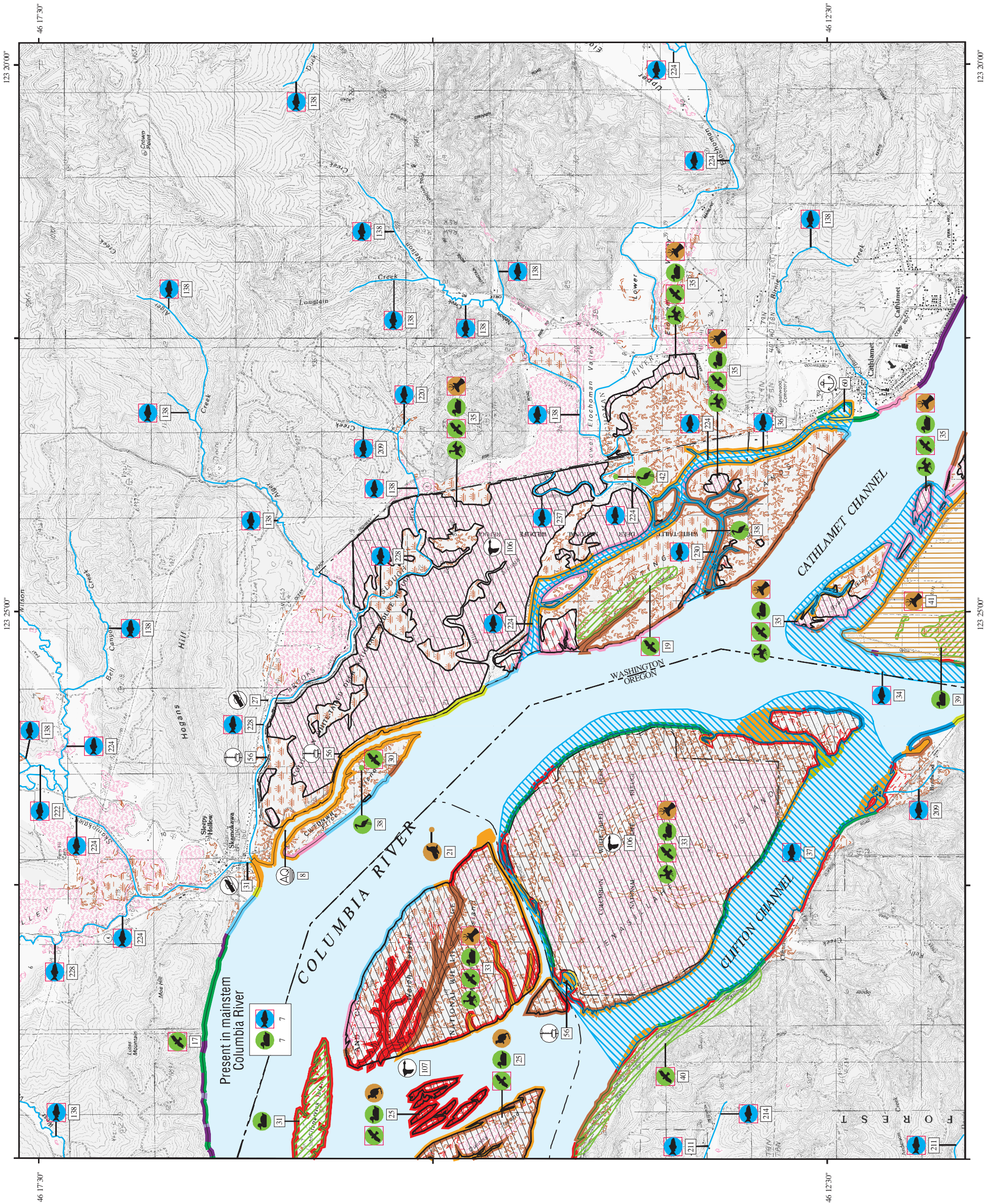
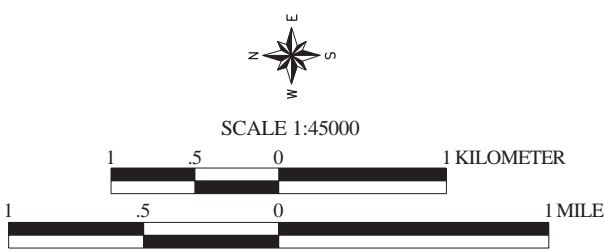


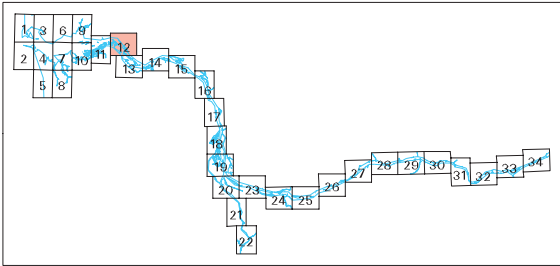
ENVIRONMENTAL SENSITIVITY INDEX MAP



- SHORELINE HABITATS (ESI)**
- 1A EXPOSED ROCKY SHORES
 - 1B EXPOSED, SOLID MAN-MADE STRUCTURES
 - 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
 - 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
 - 3B SCARPS AND STEEP SLOPES IN SAND
 - 4 COARSE-GRAINED SAND BEACHES
 - 5 MIXED SAND AND GRAVEL BEACHES
 - 6A GRAVEL BEACHES
 - 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
 - 10A SALT- AND BRACKISH- WATER MARSHES
 - 10B FRESHWATER MARSHES
 - 10C SWAMPS
 - 10D SCRUB-SHRUB WETLANDS



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Columbia River: ESIMAP 12

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	-	-
25	American wigeon				10000	X	X	X	X					X	X	X	X	-	-	-
	Bald eagle	T	T			X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Mallard				10000	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern pintail				10000	X	X									X	X	-	-	-
	Green-winged teal				10000	X	X	X	X					X	X	X	X	-	-	-
	Tundra swan				1000	X	X	X	X					X	X	X	X	-	-	-
	Canada goose					X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
	Bald eagle	T	T		2 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	-	-
31	Canada goose				10-25 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
33	American wigeon					X	X	X	X					X	X	X	X	-	-	-
	Bald eagle	T	T		9 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	-	-
	Loons					X	X	X	X					X	X	X	X	-	-	-
	Waterfowl					X	X									X	X	-	-	-
	Dabbling ducks				HIGH	X	X	X	X	X				X	X	X	X	-	-	-
	Tundra swan					X	X									X	X	-	-	-
	Mallard					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern pintail					X	X									X	X	-	-	-
	Canada goose				HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
35	American wigeon					X	X	X	X					X	X	X	X	-	-	-
	Bald eagle	T	T			X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	-	-
	Loons					X	X	X	X					X	X	X	X	-	-	-
	Waterfowl				HIGH	X	X									X	X	-	-	-
	Dabbling ducks					X	X	X	X					X	X	X	X	-	-	-
	Tundra swan					X	X									X	X	-	-	-
	Mallard					X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Northern pintail					X	X									X	X	-	-	-
	Canada goose					X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
38	Great blue heron				50 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
39	Waterfowl					X	X									X	X	-	-	-
	Canada goose				200	X	X	X	X	X	X	X	X	X	X	X	X	MAY-SEP	-	-
40	Bald eagle	T	T		7 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	-	-
42	Great blue heron				10 PAIRS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-

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	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
34	Smelt	C		OR	HIGH	X	X	X	X	X						X		DEC-APR	JAN-MAR	-	JAN-MAY	DEC-APR
36	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
	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
	Steelhead (summer)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	JAN-JUN	-	JAN-DEC	MAR-OCT
37	Smelt	C		OR		X	X	X	X	X						X		DEC-APR	JAN-MAR	-	JAN-MAY	DEC-APR
	Chinook salmon (spring)	*	*		HIGH		X	X	X									-	-	-	-	MAR-MAY
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
211	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
214	Chum salmon	*	*			X	X	X	X	X				X	X	X	X	NOV-DEC	DEC-MAR	-	FEB-MAY	OCT-DEC
220	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
224	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
	Chinook salmon (fall)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	OCT-DEC	OCT-FEB	-	FEB-NOV	AUG-DEC
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
230	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
	Chum salmon	*	*			X	X	X	X					X	X	X	X	NOV-DEC	DEC-MAR	-	FEB-MAY	OCT-DEC
237	Chum salmon	*	*			X	X	X	X					X	X	X	X	NOV-DEC	DEC-MAR	-	FEB-MAY	OCT-DEC
	Chinook salmon (summer)	*	*			X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	SEP-APR	-	MAR-SEP	JUN-NOV

MARINE MAMMAL:

RAR#	Species	S	F	ST	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
21	Harbor seal				50-100	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUL	-

TERRESTRIAL MAMMAL:

RAR#	Species	S	F	ST	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
25	Mink					X	X	X	X	X	X	X	X	X	X	X	X
	Northern river otter					X	X	X	X	X	X	X	X	X	X	X	X
33	Columbian white-tailed deer	E	E	WA	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
35	Columbian white-tailed deer	E	E	WA	PRESENT	X	X	X	X	X	X	X	X	X	X	X	X
41	Columbian white-tailed deer	E	E	WA	200	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 12 (cont.)

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone
8	STEAMBOAT SLOUGH SALMON NET PENS	MARK MILLER, WDFW	360/906-6719

BOAT RAMP:

HUN#	Name	Contact	Phone
27	BROOKS SLOUGH BOAT RAMP	PARK RANGER	360/795-8605
31	SKAMOKAWA VISTA PARK		

LOCK AND DAM:

HUN#	Name	Contact	Phone
56	JULIA BUTLER HANSEN NWR TIDE GATE	REFUGE MANGER	360/795-3915

MARINA:

HUN#	Name	Contact	Phone
60	ELOCHMAN SLOUGH MARINA	MANAGER	360/795-3501

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
106	JULIA BUTLER HANSEN NWR	USFWS	360/795-3915
107	LEWIS AND CLARK NWR	USFWS	360/484-3482

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