

Appendix B. Letters Concerning Threatened & Endangered Species



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Oregon Fish and Wildlife Office

2600 SE 98th Avenue, Suite 100

Portland, Oregon 97266

Phone: (503) 231-6179 FAX: (503) 231-6195

Reply To: 8330.SP12(05)
File Name: Sp0100.wpd
TS Number: 05-604

DEC 27 2004

Barry Bai
Oregon Department of Agriculture
635 Capitol Street NE
Salem, Oregon 97301-2532

Subject: Eagle Creek Project
USFWS Reference # 1-7-05-SP-0100

Dear Dr. Bai:

This is in response to your letter, dated November 30, 2004, requesting information on listed and proposed endangered and threatened species that may be present within the area of the Eagle Creek Project in Clackamas County. The Fish and Wildlife Service (Service) received your correspondence on December 6, 2004.

We have attached a list (Enclosure A) of threatened and endangered species that may occur within the area of the Eagle Creek Project. The list fulfills the requirement of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Oregon Department of Agriculture (ODA) requirements under the Act are outlined in Enclosure B.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems on which they depend may be conserved. Under section 7(a)(1) and 7(a)(2) of the Act and pursuant to 50 CFR 402 *et seq.*, ODA is required to utilize their authorities to carry out programs which further species conservation and to determine whether projects may affect threatened and endangered species, and/or critical habitat. A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) which are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA) (42 U.S.C. 4332 (2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to the Biological Assessment be prepared to determine whether they may affect listed and proposed species. Recommended contents of a Biological Assessment are described in Enclosure B, as well as 50 CFR 402.12.

If ODA determines, based on the Biological Assessment or evaluation, that threatened and endangered species and/or critical habitat may be affected by the project, ODA is required to consult with the Service following the requirements of 50 CFR 402 which implement the Act.

Enclosure A includes a list of candidate species under review for listing. The list reflects changes to the candidate species list published May 4, 2004, in the Federal Register (Vol. 69, No. 86, 24876) and the addition of "species of concern." Candidate species have no protection under the Act but are included for consideration as it is possible candidates could be listed prior to project completion. Species of concern are those taxa whose conservation status is of concern to the Service (many previously known as Category 2 candidates), but for which further information is still needed.

If a proposed project may affect only candidate species or species of concern, ODA is not required to perform a Biological Assessment or evaluation or consult with the Service. However, the Service recommends addressing potential impacts to these species in order to prevent future conflicts. Therefore, if early evaluation of the project indicates that it is likely to adversely impact a candidate species or species of concern, ODA may wish to request technical assistance from this office.

Your interest in endangered species is appreciated. The Service encourages ODA to investigate opportunities for incorporating conservation of threatened and endangered species into project planning processes as a means of complying with the Act. If you have questions regarding your responsibilities under the Act, please contact Kevin Maurice or Corissa Larvik at (503) 231-6179. All correspondence should include the above referenced file number. For questions regarding salmon and steelhead trout, please contact NOAA Fisheries Service, 525 NE Oregon Street, Suite 500, Portland, Oregon 97232, (503) 230-5400.

Sincerely,



for Kemper M. McMaster
State Supervisor

Enclosures
1-7-05-SP-0100

cc electronic:
Nongame, Oregon Department of Fish and Wildlife, Salem, Oregon.

FEDERALLY LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES,
 CANDIDATE SPECIES AND SPECIES OF CONCERN THAT MAY OCCUR WITHIN THE
 AREA OF THE EAGLE CREEK PROJECT
 1-7-05-SP-0100

LISTED SPECIES^{1/}Birds

Bald eagle^{3/} *Haliaeetus leucocephalus* T

Fish

Steelhead (Lower Columbia River)^{7/} *Oncorhynchus mykiss* **T

Chinook salmon (Lower Columbia River)^{8/} *Oncorhynchus tshawytscha* **T

Chinook salmon (Upper Willamette River)^{8/} *Oncorhynchus tshawytscha* **T

Plants

Golden Indian paintbrush^{10/} *Castilleja levisecta* T

Willamette daisy^{11/} *Erigeron decumbens* var. *decumbens* E

Howellia *Howellia aquatilis* T

Bradshaw's lomatium *Lomatium bradshawii* E

Kincaid's lupine^{11/} *Lupinus sulphureus* var. *kincaidii* T

Nelson's checker-mallow *Sidalcea nelsoniana* T

PROPOSED SPECIES

None

CANDIDATE SPECIES^{12/}Mammals

Fisher^{13/} *Martes pennanti*

Amphibians and Reptiles

Oregon spotted frog *Rana pretiosa*

Fish

Coho salmon (Lower Columbia River)^{15/} *Oncorhynchus kisutch* **CF

SPECIES OF CONCERNMammals

Red tree vole *Arborimus longicaudus*

Pacific western big-eared bat *Corynorhinus townsendii townsendii*

Silver-haired bat *Lasiorycteris noctivagans*

Long-eared myotis (bat) *Myotis evotis*

Fringed myotis (bat) *Myotis thysanodes*

Long-legged myotis (bat) *Myotis volans*

Yuma myotis (bat) *Myotis yumanensis*

Camas pocket gopher *Thomomys bulbivorus*

Birds

Band-tailed pigeon
Olive-sided flycatcher
Yellow-breasted chat
Mountain quail
Oregon vesper sparrow
Purple martin

Columba fasciata
Contopus cooperi borealis
Icteria virens
Oreortyx pictus
Pooecetes gramineus affinis
Progne subis

Amphibians and Reptiles

Tailed frog
Oregon slender salamander
Northwestern pond turtle
Northern red-legged frog

Ascaphus truei
Batrachoseps wrighti
Emys marmorata marmorata
Rana aurora aurora

Fish

Pacific lamprey

Lampetra tridentata

Plants

White top aster
Pale larkspur
Peacock larkspur
Thin-leaved peavine

Aster curtus
Delphinium leucophaeum
Delphinium pavonaceum
Lathyrus holochlorus

(E) - Listed Endangered

(T) - Listed Threatened

(CH) - Critical Habitat has been designated for this species

(PE) - Proposed Endangered

(PT) - Proposed Threatened

(PCH) - Critical Habitat has been proposed for this species

(S) - Suspected

(D) - Documented

Species of Concern - Taxa whose conservation status is of concern to the Service (many previously known as Category 2 candidates), but for which further information is still needed.

(CF) - Candidate: National Marine Fisheries Service designation for any species being considered by the Secretary for listing for endangered or threatened species, but not yet the subject of a proposed rule.

** Consultation with National Marine Fisheries Service may be required.

^{1/} U. S. Department of Interior, Fish and Wildlife Service, October 31, 2000, Endangered and Threatened Wildlife and Plants, 50 CFR 17.11 and 17.12

^{2/} Federal Register Vol. 60, No. 133, July 12, 1995 - Final Rule - Bald Eagle

^{3/} Federal Register Vol. 63, No. 53, March 19, 1998, Final Rule-West Coast Steelhead

^{4/} Federal Register Vol. 64, No. 56, March 24, 1999, Final Rule - West Coast Chinook Salmon

^{10/} Federal Register Vol. 62, No. 112, June 11, 1997, Final Rule-Castilleja levisecta

^{11/} Federal Register Vol. 65, No. 16, January 25, 2000, Final Rule-Erigeron decumbens var. decumbens, Lupinus sulphureus ssp. kincaidii and Fender's blue butterfly

^{12/} Federal Register Vol. 69, No. 86, May 4, 2004, Notice of Review - Candidate or Proposed Animals and Plants

^{13/} Federal Register Vol. 62, No. 87, May 6, 1997, Final Rule-Coho Salmon

ATTACHMENT B

FEDERAL AGENCIES RESPONSIBILITIES UNDER SECTION 7(a) and (c)
OF THE ENDANGERED SPECIES ACT

SECTION 7(a)-Consultation/Conference

Requires:

- 1) Federal agencies to utilize their authorities to carry out programs to conserve endangered and threatened species;
- 2) Consultation with FWS when a Federal action may affect a listed endangered or threatened species to insure that any action authorized, funded or carried out by a Federal agency is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of Critical Habitat. The process is initiated by the Federal agency after they have determined if their action may affect (adversely or beneficially) a listed species; and
- 3) Conference with FWS when a Federal action is likely to jeopardize the continued existence of a proposed species or result in destruction or adverse modification of proposed Critical Habitat.

SECTION 7(c)-Biological Assessment for Major Construction Projects¹

Requires Federal agencies or their designees to prepare a Biological Assessment (BA) for construction projects only. The purpose of the BA is to identify proposed and/or listed species which are/is likely to be affected by a construction project. The process is initiated by a Federal agency in requesting a list of proposed and listed threatened and endangered species (list attached). The BA should be completed within 180 days after its initiation (or within such a time period as is mutually agreeable). If the BA is not initiated within 90 days of receipt of the species list, the accuracy of the species list should be informally verified with our Service. No irreversible commitment of resources is to be made during the BA process which would foreclose reasonable and prudent alternatives to protect endangered species. Planning, design, and administrative actions may be taken; however, no construction may begin.

To complete the BA, your agency or its designee should: (1) conduct an on-site inspection of the area to be affected by the proposal which may include a detailed survey of the area to determine if the species is present and whether suitable habitat exists for either expanding the existing population or for potential reintroduction of the species; (2) review literature and scientific data to determine species distribution, habitat needs, and other biological requirements; (3) interview experts including those within FWS, National Marine Fisheries Service, State conservation departments, universities, and others who may have data not yet published in scientific literature; (4) review and analyze the effects of the proposal on the species in terms of individuals and populations, including consideration of cumulative effects of the proposal on the species and its habitat; (5) analyze alternative actions that may provide conservation measures and (6) prepare a report documenting the results, including a discussion of study methods used, any problems encountered, and other relevant information. The BA should conclude whether or not a listed species will be affected. Upon completion, the report should be forwarded to our Portland Office.

¹A construction project (or other undertaking having similar physical impacts) which is a major Federal action significantly affecting the quality of the human environment as referred to in NEPA (42 U.S.C. 4332. (2)c). On projects other than construction, it is suggested that a biological evaluation similar to the biological assessment be undertaken to conserve species influenced by the Endangered Species Act.

OREGON NATURAL HERITAGE INFORMATION CENTER

Institute for Natural Resources



OREGON STATE UNIVERSITY
1322 SE Morrison Street
Portland, Oregon 97214-2423

January 13, 2005

Barry Bai
Oregon Department of Agriculture
635 Capitol Street NE
Salem, OR 97301-2532

Dear Dr. Bai:

Thank you for requesting information from the Oregon Natural Heritage Information Center (ORNHIC). We have conducted a data system search for rare, threatened and endangered plant and animal records for your Eagle Creek Gypsy Moth Project in Township 2 South, Range 3 East, Section 36, and Township 2 South, Range 4 East, Section 31, W.M.

Fifteen (15) records were noted within a two-mile radius of your project and are included on the enclosed computer printout. A key to the fields is also included.

Please remember that the lack of rare element information from a given area does not mean that there are no significant elements there, only that there is no information known to us from the site. To assure that there are no important elements present, you should inventory the site, at the appropriate season.

This data is confidential and for the specific purposes of your project and is **not to be distributed**.

If you need additional information or have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Cliff Alton', with a long horizontal flourish extending to the right.

Cliff Alton
Conservation Information Assistant

encl.: invoice (H-011305-CWA2)
computer printout and data key

Scientific Name: *Haliaeetus leucocephalus*Common Name: **Bald eagle**

Federal Status: LT

GRANK: G4

NHP List: 4

Category: Vertebrate Animal

State Status: LT

SRANK: S4B,S4N

HP Track: Y

ELCODE: ABNKC10010

EO ID: 26014

First Obs: 2000

Last Obs: 2003

Confirmed:

Directions: Goose Creek

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas	WV	Point [Areal - Estimated (50 m)]
<u>Town-Range</u> <u>Sec</u> <u>Note</u>	<u>QuadCode</u> <u>QuadName</u>	<u>Watershed</u>
002S003E 25	45122-C4 Redland	1709001106 - ROARING RIVER
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
Private	Private	

EO Type:

Minimum Elev.(m): 76

Annual Observations

EO Data: See annual observations.

- 2003 - 2 fledged
- 2002 - breeding failure
- 2001 - 2 fledged
- 2000 - 2 fledged

EO Comments:

Protection:

Management:

General: Isaacs and Anthony nest 995, 1003, and 1077. 2001: Nest 995 no longer exists.

Scientific Name: *Oncorhynchus kisutch pop. 1*Common Name: **Coho salmon (Lower Columbia River/SW Washington Coast ESU)**

Federal Status: C

GRANK: G4T2Q

NHP List: 1

Category: Vertebrate Animal

State Status: LE

SRANK: S2

HP Track: Y

ELCODE: AFCHA02031

EO ID: 920

First Obs:

Last Obs: 1999-PRE

Confirmed:

Directions: EAGLE CREEK & TRIBUTARIES

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas	WC WV	Data currently not available.
<u>Town-Range</u> <u>Sec</u> <u>Note</u>	<u>QuadCode</u> <u>QuadName</u>	<u>Watershed</u>
	45122-C1 Salmon	17090011 - Clackamas
	45122-C2 Cherryville	
	45122-C3 Estacada	
	45122-C4 Redland	
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
FEDERAL AND PRIVATE		CLACKAMAS RANGER DISTRICT ESTACADA RANGER DISTRICT

EO Type: SPAWNING & REARING - fish

Minimum Elev.(m):

Annual Observations

EO Data: 1991-1992; ESTIMATED ABUNDANCE BY ODFW OF EARLY AND LATE RUN COHO (MIXED HATCHERY & WILD) PASSING NORTH FORK CLACKAMAS DAM WAS 3,118 ADULTS. THE PREVIOUS YEAR THIS ESTIMATE WAS 686 COHO. 1990; ODFW CONDUCTED SPAWNING SURVEYS ON 2.1 MILES OF DEEP CREEK, 1.4 MILES OF TICKLE CREEK AND 0.4 MILES OF EAGLE CREEK AND OBSERVED 4, 1, AND 18 ADULTS RESPECTIVELY. ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE.

EO Comments:

Protection:

Management:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF COHO IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT. FISH HATCHERIES ARE LOCATED ON EAGLE CREEK AND DELPH CREEK.

Scientific Name: ***Oncorhynchus kisutch pop. 1***Common Name: **Coho salmon (Lower Columbia River/SW Washington Coast ESU)**

Federal Status: C

GRANK: G4T2Q

NHP List: 1

Category: Vertebrate Animal

State Status: LE

SRANK: S2

HP Track: Y

ELCODE: AFCHA02031

EO ID: 2483

First Obs:

Last Obs: 1999-PRE

Confirmed:

Directions: DEEP CREEK AND TRIBUTARIES

County Name

Clackamas

Ecoregion

WC

WV

Source Feature [Uncertainty Type (Distance)]

Data currently not available.

Town-Range Sec NoteQuadCodeQuadNameWatershed

45122-C3 Estacada

1709001106 - ROARING RIVER

45122-D3 Sandy

45122-D4 Damascus

Owner Name/Type

FEDERAL AND PRIVATE

Owner CommentsManaged Area Name

CLACKAMAS RANGER DISTRICT

ESTACADA RANGER DISTRICT

EO Type: SPAWNING & REARING - fish Minimum Elev.(m):

EO Data: 1991-1992; ESTIMATED ABUNDANCE BY ODFW OF EARLY AND LATE RUN COHO (MIXED HATCHERY & WILD) PASSING NORTH FORK CLACKAMAS DAM WAS 3,118 ADULTS. THE PREVIOUS YEAR THIS ESTIMATE WAS 686 COHO. 1990; ODFW CONDUCTED SPAWNING SURVEYS ON 2.1 MILES OF DEEP CREEK, 1.4 MILES OF TICKLE CREEK AND 0.4 MILES OF EAGLE CREEK AND OBSERVED 4, 1, AND 18 ADULTS RESPECTIVELY. ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE.

Annual Observations

EO Comments:

Protection:

Management:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF COHO IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.

Scientific Name: ***Oncorhynchus kisutch pop. 1***Common Name: **Coho salmon (Lower Columbia River/SW Washington Coast ESU)**

Federal Status: C

GRANK: G4T2Q

NHP List: 1

Category: Vertebrate Animal

State Status: LE

SRANK: S2

HP Track: Y

ELCODE: AFCHA02031

EO ID: 4112

First Obs:

Last Obs: 1999-PRE

Confirmed:

Directions: CLACKAMAS RIVER

County Name

Clackamas

EcoregionSource Feature [Uncertainty Type (Distance)]

Data currently not available.

Town-Range Sec NoteQuadCodeQuadNameWatershed

45122-C3 Estacada

17090011 - Clackamas

45122-C4 Redland

45122-C5 Oregon City

45122-D4 Damascus

45122-D5 Gladstone

Owner Name/TypeOwner CommentsManaged Area Name

EO Type: MIGRATION - fish Minimum Elev.(m):

EO Data: ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE

Annual Observations

EO Comments:

Protection:

Management:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF COHO IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.

Scientific Name: ***Oncorhynchus kisutch pop. 1***

Common Name: **Coho salmon (Lower Columbia River/SW Washington Coast ESU)**

Federal Status: C GRANK: G4T2Q NHP List: 1 Category: Vertebrate Animal

State Status: LE SRANK: S2 HP Track: Y ELCODE: AFCHA02031

EO ID: 5636 First Obs: Last Obs: 1999-PRE Confirmed:

Directions: GOOSE CREEK

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas		Data currently not available.

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
			45122-C3	Estacada	1709001106 - ROARING RIVER
			45122-C4	Redland	

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
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EO Type: SPAWNING & REARING - fish Minimum Elev.(m): Annual Observations

EO Data: ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE

EO Comments:

Protection:

Management:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF COHO IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.

Scientific Name: ***Oncorhynchus kisutch pop. 1***

Common Name: **Coho salmon (Lower Columbia River/SW Washington Coast ESU)**

Federal Status: C GRANK: G4T2Q NHP List: 1 Category: Vertebrate Animal

State Status: LE SRANK: S2 HP Track: Y ELCODE: AFCHA02031

EO ID: 13341 First Obs: Last Obs: 1999-PRE Confirmed:

Directions: CLEAR CREEK & TRIBUTARIES

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas		Data currently not available.

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
			45122-B3	Elwood	1709001106 - ROARING RIVER
			45122-C3	Estacada	
			45122-C4	Redland	
			45122-D4	Damascus	

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
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EO Type: SPAWNING & REARING - fish Minimum Elev.(m): Annual Observations

EO Data: ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE

EO Comments:

Protection:

Management:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF COHO IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.

Scientific Name: ***Oncorhynchus kisutch pop. 1***

Common Name: **Coho salmon (Lower Columbia River/SW Washington Coast ESU)**

Federal Status: C GRANK: G4T2Q NHP List: 1 Category: Vertebrate Animal

State Status: LE	SRANK: S2	HP Track: Y	ELCODE: AFCHA02031
EO ID: 17489	First Obs:	Last Obs: 1999-PRE	Confirmed:
Directions: FOSTER CREEK			
<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>	
Clackamas		Data currently not available.	
<u>Town-Range</u> <u>Sec</u> <u>Note</u>	<u>QuadCode</u> <u>QuadName</u>	<u>Watershed</u>	
	45122-C4 Redland	1709001106 - ROARING RIVER	
	45122-D4 Damascus		
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>	
EO Type: SPAWNING & REARING - fish	Minimum Elev.(m):	<u>Annual Observations</u>	
EO Data: ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE			
EO Comments:			
Protection:			
Management:			
General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF COHO IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.			

Scientific Name: <i>Oncorhynchus tshawytscha pop. 23</i>			
Common Name: Chinook salmon (Upper Willamette River ESU, spring run)			
Federal Status: LT	GRANK: G5T2Q	NHP List: 1	Category: Vertebrate Animal
State Status:	SRANK: S2	HP Track: Y	ELCODE: AFCHA02052
EO ID: 411	First Obs:	Last Obs: 1999-PRE	Confirmed:
Directions: CLACKAMAS RIVER			
<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>	
Clackamas		Data currently not available.	
<u>Town-Range</u> <u>Sec</u> <u>Note</u>	<u>QuadCode</u> <u>QuadName</u>	<u>Watershed</u>	
	45122-C4 Redland	17090011 - Clackamas	
	45122-C5 Oregon City		
	45122-D4 Damascus		
	45122-D5 Gladstone		
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>	
EO Type: REARING & MIGRATION - fish	Minimum Elev.(m):	<u>Annual Observations</u>	
EO Data: SPRING RUN; ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE.			
EO Comments:			
Protection:			
Management:			
General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 2001. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF CHINOOK IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.			

Scientific Name: <i>Oncorhynchus tshawytscha pop. 23</i>			
Common Name: Chinook salmon (Upper Willamette River ESU, spring run)			
Federal Status: LT	GRANK: G5T2Q	NHP List: 1	Category: Vertebrate Animal
State Status:	SRANK: S2	HP Track: Y	ELCODE: AFCHA02052
EO ID: 12652	First Obs:	Last Obs: 1999-PRE	Confirmed:
Directions: CLACKAMAS RIVER & TRIBUTARIES			
<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>	
Clackamas		Data currently not available.	

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
			44121-H7	Pinhead Buttes	17090011 - Clackamas
			44121-H8	Mount Lowe	
			44122-H1	Bull of the Woods	
			44122-H2	Bagby Hot Spring	
			45121-A8	Mount Mitchell	
			45122-A1	Fish Creek Mountain	
			45122-A2	Wanderers Peak	
			45122-B1	Three Lynx	
			45122-B2	Bedford Point	
			45122-B3	Elwood	
			45122-C2	Cherryville	
			45122-C3	Estacada	
			45122-C4	Redland	

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
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EO Type: SPAWNING & REARING - fish Minimum Elev.(m): Annual Observations

EO Data: SPRING RUN. ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE. ODFW SALMONID DISTRIBUTION DOCUMENTATION 1998: CLACKAMAS RIVER, S. FK. CLACKAMAS RIVER, COLLAWASH RIVER, ROARING RIVER, FISH CREEK. 1997: N. FK. CLACKAMAS RIVER, HOT SPRINGS FK. COLLAWASH RIVER, PINHEAD CREEK. 1955: CLACKAMAS RIVER. 1940: CLACKAMAS RIVER.

EO Comments:

Protection:

Management:

General: DOCUMENTATION INFORMATION USED IN THIS EOR WAS DERIVED FROM THE ODFW SALMONID DISTRIBUTION DOCUMENTATION DIGITAL DATABASE DISTRIBUTED IN 2001. DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 2001. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF CHINOOK IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT. CLACKAMAS HATCHERY IS LOCATED ON THE CLACKAMAS RIVER NEAR MCIVER STATE PARK. EAGLE CREEK FISH HATCHERY IS LOCATED ON EAGLE CREEK. DELPH CREEK HATCHERY IS LOCATED ON A TRIBUTARY OF EAGLE CREEK.

Scientific Name: ***Oncorhynchus tshawytscha pop. 22***

Common Name: **Chinook salmon (Lower Columbia River ESU, fall run)**

Federal Status: LT GRANK: G5T2Q NHP List: 1 Category: Vertebrate Animal

State Status: SC SRANK: S2 HP Track: Y ELCODE: AFCHA0205Y

EO ID: 7122 First Obs: Last Obs: 1999-PRE Confirmed:

Directions: CLACKAMAS RIVER & TRIBUTARIES

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas		Data currently not available.

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
			45122-C3	Estacada	17090011 - Clackamas
			45122-C4	Redland	
			45122-C5	Oregon City	
			45122-D4	Damascus	
			45122-D5	Gladstone	

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
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EO Type: SPAWNING & REARING - fish Minimum Elev.(m): Annual Observations

EO Data: FALL RUN; ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE

EO Comments:

Protection:

Management:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF CHINOOK IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT. CLACKAMAS HATCHERY IS LOCATED ON THE CLACKAMAS RIVER NEAR MCIVER STATE PARK. EAGLE CREEK FISH HATCHERY AND DELPH CREEK HATCHERY ARE LOCATED UPSTREAM EAGLE CREEK AND A TRIBUTARY.

Scientific Name: ***Oncorhynchus mykiss pop. 27***

Common Name: **Steelhead (Lower Columbia River ESU, winter run)**

Federal Status: LT GRANK: G5T2Q NHP List: 1 Category: Vertebrate Animal

State Status: SC SRANK: S2 HP Track: Y ELCODE: AFCHA02132

EO ID: 4653 First Obs: Last Obs: 1999-PRE Confirmed:

Directions: CLACKAMAS RIVER & TRIBUTARIES

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas		Data currently not available.
Marion		

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
			45122-B3	Elwood	17090011 - Clackamas
			45122-C1	Salmon	
			45122-C2	Cherryville	
			45122-C3	Estacada	
			45122-C4	Redland	
			45122-D3	Sandy	
			45122-D4	Damascus	
			45122-D5	Gladstone	

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>

EO Type: SPAWNING & REARING - fish Minimum Elev.(m): Annual Observations

EO Data: WINTER RUN: ODFW DISTRIBUTION MAPS USED TO CREATE THE 1:24,000 COVERAGE

EO Comments:

Protection:

Management:

General: DISTRIBUTION INFORMATION USED IN THIS EOR WAS DERIVED FROM ODFW GEOGRAPHIC RESOURCES DATA PRODUCED AND DISTRIBUTED IN 1999. UNLESS SPECIFIC DATA EXISTS IN THE DATA FIELD, THE INFORMATION PRESENTED IN THIS EOR REPRESENTS THE "BEST PROFESSIONAL JUDGMENT" BY ODFW'S DISTRICT FISHERIES BIOLOGIST; THE PRESENCE OF STEELHEAD IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT. FISH HATCHERIES ARE LOCATED ON THE CLACKAMAS RIVER NEAR MCIVER STATE PARK, EAGLE CREEK AND DELPH CREEK.

Scientific Name: ***Martes pennanti***

Common Name: **Fisher**

Federal Status: C/SOC GRANK: G5 NHP List: 2 Category: Vertebrate Animal

State Status: SC SRANK: S2 HP Track: Y ELCODE: AMAJF01020

EO ID: 21159 First Obs: 1980 Last Obs: 1980-09 Confirmed:

Directions: CLACKAMAS RIVER; NORTH OF ESTACADA NEAR CURRINSVILLE

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas	WV	Point [Areal - Estimated (1500 m)]

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
003S004E	08		45122-C3	Estacada	1709001105 - LOWER CLACKAMAS RIVER 1709001106 - ROARING RIVER

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>

EO Type: Minimum Elev.(m): 137 Annual Observations

EO Data: ONE FISHER SIGHTED BY PUGH AND REPORTED TO DISTRICT BIOLOGIST

EO Comments:

Protection:

Management:

General: OBSERVER RELIABILITY - GOOD

Scientific Name: *Lathyrus holochlorus*Common Name: **Thin-leaved peavine**

Federal Status: SOC

GRANK: G2

NHP List: 1

Category: Vascular Plant

State Status:

SRANK: S2

HP Track: Y

ELCODE: PDFAB250B0

EO ID: 20456

First Obs: 1925-05-05

Last Obs: 1925-05-25

Confirmed: Y

Directions: EAGLE CREEK (MAPPED IN GENERAL AREA OF TOWN OF EAGLE CREEK-CORNELIUS, ONHP, 4-81)

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas	WV	Point [Areal - Estimated (8050 m)]
<u>Town-Range</u> <u>Sec</u> <u>Note</u>	<u>QuadCode</u> <u>QuadName</u>	<u>Watershed</u>
002S004E 31	45122-C3 Estacada	1709001106 - ROARING RIVER
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>

EO Type:

Minimum Elev.(m): -339

Annual Observations

EO Data: HERBARIUM COLLECTION: SUKSDORF, 1925, #3325, WTU

EO Comments: NO HABITAT GIVEN

Protection:

Management:

General: HERBARIUM COLLECTION: SUKSDORF #3325, 5-5-1925, WTU

Scientific Name: *Sidalcea nelsoniana*Common Name: **Nelson's sidalcea**

Federal Status: LT

GRANK: G2

NHP List: 1

Category: Vascular Plant

State Status: LT

SRANK: S2

HP Track: Y

ELCODE: PDMAL110H0

EO ID: 13082

First Obs: 1999-07

Last Obs: 1999-07

Confirmed:

Directions: FOLSOM RD.

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas	WV	Point [Areal - Estimated (50 m)]
<u>Town-Range</u> <u>Sec</u> <u>Note</u>	<u>QuadCode</u> <u>QuadName</u>	<u>Watershed</u>
003S004E 06	45122-C3 Estacada	1709001105 - LOWER CLACKAMAS RIVER
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>

EO Type:

Minimum Elev.(m): 113

Annual Observations

EO Data: ONE PLANT, IN FLOWER.

* 1999 - 1

EO Comments: PLANT IN DITCH ON N-SIDE OF RD.

Protection:

Management:

General: 1999 PLANT SIGHTING REPORT PER PHONE CONVERSATION 1999-07-19 WITH KEITH KAROLY. WHILE LOOKING AT DELPHINIUM LEUCOPHAEUM #.021, NOTICED SIDNEL PLANT.

Scientific Name: *Delphinium leucophaeum*Common Name: **White rock larkspur**

Federal Status: SOC

GRANK: G2Q

NHP List: 1

Category: Vascular Plant

State Status: LE

SRANK: S2

HP Track: Y

ELCODE: PDRAN0B182

EO ID: 16453

First Obs: 1989

Last Obs: 1991-06-

Confirmed:

Directions: 1.5 MI NNW OF ESTACADA, ALONG FOLSOM RD 0.9 MI W OF HWY 211/224. MOST PLANTS ON SOUTH SIDE OF ROAD

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Clackamas	WV	Polygon [Areal - Delimited (8 m)] Polygon [Areal - Delimited (8 m)] Polygon [Areal - Delimited (8 m)]
<u>Town-Range</u> <u>Sec</u> <u>Note</u>	<u>QuadCode</u> <u>QuadName</u>	<u>Watershed</u>
003S004E 07	45122-C3 Estacada	1709001105 - LOWER CLACKAMAS RIVER
003S004E 06		1709001106 - ROARING RIVER
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
PRIVATE		

EO Type:	Minimum Elev.(m): 113	<u>Annual Observations</u>
EO Data:	66 PLANTS IN FLOWER IN 10-100 SQ M (1989). 1991 REPORT: 23 PLANTS IN ALL, 6 IN BUD, 11 IN FLOWER, 2 SEEDLINGS, AND 4 IMMATURE. COVERED 1/2 ACRE. STABLE CONDITION.	• 1991 - 23 • 1989 - 66
EO Comments:	FORMER PRAIRIE, NOW ROADSIDE STRIP BETWEEN FENCE AND DITCH. SALEM SILT, LOAM, BOTTOM SLOPE POSITION, OPEN, DRY. ASSOC SPECIES: AREL, DACA, ACMI, ERLA, BRCO, VIDI	
Protection:	THREATS: ROADSIDE MOWING/SPRAYING	
Management:		
General:	1989 SIGHTING REPORT ED ALVERSON. 1991 BLM SIGHTING REPORT: MICHAEL WOODRIDGE	

15 records total

Key to Oregon Natural Heritage Information Center Data

Field Name	Description
Scientific Name	The scientific name of the species.
Common Name	The common name of the species.
Category	Value that indicates the broad biological category for each species.
ELCODE	Unique Heritage Program code for identifying this element. 1st and 2nd byte (PD=Plant dict, PM=Plant monocot, PG=Plant gymnosperm, PP=Plant pteridophyte, AA=amphibian, AB=bird, AF=fish, AM=mammal, AR=reptile, I=invertebrate. 3rd-5th byte (family abbreviation). 6th-7th (genus code). 8th-9th (species). 10th (tie breaker).
Federal Status	US Fish and Wildlife Service or National Marine Fisheries Service status. LE =listed endangered, LT =listed threatened, PE or PT =proposed endangered or threatened, C =candidate for listing with enough information available for listing, SOC =species of concern, -PD =proposed delisting, -NL =not listed (in part of the range).
State Status	For animals, Oregon Department of Fish and Wildlife status; LE =listed endangered, PE =proposed endangered, PT =proposed threatened, SC or C =sensitive-critical, SV or V =sensitive-vulnerable, SP or P =sensitive-peripheral, SU or U =sensitive-undetermined status. For plants, Oregon Department of Agriculture status; LE =listed endangered, LT =listed threatened, C =candidate.
GRANK/SRANK	ORNHC participates in an international system for ranking rare, threatened and endangered species throughout the world. The system was developed by The Nature Conservancy and is now maintained by NatureServe in cooperation with Heritage Programs or Conservation Data Centers (CDCs) in all 50 states, in 4 Canadian provinces, and in 13 Latin American countries. The ranking is a 1-5 scale, primarily based on the number of known occurrences, but also including threats, sensitivity, area occupied, and other biological factors. In this book, the ranks occupy two lines. The top line is the Global Rank and begins with a "G". If the taxon has a trinomial (a subspecies, variety or recognized race), this is followed by a "T" rank indicator. A "Q" at the end of this line indicates the taxon has taxonomic questions. The second line is the State Rank and begins with the letter "S". The ranks are summarized as follows: 1 = Critically imperiled because of extreme rarity or because it is somehow especially vulnerable to extinction or extirpation, typically with 5 or fewer occurrences; 2 = Imperiled because of rarity or because other factors demonstrably make it very vulnerable to extinction (extirpation), typically with 6-20 occurrences; 3 = Rare, uncommon or threatened, but not immediately imperiled, typically with 21-100 occurrences; 4 = Not rare and apparently secure, but with cause for long-term concern, usually with more than 100 occurrences; 5 = Demonstrably widespread, abundant, and secure; H = Historical Occurrence, formerly part of the native biota with the implied expectation that it may be rediscovered; X = Presumed extirpated or extinct; U = Unknown rank; ? = Not yet ranked, or assigned rank is uncertain.
NHP list	All rare species in Oregon are assigned a list number of 1, 2, 3 or 4, where 1 =threatened or endangered throughout range, 2 =threatened or endangered in Oregon but more common elsewhere, 3 =Review List (more information is needed), 4 =Watch List (currently stable). A null value indicates the species is not currently on our rare species list.
HP Track	We currently obtain and computerize locational information for only those elements marked with Y(es) . Those species marked with N(o) or W(atch) have incomplete data because we do not actively track them at this time.
EO ID	Unique identifier for the Element Occurrence (EO).
First_obs	First reported sighting date for this occurrence in the form YYYY-MM-DD.
Last_obs	Last reported sighting date, usually in the form YYYY-MM-DD.
Confirmed	Indication of whether taxonomic identification of the Element represented by this occurrence has been confirmed by a reliable individual. Blank=unknown, assumed to be correctly identified. Y =Yes, confident identification. ? =identification questions.
Directions	Site name and/or directions to site.
County	County name(s) in which EO is mapped.
Ecoregion	Physiographic Province in which EO is mapped: CR =Coast Range, WV =Willamette Valley, KM =Klamath Mountains, WC =West slope and crest of the Cascades, EC =East slope of the Cascades, BM =Ochoco, Blue and Wallowa Mts., BR =Basin and Range, CB =Columbia Basin, SP =Snake River Plains.

Key to Oregon Natural Heritage Information Center Data

Field Name	Description
Source Feature	<p>A Source Feature is the initial translation of a discrete unit of observation data as a spatial feature.</p> <p>Creation of a Source Feature requires an interpretive process. The likely location and extent of an observation is determined through consideration of the amount and direction of any variability between the recorded and actual locations of the observation data. In most cases, the Source Feature is delineated to encompass locational uncertainty.</p> <p>A Source Feature can be a point, line, or polygon. The type of Source Feature developed depends on both the preceding conceptual feature type and the locational uncertainty associated with the feature.</p>
Uncertainty Type (Distance)	<p>The recorded location of an observation of an Element may vary from its true location due to many factors, including the level of expertise of the data collector, differences in survey techniques and equipment used, and the amount and type of information obtained. This inaccuracy is characterized as locational uncertainty, and is assessed for Source Feature(s) based on the uncertainty associated with the underlying information on the location of the observation.</p> <p>Four categories of locational uncertainty have been identified, as follows:</p> <p><u>Negligible</u> uncertainty is less than or equal to 6.25 meters in any dimension. Source Features with negligible uncertainty are based on a comprehensive field survey with high quality mapping and a high degree of certainty.</p> <p><u>Linear</u> uncertainty is greater than 6.25 meters, and varies along an axis (e.g., a path, stream, ridgeline). The true location of an observation with linear uncertainty may be visualized as effectively sliding along a line that delineates the uncertainty.</p> <p><u>Areal delimited</u> uncertainty is greater than 6.25 meters, and varies in more than one dimension. The true location of an observation can be visualized as floating within an area with a boundary that can be specifically delimited. Boundaries can be defined using roads, bodies of water, etc.</p> <p><u>Areal estimated</u> uncertainty is greater than 6.25 meters, and varies in more than one dimension. A boundary cannot be specifically delimited based on the observation information, i.e., the actual extent is unknown. The true location of the observation can be visualized as floating within an area for which boundaries cannot be specifically delimited. Source Features with areal estimated uncertainty require that the user specify an estimated uncertainty distance to be used for buffering the feature to incorporate the locational uncertainty.</p>
Town-Range, Sec, and Note	United States rectangular land survey (also known as the Public Land Survey System) legal township, range, and section descriptions that best define the location of the Element Occurrence. Township first (4 bytes), range second (4 bytes). For example: 004S029E = Township 4S, Range 29E. All locations are with reference to the Willamette Meridian. Fractional ranges or townships are indicated in the Note field.
Quadcode	USGS code for the USGS topographic quadrangle map(s) where the record is mapped.
Quadname	Name of the USGS topographic quadrangle map(s) where the record is mapped.
Watershed	Watershed(s), identified according to the U.S. Geological Survey (USGS) Hydrologic Unit Map 10-digit code, within which the Element Occurrence is located.
Owner Name/Type and Comments	Federal, State, Private, etc.
Managed Area Name	BLM District, USFS Forest, Private Preserve
EO Type	For animals, type of occurrence, eg. roost, nest, spawning, etc.
EO Data	Species and population biology - numbers, age, nesting success, vigor, phenology, disease, pollinators, etc.
EO Comments	Habitat information, e.g. aspect, slope, soils, associated species, community type, etc.
Minimum Elevation	Minimum elevation of the area covered by the range of the taxon, in meters. -339 or blank=not determined.
Annual Observation	Summary of yearly observation.
Protection	Comments on protectibility and threats.
Management	Comments on how the site is managed.
General	Miscellaneous comments.



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
525 NE Oregon Street
PORTLAND, OREGON 97232-2737

Refer to:
OHB 2004-0235

February 8, 2005

Mr. Barry Bai
Oregon Department of Agriculture
635 Capitol Street, NE
Salem, Oregon 97301-2532

Re: Request for List of Species Which May Be Affected by Gypsy Moth Spraying Beside
Eagle Creek near Sandy, Clackamas County, Oregon

Dear Mr. Bai:

NOAA's National Marine Fisheries Service (NOAA Fisheries) received your December 1, 2004, letter requesting an updated list of threatened and endangered anadromous fish species which may be affected by the gypsy moth spraying. We have enclosed a list of those anadromous fish species that are listed as endangered or threatened under the Endangered Species Act (ESA), those that are proposed for listing, and those that are candidates for listing (Enclosure 1) in the state of Oregon. This inventory only includes species under NOAA Fisheries' jurisdiction that occur in the Pacific Northwest. The U.S. Fish and Wildlife Service should be contacted regarding the presence of species falling under its jurisdiction.

Available information indicates that ESA-listed anadromous fish species may be present near the proposed action area including Lower Columbia River (LCR) Chinook salmon (*Oncorhynchus tshawytscha*), Upper Willamette River Chinook salmon, LCR steelhead (*O. mykiss*), and LCR coho salmon (*O. kisutch*), a species proposed for listing. This letter constitutes the required notification of the presence of a Federally-listed threatened or endangered species under NOAA Fisheries' jurisdiction in the permit area that may be affected by the proposed project (Appendix A to Part 330, Section C.13(5)(I)).

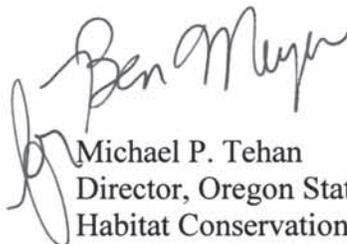
Additional information on listed species' distribution, copies of Federal Register documents designating ESA-listed species status, and links to various ESA consultation policies and tools may be found on our website at: www.nwr.noaa.gov. For information on the ESA section 7 consultation process, please refer to the ESA Section 7 implementing regulations, 50 C.F.R. Part 402.



In addition, please be aware that consultation under the Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-297), requires Federal agencies to consult with NOAA Fisheries on activities that may adversely affect designated essential fish habitat (EFH). All habitat in this project area is designated as EFH for Chinook and coho salmon. Additional information addressing EFH may be found on our website, above.

Questions regarding this letter should be directed to Jim Turner of my staff in the Oregon State Habitat Office at 503.231.6894.

Sincerely,

A handwritten signature in black ink, appearing to read "Ben Meyer" or "Ben Meyer" with a stylized flourish at the end.

Michael P. Tehan
Director, Oregon State Habitat Office
Habitat Conservation Division

Enclosure (1): Endangered, Threatened, Proposed, and Candidate Species Occurring under NOAA Fisheries' Jurisdiction in Oregon

Endangered, Threatened, Proposed, and Candidate Species That Occur under NOAA Fisheries' Jurisdiction in Oregon

(T=threatened, E=endangered, P/T=proposed threatened, P/E Proposed Endangered. CH=critical habitat, PCH=proposed critical habitat ESU=Evolutionarily Significant Unit)

Listed Species

Coho Salmon (*Oncorhynchus kisutch*)

S. Oregon/N. California Coasts ESU(T)(CH)

Chinook Salmon (*O. tshawytscha*)

Snake River Fall-run ESU (T)(CH)

Snake River Spring/Summer-run ESU (T)(CH)

Lower Columbia River ESU (T)(PCH)

Upper Willamette River ESU (T)(PCH)

Upper Columbia River Spring-run ESU (E)(PCH)

Chum Salmon (*O. keta*)

Columbia River ESU (T)(PCH)

Sockeye Salmon (*O. nerka*)

Snake River ESU (E)(CH)

Steelhead (*O. mykiss*)

Upper Columbia River ESU (E)(PCH)

Snake River Basin ESU (T)(PCH)

Lower Columbia River ESU (T)(PCH)

Upper Willamette River ESU (T)(PCH)

Middle Columbia River ESU (T)(PCH)

Proposed for Listing

Coho Salmon (*Oncorhynchus kisutch*)

Oregon Coast ESU (P/T)(PCH)

Lower Columbia River/SW Washington ESU (P/T)(PCH)

Candidates for Listing

Steelhead

Oregon Coast ESU