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To: [Shoemaker, Justin](#); [Nelson, Marjorie](#); [Stephen Torbit](#)
Subject: big picture wolverine questions
Date: Wednesday, February 8, 2017 12:38:51 PM

Hi Justin,

I just gave a copy of these questions to Marj. Steve and I came up with these over the last few weeks as outstanding questions that we might want to discuss next week in person. I'm sure Betty and others are pondering these same questions or something similar.

Wolverine questions:

1. Is snow critical to wolverine denning success in the lower 48? Why (Food caching, predator avoidance, human avoidance)?
2. Is the wolverine population in the lower 48 a DPS or sub species?
3. Is female dispersal spatially limited by snow cover?
4. Even if snow is critical (literature calls this into question) are the areas with adequate snow actually limiting, given the population size? In other words, are there plenty of potential den sites for the population size now and into the immediate future?
5. Is the current population of wolverines habitat limited or is it constrained by the small population and wide distribution of that population?
6. Besides snow cover, are there other documented barriers to dispersal?