From:	Serena Baker
To:	Fortin-Noreus, Jennifer
Subject:	RE: FW: Grizzly bear ?
Date:	Monday, May 16, 2016 12:49:13 PM

Perfect! Thanks, Jennifer!
Serena

From: Fortin-Noreus, Jennifer [mailto:jennifer.fortin-noreus@mso.umt.edu]
Sent: Monday, May 16, 2016 12:47 PM
To: Serena Baker
Subject: RE: FW: Grizzly bear ?

Climate change is addressed in the Food Synthesis report, which I have attached here.

Jennifer Fortin-Noreus, Ph.D.
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Grizzly Bear Recovery Program
USFWS
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phone: (406) 243-4994
jennifer.fortin-noreus@umontana.edu

From: Serena Baker [mailto:serena_baker@fws.gov]
Sent: Monday, May 16, 2016 12:33 PM
To: Fortin-Noreus, Jennifer
Subject: FW: FW: Grizzly bear ?

Hi Jennifer,

Do you happen to know the answer to the question below? I have a reporter asking if we considered climate change, and Matt thought that was specifically addressed in USGS's whitebark pine studies.

Thanks!
Serena

From: Serena Baker [mailto:serena_baker@fws.gov]
Sent: Monday, May 16, 2016 12:26 PM
To: Frank van Manen
Subject: RE: FW: Grizzly bear petition

Hello Frank,

Would it be accurate to say climate change was one of the factors considered in the studies done on grizzly bears and whitebark pine?

Thanks!

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Serena Baker

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From: van Manen, Frank [mailto:fvanmanen@usgs.gov]
Sent: Friday, March 25, 2016 12:09 PM
To: Serena Baker
Subject: Re: FW: Grizzly bear petition

Hi Serena,

With regard to the Gib's question on whitebark pine, we have previously received that question from other media and here is the answer:

Based on extensive studies conducted in recent years by the Interagency Grizzly Bear Study Team (IGBST), they concluded that whitebark pine decline has had no profound negative effects on grizzly bears at the individual or population level. The data indicated that Yellowstone grizzly bears have shown notable resilience in the face of decline of whitebark pine and natural variability of other food resources. Grizzly bears obtained sufficient alternative foods through diverse diets and diet shifts and have maintained body mass and percent body fat over time. Based on in-depth demographic analyses, the IGBST did not observe a decline in the Yellowstone grizzly bear population but only a slowing of population growth since the early 2000s, which was associated with grizzly bear density, but not with whitebark pine decline, and may be indicative of the population nearing carrying capacity in portions of the ecosystem. You can find the report and associated publications here: http://nrmsc.usgs.gov/research/igbst/GBFSR_Refs
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Please let me know if you would like any further info.

Have a great weekend!

Frank

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Frank T. van Manen
Interagency Grizzly Bear Study Team
U.S. Geological Survey
Northern Rocky Mountain Science Center

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http://nrmsc.usgs.gov/research/igbst-home.htm
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