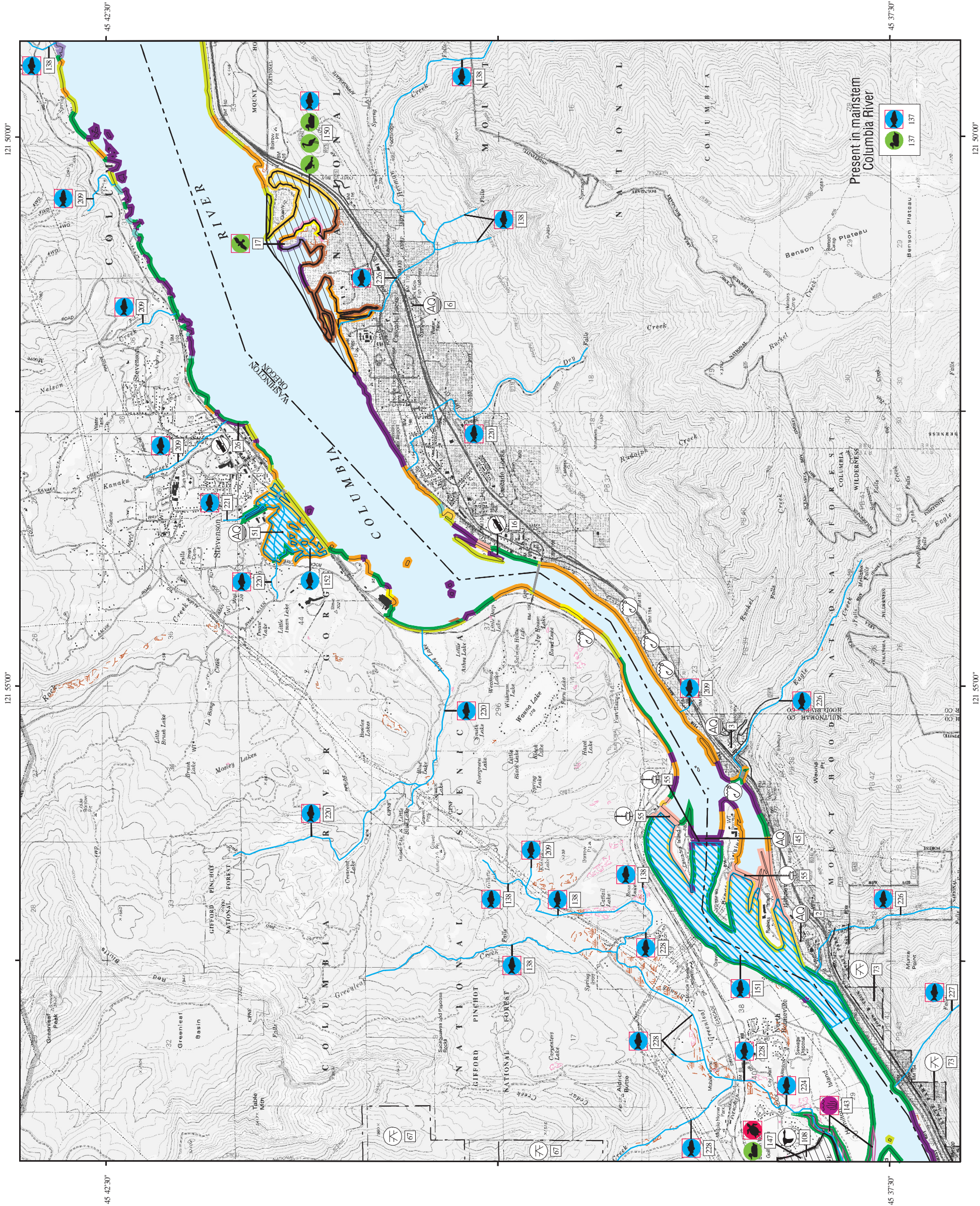
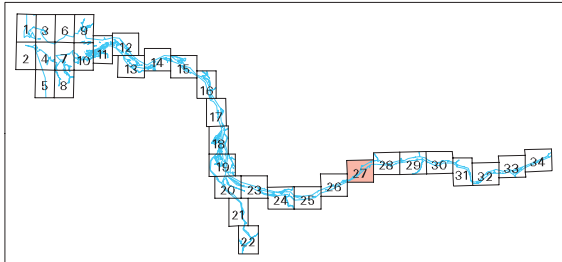
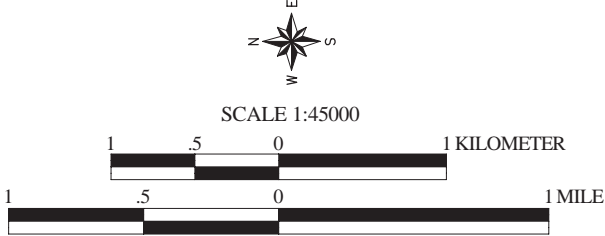


ENVIRONMENTAL SENSITIVITY INDEX MAP



- 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



Not For Navigation
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National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division

Columbia River: ESIMAP 27

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S | F | ST | Conc. | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Migrating | Molting |
|------|------------------|---|---|----|---------|---|---|---|---|---|---|---|---|---|---|---|---|---------|-----------|---------|
| 17 | Bald eagle | T | T | | 1 PAIR | X | X | X | X | X | X | X | X | X | X | X | X | JAN-AUG | - | - |
| 137 | Canada goose | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-SEP | - | - |
| | Scaup | | | | | X | X | X | X | X | | | | X | X | X | X | - | - | - |
| | Common goldeneye | | | | | X | X | | | | | | | | X | X | | - | - | - |
| | Dabbling ducks | | | | | X | X | X | X | X | | | X | X | X | X | | - | - | - |
| 147 | Waterfowl | | | | HIGH | X | X | | | | | | | | X | X | | - | - | - |
| 150 | Waterfowl | | | | HIGH | X | X | | | | | | | | X | X | | - | - | - |
| | Wading birds | | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | Wood duck | | | | | X | X | | | | | | | X | X | X | | - | - | - |
| | Purple martin | | | | PRESENT | | | X | X | X | X | X | X | X | X | | | MAY-SEP | - | - |
| | Canada goose | | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | MAY-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 |
|------|-------------------------|---|---|----|-------|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------|--------|-----------|---------|
| 137 | Chinook salmon (fall) | * | * | | | X | X | X | X | X | X | X | X | X | X | X | X | OCT-DEC | OCT-FEB | - | FEB-NOV | AUG-DEC |
| | Steelhead (summer) | * | * | | | X | X | X | X | X | X | X | X | X | X | X | X | JAN-JUN | JAN-JUN | - | JAN-DEC | MAR-OCT |
| | Bull trout | C | T | | | X | X | X | X | X | X | X | X | X | X | X | X | SEP-OCT | SEP-JAN | - | JAN-DEC | JAN-DEC |
| | White sturgeon | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY | - | - | - | 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 (spring) | * | * | | | X | X | X | X | X | X | X | X | X | X | X | X | AUG-SEP | SEP-DEC | - | JAN-DEC | JAN-SEP |
| | Steelhead (winter) | * | * | | | X | X | X | X | X | X | X | X | X | X | X | X | DEC-MAR | DEC-JUN | - | JAN-DEC | NOV-MAR |
| | Chinook salmon (summer) | * | * | | | X | X | X | X | X | X | X | X | X | X | X | X | SEP-NOV | SEP-APR | - | MAR-SEP | JUN-NOV |
| | 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 |
| | Sockeye salmon | * | * | | | X | X | X | X | X | X | X | X | X | X | X | X | SEP-OCT | - | - | JAN-DEC | AUG-FEB |
| 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 |
| 150 | Smallmouth bass | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-JUN | - | - | - | JAN-DEC |
| | Chinook salmon (fall) | * | * | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | JAN-DEC | - |
| | Walleye | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-MAY | - | - | - | JAN-DEC |
| | White sturgeon | | | | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | APR-MAY | - | - | - | JAN-DEC |
| 151 | Pacific lamprey | C | | OR | HIGH | X | X | X | X | X | X | X | X | X | X | X | X | FEB-MAY | - | - | JAN-DEC | MAR-SEP |
| 152 | Smallmouth bass | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAY-JUN | - | - | - | JAN-DEC |
| | White crappie | | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | JAN-DEC |
| | Common carp | | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | JAN-DEC |
| 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 |
| 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 | 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 |
| 226 | Chinook salmon (fall) | * | * | | | X | X | X | X | X | X | X | X | X | X | X | X | OCT-DEC | OCT-FEB | - | FEB-NOV | AUG-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 |
| | 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 |
| 227 | 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 |
| | Coho salmon | * | * | | | X | X | X | X | X | X | X | X | X | X | X | X | OCT-JAN | OCT-MAR | - | JAN-DEC | AUG-JAN |
| 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 | 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 |

HABITAT:

| RAR# | Species | S | F | ST | Conc. | J | F | M | A | M | J | J | A | S | O | N | D |
|------|----------------------|---|---|----|---------|---|---|---|---|---|---|---|---|---|---|---|---|
| 143 | Columbia yellowcress | 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 |
|------|---------------------|---|---|----|---------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|--------------|-----------|--------|
| 147 | Western pond turtle | E | C | WA | PRESENT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |
| | Western pond turtle | C | C | OR | PRESENT | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - | - |

HUMAN USE RESOURCES:

AQUACULTURE:

| HUN# | Name | Contact | Phone |
|------|----------------------------|---------|--------------|
| 2 | BONNEVILLE SALMON HATCHERY | ODFW | 503/947-6000 |
| 3 | CASCADE SALMON HATCHERY | ODFW | 503/947-6000 |
| 6 | OXBOW FISH HATCHERY | ODFW | 503/947-6000 |

BOAT RAMP:

| HUN# | Name | Contact | Phone |
|------|-----------|---------|-------|
| 16 | BOAT RAMP | | |
| 26 | BOAT RAMP | | |

HATCHERY:

| HUN# | Name | Contact | Phone |
|------|-------------------------|---------|-------|
| 45 | FISH WAY (DAM) | | |
| 51 | ROCK CREEK PENS (USFWS) | USFWS | |

LOCK AND DAM:

| HUN# | Name | Contact | Phone |
|------|--------------|---------|-------|
| 55 | LOCK AND DAM | | |

PARK:

| HUN# | Name | Contact | Phone |
|------|-------------------------|------------------------|--------------|
| 67 | BEACON ROCK STATE PARK | WASHINGTON STATE PARKS | 360/902-8844 |
| 73 | JOHN B. YEON STATE PARK | OREGON STATE PARKS | 503/986-0733 |

WILDLIFE REFUGE:

| HUN# | Name | Contact | Phone |
|------|------------|----------------------|--------------|
| 108 | PIERCE NWR | USFWS REFUGE MANAGER | 360/887-4106 |

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.