

OREGON NATURAL HERITAGE INFORMATION CENTER

Institute for Natural Resources



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

October 4, 2004

Staci MacCorkle
Parametrix, Inc.
700 NE Multnomah Boulevard, Suite 1000
Portland, OR 97232

Dear Ms. MacCorkle:

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 Salem Regional Employment Center Project in Township 8 South, Range 2 West, Sections 4-9, 17, and 18, W.M.

Twenty-seven (27) 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-100404-CWA5)
computer printout and data key

OREGON NATURAL HERITAGE INFORMATION CENTER

Institute for Natural Resources



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

Invoice Number: H-100404-CWA5
Index: RNR105

INVOICE

TO: Parametrix, Inc.
700 NE Multnomah Boulevard, Suite 1000
Portland, OR 97232

ATTN: Accounts Payable

DATE: October 4, 2004

RE: Data system search for rare, threatened and endangered plants and animals in the vicinity of Township 8 South, Range 2 West, Sections 4-9, 17, and 18, W.M. Requested by Staci MacCorkle for the Salem Regional Employment Center Project.

For services and products:

Computer records (27 @ \$0.50/record)	\$ 13.50
Computer fee (flat rate)	\$ 20.00
Staff time (0.75 hours @ \$50.00/hour)	\$ 37.50

TOTAL DUE: **\$ 71.00**

Please make checks payable to: **Oregon Natural Heritage Information Center**

Please include invoice number at top of page with payment.

Terms: Net 30

Scientific Name: ***Rana pretiosa***

Common Name: **Oregon spotted frog**

Federal Status: C GRANK: G2 NHP List: 1 Category: Vertebrate Animal
 State Status: SC SRANK: S2 HP Track: Y ELCODE: AAABH01180

EO ID: 5019 First Obs: 1937-10-13 Last Obs: 1937-10-13 Confirmed:

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion	WV	Point [Areal - Estimated (8050 m)]
<u>Town-Range Sec Note</u>	<u>QuadCode QuadName</u>	<u>Watershed</u>
[REDACTED]	[REDACTED]	1709000506 - NORTH SANTIAM RIVER, LOWER
		1709000701 - MILL CREEK
		1709000907 - SILVER CREEK

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
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EO Type: Minimum Elev.(m): 107 Annual Observations
 EO Data: 1937: ONE ADULT FEMALE COLLECTED
 EO Comments: LOW, EMERGENT MARSH
 Protection:
 Management:
 General: COLLECTOR: H.S. FITCH MVZ#25288

Scientific Name: ***Eremophila alpestris strigata***

Common Name: **Streaked horned lark**

Federal Status: C GRANK: G5T2 NHP List: 1 Category: Vertebrate Animal
 State Status: SC SRANK: S2B HP Track: Y ELCODE: ABPAT0201L

EO ID: 23512 First Obs: 1999-06-27 Last Obs: 1999-06-27 Confirmed:

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion	WV	Point [Areal - Estimated (50 m)]
<u>Town-Range Sec Note</u>	<u>QuadCode QuadName</u>	<u>Watershed</u>
[REDACTED]	[REDACTED]	1709000701 - MILL CREEK

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

EO Type: Minimum Elev.(m): 70 Annual Observations
 EO Data: 1999: 1 MALE SINGING.
 EO Comments:
 Protection:
 Management:
 General:

Scientific Name: ***Oncorhynchus tshawytscha pop. 23***

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: 94 First Obs: Last Obs: 1999-PRE Confirmed:

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion		Data currently not available.
<u>Town-Range Sec Note</u>	<u>QuadCode QuadName</u>	<u>Watershed</u>
[REDACTED]	[REDACTED]	17090007 - Middle Willamette

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
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EO Type: REARING & MIGRATION - fish Minimum Elev.(m): Annual Observations
 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: ***Oncorhynchus mykiss pop. 33***

Common Name: **Steelhead (Upper Willamette River ESU, winter run)**

Federal Status: LT

GRANK: G5T2Q

NHP List: 1

Category: Vertebrate Animal

State Status: SC

SRANK: S2

HP Track: Y

ELCODE: AFCHA02138

EO ID: 6022

First Obs:

Last Obs: 1999-PRE

Confirmed:

Directions: [REDACTED]

County Name

Ecoregion

Source Feature [Uncertainty Type (Distance)]

Marion

Data currently not available.

Town-Range Sec Note

QuadCode QuadName

Watershed

[REDACTED]

1709000701 - MILL CREEK

Owner Name/Type

Owner Comments

Managed Area Name

EO Type: REARING & MIGRATION - 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 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 STEELHEAD IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.

Scientific Name: ***Oncorhynchus mykiss pop. 33***

Common Name: **Steelhead (Upper Willamette River ESU, winter run)**

Federal Status: LT

GRANK: G5T2Q

NHP List: 1

Category: Vertebrate Animal

State Status: SC

SRANK: S2

HP Track: Y

ELCODE: AFCHA02138

EO ID: 19279

First Obs:

Last Obs: 1999-PRE

Confirmed:

Directions: [REDACTED]

County Name

Ecoregion

Source Feature [Uncertainty Type (Distance)]

Marion

Data currently not available.

Town-Range Sec Note

QuadCode QuadName

Watershed

[REDACTED]

17090007 - Middle Willamette

Owner Name/Type

Owner Comments

Managed Area Name

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 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 STEELHEAD IN DESCRIBED AREAS SHOULD BE CONSIDERED UNDOCUMENTED BUT AS HAVING A POTENTIAL OF BEING PRESENT.

Scientific Name: *Chrysemys picta*

Common Name: Painted turtle

Federal Status:	GRANK: G5	NHP List: 2	Category: Vertebrate Animal
State Status: SC	SRANK: S2	HP Track: Y	ELCODE: ARAAD01010
EO ID: 2361	First Obs:	Last Obs:	Confirmed:

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion	WW	Point [Areal - Estimated (8050 m)]
<u>Town-Range Sec Note</u>	<u>QuadCode QuadName</u>	<u>Watershed</u>
[REDACTED]	[REDACTED]	1709000701 - MILL CREEK
		1709000702 - RICKREALL CREEK
		1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES
		1709000907 - SILVER CREEK

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

EO Type:	Minimum Elev.(m): 55	<u>Annual Observations</u>
EO Data: SPECIES RECORDED PER ST. JOHN		

EO Comments:

Protection:

Management:

General:

Scientific Name: *Driloleirus macelfreshi*

Common Name: Oregon giant earthworm

Federal Status: SOC	GRANK: G1	NHP List: 1	Category: Invertebrate Animal
State Status:	SRANK: S1	HP Track: Y	ELCODE: IAOLI01020
EO ID: 7527	First Obs: 1903-01	Last Obs: 1903-01	Confirmed:

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion	WW	Point [Areal - Estimated (8050 m)]
<u>Town-Range Sec Note</u>	<u>QuadCode QuadName</u>	<u>Watershed</u>
[REDACTED]	[REDACTED]	1709000701 - MILL CREEK
		1709000702 - RICKREALL CREEK
		1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES
		1709000907 - SILVER CREEK

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

EO Type:	Minimum Elev.(m): 46	<u>Annual Observations</u>
EO Data: 1903: SINGLE SPECIMEN COLLECTED.		

EO Comments:

Protection:

Management:

General: TYPE SPECIMEN (USNM 20244) COLLECTED BY F.M. MCELFRSH. SENT LIVE TO FRANK SMITH (U OF ILLINOIS).

Scientific Name: *Lomatium bradshawii*

Common Name: Bradshaw's lomatium

Federal Status: LE	GRANK: G2	NHP List: 1	Category: Vascular Plant
State Status: LE	SRANK: S2	HP Track: Y	ELCODE: PDAP11B030
EO ID: 6258	First Obs: 1916	Last Obs: 1916-05-03	Confirmed: Y

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion	WW	Point [Areal - Estimated (8050 m)]

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
					1709000701 - MILL CREEK 1709000702 - RICKREALL CREEK 1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES 1709000907 - SILVER CREEK
<u>Owner Name/Type</u>	<u>Owner Comments</u>			<u>Managed Area Name</u>	<u>Annual Observations</u>
EO Type:	Minimum Elev.(m): 61			WILLAMETTE RIVER GREENWAY	
EO Data:	HERBARIUM COLLECTION: NELSON 5-3-16, WS. ASSUMED EXTIRPATED				
EO Comments:	DRY SOIL ON RIVERBANK				
Protection:					
Management:					
General:					

Scientific Name: *Erigeron decumbens var. decumbens*Common Name: **Willamette Valley daisy**

Federal Status: LE

GRANK: G4T1

NHP List: 1

Category: Vascular Plant

State Status: LE

SRANK: S1

HP Track: Y

ELCODE: PDAST3M133

EO ID: 1346

First Obs: 1890

Last Obs: 1924-06-13

Confirmed: Y

Directions:

County NameEcoregionSource Feature [Uncertainty Type (Distance)]

Marion

WV

Point [Areal - Estimated (8050 m)]

Town-RangeQuadCodeWatershed1709000701 - MILL CREEK
1709000702 - RICKREALL CREEK
1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES
1709000907 - SILVER CREEKOwner Name/TypeOwner CommentsManaged Area Name

EO Type:

Minimum Elev.(m): 61

Annual Observations

EO Data: HERBARIUM COLLECTIONS: JOHNSON, C.1890, NO#, WTU;

PECK, 6-9-06, NO #, WS; PECK, NO DATE, #4643, WILLU;

PIPER, 6-4-21, NO#, WS; THOMPSON, #2643, GH (6-13-24)

AND WTU, GH (6-13-27); NELSON, 6-21-16, NO #, WS

EO Comments: GRAVELLY PASTURE (NELSON, 1916). OPEN GROUND IN BUSH'S PASTURE (THOMPSON, 1927).

Protection:

Management:

General:

Scientific Name: *Aster curtus*Common Name: **White-topped aster**

Federal Status: SOC

GRANK: G3

NHP List: 1

Category: Vascular Plant

State Status: LT

SRANK: S2

HP Track: Y

ELCODE: PDASTEF010

EO ID: 13079

First Obs: 1918

Last Obs: 1918-08-05

Confirmed:

Directions:

County NameEcoregionSource Feature [Uncertainty Type (Distance)]

Marion

WV

Point [Areal - Estimated (4000 m)]

Town-RangeQuadCodeWatershed

1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES

Owner Name/TypeOwner CommentsManaged Area Name

EO Type:

Minimum Elev.(m): 30

Annual Observations

EO Data: HERBARIUM COLLECTION: PIPER, 8-05-18, NO #, WS.

EO Comments: GRAVELLY SOIL.

Protection:

Management:

General: COLLECTED BY PIPER IN 1918. AREA NOW LIKELY DEVELOPED AND PLANT EXTIRPATED.

Scientific Name: *Howellia aquatilis*

Common Name: **Howellia**

Federal Status: LT GRANK: G2 NHP List: 1 Category: Vascular Plant

State Status: SRANK: S1 HP Track: Y ELCODE: PDCAM0A010

EO ID: 3494 First Obs: 1928 Last Obs: 1935 Confirmed: Y

Directions: [REDACTED]

County Name	Ecoregion	Source Feature [Uncertainty Type (Distance)]			
Marion	WW	Point [Areal - Estimated (8050 m)]			
Town-Range	Sec	Note	QuadCode	QuadName	Watershed
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	1709000701 - MILL CREEK 1709000702 - RICKREALL CREEK 1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES 1709000907 - SILVER CREEK

Owner Name/Type	Owner Comments	Managed Area Name

EO Type: Minimum Elev.(m): 38 Annual Observations

EO Data: HERBARIUM COLLECTIONS: THOMPSON, #4927 & 4967, 6-27-28, ORE, GH, WTU. ALSO IN AREA, PECK #15935, 5-1926, WILLU, "BOG NEAR SALEM", AND JC NELSON #5075 6-9-28, GH, "POND IN WOODS 1 MI N OF SALEM.

EO Comments: STAGNANT POND IN SHADED WOODS (THOMPSON).

Protection:

Management:

General: COLLECTIONS HOUSED AT SEVERAL HERBARIA IN OREGON. THIS SITE IS NOW DEVELOPED AND PLANT EXTIRPATED.

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: 8680 First Obs: 1980-06-12 Last Obs: 1980-06-12 Confirmed:

Directions: [REDACTED]

County Name	Ecoregion	Source Feature [Uncertainty Type (Distance)]			
Marion	WW	Point [Areal - Estimated (400 m)]			
Town-Range	Sec	Note	QuadCode	QuadName	Watershed
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES

Owner Name/Type	Owner Comments	Managed Area Name
PRIVATE		

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

EO Data: ROADSIDE

Protection:

Management:

General: 1980 BLM PLANT SIGHTING REPORT. MARGIE WILLIS REPORTER.

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: 16864 First Obs: 1987-05-02 Last Obs: 1987-05-02 Confirmed:

Directions: [REDACTED]

County Name	Ecoregion	Source Feature [Uncertainty Type (Distance)]
Marion	WW	Polygon [Areal - Delimited (8 m)]

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	1709000907 - SILVER CREEK
<u>Owner Name/Type</u>			<u>Owner Comments</u>		<u>Managed Area Name</u>
EO Type:			Minimum Elev.(m): 91	<u>Annual Observations</u>	
EO Data: [NO EODATA GIVEN]					
EO Comments: OPEN WOODLAND OF OAK & DOUGLAS-FIR. SOIL: WITZEL VERY STONY SILT LOAM. BOULDERS & ROCKS COMMON AT THE SURFACE. UNDERSTORY APPEARED TO BE FAIRLY HEAVILY DEGRADED, WITH EXOTICS DOMINATING, & GRASSES SUCH AS POA PRATENSIS & PROBABLY AGROSTIS SP FORMING THICK CARPETS. NATIVES MUCH MORE NUMEROUS ALONG THE FENCELINE AT THE BASE OF THE SLOPE, ADJ TO RAILROAD TRACKS. ASSOC SPECIES: ACHILLEA MILLEFOLIUM, CAMASSIA QUAMASH SSP MAXIMA, ERIOPHYLLUM LANATUM, FRAGARIA VESCA, LOMATIUM UTRICULATUM, RANUNCULUS OCCIDENTALIS, VIOLA NUTTALLII VAR PRAEMORSA, AQUILEGIA FORMOSA, CAMASSIA LEICHTLINII SSP SUKSDORFII, FRAGARIA VIRGINIANA, IRIS TENAX, LOMATIUM DISSECTUM VAR DISSECTUM, POTENTILLA GRACILIS, SIDALCEA SP.					
Protection:					
Management:					
General: 1990 REPORT FOR LOCATING NATIVE GRASSLAND REMNANTS IN THE WILLAMETTE VALLEY BY EDWARD ALVERSON.					

Scientific Name: ***Lupinus sulphureus ssp. kincaidii***
 Common Name: **Kincaid's lupine**
 Federal Status: LT GRANK: G5T2 NHP List: 1 Category: Vascular Plant
 State Status: LT SRANK: S2 HP Track: Y ELCODE: PDFAB2B2W1
 EO ID: 17651 First Obs: 1884 Last Obs: 1916-05-31 Confirmed:
 Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>			
Marion	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>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	1709000701 - MILL CREEK 1709000702 - RICKREALL CREEK 1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES 1709000907 - SILVER CREEK
<u>Owner Name/Type</u>			<u>Owner Comments</u>		<u>Managed Area Name</u>

EO Type:	Minimum Elev.(m): 61	<u>Annual Observations</u>
EO Data: HERBARIUM COLLECTION: J. HOWELL S.N. 5-10-1884, GH; PECK #5337, 5-31-16, WILLU; PECK #5338, 5-15-16, WILLU; PECK #5335, 5-1913, WILLU; PECK #5455, 5-7-10; PECK #5336, 5-1913, WILLU.		
EO Comments: ROADSIDE (PECK 1910). DRY HILLS (PECK 5335, 1913)		
Protection:		
Management:		
General:		

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: 17325 First Obs: 1993-07-12 Last Obs: 1994-06-16 Confirmed:
 Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>			
Marion	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>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	1709000701 - MILL CREEK

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
STATE	OREGON DEPT. OF TRANSPORTATION	STATE HIGHWAY MAINTENANCE DIST 3
EO Type:	Minimum Elev.(m): 61	<u>Annual Observations</u>
EO Data: 81 PLANTS COUNTED IN 1994, IN 100 M2-1 HA, IN LEAF, BUD AND FLOWER, 20% IMMATURE, 80% MATURE. 81 PLANTS (1995).		* 1995 - 81 PLANTS * 1994 - 81 PLANTS
EO Comments: APPARENTLY CLAY OR GRAVELLY CLAY. MANAGED LAWN AND WEEDY WOODS EDGE, ALONG FREEWAY. ASSOCIATED WITH: ALOPECURUS PRATENSIS, FESTUCA ARUNDINACEA, HOLCUS LANATUS, CHRYSANTHEMUM LEUCANTHEMUM, LOLIUM, QUERCUS GARRYANA, FRAXINUS LATIFOLIA, RHAMNUS PURSHIANA, ROSA, RUBUS, CRATAEGUS, AGROSTIS.		
Protection:		
Management:		
General: 1994 (6-16) SIGHTING REPORT; JUDITH B. GLAD REPORTER. 1993 (7-12) ODOT SIGHTING REPORT; ROSE HAYDEN REPORTER. 1993-1995 TECHNICAL MEMO BY CH2M HILL FOR MWLD.		

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: 18617	First Obs: 1919	Last Obs: 1995	Confirmed: Y

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion	WV	Polygon [Areal - Delimited (8 m)] Polygon [Areal - Delimited (8 m)] Polygon [Areal - Delimited (8 m)] Polygon [Areal - Delimited (8 m)] Polygon [Areal - Delimited (8 m)] Polygon [Areal - Delimited (8 m)]

<u>Town-Range Sec Note</u>	<u>QuadCode QuadName</u>	<u>Watershed</u>
[REDACTED]	[REDACTED]	1709000701 - MILL CREEK 1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
CITY	CITY OF SALEM	
EO Type:	Minimum Elev.(m): 61	<u>Annual Observations</u>
EO Data: 321 PLANTS [AREA 1 IN 1986 SR] IN BUD, FLOWER & FRUIT. SAME SITE AS NELSON HERBARIUM COLL. NO#, 6-21-19, WS, "ALONG RR TRACKS 3 MI S OF SALEM." SEED COLLECTED 7-23-85. AREA 1:31, 2:413, 3:8, 4:82, 5:367, 6:8 & 112 IN SEC 12 (1986). 1081 PLANTS (1987). 1042 PLANTS IN 1988 & 1055 IN 1989. IN 1990, 1429 AND NO APPARENT CHANGE IN 1991. 526 TOTAL IN 1992. THE AREA SOUTH OF AIRWAY ROAD WAS PLOWED IN LATE 1992; ONLY 84 PLANTS COUNTED IN 1993 WITH A TOTAL OF 435 AT THE SITE. 449 PLANTS IN 1994. ABOUT 600 PLANTS IN 1995.		* 1995 - 600 PLANTS * 1994 - 449 PLANTS * 1993 - 435 PLANTS * 1992 - 526 PLANTS * 1991 - NOT COUNTED; NO APPARENT CHANGE FROM 1990 * 1990 - 1429 PLANTS * 1989 - 1055 PLANTS (CH2M HILL ET AL); NO PLANTS SEEN BY NPSO * 1988 - 1042 PLANTS * 1987 - 1081 PLANTS; INSIDE AND OUTSIDE FENCE TOTAL * 1986 - 909 PLANTS; 121 INSIDE FENCE, THE REST OUTSIDE * 1985 - 321 PLANTS; SMALLER AREA COUNTED, OUTSIDE FENCE ONLY
EO Comments:		
Protection:		
Management: AIRPORT MANAGEMENT AWARE OF POPULATION (1986). AREA SPRAYED IN 1995.		
General: 1985 (6/24) SIGHTING REPORT, SAWTELLE, N. & J. TRAPP. 1985 SIDALCEA NELSONIANA REPORT TO USFWS. 1986 (6/24) SR GLAD & RUHLAND. GLAD COLLECTION #86-17, OSC. 1987 S. NELSONIANA REPORT TO USFWS (CH2M HILL-MCMINNVILLE WATER & LIGHT STUDY). 1989, 1990, 1991 S. NELSONIANA REPORT TO SAME. 1993-95 CH2M HILL TECHNICAL MEMO		

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: 20347	First Obs: 1918	Last Obs: 1922-07-02	Confirmed: Y

Directions: [REDACTED]

<u>County Name</u> Marion	<u>Ecoregion</u> WV	<u>Source Feature [Uncertainty Type (Distance)]</u> Point [Areal - Estimated (8050 m)]
<u>Town-Range Sec Note</u> [REDACTED]	<u>QuadCode QuadName</u> [REDACTED]	<u>Watershed</u> 1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
EO Type:	Minimum Elev.(m): 61	<u>Annual Observations</u>
EO Data: HERBARIUM COLLECTIONS: NELSON, 7-2-22, #4806, #4356, OSC; NELSON, 6-23-20, #3155, WILLU; NELSON, 6-22-18, NO #, WS. POPULATION ASSUMED EXTIRPATED.		
EO Comments:		
Protection:		
Management:		
General:		

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: 22748 First Obs: 1889 Last Obs: 1951-05-29 Confirmed: Y
 Directions [REDACTED]

<u>County Name</u> Marion	<u>Ecoregion</u> WV	<u>Source Feature [Uncertainty Type (Distance)]</u> Point [Areal - Estimated (8050 m)]
<u>Town-Range Sec Note</u> [REDACTED]	<u>QuadCode QuadName</u> [REDACTED]	<u>Watershed</u> 1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES
<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
EO Type:	Minimum Elev.(m): 46	<u>Annual Observations</u>
EO Data:		
EO Comments:		
Protection:		
Management:		
General: HERBARIUM COLLECTIONS: HITCHCOCK, 5-29-51, #19309, OSC, WS, WTU, RM (BY RR TRACKS BACK OF WILLAMETTE U CAMPUS). THOMPSON, 7- 14-27, #2663, WTU, TOPOTYPE. NELSON, 7-17-18, #2233 (TYPE), UNKNOWN HERBARIUM. NELSON, 6-15-16, #650, UNKNOWN HERBARIUM. REYNOLDS, NO DATE, NO #, WILLU. JOHNSON, NO DATE, #243, WTU. PECK, 6-1-10, #7100, WILLU. HENDERSON, 7-19-1887, #1459, OSC.		

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: 23671 First Obs: 1986 Last Obs: 1995 Confirmed:
 Directions [REDACTED]

<u>County Name</u> Marion	<u>Ecoregion</u> WV	<u>Source Feature [Uncertainty Type (Distance)]</u> Point [Areal - Estimated (50 m)]
<u>Town-Range Sec Note</u> [REDACTED]	<u>QuadCode QuadName</u> [REDACTED]	<u>Watershed</u> 1709000701 - MILL CREEK
<u>Owner Name/Type</u> PRIVATE	<u>Owner Comments</u> GRANADA LAND CO., 2485 LANCASTER DR., NE, SALEM, OR 97035	<u>Managed Area Name</u> STATE HIGHWAY MAINTENANCE DIST 3

EO Type: Minimum Elev.(m): 67 Annual Observations
 EO Data: 2 PLANTS, IN 1-5 SQ.M. IN FLOWER & FRUIT (1986). 1 PLANT IN 1987. 2 PLANTS IN 1988, 1989, 1990, 1991. BOTH PISTILLATE. 2 PISTILLATE PLANTS IN 1992, 1993, 1994, 1995.
 • 1995 - 2 PLANTS
 • 1994 - 2 PLANTS
 • 1993 - 2 PLANTS
 • 1992 - 2 PLANTS
 • 1991 - 2 PLANTS
 • 1990 - 2 PLANTS
 • 1989 - 2 PLANTS
 • 1988 - 2 PLANTS
 • 1987 - 1 PLANT; 1 OTHER CRUSHED BY CULVERT PIPE
 • 1986 - 2 PLANTS

EO Comments: GRASSLAND W/RUBUS. DAYTON SILT LOAM SOIL TYPE (SCS 1975). AGROSTIS-FESTUCA ARUNDINACEA/RUBUS DISCOLOR

Protection:
 Management: THREATS: SPRAYING, MOWING, DITCHING, ETC.
 General: 1986 (6/30) SIGHTING REPORT, GLAD, JUDITH & B. RUHLAND. MWLD SITE #07023901. GLAD COLLECTION 86-20, OSC. 1987 S. NELSONIANA REPORT TO USFWS (CH2M HILL-MCMINNVILLE WATER & LIGHT STUDY). 1989, 1990, 1991 S. NELSONIANA REPORT TO SAME. 1993-95 CH2M HILL TECHNICAL MEMO

Scientific Name: ***Delphinium pavonaceum***
 Common Name: **Peacock larkspur**
 Federal Status: SOC GRANK: G1Q NHP List: 1 Category: Vascular Plant
 State Status: LE SRANK: S1 HP Track: Y ELCODE: PDRAN0B1D0
 EO ID: 2576 First Obs: 1912 Last Obs: 1912-05-10 Confirmed: Y

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion	WV	Point [Areal - Estimated (4000 m)]

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Watershed</u>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	1709000701 - MILL CREEK

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
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EO Type: Minimum Elev.(m): 46 Annual Observations

EO Data: IN FLOWER.

EO Comments:
 Protection:
 Management:
 General: HERBARIUM COLLECTIONS: BRUNK, 5-10-12, NO #, WILLU; ..., NO DATE, #2603, OSU.

Scientific Name: ***Delphinium oreganum***
 Common Name: **Willamette Valley larkspur**
 Federal Status: SOC GRANK: G1Q NHP List: 1 Category: Vascular Plant
 State Status: C SRANK: S1 HP Track: Y ELCODE: PDRAN0B220
 EO ID: 9138 First Obs: 2001-06-05 Last Obs: 2001-06-05 Confirmed:

Directions: [REDACTED]

<u>County Name</u>	<u>Ecoregion</u>	<u>Source Feature [Uncertainty Type (Distance)]</u>
Marion	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>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	1709000907 - SILVER CREEK

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
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COUNTY & PRIVATE MARION COUNTY RIGHT-OF-WAY

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

EO Data: 126 PLANTS, 100% IN FLOWER, 95% SEEDLINGS, 5% IMMATURE, 140 X 5 FT AREA. • 2001 - 126

EO Comments: ROADSIDE FENCE ROW AND MEADOW. E ASPECT, SLIGHT SLOPE, LOWER SLOPE, OPEN LIGHT, MOIST. NEKIA-JORY SOIL. ASSOC SPECIES: FENCE ROW: SCOTCH BROOM, SPIREA, BRACKEN, NON-NATIVE GRASSES, ROSA, VETCH; MEADOW: NON-NATIVE GRASSES, YARROW, BRACKEN, VETCH.

Protection:
 Management: SITE HAS BEEN SIGNED FOR MGMT BY MCPW.
 General: 2001 PLANT SIGHTING REPORT. LYNDA BOYER REPORTER.

Scientific Name: *Horkelia congesta ssp. congesta*

Common Name: **Shaggy horkelia**

Federal Status: SOC

GRANK: G4T2

NHP List: 1

Category: Vascular Plant

State Status: C

SRANK: S2

HP Track: Y

ELCODE: PDROS0W031

EO ID: 6625

First Obs:

Last Obs:

Confirmed:

Directions: [REDACTED]

County Name

Ecoregion

Source Feature [Uncertainty Type (Distance)]

Marion

WV

Point [Areal - Estimated (8050 m)]

Town-Range Sec Note

QuadCode QuadName

Watershed

[REDACTED]

[REDACTED]

1709000701 - MILL CREEK

Owner Name/Type

Owner Comments

Managed Area Name

EO Type:

Minimum Elev.(m):

Annual Observations

EO Data:

EO Comments:

Protection:

Management:

General: KECK, D. 1938. REVISION OF HORKELIA AND IVESIA. LLOYDIA I(1-4): 75-109. HERBARIUM COLLECTION: NELSON, JC. 96 (SU) [THE HERBARIUM CODE OF 'SU' IS ASSUMED TO BE DUDLEY HERBARIUM AT STANFORD UNIVERSITY]

Scientific Name: *Horkelia congesta ssp. congesta*

Common Name: **Shaggy horkelia**

Federal Status: SOC

GRANK: G4T2

NHP List: 1

Category: Vascular Plant

State Status: C

SRANK: S2

HP Track: Y

ELCODE: PDROS0W031

EO ID: 7471

First Obs:

Last Obs:

Confirmed:

Directions: [REDACTED]

County Name

Ecoregion

Source Feature [Uncertainty Type (Distance)]

Marion

WV

Point [Areal - Estimated (4000 m)]

Town-Range Sec Note

QuadCode QuadName

Watershed

[REDACTED]

[REDACTED]

1709000701 - MILL CREEK

Owner Name/Type

Owner Comments

Managed Area Name

EO Type:

Minimum Elev.(m):

Annual Observations

EO Data:

EO Comments:

Protection:

Management:

General: KECK, D. 1938. REVISION OF HORKELIA AND IVESIA. LLOYDIA I(1-4): 75-109. HERBARIUM COLLECTION: GALE 213 (SU)

Scientific Name: *Horkelia congesta ssp. congesta*

Common Name: **Shaggy horkelia**

Federal Status: SOC

GRANK: G4T2

NHP List: 1

Category: Vascular Plant

State Status: C

SRANK: S2

HP Track: Y

ELCODE: PDROS0W031

EO ID: 13542

First Obs: 1920-07-10

Last Obs: 1920-07-10

Confirmed:

Directions: [REDACTED]

County Name

Ecoregion

Source Feature [Uncertainty Type (Distance)]

Marion

WV

Point [Areal - Estimated (4000 m)]

Town-Range Sec Note

QuadCode QuadName

Watershed

[REDACTED]

[REDACTED]

1709000701 - MILL CREEK

Owner Name/Type

Owner Comments

Managed Area Name

EO Type:

Minimum Elev.(m):

Annual Observations

EO Data:

EO Comments:

Protection:

Management:

General: KECK, D. 1938. REVISION OF HORKELIA AND IVESIA. LLOYDIA I(1-4): 75-109. HERBARIUM COLLECTION: 1) CLEMENS, 7-10-20, CAS. 2) J.C. NELSON 263, SU AND 1153, 1303 (GH). 3) THOMPSON 2515, 4895 (SU). 4) J.C. NELSON 2175 (GH)-6 MI SE OF SALEM'

Scientific Name: **Castilleja levisecta**

Common Name: **Golden paintbrush**

Federal Status: LT GRANK: G1 NHP List: 1-ex Category: Vascular Plant
State Status: LE SRANK: SH HP Track: Y ELCODE: PDSCR0D1S0
EO ID: 7461 First Obs: 1910 Last Obs: 1916-05-16 Confirmed:
Directions: [REDACTED]

County Name: Marion Ecoregion: WV Source Feature [Uncertainty Type (Distance)]: Point [Areal - Estimated (8050 m)]
Town-Range Sec Note: [REDACTED] QuadCode QuadName: [REDACTED] Watershed: 1709000701 - MILL CREEK, 1709000702 - RICKREALL CREEK, 1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES, 1709000907 - SILVER CREEK

Owner Name/Type: Owner Comments: Managed Area Name:

EO Type: Minimum Elev.(m): 46 Annual Observations
EO Data: HERBARIUM COLLECTION: PECK, #3462, #3463, #3464, 5-7-10, WILLU AND J.C. NELSON, #549, 5-6-16, GH.
EO Comments: WET MEADOW (NELSON). DAMP OPEN GROUND (PECK).
Protection:
Management:
General: HERBARIUM RECORDS

Scientific Name: **Castilleja levisecta**

Common Name: **Golden paintbrush**

Federal Status: LT GRANK: G1 NHP List: 1-ex Category: Vascular Plant
State Status: LE SRANK: SH HP Track: Y ELCODE: PDSCR0D1S0
EO ID: 16787 First Obs: 1916 Last Obs: 1916-05-06 Confirmed: Y
Directions: [REDACTED]

County Name: Marion Ecoregion: WV Source Feature [Uncertainty Type (Distance)]: Point [Areal - Estimated (8050 m)]
Town-Range Sec Note: [REDACTED] QuadCode QuadName: [REDACTED] Watershed: 1709000703 - WILLAMETTE RIVER, SALEM TO NEWBERG TRIBUTARIES

Owner Name/Type: Owner Comments: Managed Area Name:

EO Type: Minimum Elev.(m): 91 Annual Observations
EO Data: HERBARIUM COLLECTION: NELSON, 5-6-16, NO #, WSU.
EO Comments: WET PASTURE
Protection:
Management:
General:

Scientific Name: **Scirpus pendulus**

Common Name: **Drooping bulrush**

Federal Status: GRANK: G5 NHP List: 2 Category: Vascular Plant
State Status: SRANK: S1 HP Track: Y ELCODE: PMCYP0Q160
EO ID: 24584 First Obs: 1948 Last Obs: 1948 Confirmed:
Directions: [REDACTED]

County Name: Marion Ecoregion: WV Source Feature [Uncertainty Type (Distance)]: Point [Areal - Estimated (4000 m)]
Town-Range Sec Note: [REDACTED] QuadCode QuadName: [REDACTED] Watershed: 1709000701 - MILL CREEK

<u>Owner Name/Type</u>	<u>Owner Comments</u>	<u>Managed Area Name</u>
EO Type:	Minimum Elev.(m):	<u>Annual Observations</u>
EO Data: [NO DATA GIVEN]		
EO Comments: [NO DATA GIVEN]		
Protection:		
Management:		
General: OSC HERBARIUM. COLLECTION BY DONKER/GILKEY 1948. 1999 BY BRUCE NEWHOUSE.		

27 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	ORNHIC 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. 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.