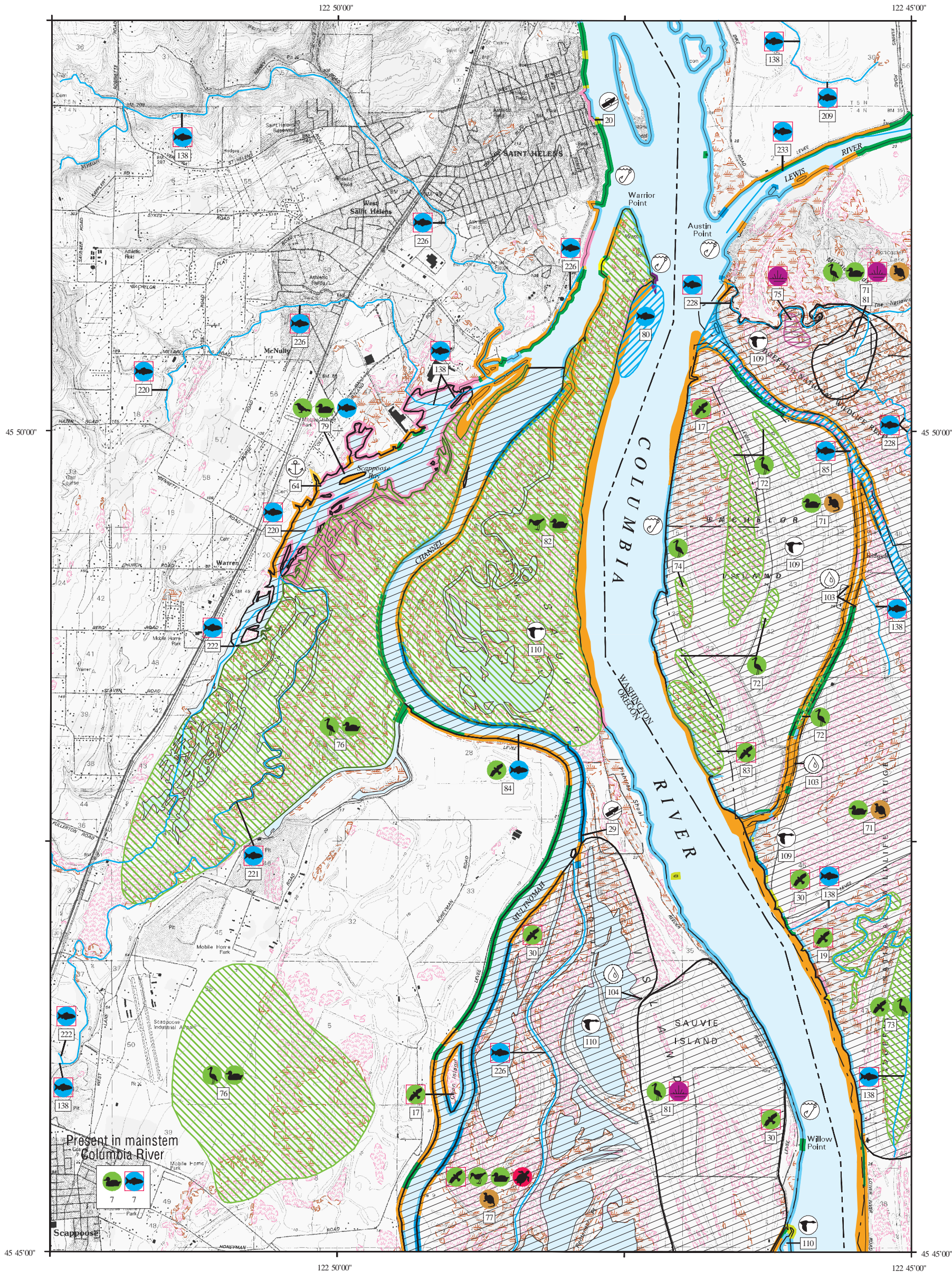


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

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

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Scale:
1:45000
1 KILOMETER
1 MILE

Columbia River: ESIMAP 18

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	ST	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
7	Canada goose					X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
	Common goldeneye					X	X									X	X	-	-	-
	Scaup					X	X	X	X	X				X	X	X	X	-	-	-
	Dabbling ducks					X	X	X	X					X	X	X	X	-	-	-
17	Bald eagle	T	T		1 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	-	-
19	Bald eagle	T	T		3 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	-	-
30	Bald eagle	T	T		2 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	-	-
71	Dusky Canada goose					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Geese				35000	X	X									X	X	-	-	-
	Greater white-fronted goose					X	X	X	X	X			X	X	X	X	X	-	-	-
	Tundra swan					X	X	X	X					X	X	X	X	-	-	-
	Ducks				50000	X	X									X	X	-	-	-
	Swans				3500	X	X	X	X	X				X	X	X	X	-	-	-
	Canada goose				HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
72	Sandhill crane				4200	X	X	X	X	X					X	X	X	-	-	-
73	Sandhill crane				HIGH	X	X	X	X	X					X	X	X	-	-	-
	Peregrine falcon					X	X	X							X	X	X	FEB-MAR	-	-
74	Great egret				2-5 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
	Great blue heron				500 PAIR	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
76	Sandhill crane				225	X	X	X	X						X	X	X	-	-	-
	Green-winged teal				150	X	X	X	X	X					X	X	X	-	-	-
	Ducks				600	X	X									X	X	-	-	-
	Canada goose				1300	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
77	Killdeer					X	X			X	X	X	X	X	X	X	X	-	-	-
	Trumpeter swan					X	X	X	X	X					X	X	X	-	-	-
	Tundra swan					X	X	X	X	X					X	X	X	-	-	-
	Waterfowl				250000	X	X									X	X	-	-	-
	Bald eagle	T	T			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shorebirds				15000			X	X	X					X	X	X	-	-	-
	Spotted sandpiper					X	X	X	X	X					X	X	X	-	-	-
79	Waterfowl				HIGH	X	X									X	X	-	-	-
	Purple martin							X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
81	Sandhill crane				PRESENT	X	X	X	X	X					X	X	X	-	-	-
82	Killdeer					X	X			X	X	X	X	X	X	X	X	-	-	-
	Geese					X	X									X	X	-	-	-
	Shorebirds				1000S			X	X	X					X	X	X	-	-	-
	Waterfowl					X	X									X	X	-	-	-
	Spotted sandpiper					X	X	X	X	X					X	X	X	-	-	-
83	Bald eagle	T	T		5 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	-	-
84	Osprey							X	X	X	X	X	X	X				MAR-SEP	-	-

FISH:

RAR#	Species	S	F	ST	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
7	Chinook salmon (summer)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	SEP-APR	-	MAR-SEP	JUN-NOV
	Sockeye salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	-	-	JAN-DEC	AUG-FEB
	White sturgeon					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Coastal Cutthroat trout	C		OR		X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAY	JAN-JUN	-	JAN-DEC	JAN-DEC
	Coho salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-MAR	-	JAN-DEC	AUG-JAN
	Chum salmon	*	*			X	X	X	X					X	X	X	X	NOV-DEC	DEC-MAR	-	FEB-MAY	OCT-DEC
	Chinook salmon (fall)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-DEC	OCT-FEB	-	FEB-NOV	AUG-DEC
	Chinook salmon (spring)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	AUG-SEP	SEP-DEC	-	JAN-DEC	JAN-SEP
	Steelhead (summer)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	JAN-JUN	-	JAN-DEC	MAR-OCT
	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
	Bull trout	C	T			X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-JAN	-	JAN-DEC	JAN-DEC
79	White crappie					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Smallmouth bass					X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Walleye					X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-	-	JAN-DEC
80	Salmon				HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-DEC	JAN-DEC	JAN-DEC
	White sturgeon				HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-MAY	-	-	-	JAN-DEC
84	Salmon					X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-DEC	JAN-DEC	JAN-DEC
85	Chum salmon	*	*			X	X	X	X	X				X	X	X	X	NOV-DEC	DEC-MAR	-	FEB-MAY	OCT-DEC
	Coho salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-MAR	-	JAN-DEC	AUG-JAN
	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
138	Coho salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-MAR	-	JAN-DEC	AUG-JAN
	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
209	Coho salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-MAR	-	JAN-DEC	AUG-JAN
220	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
221	Chinook salmon (fall)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-DEC	OCT-FEB	-	FEB-NOV	AUG-DEC
	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
222	Coho salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-MAR	-	JAN-DEC	AUG-JAN
	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
	Chinook salmon (fall)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-DEC	OCT-FEB	-	FEB-NOV	AUG-DEC
226	Coho salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-MAR	-	JAN-DEC	AUG-JAN
	Chinook salmon (fall)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-DEC	OCT-FEB	-	FEB-NOV	AUG-DEC
	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
	Chinook salmon (spring)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	AUG-SEP	SEP-DEC	-	JAN-DEC	JAN-SEP
228	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
	Chum salmon	*	*			X	X	X	X					X	X	X	X	NOV-DEC	DEC-MAR	-	FEB-MAY	OCT-DEC
	Coho salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-MAR	-	JAN-DEC	AUG-JAN
233	Chinook salmon (fall)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-DEC	OCT-FEB	-	FEB-NOV	AUG-DEC
	Steelhead (winter)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	DEC-JUN	-	JAN-DEC	NOV-MAR
	Chinook salmon (spring)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	AUG-SEP	SEP-DEC	-	JAN-DEC	JAN-SEP
	Chum salmon	*	*			X	X	X	X					X	X	X	X	NOV-DEC	DEC-MAR	-	FEB-MAY	OCT-DEC
	Coho salmon	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-JAN	OCT-MAR	-	JAN-DEC	AUG-JAN
	Smelt	C		OR		X	X	X	X	X							X	DEC-APR	JAN-MAR	-	JAN-MAY	DEC-APR

HABITAT:

RAR#	Species	S	F	ST	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
75	Water howellia	T	T	WA	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
81	Water howellia	T	T	WA	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X

REPTILE:

RAR#	Species	S	F	ST	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting	Juveniles	Adults
77	Western painted turtle					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-

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

Columbia River: ESIMAP 18 (cont.)

BIOLOGICAL RESOURCES: (cont.)

TERRESTRIAL MAMMAL:

RAR#	Species	S	F	ST	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
71	Northern river otter					X	X	X	X	X	X	X	X	X	X	X	X
	Beaver					X	X	X	X	X	X	X	X	X	X	X	X
	Muskrat					X	X	X	X	X	X	X	X	X	X	X	X
	Mink					X	X	X	X	X	X	X	X	X	X	X	X
77	Northern river otter				PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
	Beaver				PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
	Mink				PRESENT	X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

BOAT RAMP:

HUN#	Name	Contact	Phone
20	BOAT RAMP		
29	MULTNOMAH CHANNEL BOAT RAMP		

MARINA:

HUN#	Name	Contact	Phone
64	SCAPPOOSE BAY MARINA	MARINA MANAGER	503/397-2888

WATER INTAKE:

HUN#	Name	Contact	Phone
103	RIDGEFIELD NWR WATER INTAKES	REFUGE MANAGER	360/887-3883
104	SAUVIE ISLAND, ODFW	MARK NEBEKER	503/621-3488

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
109	RIDGEFIELD NWR	USFWS REFUGE MANAGER	360/887-4106
110	SAUVIE ISLAND WILDLIFE AREA	ODFW	503/621-3488

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.