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**From:** Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov>  
**Sent:** Wednesday, June 12, 2019 10:11 AM  
**To:** Brian Ellrott - NOAA Federal  
**Cc:** Evan Sawyer - NOAA Federal  
**Subject:** Re: ROC LTO: tier 1 frequency

No, those are fine too, at least as of right now. We analyzed the mean for both Martin and Anderson in the analysis of effects. I guess maybe that could change to median but don't feel like it has landed yet.

And I'm CURRENTLY waiting for Dave M to join a call where we talk through this YET AGAIN. to get NOWHERE.

On Wed, Jun 12, 2019 at 10:04 AM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:  
My understanding is the objectives are still a work in progress, but does the TDM range for tier 1 (and other tiers) need to be updated in I&S summary table? See Maria's comment below. I can do the updating in the I&S, just point me in the right direction. thanks.

probability (5% - 6% temperature dependent mortality).[\[MCR1\]](#) [\[BE2\]](#)

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[\[MCR1\]](#) I think the objectives discussion is now predicting median 2% for tier 1.

On Wed, Jun 12, 2019 at 9:58 AM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:  
Gracias a los dos!

On Wed, Jun 12, 2019 at 9:49 AM Evan Sawyer - NOAA Federal <[evan.sawyer@noaa.gov](mailto:evan.sawyer@noaa.gov)> wrote:  
Lucky you,

We've been reading the Animal Ark books where we've learned that all of life's problems can be solved with a new pet... and friendship?

Anyway, 'Yes', we're still including the historic frequency of achieving the tiers. We're presenting the frequency as risk that includes the range from historic likelihood to the modeled likelihood. So for Tier 1 it's 45% (historic) - 68% (modeled).

Evan

On Wed, Jun 12, 2019 at 9:40 AM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:  
Hola amigos (reading a lot of Dora books with Everett lately). Can one of you confirm or let me know the correct range below that Maria (MCR) commented on? It is the frequency of exposure for tier 1 from the I&S summary table.

Medium (45 - [\[MCR1\]](#) 68% of years)

[MCR1] Are we still using 45 % in the effects section? Be careful to track effects section because 45% is historical and they are saying they can make significant improvement

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