

December 18, 2013 Hood River Meeting
Review of alts and MODSIM model

Attendees:

Hugh
Bonnie
Niklas
Mattie
Toni

Notes

1. Niklas developed time series for
 - a. Increased demand due to et, pop, temp
 - b. Decreased demands for conservation measures
2. Power inflows to LL – not working correctly thought maybe inflows were off. MFID had some numbers so they BC inflows a bit. Helped some. MW/D scenario did not handle flows as expected (higher storages in the late summer months) – this was due to model not being able to handle shortages everywhere.
3. Diversion shortages, release avg from LL
 - a. Quarters are in WY
 - b. Alternatives
 - i. Alt 3 – increase demands for water due to increase T (increase ET) + increase demand for potable use due to increase pop
 - ii. Alt 4 – using alt 3, plus decrease in demand due to conservation practices
 1. Conservation measures included (did not include potable water practices due to estimate costs). Irrigation in Water Conservation Report – water % of acres under impacts vs. micro sprinkler, each sprinkler type uses this much water, irrigators gave estimate of when/if shifting to improved irrigation methods (from impacts to micro is about 5% savings with others up to 12%). Also include infrastructure (piping) EFID reducing demand by about 25% due to this. EFID sprinkler 10% .
 - iii. Alt 5 – 3 plus 4 plus increased storage capacity. MF, EF, FID locations.
4. Results
 - a. 60% of time there is a shortage of about 1.5 cfs at LL
 - b. Model doesn't release extra storage because LL has priority (so others are jr).
 - i. Look at extra vol being stored, determine shortage, and then fulfill shortage with the extra vol post-processing. Can do some coding, but mostly pp likely best.

1. Problem is that alt 4 and alt 5 right now don't look like good investments.
 - c. % of time there is a shortage in each ID
 - i. DID, EFID none
 - ii. FID – less than a % different from Base to MW/D – 1 cfs
 - iii. MHID – 8% ~small <.5 cfs
 - d. Tucker
 - i. 70% shortage in MW/D in JAS @ Tucker compared to Base.
5. Scheduling
- a. Next meeting 1/14 – smaller meeting
 - i. Detailed analyses between now and then + writing
 - b. Tent one 1/29 if need be
 - c. February 12 conclude results (no more input) – courtesy presentation
 - d. Technical memos reviewed by tech teams only. Don't want to have to bring non-techs up to speed.
 - e. Main report reviewed by all/most of full team. Report out in March (or after a couple of weeks from conclusion of MODSIM work).