

From: [Grizzle, Betty](#)
To: [A J](#)
Subject: Re: FYI
Date: Tuesday, February 7, 2017 8:40:10 AM
Attachments: [Wolverine D Den 7yr Snow.pdf](#)
[Wolverine D Den Sites Snow.pdf](#)

Here are two den sites maps we created, same information, but different symbols used in order to better separate the location by snow year.

On Mon, Feb 6, 2017 at 5:09 PM, A J <222wsheridan@gmail.com> wrote:

Thanks, Betty. I'd love to see the map of this information when it is available. Meanwhile, I'll study the spreadsheet.

Sent from my iPhone

> On Feb 6, 2017, at 3:34 PM, Grizzle, Betty <betty_grizzle@fws.gov> wrote:

>

> Hi Audrey - Well, we were able to sort through a few things after receiving grid set from Copeland (though still not identifiable by year).

> See attached spreadsheet. We are preparing a map of this information (different colors used for den sites, matched to Copeland's 1-7 summed year values, and with persistent (=21 day) spring snow cover overlay).

> Betty

>

> --

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> 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

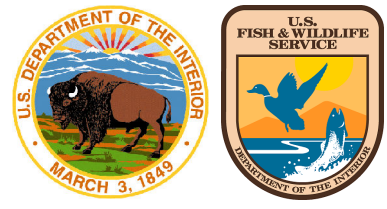
> 760-431-9440, ext. 215

> 760-431-5901 fax

> <20170206_CFWO Mapped Dens with Copeland 7yr Snow MODIS Results.xlsx>

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Betty J. Grizzle, D.Env.
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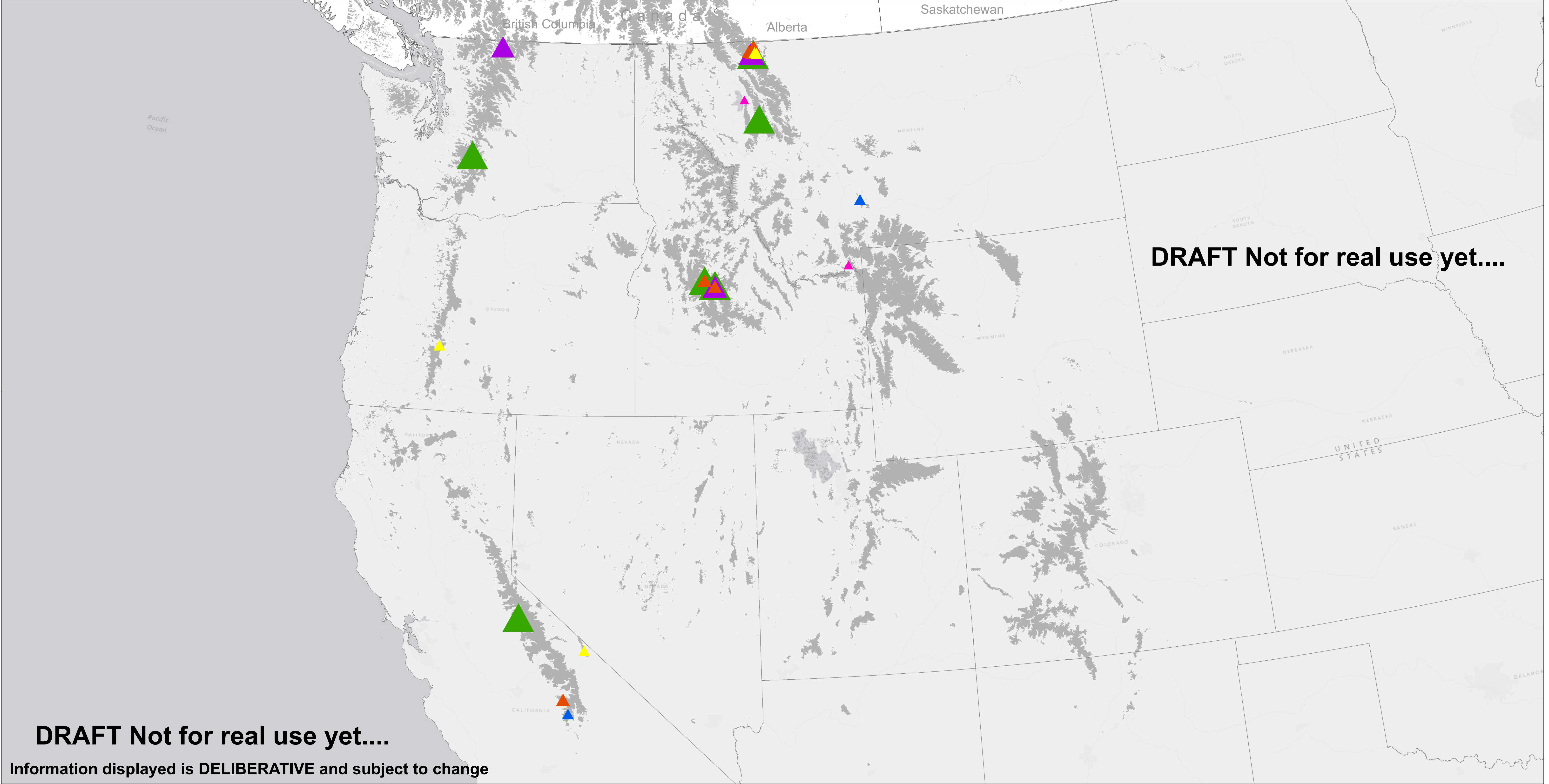


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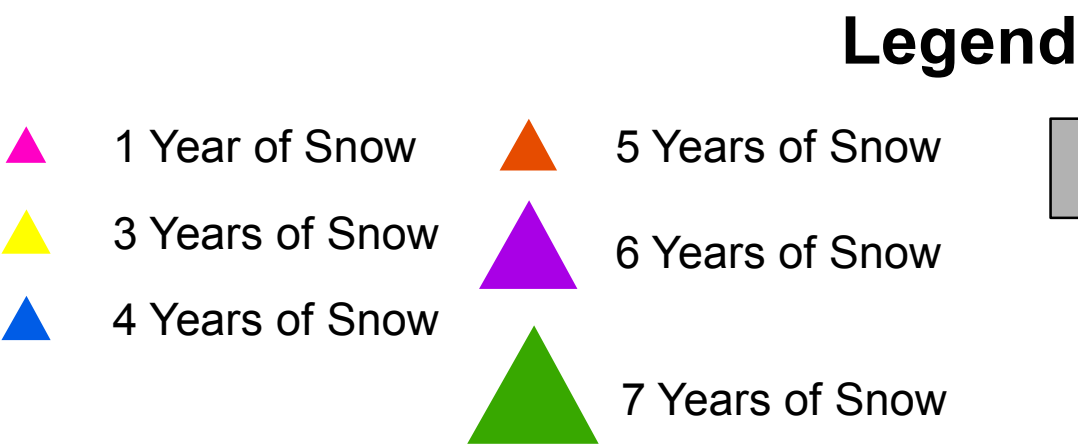
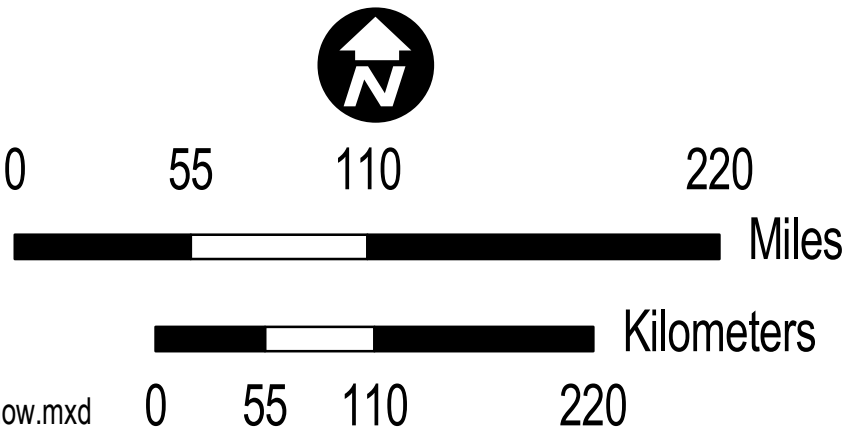
Wolverine Den Sites by Years of Snow Cover



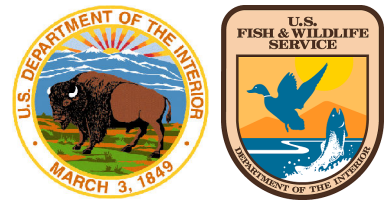
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CARLSBAD FIELD OFFICE
GIS CONTACT: ED TURNER
BIOLOGY CONTACT: BETTY GRIZZLE
(760) 431-9440
DATA SOURCE: USFWS, INMAN (WCS), COPELAND
IMAGE SOURCE: ESRI Online Mapper
Feb 06, 2017
S:\stem\edstemp\American_wolverine\MXDsl\Maps_Call_Tues07\Wolverine_D_Den_Tyr_Snow.mxd



 Snow Cover - Areas that were covered once or more, by snow during a 3 week period in late April, early May, from 2000-2006

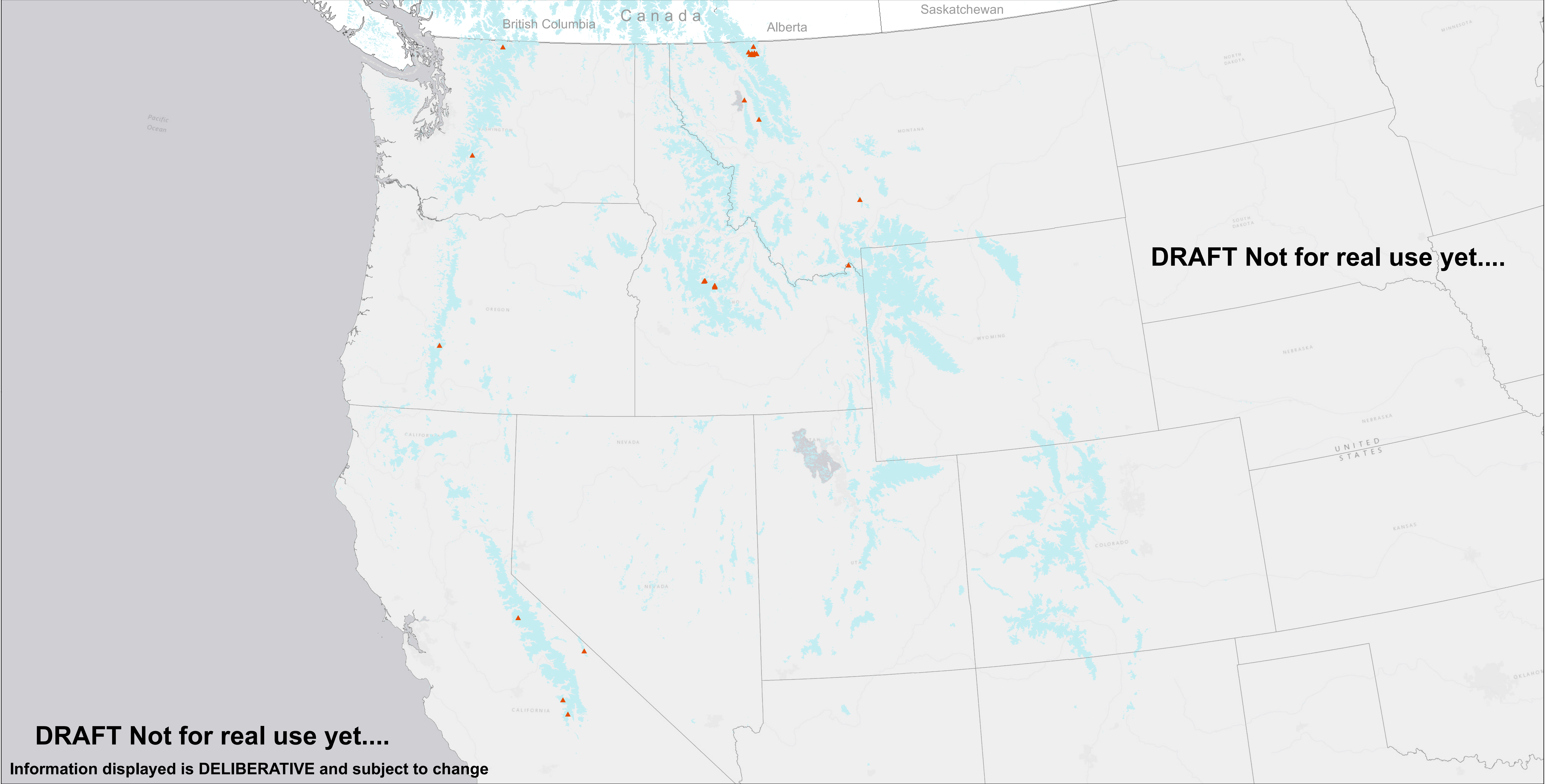


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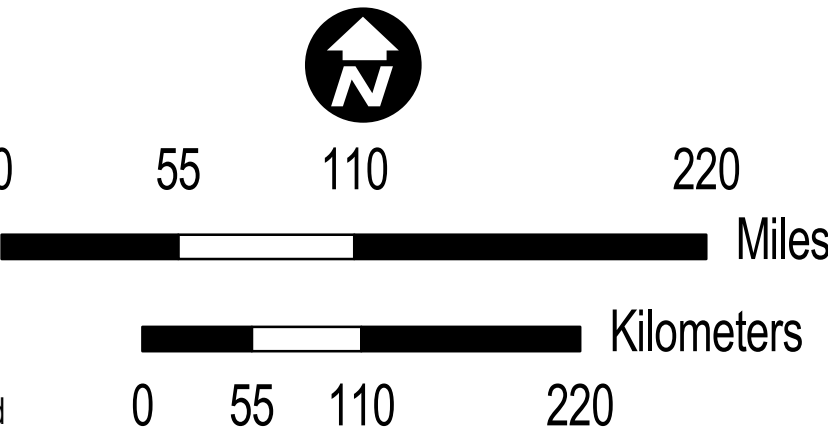
Wolverine Den Sites and Snow Cover Map



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Legend

- Wolverine Den Sites
Compiled by USFWS-CFWO in the 2017 effort.
- Snow Cover - Areas that were covered once or more, by snow during a 3 week period in late April, early May, from 2000-2006