Forecasts:

Seasonal forecast is provided on the first of the month, the remainder of the month’s daily forecasts are calculated from subtracting out the previous days inflow

Reservoir Storage

1. Determine the amount of storage needed for a given inflow volume on one day

2. Determine April 1 flood control space (volume)

qmin= total volume forecast – April 1 flood control space + volume expected prior to April 1 / days

- this is currently only occurring every 15 days - need to update to daily

- it does not account for current storage though - only assessing - given x cumulative inflow, need to discharge x cfs every day - but I think if I calc qmin every day it’ll actually end up releasing too much?

Change Storage

If S is > maxS

dS = maxS – S – inflow

qo = -dS

else qo= Qmin

Then the ramping rate gets imposed (+/- 500 cfs / day) this is a problem bc it overrides the above – so I’ve updated that to determine the difference and distribute it across days

Iterative loop

* + Find places where the storage is lower than the dead pool and update -> not working or getting overridden
  + allow for a faster ramping rate if the storage is going to go over maxS
  + #find all q > qMax distribute those flows over prior days and update the dS and stor
  + Kind of working because it distributes flows, but not really because it’s allowing for changes in storage that are not possible (80K cfs)
* Need to go through like 10 days of data to see how/why its going wrong