

From: [Guinotte, John](#)
To: [Grizzle, Betty](#)
Cc: [Stephen Torbit](#)
Subject: Re: New Doctoral Thesis re Lynx and Wolverine (Sweden)
Date: Monday, February 27, 2017 10:08:02 AM

Thanks Betty,
I skimmed it, some pretty interesting info there.

The southward expansion also shows that wolverines today are present in areas with non-persistent spring snow cover (see Fig 3. in Copeland et al. 2010). This provides a challenge for management because the wolverine monitoring protocol was developed for northern alpine areas and is to a large extent based on snow tracking. Furthermore, south of the reindeer husbandry area wolverines are subject to low levels of human conflict. Consequently, management efforts are focused on the more controversial wolf and lynx, and wolverine monitoring is limited to opportunistic documentation of tracks and scats (Aronsson & Persson 2012). As a consequence, during 2012-2014, wolverines present within 30% of the distribution are not included in population estimates because monitoring is based on reproductions, which were only found in 70% of the area with recurrent wolverine observations. Consequently, there is a need for snowindependent monitoring methods to monitor the southern part of the wolverine population.

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

On Mon, Feb 27, 2017 at 9:51 AM, Grizzle, Betty <betty_grizzle@fws.gov> wrote:
I received this late on Friday.

--

Betty J. Grizzle, D.Env.
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Carlsbad Fish and Wildlife Office
2177 Salk Ave, Suite 250
Carlsbad, CA 92008
760-431-9440, ext. 215
760-431-5901 fax