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**From:** Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>  
**Sent:** Thursday, August 2, 2018 11:20 AM  
**To:** Garwin Yip - NOAA Federal; Maria Rea  
**Cc:** j.stuart@noaa.gov; Anita Deguzman - NOAA Affiliate  
**Subject:** Annotated bibs and TPs for I:E ratio discussion on Friday's (8/3) ROConLTO Directors call  
**Attachments:** Annotated Lit Review I to E ratio\_Byrne.docx; Annotated Lit Review I to E ratio\_Stuart.docx; TPs on I to E ratio for 8.3.18 ROConLTO Directors call.docx

Attached are:

1. Talking points drafted by me drawing heavily from the talking points developed for the recent John Watts call.
2. Selected literature review from Jeff (received last night)
3. Selected literature review from me (completed this morning)

Both lit reviews are organized in the structure requested by Dave Mooney (takeaway -- quote -- caveat), and there is minimal overlap in the citations included in the two reviews. The request for literature was specific to potential alternatives to the I:E ratio but most citations in both reviews generally apply to south Delta hydrodynamics so are also relevant to OMR management.

On Fri, Jul 27, 2018 at 11:31 AM, Garwin Yip - NOAA Federal <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)> wrote:

Please:

1. Confirm receipt of this e-mail
2. Help guide Reclamation on the development of a potential alternative to the I:E ratio by providing brief summaries of key newer science according to Dave's list, below (remember that this is a great opportunity for us to be proactive in helping Reclamation propose an alternative that we would be OK with, rather than reactive after receiving Reclamation's proposal that "we can't live with").
3. Send me (and cc Maria) what you get done by COB Wednesday, August 1 (and if you can't get a decent amount done by then, let me know your ETA) so that Maria can review on August 2 to prepare for the August 3 directors' call to discuss.

Thanks.

-Garwin-

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*Garwin Yip*  
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----- Forwarded message -----

From: **David Mooney** <[dmmooney@usbr.gov](mailto:dmmooney@usbr.gov)>

Date: Fri, Jul 27, 2018 at 11:09 AM

Subject: Re: [EXTERNAL] Fwd: NMFS Alternatives to I:E ratio

To: Maria Rea - NOAA Federal <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)>

Cc: David Murillo <[dmurillo@usbr.gov](mailto:dmurillo@usbr.gov)>, Barry Thom <[barry.thom@noaa.gov](mailto:barry.thom@noaa.gov)>, Paul Souza <[paul\\_souza@fws.gov](mailto:paul_souza@fws.gov)>, FEDERICO BARAJAS <[fbarajas@usbr.gov](mailto:fbarajas@usbr.gov)>, David Mooney <[dmmooney@usbr.gov](mailto:dmmooney@usbr.gov)>, Dan Castleberry <[dan\\_castleberry@fws.gov](mailto:dan_castleberry@fws.gov)>, Garwin Yipp <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)>, Howard Brown <[Howard.Brown@noaa.gov](mailto:Howard.Brown@noaa.gov)>

Maria,

Thank you for your I:E alternative. Garwin discussed this in more detail with Katrina and Armin yesterday. I've asked staff to look through literature that could help us better understand the available journal articles and data that could guide a proposed action. Specifically, I've asked for an itemized list with:

1. Takeaway Bullet;
2. Citation;
3. Quote; and
4. Caveats.

If you can ask your staff to look into the available science too, I'd appreciate it. We located some materials from BDCP. We didn't see much in terms of references.

I expect another year of the 6-year study to be delivered in two weeks and will forward this on when we get it.

Take care.

Dave

David Mooney, Ph.D., P.E.  
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On Thu, Jul 19, 2018 at 4:18 PM Maria Rea - NOAA Federal <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)> wrote:

All -

I just spoke to Federico and we agreed I would send on this email and attachment in advance of the Directors call tomorrow. I am also inviting Garwin and Howard Brown to join. Howard may be new to some of you -

- he is stepping into a one year senior policy advisor detail to assist with water operations and this consultation.

- Maria

**Maria Rea**

**Assistant Regional Administrator, California Central Valley Office**

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----- Forwarded message -----

From: **Maria Rea - NOAA Federal** <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)>

Date: Thu, Jul 19, 2018 at 1:04 PM

Subject: NMFS Alternatives to I:E ratio

To: Federico Barajas <[fbarajas@usbr.gov](mailto:fbarajas@usbr.gov)>, David Mooney <[dmooney@usbr.gov](mailto:dmooney@usbr.gov)>

Cc: Garwin Yip <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)>, Howard Brown <[Howard.Brown@noaa.gov](mailto:Howard.Brown@noaa.gov)>

Federico and Dave -

I am attaching a document intended as technical assistance, for your consideration on how you are approach the San Joaquin I:E ratio. I'm happy to talk about it on the Directors call, if useful.

By way of this email, I also want to introduce Howard Brown to you, who is an experienced supervisor pursuing a detail as a senior policy advisor. He will be helping me and Garwin re: communications at Directors level and above. He can help to prepare briefing papers that we want to tee up to Directors on the Friday calls, etc.

On the Directors call last Friday Dave: you had the lead to work to set up a half day in person meeting to walk through content of near-term consultation on issues where we don't have agreement. Did you have a date and process in mind? I am hoping that after reviewing our comments and the phone all last Friday, you may be agreeable to drop any changes from near-term project description except I:E ratio and WIIN storm flex. I believe that focusing on those two pieces will be plenty, if we are to meet the ambitious schedule for the near-term consultation.

Hope this is helpful,

- Maria

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