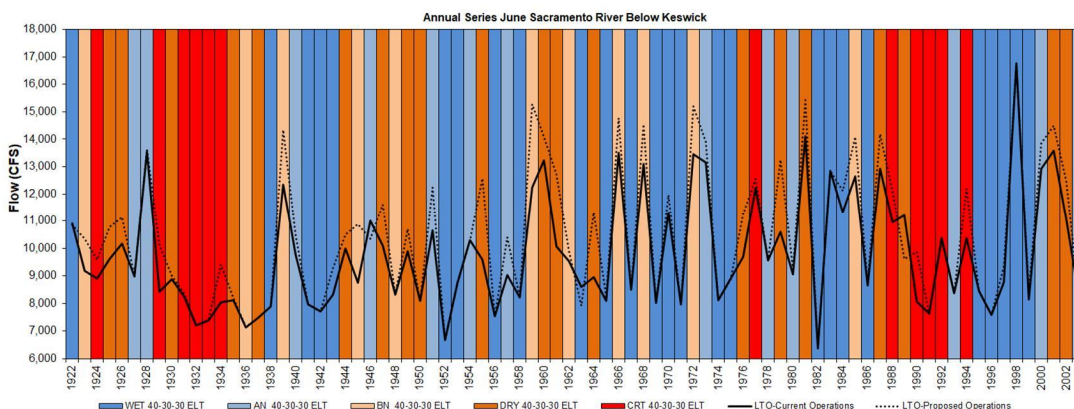
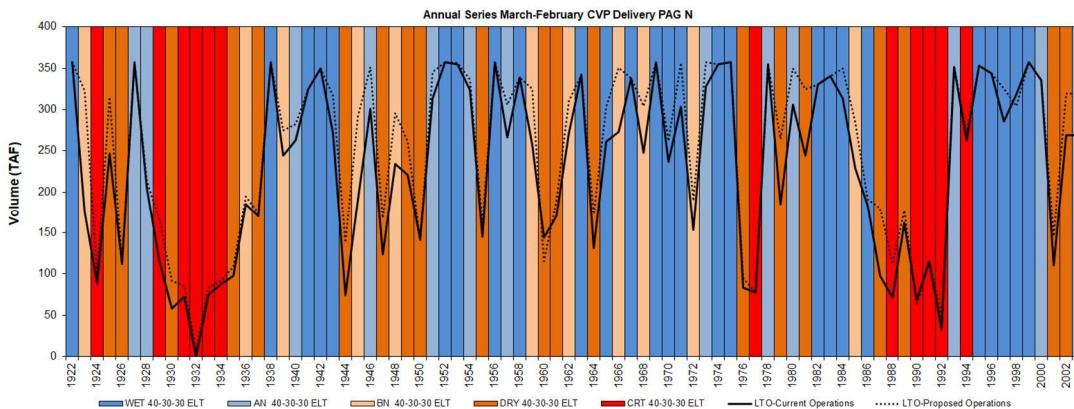
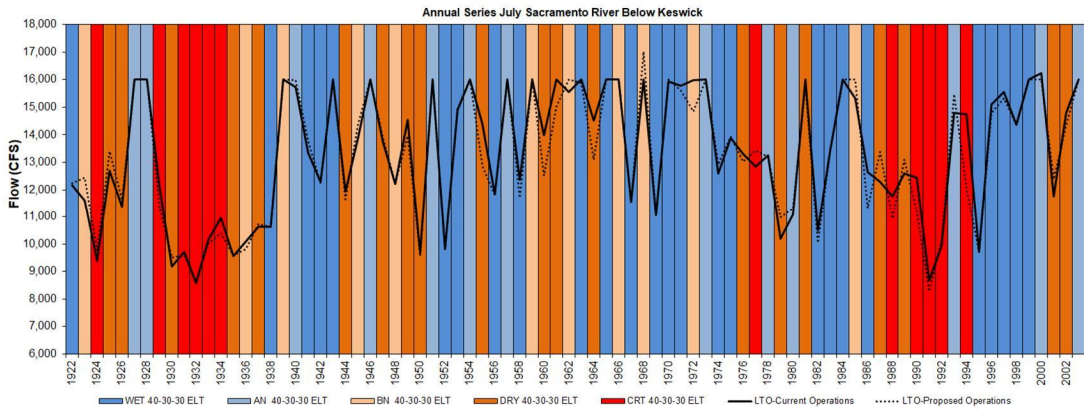


From: Hilts, Derek <derek_hilts@fws.gov>
Sent: Tuesday, March 26, 2019 12:37 PM
To: Maria.rea@noaa.gov; cathy.marcinkevage@noaa.gov; garwin.yip@noaa.gov; evan.sawyer@noaa.gov; howard.brown@noaa.gov
Subject: Re: [EXTERNAL] Question on Shasta Temperature Tier for ROC

Lastly, out of our meeting last week I was suppose to try to get answers to the questions below. My answers are shown in red.

1. Did CalSimII for the COS simulation in dryer years cut all non-discretionary deliveries? **No. Only in 1932 are CVP ag service contracts allocated zero. See first chart below.**
2. Did CalSimII for the COS simulation in dryer years explicitly draw on Folsom and Oroville and reduce exports to meet Delta requirements before pulling on Shasta? **No, there are many inputs that work together to keep the reservoirs in balance.**
3. Did CalSimII for the COS simulation in dryer years reduce the required flow level at Wilkins? **Yes, the required level drops below 5000 cfs as a function of Shasta storage and delivery levels.**
4. Did CalSimII for the COS simulation in dryer years explicitly limit June and July flows out of Keswick to 7500 cfs? **No. See June releases - second chart below and July releases - third chart below.**
5. Did CalSimII for the COS simulation in dryer years consider the location of temperature compliance on the Sacramento? **No.**





I think that completes my list of tasks from last week's meeting. I'll now turn to answering some questions from Barb Byrnes unless you direct otherwise.
 Derek

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