

From: [van Manen, Frank](#)
To: [Servheen, Chris](#)
Cc: [mark_haroldson](#); [Shoemaker, Rebecca](#)
Subject: Re: check on demographic stuff
Date: Monday, October 28, 2013 4:44:42 PM

Hi Chris,

This has indeed changed with the new vital rates: 48 Fcoy would give us 608 with the new vital rates. This may seem counter intuitive with the reduced population growth that we documented for 2002-2011. That reduced growth was mostly driven by lower cub and yearling survival. However, we also observed quite an increase in independent male survival, which make up a substantial proportion of the population, so that increase adds quite a few animals.

I hope that makes sense, let me know if you have any questions...

Frank

On Mon, Oct 28, 2013 at 2:24 PM, Servheen, Chris <grizz@umontana.edu> wrote:

Frank and Mark,

The revised demographic criteria have this statement in it from the previous version:

“Furthermore, an annual estimate of at least 48 females with cubs of the year using the model averaged Chao2 value was chosen because that number corresponds to a total population size of approximately 500 individuals.”

Is this true with the new vital rates since 2001?

Thanks,

Chris

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