

From: [Luce, Charlie -FS](#)
To: [Guinotte, John](#)
Cc: [Isaak, Daniel -FS](#)
Subject: RE: snowpack projections?
Date: Friday, June 2, 2017 8:28:35 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hi John,

We do not have the mid-century estimates, just late century. We decided that all of the choices and layers for projections were a bit confusing for the intended audience, and we had quite a few maps for each National Forest as it was.

Best,
Charlie



Charles Luce, PhD
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Caring for the land and serving people

From: Luce, Charlie -FS
Sent: Thursday, June 01, 2017 5:15 PM
To: 'Guinotte, John' <john_guinotte@fws.gov>
Cc: Isaak, Daniel -FS <disaak@fs.fed.us>
Subject: RE: snowpack projections?

Hi John,

I'm pretty sure we have the "2040s" data, and I'll see if I can find it. The person who worked with me on the maps is out of the country now; so I'll be a little slow.

Best,
Charlie



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Caring for the land and serving people

From: Guinotte, John [mailto:john_guinotte@fws.gov]
Sent: Thursday, June 01, 2017 11:00 AM
To: Luce, Charlie -FS <cluce@fs.fed.us>
Cc: Isaak, Daniel -FS <disaak@fs.fed.us>
Subject: Re: snowpack projections?

Thanks Charlie and Dan,

Charlie-I was looking through the snow raster layers and I'm wondering if you have "Future April 1 SWE" for 2050 (RCP8.5)? The one that is there now is for 2080. We are working closely with NOAA and CU on some high resolution (250m) snowpack projections for Glacier and Rocky Mountain National Parks to help inform our wolverine work.

Best, John

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On Wed, May 31, 2017 at 10:12 PM, Luce, Charlie -FS <cluce@fs.fed.us> wrote:

Hi John,
I'm glad you are interested in snow! We do have some maps up on the web. They are pretty strictly focused on Forest Service lands at this time, but there is a link for full CONUS arcgis coverage (TIFF) at the bottom of the page.

<https://www.fs.fed.us/rm/boise/AWAE/projects/national-forest-climate-change-maps.html>

I'd be interested in the utility of these for snow-dependent species and if any additional information might be useful.

Best,
Charlie



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Caring for the land and serving people

From: Isaak, Daniel -FS

Sent: Wednesday, May 31, 2017 10:47 AM

To: Guinotte, John <john_guinotte@fws.gov>

Cc: Luce, Charlie -FS <cluce@fs.fed.us>

Subject: RE: snowpack projections?

Hi John, I'm not an expert on snow but I work with one, Charlie Luce who's a research hydrologist here in our lab (ResearchGate profile: https://www.researchgate.net/profile/Charles_Luce). I've cc'd him on this & he'll know what exists for snow cover projections and datasets relevant to wolverines in the west. Best, Dan

From: Guinotte, John [mailto:john_guinotte@fws.gov]

Sent: Wednesday, May 31, 2017 7:20 AM

To: Isaak, Daniel -FS <disaak@fs.fed.us>

Subject: snowpack projections?

Hi Dan,

I'm working on the wolverine species status assessment and I'm wondering if you have future snowpack projections across the west? I thought you might have this as part of the Climate Shield project.

Thanks John

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