

From: [van Manen, Frank](#)
To: [Shoemaker, Rebecca](#)
Subject: Re: K
Date: Tuesday, July 01, 2014 9:21:48 AM

Rebecca,

That's a tricky one because the increased generational time is mostly been evident in the effective population size analyses, which still need a lot of work; we have also seen it in our population projections but, to my knowledge, have not reported this anywhere. Also, we did detect decrease in cub survival as a function of GB density so we should add that. So sticking to what we have documented and reported so far, something along the lines of the following sentence would be more accurate:

"Recent analyses suggest that grizzly bears in the GYE may be exhibiting density-dependent effects associated with a population at or above carrying capacity (e.g., decreased cub survival and smaller female home ranges as grizzly bear density increases)."

Frank

Frank T. van Manen
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<http://nrmssc.usgs.gov/research/igbst-home.htm>

On Tue, Jul 1, 2014 at 8:09 AM, Shoemaker, Rebecca <rebecca.shoemaker@cfc.umd.edu> wrote:

hi Frank,

Can I add "increased generational time" to this sentence?

"Recent analyses suggest that grizzly bears in the GYE may be exhibiting density-dependent effects associated with a population at or above carrying capacity (intraspecific predation, decreased home-range size, home-range overlap, **increased generational time**)."

thanks!

rebecca

From: van Manen, Frank [mailto:fvanmanen@usgs.gov]
Sent: Monday, June 30, 2014 4:19 PM
To: Shoemaker, Rebecca
Cc: Daniel Thompson; Dan Bjornlie (dan.bjornlie@wyo.gov)
Subject: Re: K

Rebecca,

A few minor edits, see attached.

#1: I think the citations are OK and they could simply be included in a larger Literature Cited section that also has other references from the section that this box appears in.

#2: We should include a graph and the best one would be to have a logistic curve with the oscillations at the end. I made a simple one that mimics the graphic you had and included it in the text.....feel free to modify!

I still need to get going on my sections for the Yellowstone Science issue!

Frank

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On Mon, Jun 30, 2014 at 10:31 AM, Shoemaker, Rebecca
<rebecca.shoemaker@cfc.umt.edu> wrote:

ok, here's a "final" draft to send to Gunther today. Any additional edits/revisions/comments?

I have two questions:

#1: Do we need to include citations in a "side-bar" type article? If so, we need a list of references at the end of the article, right?

#2: Should we include a graph? If so, which one?

thanks,
rebecca

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From: Daniel Thompson [mailto:daniel.thompson@wyo.gov]
Sent: Monday, June 30, 2014 7:10 AM
To: Shoemaker, Rebecca
Subject: K

I made some additions/edits on this. Not sure what kind of timeline we're dealing with anymore.

DT

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