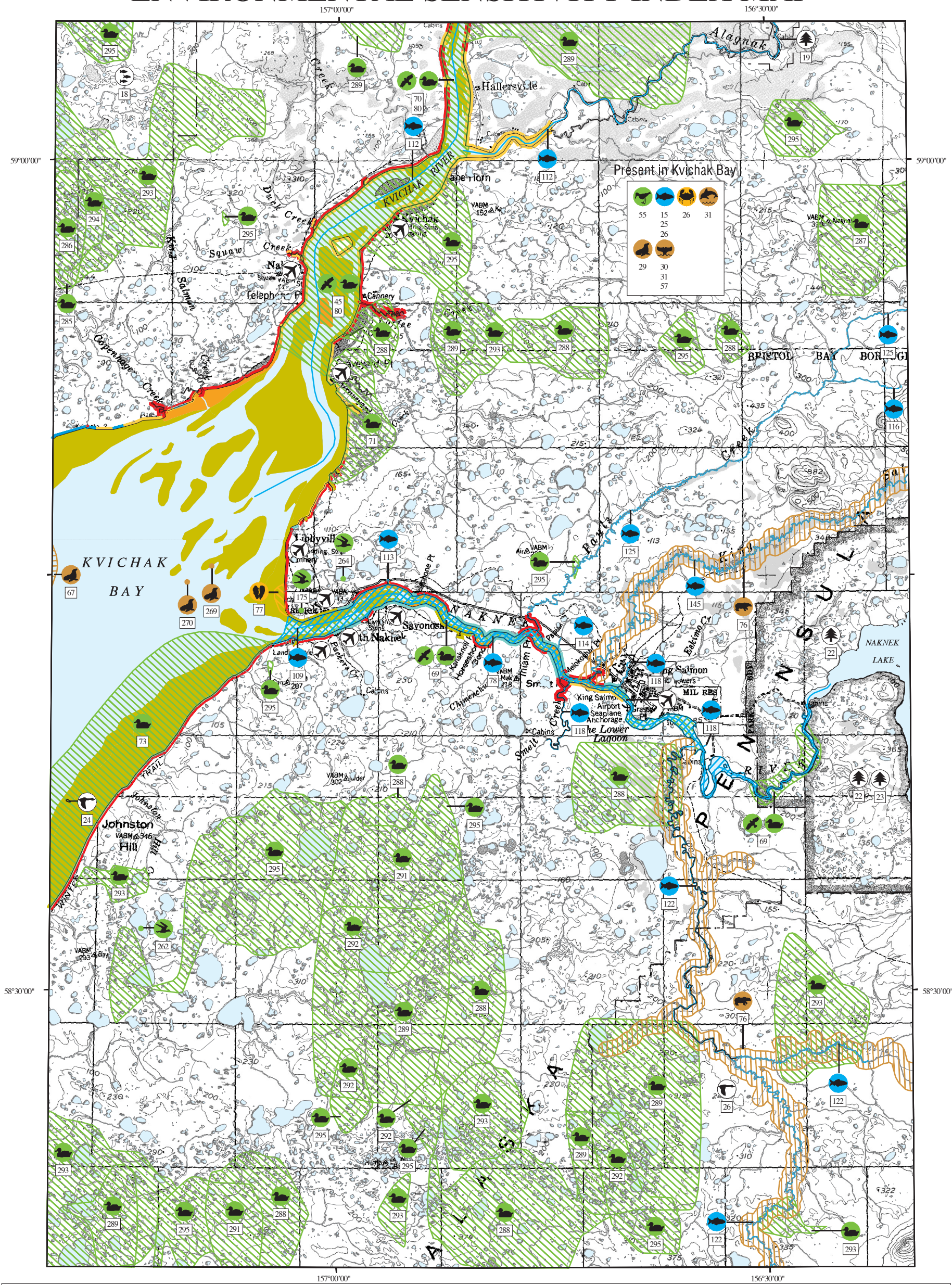


ENVIRONMENTAL SENSITIVITY INDEX MAP

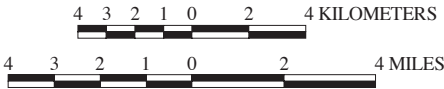


SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK, MUD, OR CLAY
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES AND SHELTERED SCARPS IN MUD AND CLAY
- 8E PEAT SHORELINES
- 9A SHELTERED TIDAL FLATS
- 10A SALT-AND BRACKISH-WATER MARSHES

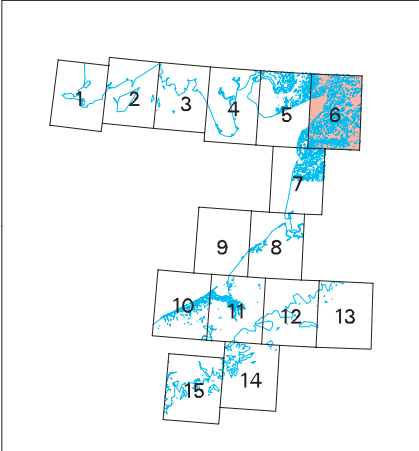


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Bristol Bay: ESIMAP 6

BIOLOGICAL RESOURCES:

BIRD:																			
RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating		Molting	
			-	-	-	-	-	-	-	-	-	-	-	-					
45	Waterfowl	HIGH				X	X				X	X			-	APR-MAY	SEP-OCT	-	
55	Bar-tailed godwit							X	X	X	X	X			-	JUN-OCT		-	
	Black-bellied plover	100S				X	X	X	X	X	X				MAY-JUL	MAY-OCT		-	
	Common snipe		X	X	X								X	X	-	-		-	
	Dunlin	10,000S				X	X	X	X	X	X	X			MAY-JUL	APR-OCT		-	
	Greater yellowlegs	100S				X	X	X	X	X	X				MAY-JUL	MAY-OCT		-	
	Least sandpiper					X	X	X							MAY-JUL	MAY-JUL		-	
	Pacific golden-plover	100S				X	X	X	X	X	X				-	MAY-OCT		-	
	Red-necked phalarope					X	X	X							MAY-JUL	MAY-JUL		-	
	Rock sandpiper					X	X	X							-	APR-JUN		-	
	Sharp-tailed sandpiper							X	X	X	X	X			-	JUN-OCT		-	
	Shorebirds	>40,000				X	X	X	X	X	X	X			MAY-JUL	APR-OCT		-	
	Western sandpiper					X	X	X	X						-	APR-JUL		-	
	Whimbrel					X	X	X							-	MAY-JUL		-	
69	Bald eagle	50	X	X	X	X	X	X	X	X	X	X	X	X	-	-		-	
	Black scoter	100S				X	X								-	MAR-APR		-	
	Canada goose	100S				X	X	X							-	MAR-MAY		-	
	Common goldeneye	100S	X	X	X	X	X								-	MAR-MAY		-	
	Common merganser	1,000S	X	X	X	X	X					X	X	X	-	-		-	
	Dabbling ducks	1,000S				X	X	X							-	MAR-MAY		-	
	Greater white-fronted goose	100S				X	X	X							-	MAR-MAY		-	
	King eider	1,000S				X	X								-	MAR-APR		-	
	Long-tailed duck	1,000S				X	X								-	MAR-APR		-	
	Northern pintail	10,000S				X	X	X							-	MAR-MAY		-	
	Red-breasted merganser	100S				X	X				X	X	X		-	APR-MAY	SEP-NOV	-	
	Scaup	100S				X	X	X			X	X	X		-	MAR-MAY	SEP-OCT	-	
	Tundra swan	1,000S				X	X	X	X	X					-	MAR-MAY		-	
70	Waterfowl	HIGH				X	X		X	X	X	X			-	APR-MAY	SEP-OCT	JUL-AUG	
71	Canada goose	HIGH				X	X			X	X	X			-	APR-MAY	AUG-OCT	-	
	Ducks	HIGH				X	X				X	X			-	APR-MAY	SEP-OCT	-	
	Greater white-fronted goose	HIGH						X	X						-	-		JUL-AUG	
73	Black scoter	1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-	
	Emperor goose	100S								X	X	X			-	AUG-OCT		-	
	Northern pintail	1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-	
	Scaup	1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-	
	White-winged scoter	1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-	
80	Bald eagle	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-		-	
175	Arctic tern	80				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-	
262	Glaucous-winged gull	50				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-	
264	Glaucous-winged gull	42				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-	
285	Black scoter	3-7 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
	Tundra swan	1-1.5 BIRDS/SQ.KM				X	X	X	X	X					MAY-JUN	MAY-MAY	JUL-SEP	-	
286	Black scoter	3-7 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
	Long-tailed duck	1-1.5 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
	Tundra swan	1-1.5 BIRDS/SQ.KM				X	X	X	X	X					MAY-JUN	MAY-MAY	JUL-SEP	-	
287	Long-tailed duck	1-1.5 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
288	Scaup	3-8 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
289	Black scoter	3-7 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
	Scaup	3-8 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
291	Scaup	3-8 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
	Tundra swan	1-1.5 BIRDS/SQ.KM				X	X	X	X						MAY-JUN	MAY-MAY	JUL-SEP	-	
292	Tundra swan	1-1.5 BIRDS/SQ.KM				X	X	X	X	X					MAY-JUN	MAY-MAY	JUL-SEP	-	
	Black scoter	3-7 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
	Scaup	3-8 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
293	Black scoter	3-7 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
294	Black scoter	3-7 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
	Long-tailed duck	1-1.5 BIRDS/SQ.KM				X	X	X	X	X	X				JUN-JUL	MAY-MAY	AUG-OCT	-	
295	Tundra swan	1-1.5 BIRDS/SQ.KM				X	X	X	X	X					MAY-JUN	MAY-MAY	JUL-SEP	-	
FISH:																			
RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
			-	-	-	-	-	-	-	-	-	-	-	-					
15	Rainbow smelt	HIGH				X	X								-	-	-	APR-MAY	-
25	Chinook salmon						X	X	X	X					-	-	-	MAY-JUN	MAY-AUG
	Chum salmon (dog)						X	X	X	X					-	-	-	MAY-JUN	JUN-AUG
	Coho salmon (silver)						X	X	X	X	X	X			-	-	-	MAY-JUN	JUL-OCT
	Dolly varden						X	X	X	X	X				-	-	-	MAY-JUN	MAY-SEP
	Pink salmon (humpy)						X	X	X						-	-	-	MAY-JUN	JUN-JUL
	Sockeye salmon (red)	HIGH					X	X	X	X					-	-	-	MAY-JUN	MAY-AUG
26	Alaska plaice		X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAY-JUN	MAY-JUN	JAN-DEC	JAN-DEC
	Pacific cod		X	X	X	X	X	X	X	X	X	X	X	X	JAN-MAY	-	-	JAN-DEC	JAN-DEC
	Pacific halibut						X	X	X						-	-	-	-	JUL-OCT
	Rainbow smelt		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Rock sole		X	X	X	X	X	X	X	X	X	X	X	X	JAN-MAR	-	-	JAN-DEC	DEC-SEP
	Sculpin		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Starry flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Walleye pollock		X	X	X	X	X	X	X	X	X	X	X	X	FEB-MAY	-	-	JAN-DEC	JAN-DEC
	Yellowfin sole		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	JUN-AUG	JUN-NOV	JAN-DEC	MAY-AUG
78	Rainbow trout (steelhead)		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
109	Chinook salmon		X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-SEP
	Chum salmon (dog)		X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Coho salmon (silver)																		

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

Bristol Bay: ESIMAP 6 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
-----		-	-	-----	-	-	-	-	-	-	-	-	-	-	-	-	-----	-----	-----	-----	-----
125	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	OCT-MAR	MAR-MAY	JAN-DEC	JUL-NOV
145	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-SEP
	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	OCT-MAR	MAR-MAY	JAN-DEC	JUL-NOV
	Pink salmon (humpy)				X	X	X	X	X	X	X	X	X	X	X	X	AUG-SEP	SEP-MAR	MAR-MAY	MAY-JUN	JUN-SEP

INVERTEBRATE:																									
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults				
26	Red king crab				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	-	-	JAN-DEC	JAN-DEC				
	Tanner crab				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	-	-	JAN-DEC	JAN-DEC				
77	Clams				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC				

MARINE MAMMAL:																				
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Molting	Pupping
-----		-----			-----												-----	-----	-----	-----
29	Bearded seal				X	X	X	X								X	-	-	-	MAR-APR
30	Gray whale							X	X	X							-	-	-	-
31	Harbor porpoise									X	X	X					-	-	-	-
	Killer whale						X	X	X	X	X	X	X	X			-	SEP-OCT	-	-
	Minke whale								X	X	X						-	-	-	-
57	Beluga whale			1,000S			X	X	X	X	X	X					-	JUN-AUG	-	-
67	Seals			HIGH		X	X	X	X	X	X	X	X	X			-	-	-	MAY-JUL
269	Seals			<10		X	X	X	X	X	X	X	X				-	-	-	MAY-JUL
270	Seals			10S		X	X	X	X	X	X	X	X				-	-	-	MAY-JUL

TERRESTRIAL MAMMAL:																
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
-----		-----			-----											
76	Brown bear			HIGH					X	X	X					

=====

HUMAN USE RESOURCES:

MANAGEMENT AREA:

HUN#	Name	Owner	Contact	Phone

18	NUSHAGAK & MULCHATNA REC. RIVERS MP			

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone

19	ALAGNAK WILD RIVER	NATIONAL PARK SERVICE		907/246-3305
22	KATMAI NATIONAL PARK & PRESERVE	NATIONAL PARK SERVICE		907/246-3305
23	KATMAI WILDERNESS AREA	NATIONAL PARK SERVICE		907/271-3751

WILDLIFE REFUGE:

HUN#	Name	Owner	Contact	Phone

24	ALASKA MARITIME NWR	US FISH & WILDLIFE SERVICE	REFUGE MANAGER	907/246-3339
26	BECHAROF NATIONAL WILDLIFE REFUGE	US FISH & WILDLIFE SERVICE	REFUGE MANAGER	907/246-3339

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