

**From:** Fortin-Noreus, Jennifer  
**To:** [Haroldson, Mark](#)  
**Subject:** RE: new version  
**Date:** Friday, July 15, 2016 3:15:52 PM

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Please take a stab at this:

Any new method to estimate population size within the DMA will be evaluated by the IGBST. If accepted, the new method will be used in conjunction with the model-averaged Chao2 until it is calibrated to the model-averaged Chao2. Determining the correlation or correction between the model-averaged Chao2 and any new estimation method is critical to maintain the population at the 2002-2014 average. The new average population estimate and the lower and upper 95% confidence intervals that correspond to the model-averaged Chao2 population estimates would be inserted in Table 2 to reset the population size numbers with the same sliding scale to maintain the population goal of the average 2002-2014 population size. The new lower 95% confidence interval would replace the model-averaged Chao2 lower 95% as the level below which no discretionary mortality would be allowed. If, for example, a new method provides estimates that are double that of the model-averaged Chao2, the current population objectives would allow states, if they so choose, to reduce the population by half before discretionary mortality is reduced (*see* Table 2). Such a reduction would be inconsistent with the stated goal maintaining the population at 2002-2014 levels.

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**From:** Haroldson, Mark [[mharoldson@usgs.gov](mailto:mharoldson@usgs.gov)]  
**Sent:** Wednesday, July 13, 2016 2:15 PM  
**To:** Fortin-Noreus, Jennifer  
**Subject:** Re: new version

I agree, but at least it is transparent and spells out the issue for all parties.

Mark

On Wed, Jul 13, 2016 at 1:52 PM, Fortin-Noreus, Jennifer <[jennifer.fortin-noreus@mso.umont.edu](mailto:jennifer.fortin-noreus@mso.umont.edu)> wrote:

Thanks Mark! I think the new language looks good although it'll probably give the states heartburn...

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From: Haroldson, Mark [[mharoldson@usgs.gov](mailto:mharoldson@usgs.gov)]  
Sent: Wednesday, July 13, 2016 10:22 AM  
To: [jennifer.fortin-noreus@umontana.edu](mailto:jennifer.fortin-noreus@umontana.edu)  
Subject: new version

I could not let it go last night so edited again.

Any new method to estimate population size within the DMA will be evaluated by IGBST. If accepted, the new method will be used in conjunction with the model-averaged Chao2 until it is calibrated to the model-averaged Chao2 and population objectives have been reset. Established mortality rates (Table 2) will be applied to the revised population estimates (see Appendix C). Determining the correlation or correction between the model-averaged Chao2 and any new estimation method is critical to maintaining the population at the 2002-2014 average. If, for example, a new method provides estimates that are double that of the model-average Chao2, the current population objectives would allow states, if they so choose, to reduce the population by half before discretionary is reduced (see Table 2). Such a reduction would be inconsistent with stated goal maintaining the population at 2002-2014 levels.

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