-
	Red-necked grebe				X	X	X								X	X	-	-	-	-
	Sanderling																-	-	-	-
	Short-billed dowitcher																-	-	-	-
	Sora rail				X	X	X	X					X	X	X	X	-	-	-	-
	Surf scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Virginia rail				X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	-
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	White-winged scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
209	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	FEB-JUL	MAR-AUG	JUN-NOV
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Peregrine falcon	F	E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sooty shearwater						X	X	X	X	X	X	X	X	X	X	-	-	-	-
210	Common murre				X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
211	Black scoter (common)				X	X	X	X					X	X	X	-	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Eared grebe				X	X	X	X					X	X	X	X	-	-	-	-
	Harlequin duck				X	X	X	X					X	X	X	X	-	-	-	-
	Horned grebe				X	X	X	X	X	X			X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Red-necked grebe				X	X	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	-	-	-	-
	White-winged scoter				X	X	X	X	X				X	X	X	X	-	-	-	-
212	Black scoter (common)				X	X	X	X					X	X	X	-	-	-	-	-
	Common loon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Eared grebe																-	-	-	-
	Harlequin duck				X	X	X	X					X	X	X	X	-	-	-	-
	Horned grebe				X	X	X	X	X	X			X	X	X	X	-	-	-	-
	Marbled godwit				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Red-necked grebe				X	X	X							X	X	-	-	-	-	-
	Sanderling																-	-	-	-
	Surf scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	White-winged scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
213	Canvasback				X	X	X						X	X	X	-	-	-	-	-
	Northern phalarope				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern shoveler																-	-	-	-
	Red phalarope				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
558	Black oystercatcher			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			1522	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			15155	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pelagic cormorant			266	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			616	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			6	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Tufted puffin			4	X		X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			178	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
730	Black scoter (common)				X	X	X	X					X	X	X	-	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	FEB-JUL	MAR-AUG	JUN-NOV
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Eared grebe				X	X	X	X					X	X	X	X	-	-	-	-
	Harlequin duck				X	X	X	X					X	X	X	X	-	-	-	-
	Horned grebe				X	X	X	X	X	X			X	X	X	X	-	-	-	-
	Peregrine falcon	F	E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP
	Red-breasted merganser				X	X	X	X					X	X	X	X	-	-	-	-
	Red-necked grebe				X	X	X	X	X				X	X	X	X	-	-	-	-
	Sooty shearwater						X	X	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	-	-	-	-	-
	White-winged scoter				X	X	X	X	X				X	X	X	X	-	-	-	-
FISH:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration		
197	Pacific herring			HIGH	X	X	X							X	X	X	OCT-MAR	-		
199	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
200	Pacific herring				X	X	X							X	X	X	OCT-MAR	-		
201	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
207	Pacific herring				X	X	X							X	X	X	OCT-MAR	-		
209	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
730	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
M_MAMMAL:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	
20	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN	
198	Dall's porpoise				X	X				X	X	X				X	-	-	-	
	Gray whale			HIGH	X	X	X	X	X						X	X	-	-	-	
	Harbor porpoise				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
199	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG	
	Northern (Steller) sea lion	F	T	MED						X	X	X	X				-	-	MAY-AUG	
	Northern elephant seal			LOW	X	X	X					X	X			X	-	-	DEC-MAR	
201	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG	
	Harbor seal			LOW	X	X	X	X	X	X	X	X								

ESIMAP 1 (CONTINUED)

BIOLOGICAL RESOURCES:

M_MAMMAL:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
	Northern elephant seal			MED	X	X	X				X	X				X	-		DEC-MAR	
203	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-		MAR-JUN	
205	Minke whale			MED						X	X	X	X	X	X		-		-	
208	Northern elephant seal									X	X	X					-		-	
209	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-		MAY-AUG	
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-		MAR-JUN	
	Northern (Steller) sea lion	F	T	HIGH					X	X	X	X					-		MAY-AUG	
	Northern elephant seal			HIGH	X	X	X			X	X					X	-		DEC-MAR	
730	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-		MAY-AUG	
	Northern (Steller) sea lion	F	T	MED					X	X	X	X					-		MAY-AUG	
	Northern elephant seal			LOW	X	X	X				X	X				X	-		DEC-MAR	

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D

60	Salt marsh bird's-beak	F	E		-	-	-	-	-	-	-	-	-	-	-	-
197	Eelgrass			HIGH												
199	Bull kelp															
200	Eelgrass			HIGH												
201	Bull kelp															
202	Beach layia	F	E													
	Clover lupine	F	E													
207	Eelgrass			HIGH												
209	Bull kelp															
730	Bull kelp															

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
197	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
198	Dungeness crab			HIGH	X	X	X	X	X	X						X	-	-
199	Abalone																-	-
	Red sea urchin				X	X	X	X	X	X	X	X	X	X	X	X	-	-
200	Bay ghost shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	JUN-JUL
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
201	Abalone																-	-
	Red sea urchin				X	X	X	X	X	X	X	X	X	X	X	X	-	-
207	Bay ghost shrimp				X	X	X	X	X	X	X	X	X	X	X	X	-	JUN-JUL
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
209	Abalone																-	-
	Red sea urchin				X	X	X	X	X	X	X	X	X	X	X	X	-	-
730	Abalone																-	-
	Red sea urchin				X	X	X	X	X	X	X	X	X	X	X	X	-	-

HUMAN USE RESOURCES:

AQUACULTURE:				
RAR#	Name	Owner	Contact	Phone
H202	M-438-01 PARCEL 2-JOHNSON OYSTER CO.	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H203	M-438-01 PARCEL 1-JOHNSON OYSTER CO.	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521

HISTORICAL_SITE:				
RAR#	Name	Owner	Contact	Phone

H215	LIFE SAVING STATION			

ESIMAP 2

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
197	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Canvasback			HIGH	X	X	X						X	X	X	-	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-
	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Osprey			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Peregrine falcon	F	E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-
	Willet				X	X	X	X					X	X	X	X	-	-	-	-
214	Canvasback				X	X	X							X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Greater scaup				X	X	X	X						X	X	-	-	-	-	-
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-
216	American avocet				X	X	X	X					X	X	X	X	X	-	-	-
	California black rail	S	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Marbled godwit				X	X	X	X					X	X	X	X	X	-	-	-
	Peregrine falcon	F	E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X					X	X	X	X	X	-	-	-
217	Osprey			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
197	Pacific herring			HIGH	X	X	X							X	X	X	OCT-MAR	-
215	Coho salmon (silver)			HIGH	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Rainbow trout (steelhead)			HIGH	X	X	X	X	X						X	X	NOV-JAN	FEB-APR

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
60	Salt marsh bird's-beak	F	E													
197	Eelgrass			HIGH												
217	Salt marsh bird's-beak	F	E	HIGH												
218	Salt marsh bird's-beak	F	E	HIGH												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
197	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

T_MAMMAL:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
-----	-----	---	---	-----	-	-	-	-	-	-	-	-	-	-	-	-
215	River otter			HIGH	X	X	X	X	X	X	X	X	X	X	X	X
216	River otter			HIGH	X	X	X	X	X	X	X	X	X	X	X	X

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HUMAN USE RESOURCES:

AQUACULTURE:					
RAR#	Name	Owner	Contact	Phone	
H192	M-430-06	AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H193	M-430-09	AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H194	M-430-18	AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H195	M-430-13	AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H196	M-430-12	AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H222	M-430-05		CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H223	M-430-12		CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
MARINA:					
RAR#	Name	Owner	Contact	Phone	
H197	MARCONI COVE	MARINA	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521

ESIMAP 3

BIOLOGICAL RESOURCES:

BIRD:																					
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging	

180	American avocet				X	X	X	X					X	X	X	X	-	-	-	-	
	Canvasback			HIGH	X	X	X						X	X	X	-	-	-	-	-	
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-	
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG	
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-	
	Marbled godwit				X	X	X	X					X	X	X	X	-	-	-	-	
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG	
	Red-breasted merganser			HIGH	X	X	X	X					X	X	X	X	-	-	-	-	
	Western grebe				X	X	X	X						X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Willet				X	X	X	X					X	X	X	X	-	-	-	-	
182	American avocet				X	X	X	X					X	X	X	X	-	-	-	-	
	Brown pelican	F	E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN	
	Canvasback			HIGH	X	X	X							X	X	X	-	-	-	-	
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-	
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG	
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-	
	Marbled godwit				X	X	X	X					X	X	X	X	-	-	-	-	
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG	
	Red-breasted merganser			HIGH	X	X	X	X					X	X	X	X	-	-	-	-	
	Western grebe				X	X	X	X						X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
Willet				X	X	X	X					X	X	X	X	-	-	-	-		
184	Brown pelican	F	E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN	
	Canvasback			HIGH	X	X	X							X	X	X	-	-	-	-	
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-	
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG	
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-	
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG	
	Red-breasted merganser			HIGH	X	X	X	X					X	X	X	X	-	-	-	-	
	Western grebe				X	X	X	X						X	X	X	X	-	-	-	-
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Willet				X	X	X	X					X	X	X	X	-	-	-	-	
	185	American avocet				X	X	X	X					X	X	X	X	-	-	-	-
Canvasback				HIGH	X	X	X							X	X	X	-	-	-	-	
Common loon					X	X	X	X	X				X	X	X	X	-	-	-	-	
Double-crested cormorant					X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG	
Great blue heron					X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG	
Great egret					X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG	
Greater scaup				HIGH	X	X	X	X						X	X	-	-	-	-	-	
Marbled godwit					X	X	X	X					X	X	X	X	-	-	-	-	
Marbled murrelet		S/F	E/T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
Osprey					X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG	
Red-breasted merganser				HIGH	X	X	X	X					X	X	X	X	X	-	-	-	-
Western grebe				X	X	X	X					X	X	X	X	-	-	-	-		
Western gull				X	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
Willet				X	X	X	X					X	X	X	X	-	-	-	-		
186	Black brant			HIGH	X	X	X	X	X					X	X	-	-	-	-	-	
	Canvasback			HIGH	X	X	X							X	X	X	-	-	-	-	
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-	
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG	
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-	
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG	
	Red-breasted merganser			HIGH	X	X	X	X					X	X	X	X	-	-	-	-	
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-	
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
	White pelican			HIGH	X	X								X	X	X	-	-	-	-	
	187	California black rail	S	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	-	-
189	Ashy storm-petrel			HIGH		X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	APR-JUL	JUN-AUG	AUG-NOV	
	Brandt's cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	MAY-MAY	JUN-JUN	JUN-JUL	
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG	
	Western gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
190	Canvasback			HIGH	X	X	X							X	X	X	-	-	-	-	
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-	
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG	
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-	
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG	
	Red-breasted merganser			HIGH	X	X	X	X					X	X	X	X	-	-	-	-	
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-	
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
192	Canvasback			HIGH	X	X	X							X	X	X	-	-	-	-	
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-	
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG	
	Greater scaup			HIGH	X	X	X	X						X	X	-	-	-	-	-	
	Osprey			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG	
	Peregrine falcon	F	E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Red-breasted merganser			HIGH	X	X	X	X					X	X	X	X	-	-	-	-	
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-	
Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP		

ESIMAP 3 (CONTINUED)

BIOLOGICAL RESOURCES:

BIRD:																					
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging	
					-	-	-	-	-	-	-	-	-	-	-	-					
202	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG	
	Red-breasted merganser			HIGH	X	X	X	X				X	X	X	X	-	-	-	-		
	Western grebe				X	X	X	X				X	X	X	X	-	-	-	-		
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
	Black scoter (common)				X	X	X	X					X	X	X	-	-	-	-		
	Common loon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Eared grebe																-	-	-	-	
	Horned grebe				X	X	X	X	X	X			X	X	X	X	-	-	-	-	
	Marbled godwit				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Pied-billed grebe				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP	
	Red-necked grebe				X	X	X								X	X	-	-	-	-	
	Sanderling																-	-	-	-	
	Snowy plover			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
	Surf scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Western grebe				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
523	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
	White-winged scoter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Willet				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	
	Ashy storm-petrel			74		X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	APR-JUL	JUN-AUG	AUG-NOV	
	Black oystercatcher			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP	
	Brandt's cormorant			55	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG	
	Pelagic cormorant			37	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
	Pigeon guillemot			14	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG	
	Rhinoceros auklet			3	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP	
	Western gull			168	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
524	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP	
	Pelagic cormorant			141	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
	Pigeon guillemot			110	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG	
	Western gull			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
548	Pelagic cormorant			16	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	
	Pigeon guillemot			28	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG	
	Western gull			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP	

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
179	Pacific herring			HIGH	X	X	X							X	X	X	OCT-MAR	-
183	Pacific herring			HIGH	X	X	X							X	X	X	OCT-MAR	-
187	Coho salmon (silver)			MED	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Rainbow trout (steelhead)			MED	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
188	California halibut			HIGH		X	X	X	X	X	X						FEB-JUL	-
190	Pacific herring			HIGH	X	X	X							X	X	X	OCT-MAR	-
191	Coho salmon (silver)			HIGH	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
192	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Pacific herring			HIGH	X	X	X							X	X	X	OCT-MAR	-

M_MAMMAL:																					
RAR#	Species			S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
20	Harbor seal					HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
181	Harbor seal					HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
182	Harbor seal					HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
184	Harbor seal					LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
189	Harbor seal					MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
60	Salt marsh bird's-beak	F	E													
179	Eelgrass			HIGH												
180	Salt marsh bird's-beak	F	E	HIGH												
183	Eelgrass			HIGH												
190	Salt marsh bird's-beak	F	E	HIGH												
192	Eelgrass			HIGH												
194	Salt marsh bird's-beak	F	E	HIGH												
196	Beach layia	F	E													
	Clover lupine	F	E													
202	Beach layia	F	E													
	Clover lupine	F	E													

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
178	Dungeness crab			HIGH	X	X	X	X	X	X						X	-	-
179	Gaper clam			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
180	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
181	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
182	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
189	Abalone																-	-
190	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
191	Dungeness crab			HIGH	X	X	X	X	X	X						X	-	-
192	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

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ESIMAP 3 (CONTINUED)

HUMAN USE RESOURCES:

AQUACULTURE:

RAR#	Name	Owner	Contact	Phone
H183	M-430-15 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H184	M-430-16 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H185	M-430-17 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H186	M-430-02 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H187	M-430-11 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H188	M-430-12 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H189	M-430-08 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H190	M-430-14 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521
H191	M-430-07 AQUACULTURE LEASE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521

ESIMAP 4

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
176	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN
	Canvasback				X	X	X						X	X	X	-	-	-	-	
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X				X	X	X	X	-	-	-	-	-
	Willet				X	X	X	X				X	X	X	X	X	-	-	-	-
177	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Brandt's cormorant				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	MAY-MAY	JUN-JUN	JUN-JUL
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN
	Canvasback				X	X	X						X	X	X	-	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X				X	X	X	X	-	-	-	-	-
	Willet				X	X	X	X				X	X	X	X	X	-	-	-	-
522	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			18	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Double-crested cormorant			14	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			143	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			32	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
547	Black oystercatcher			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			12	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			84	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			25	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			14	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
175	Pacific herring				X	X	X							X	X	X	OCT-MAR	-
176	Pacific herring			HIGH	X	X	X							X	X	X	OCT-MAR	-
	Rainbow trout (steelhead)			LOW	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Striped bass			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-
	Tidewater goby			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-
177	Striped bass			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-
	Tidewater goby				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-

M_MAMMAL:																				
RAR#	Species		S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
97	Harbor seal				MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
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176	Eelgrass			HIGH												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
175	Dungeness crab				X	X	X	X	X	X						X	-	-
176	Dungeness crab				X	X	X	X	X	X						X	-	-
	Gaper clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Washington butter clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-
177	Dungeness crab				X	X	X	X	X	X						X	-	-

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HUMAN USE RESOURCES:

ESIMAP 5

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
<hr/>																				
159	California black rail	S	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	MAR-JUN	-	-
162	American avocet				X	X	X	X				X	X	X	X	-	-	-	-	-
	Black brant				X	X	X	X	X					X	X	-	-	-	-	-
	Canvasback				X	X	X						X	X	X	-	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Greater scaup				X	X	X	X						X	X	-	-	-	-	-
	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
	Western grebe				X	X	X	X				X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X				X	X	X	X	X	-	-	-	-
163	American avocet				X	X	X	X				X	X	X	X	X	-	-	-	-
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN
	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X				X	X	X	X	X	-	-	-	-
165	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
	Willet				X	X	X	X				X	X	X	X	X	-	-	-	-
168	Western gull			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
169	Canvasback				X	X	X						X	X	X	-	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Greater scaup				X	X	X	X						X	X	-	-	-	-	-
	Red-breasted merganser				X	X	X	X				X	X	X	X	X	-	-	-	-
	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
172	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN
	Canvasback			HIGH	X	X	X						X	X	X	-	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Western grebe				X	X	X	X				X	X	X	X	-	-	-	-	-
173	Brandt's cormorant				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	MAY-MAY	JUN-JUN	JUN-JUL
	Brown pelican	F	E		X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN
	Western gull				X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
174	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
	Willet				X	X	X	X				X	X	X	X	X	-	-	-	-
521	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			1228	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pigeon guillemot			30	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			2	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Western gull			24	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
545	Black oystercatcher			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			103	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
546	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			51	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			27	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			2	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
551	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	

165	Redtail surfperch				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	
	Surf smelt								X	X	X	X					MAY-AUG	-	
166	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
167	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
168	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
169	Coho salmon (silver)			LOW	X	X	X	X	X						X	X	NOV-JAN	FEB-APR	
	Pacific herring			LOW	X	X	X							X	X	X	OCT-MAR	-	
	Rainbow trout (steelhead)			LOW	X	X	X	X	X						X	X	NOV-JAN	FEB-APR	
	Tidewater goby			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-	
172	Night smelt					X	X	X	X	X	X						FEB-JUL	-	
	Striped bass				X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	
	Surf smelt								X	X	X	X					MAY-AUG	-	
	Tidewater goby				X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
158	Gray whale			HIGH	X	X	X	X	X						X	X	-	-	-
167	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
173	California sea lion				X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T						X	X	X	X					-	-	MAY-AUG

PLANT:																	
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	
162	Eelgrass			HIGH	-	-	-	-	-	-	-	-	-	-	-	-	
164	Eelgrass			HIGH													

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
158	Dungeness crab			HIGH	X	X	X	X	X	X						X	-		-
160	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-		APR-SEP
	Washington butter clam			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-		-

ESIMAP 5 (CONTINUED)

BIOLOGICAL RESOURCES:

SHELLFISH:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
161	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP		
162	Common Pacific littleneck clam			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP		
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR		
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-		
163	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR		
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-		
164	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP		
	Gaper clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR		
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-		
166	Abalone																-	-		
167	Abalone																-	-		
170	Common Pacific littleneck clam				X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP		
171	Common Pacific littleneck clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP		
172	Dungeness crab				X	X	X	X	X	X						X	-	-		

T_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
171	River otter			HIGH	X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

AQUACULTURE:

RAR#	Name	Owner	Contact	Phone
H177	BODEGA MARINE LAB	UNIVERSITY OF CALIFORNIA	PETER CONNERS, RESERVE MANAGER	707-875-2020

MARINA:

RAR#	Name	Owner	Contact	Phone
H171	SPUD POINT MARINA	SONOMA COUNTY REGIONAL PARKS	ROBERT BLACK, SUPERVISOR	707-875-3535
H172	MASONS MARINA	MASONS MARINA	GREG ZEDRICK, MANAGER	707-875-3811
H175	PORTO BODEGA HARBOR			

WATER_INTAKE:

RAR#	Name	Owner	Contact	Phone
H173	BODEGA MARINE LAB WATER INTAKE	UNIVERSITY OF CALIFORNIA	PETER CONNERS, RESERVE MANAGER	707-875-2020
H176	BODEGA FISH FARMS - WATER INTAKE	CALIFORNIA DEPT. OF FISH AND GAME	TOM MOORE, BIOLOGIST	707-875-2521

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BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
156	Marbled godwit				X	X	X	X				X	X	X	X	X	-	-	-	-
	Willet				X	X	X	X				X	X	X	X	X	-	-	-	-
157	Brown pelican	F	E	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	FEB-FEB	MAR-MAR	MAY-JUN
	Canvasback				X	X	X						X	X	X	-	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Osprey			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Red-breasted merganser				X	X	X	X				X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X				X	X	X	X	X	-	-	-	-
541	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			40	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pelagic cormorant			44	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
542	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			650	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Leach's storm-petrel			10		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			44	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			34	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
543	Black oystercatcher			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			55	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			88	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
544	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			136	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			34	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
550	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Western gull			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
					-	-	-	-	-	-	-	-	-	-	-	-	-	-
155	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
156	Surf smelt								X	X	X	X					MAY-AUG	-
157	Chinook salmon (king)			LOW	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Coho salmon (silver)			HIGH	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Pacific herring			MED	X	X	X							X	X	X	OCT-MAR	-
	Rainbow trout (steelhead)			HIGH	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Striped bass			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-
	White sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-

M_MAMMAL:																				
RAR#	Species		S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
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157	Harbor seal				MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
142	Dungeness crab			MED	X	X	X	X	X	X						X	-	-
155	Abalone			HIGH													-	-
	Dungeness crab			MED	X	X	X	X	X	X						X	-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
157	Dungeness crab			MED	X	X	X	X	X	X						X	-	-

HUMAN USE RESOURCES:

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BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151	Marbled godwit			MED	X	X	X	X				X	X	X	X	X	-	-	-	-
	Willet			MED	X	X	X	X				X	X	X	X	X	-	-	-	-
152	Canvasback				X	X	X							X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Double-crested cormorant				X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Osprey				X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Red-breasted merganser				X	X	X	X				X	X	X	X	X	-	-	-	-
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-
519	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			51	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Double-crested cormorant			422	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			125	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			44	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
520	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			717	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			9	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Tufted puffin			2	X			X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			34	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
540	Black oystercatcher			7	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			227	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			42	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
541	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			40	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pelagic cormorant			44	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
145	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
150	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
151	Surf smelt								X	X	X	X					MAY-AUG	-
152	Chinook salmon (king)			LOW	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Coho salmon (silver)			HIGH	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Rainbow trout (steelhead)			HIGH	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	White sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
153	Coho salmon (silver)			LOW	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Rainbow trout (steelhead)			LOW	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
733	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-
734	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
20	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
151	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern elephant seal			LOW	X	X	X				X	X				X	-	-	DEC-MAR
152	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
154	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
137	Giant kelp			MED												
734	Giant kelp			MED												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
150	Abalone			HIGH													-	-
152	Dungeness crab				X	X	X	X	X	X						X	-	-
733	Abalone			HIGH													-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
734	Abalone			HIGH													-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

HUMAN USE RESOURCES:

HISTORICAL_SITE:			
RAR#	Name	Owner	Phone
H159	FORT ROSS STATE HISTORICAL PARK	CALIFORNIA DEPT. OF PARKS AND RECREATION	BRIAN HICKEY, CHIEF RANGER 707-865-2391

ESIMAP 8

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

480	Pelagic cormorant			121	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
536	Black oystercatcher			14	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			79	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
537	Black oystercatcher			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			110	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			16	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
538	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			62	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			32	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
539	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			52	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
146	Rockfish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
148	Rainbow trout (steelhead)			LOW	X	X	X	X	X						X	X	NOV-JAN	FEB-APR

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
143	Harbor seal			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
149	Northern (Steller) sea lion	F	T							X	X	X	X				-	-	MAY-AUG

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
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144	Giant kelp			LOW												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
146	Abalone			HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147	Dungeness crab				X	X	X	X	X	X					X	-	-	-

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HUMAN USE RESOURCES:

HISTORICAL_SITE:				
RAR#	Name	Owner	Contact	Phone
H155	FORT ROSS STATE HISTORIC PARK	CALIFORNIA DEPT. OF PARKS AND RECREATION	BRIAN HICKEY, CHIEF RANGER	707-865-2391

ESIMAP 9

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
533	Black oystercatcher			11	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			84	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			42	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			16	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
534	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			40	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
535	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			66	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			15	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																				
RAR#	Species		S/F	T/E	Concen		J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
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141	Rockfish						X	X	X	X	X	X	X	X	X	X	X	X	-	-

M_MAMMAL:																					
RAR#	Species			S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
20	Harbor	seal				HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
97	Harbor	seal				MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
143	Harbor	seal				LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
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144	Giant kelp			LOW												

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
141	Abalone			HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
142	Dungeness crab			MED	X	X	X	X	X	X						X	-	-	

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HUMAN USE RESOURCES:

ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
138	Common loon			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
	Great blue heron			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Western grebe			MED	X	X	X	X					X	X	X	X	-	-	-	-
140	Marbled godwit			MED	X	X	X	X					X	X	X	X	-	-	-	-
	Willet			MED	X	X	X	X					X	X	X	X	-	-	-	-
517	Black oystercatcher			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			211	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Leach's storm-petrel			100		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			123	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			119	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			4	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Tufted puffin			15	X			X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			170	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
518	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			521	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			29	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			26	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
529	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			119	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			55	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
530	Brandt's cormorant			18	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			54	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
531	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			187	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			90	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
532	Pelagic cormorant			9	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
138	Coho salmon (silver)			MED	X	X	X	X	X							X	X	NOV-JAN	FEB-APR
	Rainbow trout (steelhead)			HIGH	X	X	X	X	X							X	X	NOV-JAN	FEB-APR
	Redtail surfperch			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-	
140	Night smelt			MED		X	X	X	X	X	X						FEB-JUL	-	
	Surf smelt			MED						X	X	X	X				MAY-AUG	-	
145	Rockfish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
139	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Northern (Steller) sea lion	F	T	HIGH						X	X	X	X				-	-	MAY-AUG
140	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
143	Harbor seal			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
136	Giant kelp			HIGH												
137	Giant kelp			MED												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
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109	Abalone			HIGH													-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

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HUMAN USE RESOURCES:

ESIMAP 11

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
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516	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			96	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			30	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
528	Pelagic cormorant			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
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136	Giant kelp			HIGH												
731	Bull kelp			HIGH												
732	Bull kelp			HIGH												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
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109	Abalone			HIGH													-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

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HUMAN USE RESOURCES:

ESIMAP 12

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
131	American avocet				X	X	X	X					X	X	X	X	X	-	-	-
	Black brant				X	X	X	X	X						X	X	-	-	-	-
	Canada goose			MED	X	X	X	X								X	-	-	-	-
	Canvasback				X	X	X							X	X	X	-	-	-	-
	Common loon				X	X	X	X	X				X	X	X	X	-	-	-	-
	Great blue heron				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Great egret				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUL	MAY-JUN	JUN-JUL	JUL-AUG
	Western grebe				X	X	X	X					X	X	X	X	-	-	-	-
	Whistling swan (tundra swan)			HIGH	X	X	X	X						X	X	X	-	-	-	-
132	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
133	Canada goose			MED	X	X	X	X								X	-	-	-	-
	Whistling swan (tundra swan)			HIGH	X	X	X	X						X	X	X	-	-	-	-
135	Canada goose			MED	X	X	X	X								X	-	-	-	-
	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	MAY-JUN	JUL-JUL
	Whistling swan (tundra swan)			HIGH	X	X	X	X						X	X	X	-	-	-	-
515	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			106	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			9	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
525	Black oystercatcher			7	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			154	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			52	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
526	Pelagic cormorant			40	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
527	Pelagic cormorant			42	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
549	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			183	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			16	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
131	Coho salmon (silver)			MED	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
	Rainbow trout (steelhead)			MED	X	X	X	X	X						X	X	NOV-JAN	FEB-APR
132	Redtail surfperch				X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	-

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
134	California sea lion			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
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728	Giant kelp			HIGH												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
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109	Abalone			HIGH													-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

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HUMAN USE RESOURCES:

ESIMAP 13

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X					X	X	X	X	-	-	-
128	Gulls			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			LOW	X	X										X	-	-	-	-
129	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
130	Shorebirds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Waterfowl			LOW	X	X										X	-	-	-	-
487	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			497	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			18	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			22	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			26	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
507	Black oystercatcher			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			175	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			25	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
508	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			360	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			108	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
509	Pelagic cormorant			73	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
510	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			24	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
7	Redtail surfperch			MED	-	-	-	-	X	X	X	-	-	-	-	-	APR-JUN	-
128	Coho salmon (silver)			LOW	X	X	-	X	X	X	-	-	X	X	X	X	SEP-FEB	APR-JUN
	Night smelt			HIGH	-	X	X	X	X	X	X	-	-	-	-	-	FEB-JUL	-
	Rainbow trout (steelhead)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
130	Surf smelt			HIGH	-	-	-	-	X	X	X	X	-	-	-	-	MAY-AUG	-

MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
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111	Bull kelp			HIGH												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
111	Abalone			HIGH													-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

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HUMAN USE RESOURCES:

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BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

122	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X					X	X	X	X	-	-	-
124	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			HIGH	X	X										X	-	-	-	-
125	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			MED	X	X										X	-	-	-	-
126	Waterfowl			MED	X	X										X	-	-	-	-
127	Diving birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gulls			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
484	Black oystercatcher			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			262	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			70	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			49	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
485	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			11	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			55	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			24	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
486	Brandt's cormorant			70	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pigeon guillemot			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			3	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Western gull			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
504	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			279	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			152	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			74	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
505	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			121	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			28	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			14	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
506	Black oystercatcher			11	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			4	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			156	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			170	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			7	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
125	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Pacific herring			LOW	X	X	X						X	X	X		OCT-MAR	-
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
126	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Pacific herring			LOW	X	X	X						X	X	X		OCT-MAR	-
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
127	Coho salmon (silver)			LOW	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Rainbow trout (steelhead)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
20	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
122	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
122	Bull kelp			HIGH	-	-	-	-	-	-	-	-	-	-	-	-
126	Eelgrass			LOW												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
122	Abalone			HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
125	Dungeness crab			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB
126	Dungeness crab			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB

HUMAN USE RESOURCES:

MARINA:															
RAR#	Name	Owner					Contact					Phone			
H128	ALBION RIVER HARBOUR	VI LEAGE					CAMPGROUND MANAGER					707-937-0606			

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BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
		F	E		-	-	-	-	-	-	-	-	-	-	-	-				
122	Brown pelican			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X					X	X	X	X	-	-	-	-
123	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			MED	X	X										X	-	-	-	-
483	Black oystercatcher			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			1087	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			57	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pelagic cormorant			119	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			54	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			4	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Tufted puffin			8	X			X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			48	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
499	Black oystercatcher			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			29	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			37	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
500	Black oystercatcher			7	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			185	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			63	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
501	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			29	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			58	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
502	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			35	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			36	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
503	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			68	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			29	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			3	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Tufted puffin			2	X			X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			158	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
513	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			13	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			15	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			18	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
514	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			15	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			41	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
94	Rainbow trout (steelhead)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
117	Coho salmon (silver)			LOW	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Rainbow trout (steelhead)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
123	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Pacific herring			LOW	X	X	X							X	X	X	OCT-MAR	-
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG

M_MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
122	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	-	-	-	DEC-MAR

PLANT:

[illegible]

SHELLFISH:

[illegible]

HUMAN USE RESOURCES:

HISTORICAL_SITE:

RAR#	Name	Owner	Contact	Phone
H125	POINT CABRILLO LIGHTHOUSE			

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BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
9	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
10	Brown pelican	F	E	HIGH				X	X	X	X	X	X	X	X		-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
118	Shorebirds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			LOW	X	X										X	-	-	-	-
498	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			37	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			36	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			78	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
511	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			66	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			88	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
512	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			57	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			48	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration		

117	Coho salmon (silver)			LOW	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN		
	Rainbow trout (steelhead)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG		
118	Chinook salmon (king)			LOW	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN		
	Coho salmon (silver)			HIGH	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN		
	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
	Pacific herring			LOW	X	X	X						X	X	X		OCT-MAR	-		
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG		
	Redtail surfperch			MED				X	X	X							APR-JUN	-		
119	Surf smelt			LOW					X	X	X	X					MAY-AUG	-		

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
116	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																	
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	
111	Bull kelp			HIGH													
115	Howells spineflower	F	E														
116	Bull kelp			HIGH													
118	Eelgrass			LOW													
120	Menzies wallflower	F	E														
121	Marin bent grass	S	T														

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
111	Abalone			HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
116	Abalone			HIGH													-	-	
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
118	Dungeness crab			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB	

HUMAN USE RESOURCES:

MARINA:				
RAR#	Name	Owner	Contact	Phone
H107	NOYO HARBOR		HOWARD MERRETT, HARBOR MASTER	707-964-4719
H111	MARINA			

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X				X	X	X	-	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
58	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
113	Shorebirds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			LOW	X	X										X	-	-	-	-
481	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			66	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			57	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
482	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			191	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			57	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			42	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			26	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
496	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
497	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			55	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
31	Night smelt			HIGH		X	X	X	X	X	X						FEB-JUL	-	
	Redtail surfperch			HIGH					X	X	X						APR-JUN	-	
	Surf smelt			HIGH						X	X	X	X				MAY-AUG	-	
105	Surf smelt			HIGH						X	X	X	X				MAY-AUG	-	
112	Night smelt			HIGH		X	X	X	X	X	X						FEB-JUL	-	
	Surf smelt			HIGH						X	X	X	X				MAY-AUG	-	
	Surfperch			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
113	Chinook salmon (king)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR

PLANT:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D		
111	Bull kelp			HIGH	-	-	-	-	-	-	-	-	-	-	-	-		
113	Eelgrass			LOW														
114	Menzies wallflower	F	E	MED														
115	Howells spineflower	F	E															

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
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111	Abalone			HIGH													-	-	
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
113	Soft-shell clam			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	

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HUMAN USE RESOURCES:

ESIMAP 18

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
103	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
104	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
106	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
	Diving birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gulls			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
107	Brandt's cormorant			HIGH			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Diving birds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pelagic cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
110	Gulls			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			LOW	X	X										X	-	-	-	-
478	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			847	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			1544	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pelagic cormorant			91	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			2	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Western gull			16	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
479	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			1698	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			6930	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pelagic cormorant			70	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			42	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			1	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Western gull			56	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
480	Pelagic cormorant			121	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
494	Black oystercatcher			7	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			31	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			22	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
495	Black oystercatcher			7	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			145	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			94	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
99	Night smelt			HIGH		X	X	X	X	X	X						FEB-JUL	-
	Surf smelt			HIGH						X	X	X	X				MAY-AUG	-
105	Surf smelt			HIGH						X	X	X	X				MAY-AUG	-

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
103	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
104	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
103	Bull kelp			HIGH	-	-	-	-	-	-	-	-	-	-	-	-

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
103	Abalone			MED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Red sea urchin			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-
108	Abalone			HIGH													-	-
109	Abalone			HIGH													-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

HUMAN USE RESOURCES:

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
<hr/>																				
10	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
95	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
96	Diving birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gulls			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
	Shorebirds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
98	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
100	Diving birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gulls			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
101	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
102	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
490	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			169	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			7	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			40	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
491	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			53	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			40	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
492	Pelagic cormorant			11	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			18	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
493	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			9	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			14	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
96	Rainbow trout (steelhead)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
99	Night smelt			HIGH		X	X	X	X	X	X						FEB-JUL	-
	Surf smelt			HIGH						X	X	X	X				MAY-AUG	-
100	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG

_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
96	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Northern (Steller) sea lion	F	T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
97	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
98	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
100	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
102	California sea lion			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG

HUMAN USE RESOURCES:

ESIMAP 20

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
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90	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
91	Diving birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gulls			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
92	Osprey			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
93	Bald eagle	F	T	MED	X	X	X	X					X	X	X	X	-	-	-	-
	Osprey			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
95	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
488	Pelagic cormorant			26	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
489	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			81	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			18	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
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91	Rainbow trout (steelhead)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG	
93	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG	
94	Rainbow trout (steelhead)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
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20	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
90	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
91	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
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90	Abalone			HIGH													-	-	
	Red sea urchin			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	

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HUMAN USE RESOURCES:

ESIMAP 21

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

10	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X				X	X	X	-	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
89	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
468	Pelagic cormorant			62	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
16	Gray whale			LOW	X	X	X	X	X						X	X	-	-	-
89	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
89	Abalone			HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Red sea urchin			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

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HUMAN USE RESOURCES:

ESIMAP 22

BIOLOGICAL RESOURCES:

BIRD:														
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O N D Nesting Laying Hatching Fledging
10	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X - - -
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X APR-JUL APR-JUN MAY-JUL JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X				X	X X - - -
	White-winged scoter			MED	X	X	X	X	X			X	X	X X - - -

M_MAMMAL:														
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O N D Mating Calving Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X - - MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X - - MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X - - MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X - - DEC-MAR

PLANT:														
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O N D
88	Bull kelp			LOW	-	-	-	-	-	-	-	-	-	-

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HUMAN USE RESOURCES:

ESIMAP 23

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X						X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X					X	X	X	X	-	-	-
455	Pelagic cormorant			17	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
16	Gray whale			LOW	X	X	X	X	X						X	X	-	-	-

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HUMAN USE RESOURCES:

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

9	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
10	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
85	Bald eagle	F	T	MED	X	X	X	X					X	X	X	X	-	-	-	-
	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
	Diving birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gulls			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pelagic cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Terns			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			LOW	X	X										X	-	-	-	-
86	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
467	Brandt's cormorant			57	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			19	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	

85	Chinook salmon (king)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
85	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D		
85	Beach layia	F	E	MED	-	-	-	-	-	-	-	-	-	-	-	-		
87	Beach layia	F	E															

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HUMAN USE RESOURCES:

ESIMAP 25

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

9	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
10	Brown pelican	F	E	HIGH				X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
82	Black oystercatcher			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Double-crested cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Tufted puffin			LOW			X	X	X	X	X	X	X				APR-AUG	APR-JUN	MAY-JUL	JUL-AUG
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
83	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
84	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
453	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			293	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Double-crested cormorant			274	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			627	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			172	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			7	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Tufted puffin			4	X			X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			268	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
454	Brandt's cormorant			464	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			9163	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pigeon guillemot			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			62	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
83	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN

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HUMAN USE RESOURCES:

ESIMAP 26

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X					X	X	X	X	-	-	-
50	Snowy plover			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
80	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
81	Brown pelican	F	E	MED			X	X	X	X	X	X	X				-	-	-	-
	Great blue heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	APR-JUN
	Great egret			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Whistling swan (tundra swan)			MED	X	X	X	X						X	X	X	-	-	-	-
452	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			792	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			11051	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pelagic cormorant			240	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			55	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Tufted puffin			8	X			X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			96	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
39	Redtail surfperch			HIGH	-	-	-	-	X	X	X						APR-JUN	-
81	Chinook salmon (king)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
81	California sea lion			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
					-	-	-	-	-	-	-	-	-	-	-	-	-	-
81	Dungeness crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB
	Soft-shell clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-

HUMAN USE RESOURCES:

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X					X	X	X	X	-	-	-
58	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
75	Black brant			HIGH	X	X	X	X	X						X	X	-	-	-	-
	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	APR-JUN
	Great egret			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
76	Black brant			HIGH	X	X	X	X	X						X	X	-	-	-	-
	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	APR-JUN
	Osprey			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Whistling swan (tundra swan)			MED	X	X	X	X						X	X	X	-	-	-	-
77	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
					-	-	-	-	-	-	-	-	-	-	-	-			
75	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-	
76	Chinook salmon (king)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY	
	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG	
	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping

10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
75	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
76	California sea lion			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																	
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	
60	Salt marsh bird's-beak	F	E		-	-	-	-	-	-	-	-	-	-	-	-	
75	Eelgrass			HIGH													
	Menzies wallflower	F	E														
76	Eelgrass			HIGH													

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
75	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP	
	Dungeness crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB	
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR	
	Purple shore crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Soft-shell clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
76	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP	
	Dungeness crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB	
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR	
	Native Pacific oyster			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Purple shore crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Soft-shell clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	

HUMAN USE RESOURCES:

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X					X	X	X	X	-	-	-
62	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Raptors			HIGH													-	-	-	-
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
78	Black brant			HIGH	X	X	X	X	X						X	X	-	-	-	-
	Brandt's cormorant			MED		X	X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Brown pelican	F	E	HIGH		X	X	X	X	X	X	X	X	X			-	-	-	-
	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Double-crested cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	APR-JUN
	Osprey			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
79	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
477	Double-crested cormorant			94	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
78	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
78	California sea lion			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
60	Salt marsh bird's-beak	F	E		-	-	-	-	-	-	-	-	-	-	-	-
78	Eelgrass			HIGH												
729	Western lily	S	E													

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
78	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP
	Dungeness crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Native Pacific oyster			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Purple shore crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Soft-shell clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

HUMAN USE RESOURCES:

MARINA:			
RAR#	Name	Owner	Phone
H080	KING SALMON MARINA	KING SALMON MARINA	707-442-3331
WATER_INTAKE:			
RAR#	Name	Owner	Phone
H079	PG & E POWER WATER INTAKE	PG & E POWER COMPANY	707-444-0712
H082	KUIPER MARICULTURE WATER INTAKE	KUIPER MARICULTURE	707-822-9057

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

15	Marbled murrelet	S/F	E/T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
50	Snowy plover			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
61	Black brant			HIGH	X	X	X	X	X						X	X	-	-	-	-
	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X					X	X	X	X	-	-	-
62	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Raptors			HIGH													-	-	-	-
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
63	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
64	American bittern			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-MAY	MAY-JUN	MAY-JUL
	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
65	Black brant			HIGH	X	X	X	X	X						X	X	-	-	-	-
	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	APR-JUN
	Osprey			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
66	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
67	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
68	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Raptors			MED													-	-	-	-
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
69	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV

FISH:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration		

63	Pacific herring			HIGH	X	X	X							X	X	X	OCT-MAR	-		
65	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-		
	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-		
67	Chinook salmon (king)			HIGH	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN		
	Rainbow trout (steelhead)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG		
	Redtail surfperch			HIGH				X	X	X							APR-JUN	-		

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
61	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
65	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																	
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	
60	Salt marsh bird's-beak	F	E														
63	Eelgrass			HIGH													
64	Eelgrass			HIGH													
65	Eelgrass			HIGH													
69	Beach layia	F	E	MED													
	Menzies wallflower	F	E	MED													
	Salt marsh bird's-beak	F	E														
70	Eelgrass			HIGH													

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
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65	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP	
	Dungeness crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB	
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR	
	Native Pacific oyster			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Purple shore crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Soft-shell clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	

HUMAN USE RESOURCES:

AQUACULTURE:														
RAR#	Name	Owner					Contact					Phone		
H056	MAD RIVER SLOUGH MARICULTURE SITES						KUIPER MARICULTURE					707-822-9057		
H057	COAST OYSTER						COAST OYSTER					707-442-2974		

MARINA:														
RAR#	Name	Owner					Contact					Phone		
H061	WOODLY ISLAND MARINA						HARBORMASTER					707-443-0801		
H063	SMALL CRAFT HARBOUR						CITY OF EUREKA MARINA					707-441-4230		
H064	MUMBOLDT DOCKS A AND B						HUMBOLDT BAY OIL SPILL COOP.					707-445-3001		

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
71	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Double-crested cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
72	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
73	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Shorebirds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
74	Black brant			HIGH	X	X	X	X	X						X	X	-	-	-	-
	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Canada goose			LOW	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	MAY-JUN
	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Great blue heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	APR-JUN
	Osprey			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Peregrine falcon	F	E	LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAR-APR	APR-MAY	JUN-AUG
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
451	Double-crested cormorant			286	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
73	Redtail surfperch			MED	-	-			X	X	X						APR-JUN	-
	Salmon fishery (commercial)			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-
74	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
72	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
74	California sea lion			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
60	Salt marsh bird's-beak	F	E		-	-	-	-	-	-	-	-	-	-	-	-
74	Eelgrass			HIGH												

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
74	Common Pacific littleneck clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	APR-SEP
	Dungeness crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB
	Gaper clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-APR
	Native Pacific oyster			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Purple shore crab			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Soft-shell clam			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Washington butter clam			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-

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HUMAN USE RESOURCES:

AQUACULTURE:															
RAR#	Name	Owner					Contact					Phone			
H071	NORTH HUMBOLDT BAY MARICULTURE SITES	MULTIPLE					NORTH BAY SHELLFISH					707-839-4723			

ESIMAP 31

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
9	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
10	Brown pelican	F	E	HIGH				X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
54	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X				X	X	X	-	-	-	-	-
55	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
56	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
57	Raptors			MED													-	-	-	-
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
58	Snowy plover			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
7	Redtail surfperch			MED	-	-	-		X	X	X						APR-JUN	-	
55	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY	
	Eulachon			MED	X	X	X	X								X	DEC-APR	-	
	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Salmon fishery (commercial)			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-	
56	Chinook salmon (king)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY	
	Eulachon			MED	X	X	X	X								X	DEC-APR	-	
	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG	
	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
54	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR

PLANT:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D			
59	Beach layia	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-			
	Menzies wallflower	F	E	HIGH															
60	Salt marsh bird's-beak	F	E																
SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
51	Razor clam (western)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	
55	Dungeness crab			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB	

HUMAN USE RESOURCES:

AQUACULTURE:																
RAR#	Name					Owner					Contact					Phone
H052	MAD RIVER SLOUGH MARICULTURE SITES										KUIPER MARICULTURE					707-822-9057

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
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10	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X				X	X	X		-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
44	Marbled murrelet	S/F	E/T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
49	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Surf scoter			HIGH	X	X	X	X	X				X	X	X		-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
50	Snowy plover			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
52	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Fork-tailed storm-petrel			MED		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Leach's storm-petrel			HIGH		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
53	Pelagic cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
54	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X				X	X	X		-	-	-	-
439	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Double-crested cormorant			130	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			44	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
440	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Double-crested cormorant			89	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			24	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
441	Common murre			5304	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Leach's storm-petrel			7		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			22	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
442	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			62	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Cassin's auklet			84	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-JUL	APR-AUG	MAY-SEP
	Common murre			32021	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Fork-tailed storm-petrel			50		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Leach's storm-petrel			1		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			25	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			12	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Tufted puffin			29	X		X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			28	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
443	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Tufted puffin			7	X		X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
444	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
445	Black oystercatcher			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			1032	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			33456	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pelagic cormorant			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Tufted puffin			2	X		X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			114	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
446	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant	</																		

ESIMAP 32 (CONTINUED)

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
					-	-	-	-	-	-	-	-	-	-	-	-				
466	Pigeon guillemot			9	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			22	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Fork-tailed storm-petrel			8		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Leach's storm-petrel			4173		X	X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			72	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			36	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			48	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
476	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
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39	Redtail surfperch			HIGH					X	X	X						APR-JUN	-	
53	Chinook salmon (king)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY	
	Tidewater goby			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
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10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
45	California sea lion			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
46	California sea lion			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
47	California sea lion			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Northern (Steller) sea lion	F	T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
48	Harbor seal			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
49	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
54	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR

PLANT:																	
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	
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44	Giant kelp			HIGH													

SHELLFISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning	
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51	Razor clam (western)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	

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HUMAN USE RESOURCES:

MARINA:														
RAR#	Name	Owner					Contact					Phone		
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H039	TRINIDAD HARBOUR						BOB'S BOAT BASIN					707-677-3625		

VILLAGE:														
RAR#	Name	Owner					Contact					Phone		
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H040	TRINIDAD INDIAN RESERVATION						TRINIDAD RANCHERIA					707-677-0211		

WATER INTAKE:														
RAR#	Name	Owner					Contact					Phone		
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H037	HUMBOLDT STATE UNIVERSITY WATER INTAKE	HUMBOLDT STATE UNIVERSITY					MARINE LABORATORY AND AQUARIUM					707-677-3671		

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
9	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
11	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
34	Brown pelican	F	E	HIGH				X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X					X	X	X	X	-	-	-
35	Bald eagle	F	T	MED	X	X	X	X						X	X	X	X	-	-	-
	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
	Common loon			MED	X	X	X	X	X					X	X	X	X	-	-	-
	Diving birds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gulls			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Terns			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	SEP-SEP
36	Bald eagle	F	T	MED	X	X	X	X						X	X	X	X	-	-	-
	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
	Common loon			MED	X	X	X	X	X					X	X	X	X	-	-	-
	Diving birds			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gulls			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Western grebe			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	SEP-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
31	Night smelt			HIGH		X	X	X	X	X	X						FEB-JUL	-
	Redtail surfperch			HIGH				X	X	X							APR-JUN	-
	Surf smelt			HIGH					X	X	X	X					MAY-AUG	-
35	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
36	Chinook salmon (king)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Coho salmon (silver)			MED	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Cutthroat trout			MED	X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY
	Rainbow trout (steelhead)			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
	Tidewater goby			MED	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-
39	Redtail surfperch			HIGH				X	X	X							APR-JUN	-

_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
16	Gray whale			LOW	X	X	X	X	X							X	X	-	-
37	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Gray whale			LOW	X	X	X	X	X							X	X	-	-
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
38	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR

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HUMAN USE RESOURCES:

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
33	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X				-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Surf scoter			HIGH	X	X	X	X	X				X	X	X	-	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
474	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			51	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pigeon guillemot			13	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
31	Night smelt			HIGH	-	-	-	-	-	-	-	-	-	-	-	-	FEB-JUL	-	
	Redtail surfperch			HIGH			X	X	X	X							APR-JUN	-	
	Surf smelt			HIGH						X	X	X	X				MAY-AUG	-	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
16	Gray whale			LOW	X	X	X	X	X						X	X	-	-	-

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HUMAN USE RESOURCES:

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
23	Pelagic cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
24	Double-crested cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
25	Black oystercatcher			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
26	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
27	Pelagic cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
28	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Western gull			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
29	Great blue heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	APR-JUN
	Gulls			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Terns			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
433	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			713	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			43898	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Double-crested cormorant			84	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			115	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			72	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Tufted puffin			4	X		X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			92	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
434	Double-crested cormorant			26	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			34	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
435	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			409	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Double-crested cormorant			74	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			18	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			1	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
462	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			154	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			61	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
463	Black oystercatcher			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Double-crested cormorant			144	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			29	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			13	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
470	Black oystercatcher			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
472	Pigeon guillemot			16	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
473	Pigeon guillemot			29	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			26	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
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29	Chinook salmon (king)			HIGH	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Coho salmon (silver)			HIGH	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN	
	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY	
	Eulachon			HIGH	X	X	X	X								X	DEC-APR	-	
	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
	Rainbow trout (steelhead)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG	
	White sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
30	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY	
	Night smelt			HIGH		X	X	X	X	X	X						FEB-JUL	-	
	Surf smelt			HIGH					X	X	X	X					MAY-AUG	-	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
16	Gray whale			LOW	X	X	X	X	X						X	X	-	-	-
29	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

HUMAN USE RESOURCES:

SUBSISTENCE:				
RAR#	Name	Owner	Contact	Phone
H023	KLAMATH RIVER ESTUARY		YUOK TRIBAL COUNCIL	707-482-2921

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging

10	Brown pelican	F	E	HIGH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
15	Marbled murrelet	S/F	E/T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
18	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
19	Brandt's cormorant			HIGH			X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Double-crested cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Marbled murrelet	S/F	E/T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pelagic cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
21	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
22	Double-crested cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
432	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			112	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			363	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pelagic cormorant			22	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			48	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			22	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
457	Black oystercatcher			17	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			40	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			33	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
458	Black oystercatcher			5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Double-crested cormorant			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			96	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			59	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			30	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
459	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			38	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			16	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
460	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			216	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Common murre			326	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Pelagic cormorant			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
461	Double-crested cormorant			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Pelagic cormorant			34	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
471	Black oystercatcher			1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			10	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Western gull			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
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18	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
					-	-	-	-	-	-	-	-	-	-	-	-			
10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
16	Gray whale			LOW	X	X	X	X	X						X	X	-	-	-
20	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
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17	Western lily	S	E													

HUMAN USE RESOURCES:

AQUACULTURE:				
RAR#	Name	Owner	Contact	Phone
H011	ABALONE INTERNATIONAL		CHRIS VAN HOOK	707-464-6913

MARINA:																				
RAR#	Name					Owner					Contact					Phone				

H010	OUTER BOAT BASIN										JOE DUSENBURY,CRESCENT CITY HARBOR DIST.					707-464-6174				
H012	INNER BOAT BASIN										JOE DUSENBURY,CRESCENT CITY HARBOR DIST.					707-464-6174				

WATER_INTAKE:																				
RAR#	Name					Owner					Contact					Phone				
H013	UNDERSEA WORLD WATER INTAKE					UNDERSEA WORLD					MARY ANN BROWN					707-464-3522				

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
10	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X				X	X	X	-	-	-	-	
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
11	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
12	Aleutian goose	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	American bittern			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-MAY	MAY-JUN	MAY-JUL
	Bald eagle	F	T	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Black-crowned night heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	FEB-MAR	MAR-APR	APR-JUL
	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Eared grebe			HIGH													-	-	-	-
	Great blue heron			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	FEB-MAR	MAR-APR	APR-JUN
	Great egret			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Horned grebe			HIGH	X	X	X	X	X	X			X	X	X	X	-	-	-	-
	Osprey			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pied-billed grebe			LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-APR	APR-JUL	JUN-SEP
	Red-necked grebe			LOW	X	X	X								X	X	-	-	-	-
	Shorebirds			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sora rail			LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Virginia rail			LOW	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	-
	Waterfowl			HIGH	X	X										X	-	-	-	-
	Western grebe			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-	SEP-SEP
	Whistling swan (tundra swan)			HIGH	X	X	X	X					X	X	X	-	-	-	-	-
13	Black oystercatcher			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Harlequin duck			HIGH	X	X	X	X					X	X	X	X	-	-	-	-
	Marbled murrelet	S/F	E/T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
14	Aleutian goose	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Brandt's cormorant			HIGH			X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-	-
	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
	Cassin's auklet			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-JUL	APR-AUG	MAY-SEP
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Leach's storm-petrel			HIGH			X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Western gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
15	Marbled murrelet	S/F	E/T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
18	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
429	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			2490	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Cassin's auklet			4749	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-JUL	APR-AUG	MAY-SEP
	Common murre			108318	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUL	JUN-AUG	JUL-SEP
	Fork-tailed storm-petrel			100			X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Leach's storm-petrel			926			X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			392	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			360	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			1005	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Tufted puffin			82	X		X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			1370	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
430	Black oystercatcher			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Double-crested cormorant			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Fork-tailed storm-petrel			60			X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			68	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			39	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			1	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Western gull			34	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
469	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			20	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			64	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration	
12	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-	
18	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY	

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping

10	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
14	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR
16	Gray whale			LOW	X	X	X	X	X						X	X	-	-	-

PLANT:																
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D
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17	Western lily	S	E													

HUMAN USE RESOURCES:

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
1	Black scoter (common)			MED	X	X	X	X						X	X	X	-	-	-	-
	Brown pelican	F	E	HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Common murre			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	APR-JUN	MAY-JUL	JUN-AUG
	Surf scoter			HIGH	X	X	X	X	X					X	X	X	-	-	-	-
	White-winged scoter			MED	X	X	X	X	X				X	X	X	X	-	-	-	-
2	Pelagic cormorant			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
3	Black oystercatcher			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			HIGH			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
4	Ashy storm-petrel			MED								X	X	X	X		-	-	-	-
	Black oystercatcher			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			MED			X	X	X	X	X	X	X	X	X		APR-JUL	-	-	-
	Double-crested cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Leach's storm-petrel			MED			X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Tufted puffin			MED			X	X	X	X	X	X	X				APR-AUG	APR-JUN	MAY-JUL	JUL-AUG
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
6	Bald eagle	F	T	LOW	X	X	X	X					X	X	X	X	-	-	-	-
	Brown pelican	F	E	MED			X	X	X	X	X	X	X	X			-	-	-	-
	Marbled murrelet	S/F	E/T	MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Osprey			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-APR	APR-JUN	MAY-JUL	JUL-AUG
	Shorebirds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Snowy plover			MED	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Wading birds			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Waterfowl			MED	X	X											X	-	-	-
	Western gull			MED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
9	Snowy plover				X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
426	Black oystercatcher			3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Pelagic cormorant			31	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			12	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			6	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
427	Black oystercatcher			4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			464	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Pelagic cormorant			56	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			138	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Western gull			28	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
428	Black oystercatcher			8	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Brandt's cormorant			310	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	FEB-JUN	MAR-JUL	MAY-AUG
	Double-crested cormorant			1102	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-JUN	APR-JUL	MAY-AUG
	Leach's storm-petrel			1			X	X	X	X	X	X	X	X			FEB-OCT	-	-	-
	Pelagic cormorant			346	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP
	Pigeon guillemot			221	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	APR-JUN	MAY-JUL	JUN-AUG
	Rhinoceros auklet			1	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	MAY-JUN	JUN-JUL	JUL-SEP
	Tufted puffin			27	X			X	X	X	X	X	X	X	X	X	APR-NOV	APR-AUG	MAY-SEP	JUL-NOV
	Western gull			616	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	APR-JUN	MAY-JUL	JUL-SEP

FISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Outmigration
					-	-	-	-	-	-	-	-	-	-	-	-		
5	Surfperch			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-
6	Chinook salmon (king)			HIGH	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Coho salmon (silver)			HIGH	X	X		X	X	X			X	X	X	X	SEP-FEB	APR-JUN
	Cutthroat trout			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY
	Eulachon			HIGH	X	X	X	X								X	DEC-APR	-
	Green sturgeon				X	X	X	X	X	X	X	X	X	X	X	X	-	-
	Pacific lamprey			HIGH				X	X	X	X						APR-JUL	-
	Rainbow trout (steelhead)			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-APR	APR-AUG
	Tidewater goby			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	AUG-NOV	-
7	Redtail surfperch			MED				X	X	X							APR-JUN	-
8	Cutthroat trout				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	FEB-MAY

M_MAMMAL:																			
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping
1	California sea lion			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG
	Harbor seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN
	Northern (Steller) sea lion	F	T	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUN
	Northern elephant seal			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR

SHELLFISH:																		
RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Spawning
6	Dungeness crab			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-FEB

HUMAN USE RESOURCES:

SUBSISTENCE:				
RAR#	Name	Owner	Contact	Phone
H003	SMITH RIVER RANCHERIA		MICKEY BURKE	707-487-7055