

From: [Lindsey Wise](#)
To: [Turner, Ed](#)
Cc: [Betty Grizzle](#)
Subject: Re: ORBIC EO Poly / EOdata Table
Date: Friday, January 6, 2017 5:13:08 PM
Attachments: [Wolverine EOs.pdf](#)
[Turner.zip](#)

Hi Ed,

It's no trouble. I ran a PDF report of all our wolverine EOs, it can be handy to have the tabular data in one document. The three unmapped EOs are vague locations as we suspected, though if needed to you could guess the approximate area based on the descriptions.

I also discovered that some data had been entered into the wrong field and so wasn't showing up in our exports, so I moved it - check EO_ID 36345 to see, this is the record near Roseburg. It just gives some more info about why we think the record is reliable, description of what was seen, etc.

As for the independent source features, since they aren't tracked as EOs they won't join to any of those tables in the file geodatabase, but they SHOULD join to the visitdata table by joining SOURCE_FEATURE_ID to SFEAT_ID. The Visit table will tell you what information we have about those sightings. If that's not working for you let me know and I can create a new export of those.

The only other useful info for the independent features would be the source feature descriptor and source feature locator fields, which describe the location (e.g., "Boulder Creek Wilderness near Medicine Creek, off Rd. 450 in upper unit"). Those fields are in the sitedata table (sometimes called sourcedata).

Lastly, I zipped up a shapefile from our point observation database for wolverine sightings - this is an un-QC'd dataset, we use it to store animal observations that we may use at some point, for modeling or other projects. Many of these points are also in the independent source feature set but some are not, either we haven't yet gone through them or they may be more questionable records. There's a disclaimer PDF for this set as well.

Let me know if you have more questions or need anything else.

Cheers,
Lindsey

On Fri, Jan 6, 2017 at 3:02 PM, Turner, Ed <ed_turner@fws.gov> wrote:
| Hello Lindsey, I hope I didn't cause too much work for you.

I just now drilled down in the Eodata table and was able to determine that EO_ID: 2892 and 15068 because they were just too general in location information, were most likely not mapped.

Likewise it seems like the EO_ID 1061 was not mapped either due to the fact that it only reports as 9 MI. SE of Mt Hood. Meaning it could have a very large inaccuracy.

We will just hold on to these records in tabular form as they had historically been seen in Mt Hood vicinity and out west of the Three Sisters.

I do appreciate your help with the source_pt data and that will help determine if we retain those or just look further at the USFS records we will receive.

Thank you again for all your assistance and have a great weekend,

Ed

--

Edwin Turner, Geographer
GIS Mapping and Analysis Branch

DOI-R8-CFWO
USFWS Carlsbad Fish and Wildlife Office
2177 Salk Ave. Suite 250
Carlsbad, CA 92008
[760.431.9440](tel:760.431.9440) x266

Ed_Turner@fws.gov
[760.431.9440](tel:760.431.9440) x266

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Lindsey K. Wise
Biodiversity Data Manager | Oregon Biodiversity Information Center | <http://inr.oregonstate.edu/orbic>
Oregon iMapInvasives Data Administrator | sites.google.com/site/orimapresources/
Institute for Natural Resources | <http://inr.oregonstate.edu/>
Street | Portland State University | SEC 140 | 2112 SW 5th Ave. | Portland OR 97201
Mail | Institute for Natural Resources | Mailcode: INR | P.O. Box 751 | Portland, OR 97207
e-mail | lindsey.wise@pdx.edu Phone | 503-725-9951

Scientific Name: ***Gulo gulo***

EO NUM: 1

Common Name: **Wolverine**

EO ID: 33662

Federal Status:

GRANK: G4

NHP List: 2

Category: Vertebrate Animal

State Status: LT

SRANK: S1

HP Track: Y

ELCODE: AMAJF03010

Confirmed: First Obs: 2011-03-14 Last Obs: 2012-06-17 EO Rank: E - Verified extant (viability not assessed)

Directions: Located in Wallowa County in the Eagle Cap Wilderness.

<u>County Name</u>	<u>Ecoregion</u>	<u>Owner Name/Type</u>	<u>Watershed</u>
Baker	BM		170502010601 - Upper Pine Creek
Union			170502010603 - Clear Creek
Wallowa			170502010608 - Lake Fork Creek
			170502031001 - Upper Eagle Creek
			170502031002 - West Eagle Creek
			170502031004 - East Fork Eagle Creek
			170502031005 - Paddy Creek-Eagle Creek
			170502031006 - Little Eagle Creek
			170601020101 - North Fork Imnaha River
			170601020102 - South Fork Imnaha River
			170601020103 - Rock Creek-Imnaha River
			170601020301 - Salt Creek-Big Sheep Creek
			170601020302 - Lick Creek
			170601020401 - Upper Little Sheep Creek
			170601040501 - North Fork Catherine Creek
			170601040502 - South Fork Catherine Creek
			170601040504 - Little Catherine Creek
			170601040506 - Little Creek
			170601040702 - Mill Creek
			170601040901 - Upper Indian Creek
			170601040903 - North Fork Clark Creek
			170601050101 - West Fork Wallowa River-Wallowa River
			170601050106 - Hurricane Creek
			170601050108 - Spring Creek
			170601050109 - Wallowa Lake-Wallowa River
			170601050201 - Upper Lostine River
			170601050202 - Lake Creek-Lostine River
			170601050203 - Silver Creek-Lostine River
			170601050204 - Lower Lostine River
			170601050401 - Upper Bear Creek
			170601050402 - Lower Bear Creek
			170601050501 - Upper Minam River
			170601050502 - China Cap Creek-Minam River
			170601050503 - North Minam River
			170601050504 - Chaparral Creek-Minam River
			170601050505 - Little Minam River
			170601050506 - Trout Creek-Minam River
			170601050507 - Lower Minam River
			170601050603 - Deer Creek

<u>Town-Range</u>	<u>Sec</u>	<u>Note</u>	<u>QuadCode</u>	<u>QuadName</u>	<u>Managed Area Name</u>
003S043E	31		44117-H2	Jimtown	Craig Mountain Lake pRNA
003S042E	36		44117-H3	Sparta Butte	West Razz Lake pRNA
003S042E	35		45117-A1	Deadman Point	EAGLE CAP WILDERNESS AREA
003S042E	34		45117-A2	Cornucopia	Mount Joseph pRNA
003S042E	33		45117-A3	Krag Peak	Standley pRNA
003S042E	32		45117-A4	Bennet Peak	Sturgill pRNA
003S042E	31		45117-A5	Flagstaff Butte	Nebo pRNA
003S041E	36		45117-B1	Lick Creek	Tenderfoot Basin pRNA
003S041E	35		45117-B2	Aneroid Mountain	Clear Creek Ridge pRNA
003S043E	08		45117-B3	Eagle Cap	
002S041E	09		45117-B4	Steamboat Lake	
002S041E	08		45117-B5	China Cap	
002S044E	18		45117-B6	Little Catherine Creek	
002S043E	13		45117-C2	Joseph	
002S043E	14		45117-C3	Chief Joseph Mountain	

002S043E	15	45117-C4	North Minam Meadows
002S043E	16	45117-C5	Jim White Ridge
002S043E	17	45117-C6	Mount Fanny
002S043E	18	45117-D3	Enterprise
002S042E	13	45117-D4	Lostine
002S042E	14	45117-D5	Fox Point
002S042E	15	45117-D6	Mount Moriah
002S042E	16	45117-E6	Minam
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Source Feature	Uncertainty Type (Distance)	[Use Class]
58149 - Polygon	Delimited (8 m)	Not applicable

Annual Observations

- 2012 - 1
- 2011 - 3

SFeat ID	Date	Visit data
58149	2012-06-17	1 wolverine was detected by wildlife camera traps.
58149	2011-04-17	Researcher Dr. Audrey Magoun found the wolverine tracks in the snow on April 17 while hiking to a remote camera site set up to detect wolverines. She followed the tracks for about a mile until they left the river bottom headed into the high country.
58149	2011-04-13	Detection of 1 adult from wildlife camera.
58149	2011-04-02	Detection of 1 adult from wildlife camera.
58149	2011-03-14	3 male wolverines were detected by wildlife camera traps.

Occurrence Data

EO Type:

Min. Elev.(m):

EO Data: 2012: 1 adult male observed via wildlife trapping camera. 2011: 3 adults observed via wildlife trapping camera; 2 adult males and 1 of unknown sex.

EO Comments:

Protection:

Management:

Specimens:

General: 2012. From AJ Magoun, P Valkenburg, CD Long, and JK Long. 2013. Monitoring wolverines in northeast Oregon. January 2011-December 2012. Final Report. The Wolverine Foundation, Inc., Kuna, Idaho. [http://wolverinefoundation.org/]. From The Wolverine Conservation Group, Inc. 2011: From Oregon Department of Fish and Wildlife News Release. Meg Kenagy(1); Meg Kenagy & Pat Valkenburg(2).

Scientific Name: ***Gulo gulo***

EO NUM: 13

Common Name: **Wolverine**

EO ID: 1061

Federal Status:

GRANK: G4

NHP List: 2

Category: Vertebrate Animal

State Status: LT

SRANK: S1

HP Track: Y

ELCODE: AMAJF03010

Confirmed: First Obs: 1972

Last Obs: 1972-11

EO Rank: H - Historical

Directions: 9 MI. SE OF MT. HOOD, MT. HOOD NATIONAL FOREST

County NameEcoregionOwner Name/TypeWatershed

Hood River

FEDERAL

Town-RangeSecNoteQuadCodeQuadNameManaged Area Name

BARLOW RANGER DISTRICT

MOUNT HOOD NATIONAL FOREST

Source FeatureUncertainty Type (Distance) [Use Class]Annual Observations

1061 - Point

Estimated (1 m)

Not applicable

• 2012 - 1

• 2011 - 3

SFeat IDDateVisit data

1061

1972-11

9 MI. SE OF MT. HOOD, MT. HOOD NATIONAL FOREST. 1 WOLVERINE REPORTED BY R.N. ROSS, U.S. FOREST SERVICE. Barlow Ranger District. Reference: 1974 May-June article in Murrelet, Recent wolverine records in Washington and Oregon. A74UNK01ORUS.

Occurrence Data

EO Type:

Min. Elev.(m):-339

EO Data: 1 WOLVERINE REPORTED BY R.N. ROSS, U.S. FOREST SERVICE

EO Comments:

Protection:

Management:

Specimens:

General:

Scientific Name: ***Gulo gulo***

EO NUM: 14

Common Name: **Wolverine**

EO ID: 15068

Federal Status:

GRANK: G4

NHP List: 2

Category: Vertebrate Animal

State Status: LT

SRANK: S1

HP Track: Y

ELCODE: AMAJF03010

Confirmed: First Obs: 1896

Last Obs: 1896

EO Rank: H - Historical

Directions: "MT. HOOD SECTION"

County NameEcoregionOwner Name/TypeWatershed

Hood River

Town-RangeSecNoteQuadCodeQuadNameManaged Area NameSource FeatureUncertainty Type (Distance) [Use Class]Annual Observations

15068 - Point

Estimated (1 m)

Not applicable

SFeat IDDateVisit data

15068

1896

"MT. HOOD SECTION". HISTORICAL RECORD: WOLVERINE REPORTED BY ADOLPH ASCHOFF - NUMBER SIGHTED & EXACT LOCATION NOT SPECIFIED. UNMAPPABLE - LOCATION TOO GENERAL. References: Bailey, 1936. The mammals and life zones of Oregon. B36BAI01ORUS. Olterman and Verts, 1972. Endangered plants and animals of Oregon IV. N72OLT01ORUS.

Occurrence Data

EO Type:

Min. Elev.(m):-339

EO Data: HISTORICAL RECORD: WOLVERINE REPORTED BY ADOLPH ASCHOFF - NUMBER SIGHTED & EXACT LOCATION NOT SPECIFIED.

EO Comments:

Protection:
 Management:
 Specimens:
 General: UNMAPPABLE - LOCATION TOO GENERAL

Scientific Name: ***Gulo gulo*** EO NUM: 15
 Common Name: **Wolverine** EO ID: 2892
 Federal Status: GRANK: G4 NHP List: 2 Category: Vertebrate Animal
 State Status: LT SRANK: S1 HP Track: Y ELCODE: AMAJF03010
 Confirmed: First Obs: 1912 Last Obs: 1912 EO Rank: H - Historical
 Directions: UPPER MCKENZIE VALLEY, W OF THREE SISTERS PEAKS

County Name	Ecoregion	Owner Name/Type	Watershed
Lane	WC		
Town-Range	Sec	Note	QuadCode QuadName
			Managed Area Name

Source Feature	Uncertainty Type (Distance)	[Use Class]	Annual Observations
2892 - Point	Estimated (1 m)	Not applicable	

SFeat ID	Date	Visit data
2892	1912	UPPER MCKENZIE VALLEY, W OF THREE SISTERS PEAKS. HISTORICAL RECORD: 1 WOLVERINE TRAPPED BY GEORGE MOODY, 1912. UNMAPPABLE - LOCATION TOO GENERAL. References: Bailey, V. 1936. The Mammals and Life Zones of Oregon. B36BAL01ORUS. Olterman and Verts, 1972. Endangered plants and animals of Oregon IV. Mammals. N72OLT01ORUS.

Occurrence Data

EO Type: Min. Elev.(m):
 EO Data: HISTORICAL RECORD: 1 WOLVERINE TRAPPED BY GEORGE MOODY, 1912
 EO Comments:
 Protection:
 Management:
 Specimens:
 General: UNMAPPABLE - LOCATION TOO GENERAL

Scientific Name: ***Gulo gulo*** EO NUM: 16
 Common Name: **Wolverine** EO ID: 36345
 Federal Status: GRANK: G4 NHP List: 2 Category: Vertebrate Animal
 State Status: LT SRANK: S1 HP Track: Y ELCODE: AMAJF03010
 Confirmed: First Obs: 2011-12-23 Last Obs: 2011-12-23 EO Rank: E - Verified extant (viability not assessed)
 Directions: 2211 Swan Hill Road. Roseburg, OR

County Name	Ecoregion	Owner Name/Type	Watershed
Douglas	KM	Bob Schechler	171003021206 - Lookingglass Creek
Town-Range	Sec	Note	QuadCode QuadName
028S007W	23		43123-A4 Winston
			Managed Area Name

Source Feature	Uncertainty Type (Distance)	[Use Class]	Annual Observations
64639 - Point	Estimated (50 m)	Not applicable	• 2011 - 1 wolverine

SFeat ID	Date	Visit data
64639	2011-12-23	Terry Farrell of the Roseburg ODFW branch interviewed Bob Sechler 5 days after the observation. The animal was described as roughly 3 feet long, with a tail "12" long or so". It was described as being taller than his Boxer dog, and taller than river otters he had seen. Although he didn't see the animal's face, the observer noted rounded ears, no markings or stripes, and a dark brown to black coloration. Mr. Sechler is an outdoorsman and is familiar with river otters, mink, marten, bears, racoons, foxes, coyotes, badgers, etc. This is probably a reliable wolverine sighting.

Occurrence Data

EO Type: Min. Elev.(m): 305

EO Data: 2011: Terry Farrell of the Roseburg ODFW branch interviewed Bob Sechler 5 days after the observation. The animal was described as roughly 3 feet long, with a tail "12" long or so". It was described as being taller than his Boxer dog, and taller than river otters he had seen. Although he didn't see the animal's face, the observer noted rounded ears, no markings or stripes, and a dark brown to black coloration. Mr. Sechler is an outdoorsman and is familiar with river otters, mink, marten, bears, racoons, foxes, coyotes, badgers, etc. This is probably a reliable wolverine sighting.

EO Comments:

Protection:

Management:

Specimens:

General:

5 records total