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**From:** Hilts, Derek <derek\_hilts@fws.gov>  
**Sent:** Thursday, March 14, 2019 12:55 PM  
**To:** Cathy Marcinkevage - NOAA Federal  
**Subject:** Re: [EXTERNAL] NMFS ROC Questions  
**Attachments:** LTO runs - Shasta storages for NMFS.xlsx

Hi Cathy,

I did see some code that was related to doing a pulse or not based on Shasta storage. I will look further at the code once I read the PA description regarding tiers (so I know better what I'm looking for.)

Attached is a workbook with Shasta storages for the COS and PA runs. The timeseries are highlighted in yellow.

Derek

Derek Hilts M.S., P.E.  
US Fish and Wildlife Service  
650 Capitol Mall Room 8-300  
Sacramento, California 95814  
Work desk phone 916.930.5633

On Thu, Mar 14, 2019 at 12:38 PM Cathy Marcinkevage - NOAA Federal <[cathy.marcinkevage@noaa.gov](mailto:cathy.marcinkevage@noaa.gov)> wrote:

Hi Derek --

We have a few questions and small asks....

First, is CalSim for the PA coded in a way to assign a "tier" to the Shasta operations based on a storage value in the spring (I believe). Does it use the April or May storage for that (since there is no "end of April")?

Next, can you pull from the CalSim results for COS and PA a time series for Shasta storage for end of April or May? We're getting some results from the science center's temperature and mortality modeling and it would be good to consider those along with this info on spring storage.

Thanks!  
Cathy