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Sent: Wednesday, May 15, 2019 9:32 AM
To: Mooney, David; Israel, Joshua A; Michael Beakes
Cc: Howard.Brown; Garwin Yip - NOAA Federal; Cathy Marcinkevage
Subject: ROC Delta salvage/loss measures discussion

Wanted to capture what I heard on Monday afternoon; please weigh in if I've missed, or mischaracterized, anything.

Metered vs. annual number approach: NMFS prefers the former, Reclamation prefers the latter. Seemed to be potential consensus about an approach that set the hard limit based on an annual number (or some %age thereof), with explicit tracking (but no hard restriction) based on a biweekly salvage/loss pattern.

Potential metric by species:

- Winter-run: Could set annual number as a % of the JPE, or express historical loss as a % of the JPE.
- Spring-run: Some discussion of potential ways to estimate a spring-run JPE, but concern about having it in place by 2020. Conversation turned to options immediately implementable, with the idea that a spring-run-JPE-based method could come later. More immediate options included potentially using various hatchery releases (YOY spring-run or YOY fall-run in addition to the current CNFH late-fall surrogates) as surrogates for wild SR. I didn't hear much support for using any length-at-date method or genetic method to try to id spring-run; considered generally prohibitive given the volume of Chinook expected.
- steelhead: Could use a fish/TAF trigger (maybe keep the PA's 10 fish/TAF in the winter, then lower to something like 5 steelhead/TAF in April and May), or could just limit loss to historic steelhead loss rates. To avoid disproportionate impact to SJ steelhead, might track loss Oct-March, and separately April-May.

Status of existing PA elements:

I have the impression that Reclamation is proposing to keep at least some of the proposed OMR elements, for example the -5,000 cfs OMR while between 5% and 95% of any listed species is estimated present in the Delta.

Next steps:

- **NMFS:** I am working on some ideas from NMFS perspective; not sure when may be ready to share.
- **Reclamation:** My understanding is that Reclamation will share some ideas with NMFS on Friday (5/17) or sometime next week.

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