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**From:** Brian Ellrott - NOAA Federal <brian.ellrott@noaa.gov>  
**Sent:** Thursday, May 16, 2019 7:51 PM  
**To:** Naseem Alston - NOAA Federal  
**Cc:** Barbara Byrne - NOAA Federal; Joe Heublein - NOAA Federal; Cathy Marcinkevage  
**Subject:** Re: CHN-SRKW-Restoration-SIT model

Regarding 1 acre restored: 56 adults , is the following sentence all that we have that supposedly supports the ratio?

"The territory estimates consistent with the SIT salmon lifecycle model inputs show that one acre of rearing habitat will support juveniles that will result in about 56 adult Chinook salmon returning to the river."

I work hard to not be informed about the CVPIA SIT models, and am pleased to say that I'm unfamiliar with the 1:56 ratio. I suspect the ratio has some basis using the Emigrating Salmonid Habitat Estimation model. I'll ask around tomorrow and let you know what I find.

Regarding "new fish in the ocean" or "annual increase in escapement", I agree with you, the Sac and American restoration should be future baseline (sorry, had to do it) - those programs are up and running through CVPIA and RD108/RGF/NCWA.

On Thu, May 16, 2019 at 7:07 PM Joe Heublein - NOAA Federal <[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)> wrote:  
Can we keep a column somewhere with 'New fish in ocean annually'? It has a nice ring to it

On Thu, May 16, 2019 at 5:02 PM Barbara Byrne - NOAA Federal <[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)> wrote:  
I talked to John Hannon about the difference between escapement estimates and in-the-ocean; he calculates the in-the-ocean assuming a 55% harvest rate; so e.g.  $0.55x=840$  results in  $x=1,527$ . The right-most column in the top restoration table should read "annual increase in escapement", not "New fish in ocean annually".

On Thu, May 16, 2019 at 4:55 PM Naseem Alston - NOAA Federal <[naseem.alston@noaa.gov](mailto:naseem.alston@noaa.gov)> wrote:  
Hi Brian,

I hear you are our resident CVPIA SIT model expert.

Question came up after the call ended today -

the data that Dan is using from John Hannon includes restoration acres which results in 1acre:56 adult returns (from SIT):

over 8,000 more in escapement #s, and over 15,000 more in ocean abundance #s

(see attached excerpt)

Question for you: what do others/we think of the model input (1:56)?

Did others generally agree, is there alternative science?

Other issue is he includes the acres for Sac and American rivers, which I feel we describe as analyzed in the baseline (benefit at the frame-work level only), so it would just leave the Stan...

Naseem O. Alston  
ESA-Section 7 Coordinator/Fish Biologist  
NOAA Fisheries West Coast Region  
U.S. Department of Commerce  
California Central Valley Office  
Sacramento, CA  
(916)930-3655  
<http://www.westcoast.fisheries.noaa.gov/>

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**Barb Byrne**  
Fish Biologist  
*NOAA Fisheries West Coast Region*  
*U.S. Department of Commerce*  
Office: 916-930-5612  
[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)  
*California Central Valley Office*  
*650 Capitol Mall, Suite 5-100*  
*Sacramento, CA 95814*



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[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)



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Joe Heublein  
California Central Valley Office  
650 Capitol Mall, Suite 5-100  
Sacramento, CA 95814  
Office: 916-930-3719  
FAX: 916-930-3629  
[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)  
[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)



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**Brian Ellrott**

*Central Valley Salmonid Recovery Coordinator*

*NOAA Fisheries West Coast Region*

*U.S. Department of Commerce*

Mobile: 916-955-7628

Office: 916-930-3612

[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)