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**From:** Miles Daniels - NOAA Affiliate <miles.daniels@noaa.gov>  
**Sent:** Friday, May 31, 2019 10:07 AM  
**To:** Maria Rea - NOAA Federal  
**Cc:** Eric Danner; Cathy Marcinkevage; Brian Ellrott; Evan Sawyer - NOAA Affiliate; Garwin Yip  
**Subject:** Re: can you please re-send ...  
**Attachments:** ROC\_LTO\_TDM\_TM\_5\_31\_19.xlsx

Hi Maria,

Attached is a spread sheet which has information on both TDM and TM for different tiers. However, please note that when we do this in a forecast sense we just apply the mean background survival to all years (i.e. 32%) such that without any TDM, TM is 68%. During a hindcast, we can use estimates of egg to fry survival to make this year specific.

Thanks,  
Miles

On Thu, May 30, 2019 at 8:46 PM Maria Rea - NOAA Federal <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)> wrote:  
Eric and Miles, Brian and I are looking for your modeled output of TDM and total mortality that we can incorporate into the winter-run integration and synthesis. I know you have this information in a hindcast format but I thought you also predicted total mortality along with TDM for each tier? We have the TDM but need to put it in the context of TM.

Sorry, we probably have this someplace but everyone is scrambling and Evan is on leave.  
- Maria

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