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= minimum amount to evauate before a given date, plus the expected inflow in that time period

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