

**From:** [Guinotte, John](#)  
**To:** [Weir, Rich ENV:EX](#)  
**Subject:** Re: Wolverine and trapping  
**Date:** Friday, June 9, 2017 2:30:41 PM

---

Thanks Rich. Have a nice weekend.  
John

John Guinotte  
Fish and Wildlife Biologist  
Ecological Services  
U.S. Fish and Wildlife Service  
Mountain Prairie Region 6  
134 Union Blvd., Lakewood, CO 80228  
303-236-4264  
[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)

On Fri, Jun 9, 2017 at 1:54 PM, Weir, Rich ENV:EX <[Rich.Weir@gov.bc.ca](mailto:Rich.Weir@gov.bc.ca)> wrote:

Yes, that is correct. I think I just forgot to update the field name to the correct year.

R

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]  
**Sent:** Friday, June 9, 2017 12:52  
**To:** Weir, Rich ENV:EX  
**Subject:** Re: Wolverine and trapping

Thanks Rich,

One more question and then I will leave you alone. In the shapefile 'Harv\_yea\_7" = 2015 correct? Need to make sure I have the correct order for the years to associate the sex breakdown.

Thanks John

John Guinotte  
Fish and Wildlife Biologist

Ecological Services  
U.S. Fish and Wildlife Service  
Mountain Prairie Region 6

134 Union Blvd., Lakewood, CO 80228

303-236-4264

[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)

On Fri, Jun 9, 2017 at 9:21 AM, Weir, Rich ENV:EX <[Rich.Weir@gov.bc.ca](mailto:Rich.Weir@gov.bc.ca)> wrote:

Here is the portion of the harvest for each MU for which sex information is available for southern management units.

Harvest Year	Harvest_MU	F	M
2007	3-33		1
2007	3-42	1	1
2007	3-43	2	
2007	3-44	1	
2007	4-15		2
2007	4-16		1
2007	4-17		1
2007	4-20	1	1
2007	4-24		1
2007	4-31	1	2
2007	5-13	1	3
2008	3-40	1	1
2008	3-42	1	
2008	3-43	2	4
2008	4-1		1
2008	4-17		1
2008	4-20		4
2008	4-23		1
2008	4-31		1
2008	4-38	1	
2008	4-39	1	
2008	5-12	1	
2008	5-13	3	1
2009	3-37	1	1
2009	4-15	1	3
2009	4-16		1
2009	4-17		2

2009	4-20	2	6
2009	4-22	1	1
2009	4-23		1
2009	4-24	1	
2009	4-31		1
2009	4-34	1	
2009	4-36		1
2009	4-5		1
2009	5-13		2
2010	3-42		1
2010	3-44	1	2
2010	4-2		1
2010	4-31	1	2
2010	4-32	1	
2010	4-34		1
2010	4-37	1	
2010	5-13	1	1
2010	5-15		2
2011	3-33	1	
2011	4-20	1	1
2011	4-34	1	1
2011	4-35		1
2011	4-37		1
2011	4-38	1	1
2011	5-13	2	3
2011	5-2		1
2012	2-11	1	1
2012	3-40	1	1
2012	3-42	1	1
2012	4-17		1
2012	4-20	1	
2012	4-23		1
2012	4-24		3
2012	4-26	1	
2012	4-31		2
2012	4-34	1	1
2012	4-35		1
2012	4-39	1	3

2012	4-4	1	1
2012	5-13	1	1
2012	5-6	1	
2013	3-37	1	1
2013	3-41		1
2013	3-42		1
2013	4-23	1	2
2013	4-29	1	
2013	4-33	1	
2013	4-34		3
2013	4-37		1
2013	5-13	1	4
2014	3-39		1
2014	3-40		1
2014	3-41	1	
2014	4-18		2
2014	4-20	1	1
2014	4-22		1
2014	4-25		1
2014	4-29		1
2014	4-39	1	
2014	5-1	1	
2015	3-40	1	
2015	4-1		2
2015	4-17	1	1
2015	4-18		1
2015	4-20	1	1
2015	4-23		2
2015	4-29	1	
2015	4-31	1	1
2015	4-34	2	2
2015	4-35	1	1
2015	4-36	1	
2015	4-37	1	
2015	4-39	1	1
2015	4-6		1
2015	5-13		2
2015	5-15		2

---

Rich

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]  
**Sent:** Friday, June 9, 2017 06:43  
**To:** Weir, Rich ENV:EX  
**Subject:** Re: Wolverine and trapping

Thanks Rich, We'd take anything you can give us re sex ids.

Much appreciated.

John

John Guinotte  
Fish and Wildlife Biologist

Ecological Services  
U.S. Fish and Wildlife Service  
Mountain Prairie Region 6

134 Union Blvd., Lakewood, CO 80228

303-236-4264  
[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)

On Fri, Jun 9, 2017 at 7:39 AM, Weir, Rich ENV:EX <[Rich.Weir@gov.bc.ca](mailto:Rich.Weir@gov.bc.ca)> wrote:

Only partially. The data set is an amalgamation of fur harvest reports (no sex ID'd) and compulsory reports (sex ID'd), so I could provide sex for only some of the harvest.

**NOTE: new phone number!**

Richard D. Weir, R.P.Bio. | Carnivore Conservation Specialist

Ecosystems Branch, Ministry of Environment

PO Box 9338 Stn Prov Govt | 4<sup>th</sup> Floor, 2975 Jutland Road

Victoria, BC | V8W 9M1 | **778.698.4390**

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]  
**Sent:** Friday, June 9, 2017 06:35  
**To:** Weir, Rich ENV:EX  
**Subject:** Re: Wolverine and trapping

Hi Rich,

I went over your date with Betty Grizzle, our lead biologist writing the species status assessment. She asked me if you had a data field for the trapping data you sent me that breaks out the sex of the wolverines harvested. Is this something you have? It would be good to know how many of those were females.

Thanks John

John Guinotte  
Fish and Wildlife Biologist

Ecological Services  
U.S. Fish and Wildlife Service  
Mountain Prairie Region 6

134 Union Blvd., Lakewood, CO 80228

303-236-4264  
[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)

On Mon, Jun 5, 2017 at 2:54 PM, Weir, Rich ENV:EX <[Rich.Weir@gov.bc.ca](mailto:Rich.Weir@gov.bc.ca)> wrote:

Hi John,

Sorry for the extreme delay in getting this to you. I had to re-analyse the data when I found a glitch in my analysis and haven't had much time to dedicate to this until recently.

Attached is the wolverine harvest since 2007 for southern BC wildlife management units. You will need to convert the .zpp file to .zip then decompress to get the shapefiles.

Rich

NOTE: new phone number!

Richard D. Weir, R.P.Bio. | Carnivore Conservation Specialist

Ecosystems Branch, Ministry of Environment

PO Box 9338 Stn Prov Govt | 4<sup>th</sup> Floor, 2975 Jutland Road

Victoria, BC | V8W 9M1 | 778.698.4390

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]

**Sent:** Wednesday, April 12, 2017 06:14

**To:** Weir, Rich ENV:EX

**Subject:** Fwd: Wolverine and trapping

Hi Rich,

Sorry to hassle you again, but we are getting pressed for time. Any idea when you will be able to send me the BC trapping data?

Thanks John

----- Forwarded message -----

From: **Guinotte, John** <[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)>

Date: Mon, Mar 27, 2017 at 10:30 AM

Subject: Re: Wolverine and trapping

To: "Weir, Rich ENV:EX" <[Rich.Weir@gov.bc.ca](mailto:Rich.Weir@gov.bc.ca)>

Hi Rich,

Do you have any updates on when you think you'll be able to send over the BC trapping data? The Alberta data came in last week.

Many thanks, John

John Guinotte  
Fish and Wildlife Biologist

Ecological Services  
U.S. Fish and Wildlife Service  
Mountain Prairie Region 6

134 Union Blvd., Lakewood, CO 80228

303-236-4264  
[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)

On Thu, Mar 9, 2017 at 1:24 PM, Weir, Rich ENV:EX <[Rich.Weir@gov.bc.ca](mailto:Rich.Weir@gov.bc.ca)> wrote:

Sure, I will be around tomorrow if you want to chat. I've included the proposal outline for our population genetics project to give you a bit more background on what we are hoping to achieve. Bill Harrower (cc'd) is helping run the analysis.

Cheers,

Rich

Richard D. Weir, R.P.Bio. | Carnivore Conservation Specialist

Ecosystems Branch, Ministry of Environment

PO Box 9338 Stn Prov Govt | 4<sup>th</sup> Floor, 2975 Jutland Road

Victoria, BC | V8W 9M1 | 250.356.8186

**From:** Guinotte, John [mailto:[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)]  
**Sent:** Tuesday, March 7, 2017 13:48  
**To:** Weir, Rich ENV:EX; Betty Grizzle  
**Subject:** Re: Wolverine and trapping

Hi Rich,

Do you have some time to talk this week with Betty Grizzle and I about your genetics results from the 300 pelts? Betty is the lead biologist for us on the SSA we are working on.

Thanks John

On Thu, Mar 2, 2017 at 12:31 PM, Weir, Rich ENV:EX <[Rich.Weir@gov.bc.ca](mailto:Rich.Weir@gov.bc.ca)> wrote:

You are in luck – I just finished collating and compiling the wolverine harvest data for the province for 2007-2015. Let me know what you are looking for and I can probably help you out. It is public information, so easily share-able.

Rich

Richard D. Weir, R.P.Bio. | Carnivore Conservation Specialist  
Ecosystems Branch, Ministry of Environment  
PO Box 9338 Stn Prov Govt | 4<sup>th</sup> Floor, 2975 Jutland Road  
Victoria, BC | V8W 9M1 | 250.356.8186

---

**From:** Shevenell Webb [mailto:[Shevenell.Webb@ab-conservation.com](mailto:Shevenell.Webb@ab-conservation.com)]  
**Sent:** Monday, February 27, 2017 11:01  
**To:** Guinotte, John  
**Cc:** Weir, Rich ENV:EX; Mowat, Garth FLNR:EX  
**Subject:** Re: Wolverine and trapping

Hi John,

I'm just checking with the Alberta government about releasing the data. I will get back to you once I can find out more. I don't know if there is a B.C. Furbearer Biologist, but Richard Weir or Garth Mowat might know how you could get B.C. wolverine harvest locations.

cheers, Shevenell

---

Shevenell Webb, Wildlife Biologist

Alberta Conservation Association

phone: 207-242-2875

email: [shevenell.webb@ab-conservation.com](mailto:shevenell.webb@ab-conservation.com)

---

**From:** Guinotte, John <[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)>

**Sent:** Monday, February 27, 2017 9:20 AM

**To:** Shevenell Webb

**Cc:** Betty Grizzle

**Subject:** Fwd: Wolverine and trapping

Dear Shevenell,

We are currently involved in a species status assessment for the wolverine in the lower 48 states and are trying to obtain all occurrence records, den sites, and trapline information for Alberta and BC. Would you be able to provide this information from your 2016 paper? And do you know who I should contact to obtain this information for BC? Happy to chat on the phone if you prefer.

Many thanks,

John

John Guinotte, PhD  
Fish and Wildlife Biologist

Ecological Services  
U.S. Fish and Wildlife Service  
Mountain Prairie Region 6

134 Union Blvd., Lakewood, CO 80228

303-236-4264

[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)

----- Forwarded message -----

From: **Doherty, Kevin** <[kevin\\_doherty@fws.gov](mailto:kevin_doherty@fws.gov)>

Date: Mon, Feb 27, 2017 at 6:54 AM

Subject: Fwd: Wolverine and trapping

To: Stephen Torbit <[stephen\\_torbit@fws.gov](mailto:stephen_torbit@fws.gov)>, "Guinotte, John" <[john\\_guinotte@fws.gov](mailto:john_guinotte@fws.gov)>

see below from Boyce. Two names for trap line. No effort data. Low density pops and little harvest is the short story from his experience.

----- Forwarded message -----

From: **Mark Boyce** <[boyce@ualberta.ca](mailto:boyce@ualberta.ca)>

Date: Sun, Feb 26, 2017 at 10:44 PM

Subject: Re: Wolverine and trapping

To: "Doherty, Kevin" <[kevin\\_doherty@fws.gov](mailto:kevin_doherty@fws.gov)>

Hi Kevin:

On Crown land (govt land in mtns) all trapping is restricted to registered traplines in Alberta. Although there has been an attempt to compile effort data, e.g., trap nights, it has not happened yet. On average about 50% of traplines are actively trapped in any particular year. Harvests of wolverines are rare in southern Alberta and BC. We know that they can move quite a long distance, especially young males, so there will be no surprise when wolverines are captured in southern Alberta and BC, but generally the densities are very low. I have a trapline at Nordegg and I had a wolverine ravaging my marten sets last year (2015). But it did not stick around and I never had an opportunity to trap him/her. We have a quota of 1 wolverine per trapline per year but I've never caught one.

Shevenell has compiled all wolverine harvest records from registered trapline fur reports, and I believe that these data would be the best available for Alberta. Similar records exist for BC.

I'm not sure that I told you anything new--we do not have records on trapping effort. And I doubt that trappers in southern areas are likely to be making many sets for wolverines. Most would be caught in wolf or lynx sets.

Cheers,

Mark

On Tue, Feb 21, 2017 at 1:04 PM, Doherty, Kevin <[kevin\\_doherty@fws.gov](mailto:kevin_doherty@fws.gov)> wrote:

Mark,

Some folks in the USFWS asked if I would reach out to you about your opinion on a potential Canada and United States boundary effect for Wolverine. Specifically, there is a desire to understand if there is any data on trapping effort and harvest totals for wolverines in southern B.C. and Alberta. From your Alberta Wolverine paper in JWM it appeared that wolverine trapping was low in the trapping record from Southern Alberta. So a couple questions:

Is there an information base that would include trapping effort and trapping success for wolverines that could be used to understand the potential effects of movement on Wolverine between the US and Canada?

If there is data, who would we need to contact to discuss getting access to the data?

Please let me know if you would like to discuss via the phone.

Cheers

Kevin

p.s. We have met a long time ago at the wildlife society meetings in Calgary, when I was a brand new Ph.D. student. When I was googling your information I saw that we were co-authors in Google Scholar, but could not figure out what the paper was. It looked this morning at my pubs, and it was Krissy Bush's Sage-grouse Genetics work.

--

---

Kevin Doherty, PhD  
Spatial Ecologist  
USFWS Region 6 --Science Applications  
134 Union Blvd, Lakewood, CO 80228  
Phone: [\(303\) 921-0524](tel:3039210524)  
Email: [kevin\\_doherty@fws.gov](mailto:kevin_doherty@fws.gov)

SAGEBRUSH: OUR BRUSH IS WISER THAN YOURS

---

--

Mark S. Boyce, Ph.D., FRSC

Professor of Ecology, and

Alberta Conservation Association Chair in Fisheries & Wildlife

Department of Biological Sciences, CCIS 1-271, University of Alberta

Edmonton T6G 2E9 CANADA

tel. 780-492-0081

cell 780-913-3474

website: <http://grad.biology.ualberta.ca/labs/boyce/>

--

---

Kevin Doherty, PhD  
Spatial Ecologist  
USFWS Region 6 --Science Applications  
134 Union Blvd, Lakewood, CO 80228  
Phone: (303) 921-0524  
Email: [kevin\\_doherty@fws.gov](mailto:kevin_doherty@fws.gov)

SAGEBRUSH: OUR BRUSH IS WISER THAN YOURS

---