
From: Evan Sawyer - NOAA Federal <evan.sawyer@noaa.gov>
Sent: Tuesday, April 2, 2019 3:50 PM
To: Eric Danner - NOAA Federal
Cc: Cathy Marcinkevage - NOAA Federal; Garwin Yip - NOAA Federal; Howard Brown - NOAA Federal; Barbara Byrne - NOAA Federal
Subject: Re: Physical drivers

Hey Eric,

Thanks for this. I have a couple of interpretations and questions:

- How would I describe these figures? Is it average difference (COS v PA) in Shasta storage (or Y-axis variable) by month and WYT over the course of the 82 year CalSim II record.
- Where does the increased Shasta storage come from? Shasta storage (page 2) shows an increased average storage Jan - May (maybe even all year) for BN, D and C years, as well as large storage increases Sept - Dec of W and AN years. But Keswick flows (page 4) only shows a decreases in flow (which I'm assuming as a surrogate for Shasta releases) in September and November of W and AN years. Is all the storage benefit "built" by reduced flows in September and November of W and AN years? Asked another way, for the COS what drives the high releases in September and November of W and AN years? I've heard the decreased September and November flows are attributed to Reclamation not implementing a fall X2 but I don't know? If that's the case though, recent discussions between FWS and Reclamation regarding adding back in a Fall X2 or an alternative could be problematic because it would "use" this water because it could potentially wipe out the Shasta storage benefit.

Thoughts on questions/interpretations?

Thanks,

Evan

On Tue, Apr 2, 2019 at 2:12 PM Eric Danner - NOAA Federal <eric.danner@noaa.gov> wrote:

Hi Cathy and Evan.

Attached are updated plots and data that also include Shasta storage and Keswick release volume for the PA and COS.

Eric

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