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Sent: Monday, June 17, 2019 9:45 PM
To: Howard Brown; Evan Sawyer - NOAA Affiliate
Cc: Garwin Yip
Subject: Shasta/Upper Sac RPA Components

Howard --

In thinking through some of Maria's suggestions on RPA components related to Shasta/Upper Sac, here's what I've got:

From the performance metrics document that WE proposed:
S:\Performance metrics\NMFS_ROCON Shasta performance metrics v8.docx

Tier Frequencies

- Reclamation shall operate to Tier 1 conditions in at least 2 out of 3 years, and shall operate to Tier 2 or Tier 3 conditions in no more than 1 out of 4 years. Reclamation shall operate to Tier 4 conditions in no more than 1 out of 10 years.

Tier 2 and 3 Survival

In Tier 2 and Tier 3 years;

- a. Reclamation shall not exceed an annual TDM of 12% TDM (based on the Martin et al. model of TDM) OR
- b. Reclamation shall operate such that total egg-to-fry survival is at least 27% (as measured by USFWS redd counts and juvenile counts at RBDD).

First Five Years

The first 5 years will be operated such that there is not more than one occurrence of Tier 4 survival values.
The first 5 years will be operated such that there are no more than three consecutive years of Tiers 2, 3, or 4.

You can definitely revise these, and we can beef them up. But they are a start of what I heard Maria saying, and, in the case of the first two, are directly what we had in our performance metrics.

Looking forward to seeing your creation!

Cathy