

**From:** [Turner, Ed](#)  
**To:** [Nichole Bjornlie](#)  
**Cc:** [Betty Grizzle](#)  
**Subject:** Re: Wolverine records  
**Date:** Wednesday, January 18, 2017 11:03:19 AM

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Hi Nichole, No need to dig too much on the non detection survey effort, but on the positive surveys main things if you have it would be:

Observer Name  
Field date or dates of survey  
Notes if they have them about what they found

if that's possible or not too much effort on your end.

I'll let Betty chime in if we need non-detection data info.

\*\* I'm trying to tease out of all data I've received, any den information. Sometimes notes will tell if they saw tracks, camera record, fur, and even den information. I'll use all the data regardless, but I'll also re-select den records and compile those in another feature class for all states.

Thnaks again for all the help,

Ed

On Wed, Jan 18, 2017 at 9:05 AM, Nichole Bjornlie <[nichole.bjornlie@wyo.gov](mailto:nichole.bjornlie@wyo.gov)> wrote:

Hi Ed,

I've attached spreadsheets for the data from our Wildlife Observation System records; hopefully this will be fairly useful. As for the detections and nondetections from our work the last couple of years, I just pulled out a spreadsheet with locations. I can dig through the database for more specific information if you let me know what you're looking for. Either way, let me know!

Thanks,  
Nichole

On Tue, Jan 17, 2017 at 12:12 PM, Turner, Ed <[ed\\_turner@fws.gov](mailto:ed_turner@fws.gov)> wrote:

Hi Nichole, By chance do you have any metadata fields for these data?

If not no worries, I'll use your email and contact info to create a simple metadata file. Just need to make sure I have something in each data for source reference and such.

Just thought I'd ask.

Thanks, Ed

On Tue, Jan 17, 2017 at 9:02 AM, Nichole Bjornlie <[nichole.bjornlie@wyo.gov](mailto:nichole.bjornlie@wyo.gov)> wrote:

Hi Betty and Ed,

I've attached a zip file with a few GIS layers from our wolverine work. For some reason, our Game and Fish e-mail system doesn't like zip files, so I renamed the extension to .zzz to get around this. You should be able to download the folder, rename the extension to .zip, and open everything fine. If not, please let me know, and I'll try to send these as a series of e-mails instead.

In the folder, I have a shapfile each for wolverine detections and non-detections for 2014-2015 surveys and for 2015-2016 surveys. We haven't gone through the photos for the first part of this year yet (we're having some hard-drive issues), so I don't have any preliminary data for that yet. I also included a shapefile each for observations from our internal Wildlife Observation System (WOS), split into Zone 12 and Zone 13 for ease on my end. These are all detections from employees as well as those reported to the Department. Although we try to avoid including unreliable reports in this database, I would recommend taking these sightings with a grain of salt. We do occasionally end up with reports in there that are unverified or coding errors that specify wolverine, but are actually different species. I don't have a great way to separate these out, so I've supplied all data for now.

Hopefully this helps. Please let me know if you have any questions in the meantime.

Thanks,  
Nichole

On Tue, Jan 10, 2017 at 12:02 PM, Zack Walker <[zack.walker@wyo.gov](mailto:zack.walker@wyo.gov)> wrote:

Nichole,

I got a call today from Betty Grizzle (USFWS lead on wolverine listing petition). She was asking for a shapefile showing all of our wolverine detections. This would primarily be from the wolverine monitoring work done recently. However, she would also be interested in getting a shapefile of all our wolverine observations. Could you please get this to her in the next couple of weeks? She also requested we send data to [ed\\_turner@fws.gov](mailto:ed_turner@fws.gov). If we can not get her a shapefile, she said a spreadsheet of locations would also work.

Zack

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

From: **Grizzle, Betty** <[betty\\_grizzle@fws.gov](mailto:betty_grizzle@fws.gov)>

Date: Tue, Jan 10, 2017 at 10:32 AM

Subject: Wolverine records

To: [zack.walker@wyo.gov](mailto:zack.walker@wyo.gov)

Hi Zack - Thank you for your assistance in our efforts to compile wolverine records. My contact information is below. The GIS support person assisting me is Ed Turner and his email is [ed\\_turner@fws.gov](mailto:ed_turner@fws.gov). Please let me know if you have any questions.

Betty

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Betty J. Grizzle, D.Env.  
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Zack Walker  
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of public business, is subject to the Wyoming Public Records  
Act and may be disclosed to third parties.

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\*Please note change in e-mail address

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Edwin Turner, Geographer  
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