

From: [Runge, Jeff](#)
To: [Porath, Mark T](#)
Subject: Fw: ABB Evaluation
Date: Tuesday, May 25, 2021 6:45:32 AM
Attachments: [Butler et al. 2012 Standardized capture rates of the ABB using different trap protocols.pdf](#)
[Jenkins et al. \(2018\) Distribution ABB NE.pdf](#)
[Leasure et al. \(2012\) bucket traps.pdf](#)

As requested.

Jeff

From: Runge, Jeff <jeff_runge@fws.gov>
Sent: Monday, May 24, 2021 1:44 PM
To: Skorupa, Joseph <Joseph_Skorupa@fws.gov>
Subject: Re: ABB Evaluation

Thanks for taking the time to investigate this more thoroughly. To my knowledge, the best information supporting trap densities come from two studies (Butler et al; Leasure et al). I also included one paper summarizing both studies specific to ABB densities/trap efficiency (Jenkins et al). I have been asked to fill the ABB lead role while Bob is out of the office, so I also have a steep learning curve. In consideration of this, hope it is not too much to have you scan the documents for pertinent information. I think it is better for you to read the source information as opposed to me inadvertently relaying incorrect information. I am not aware of validation of NPPD's ABB density/trap efficiency assumptions, but they do have recapture data which gives some potential for validation.

Also, we can meet one-on-one or as a group if you have questions/concerns that need to be addressed prior to starting an analysis.

Jeff

From: Skorupa, Joseph <Joseph_Skorupa@fws.gov>
Sent: Monday, May 24, 2021 11:23 AM
To: Runge, Jeff <jeff_runge@fws.gov>
Subject: Re: ABB Evaluation

Hi Jeff,

I'm running a little behind my initial time frame. I have been doing some thinking about this as a problem maybe best tackled from an occupancy statistical model approach and have spent some time looking into that (thus the delay).

(b) (5)

Can you send me the best argument you can make for ABB surveys as actual (reliable) measures of density. Walk me through every step of how a raw number of ABB's captured over 5 days in a trap is translated into a density estimate and to what extent each one of those steps (assumptions?) has been empirically validated. What do we really know, versus what do we think we know. Are we kidding ourselves about what we really know?

All best,

Joe

From: Runge, Jeff <jeff_runge@fws.gov>
Sent: Monday, May 24, 2021 9:13 AM
To: Skorupa, Joseph <Joseph_Skorupa@fws.gov>
Subject: ABB Evaluation

Hello Joe,

I wanted to check in to see how the evaluation was coming along. Particularly, I am interested in your initial review of materials and whether you expect it to be relatively simple (or difficult) to address. Hopefully, you would not need data from the individual reports, but we certainly provide those if important for the evaluation. We have not heard from NPPD, so no one is pushing us to complete a review. I will keep you posted if that changes.

Jeff

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