

From: [Grizzle, Betty](#)
To: [Jeff Copeland](#)
Subject: Re: FWS request for information re wolverine listing
Date: Tuesday, January 17, 2017 8:21:19 AM

Thanks for sharing this document and sending the shape files. Appreciate your time last week!

Betty

On Sun, Jan 15, 2017 at 10:55 AM, Jeff Copeland <jcopeland224@gmail.com> wrote:

Also, attached is the *in press* version of our wolverine sociality book chapter. Hopefully, this thing will get published this year. Please don't distribute.

Following is a citation for it if needed:

Copeland, J. P., Landa, A., Heinemeyer, K., Aubry, K. B., van Dijk, J., May R., Persson, J., Squires, J., and Yates, R. (in press). Social ethology of the wolverine. In:

Biology and Conservation of Wild Musteloids. Eds. Macdonald, D.W., Newman, C. and Harrington, L.A. Oxford University Press.

On Sun, Jan 15, 2017 at 11:41 AM, Jeff Copeland <jcopeland224@gmail.com> wrote:

Hello Betty,

Can't tell you how much I enjoyed our phone visit last week. Made me very comfortable to know you are doing this wolverine assessment.

Attached are 2 shapefile files of our wolverine den locations in Idaho from the 1990's study and our Glacier Park dens from the 2000's. Hope this helps your efforts. I'm sure it goes without saying to please not share these data beyond your needs.

Best regards,

Jeff

On Thu, Jan 5, 2017 at 11:25 AM, Grizzle, Betty <betty_grizzle@fws.gov> wrote:

Thanks Jeff. Yes, next week if fine. I have received some location data from other National Forests (e.g., Washington), but we have not yet sorted through all of the information received.

In general, I am using the information to construct a wolverine distribution/range map, as we did not present this in our earlier proposed rule. With our new process, preparing/writing a Species Status Assessment Report, we have the opportunity to present this information using maps, thus, my request for spatial coordinates for the observations. However, the maps presented in the Report will be at a scale such that the general public will not be able to easily identify specific points on the ground, but the data layers used will contain those coordinates.

At this point in time we are working through a deliberative process with the wolverine listing determination, and I cannot say exactly what type of additional analysis I will be

preparing. For other listing determinations, I have used location data and other information to develop a habitat suitability model (for example, using various GIS procedures).

I hope that answers your question related to my request for information.

Betty

On Wed, Jan 4, 2017 at 3:30 PM, Jeff Copeland <jcopeland224@gmail.com> wrote:

Hello Betty,

Certainly, I would be happy to provide you with den location data. I should probably confirm this with the Forest Service's Rocky Mountain Research Station since they are the "owners" of some of the den points but I can't imagine it being a problem as these should be public data. We tended to keep these data confidential as we didn't want the public using the data to physically visit the den sites but it has been long enough that it shouldn't be a problem.

As I am sure you are well aware, we do like to have some control, or input, into how our data are used and/or presented so may I ask how the data will be used. Also, I have a medical thing going on that will put me down for a day or so, so it may be the end of the week or early next week before I can get everything together and to you. Is that okay?

Jeff

On Wed, Jan 4, 2017 at 3:39 PM, Grizzle, Betty <betty_grizzle@fws.gov> wrote:

Thank you Mr. Copeland for your comments.

I am working with GIS staff in our office to pull together records (particularly den locations) for wolverine observations/occurrences in the lower 48 states. I understand these data will be a mix of survey methods, survey effort, etc., over many years.

My question/request to you: Do you have observation records in GIS format that you can share with the Service? (with the caveat that we may not be able to hold this information confidential)

My contact information is listed below if you have questions.

Thanks again for your time,

Betty

On Fri, Dec 30, 2016 at 10:09 AM, Jeff Copeland <jcopeland224@gmail.com> wrote:

Hello Betty,

Please find attached my comments regarding the FWS's information request. My comments include some new information but are primarily meant to correct gross misinformation provided by Montana Fish Wildlife and Parks in their Oct 17 letter.

Thank you for the opportunity to input and for making my comments a part of the official record.

Best regards,

Jeff Copeland

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