



U.S. Department of the Interior  
Bureau of Land Management

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# Modeling Continued

PAC Meeting, March 14<sup>th</sup>, 2023

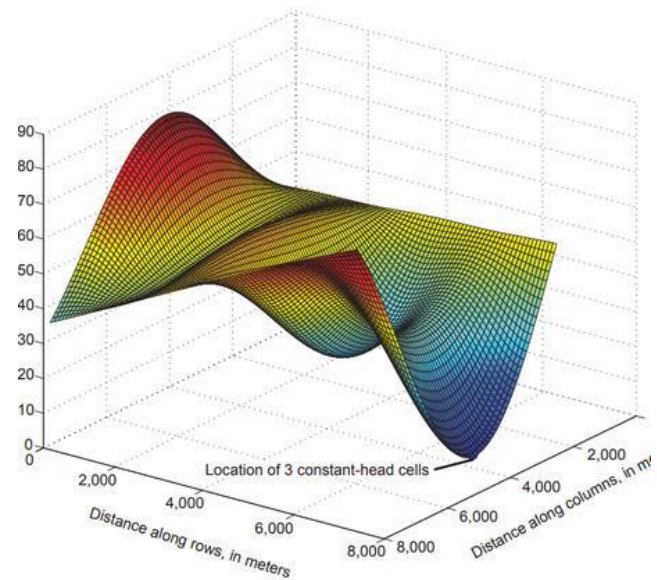
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# Agenda

- Introduction
- Model intro reminder
- Using data in models
- Additional data collection
- PAC input

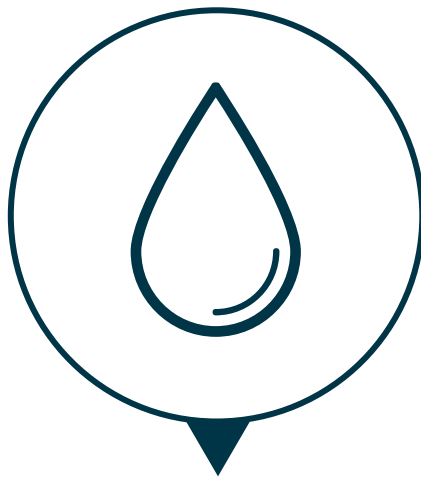




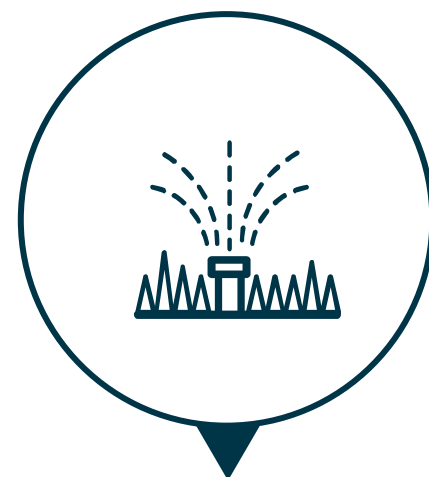
# Stages to Building a Model



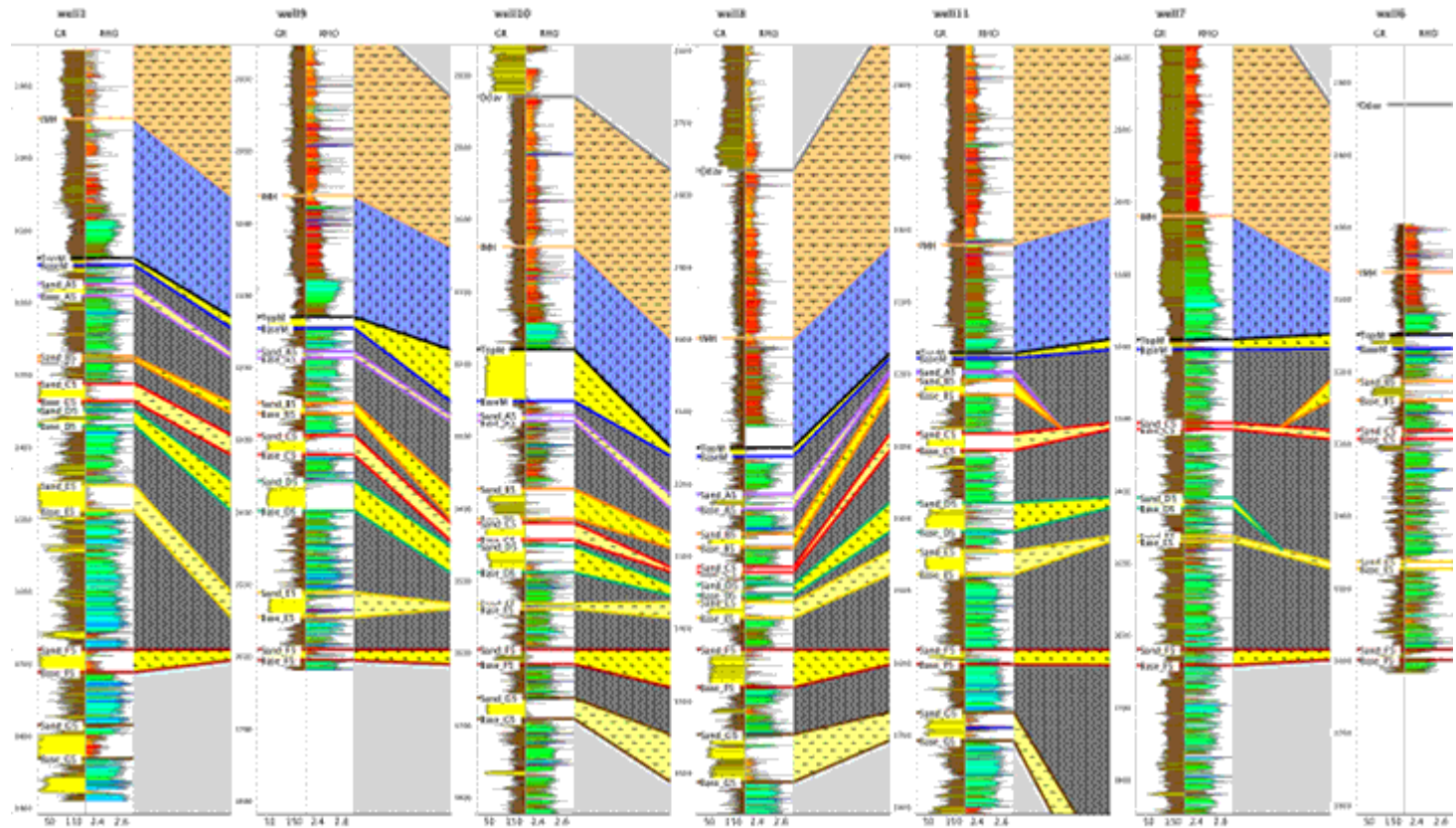
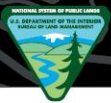
Conceptual  
Model

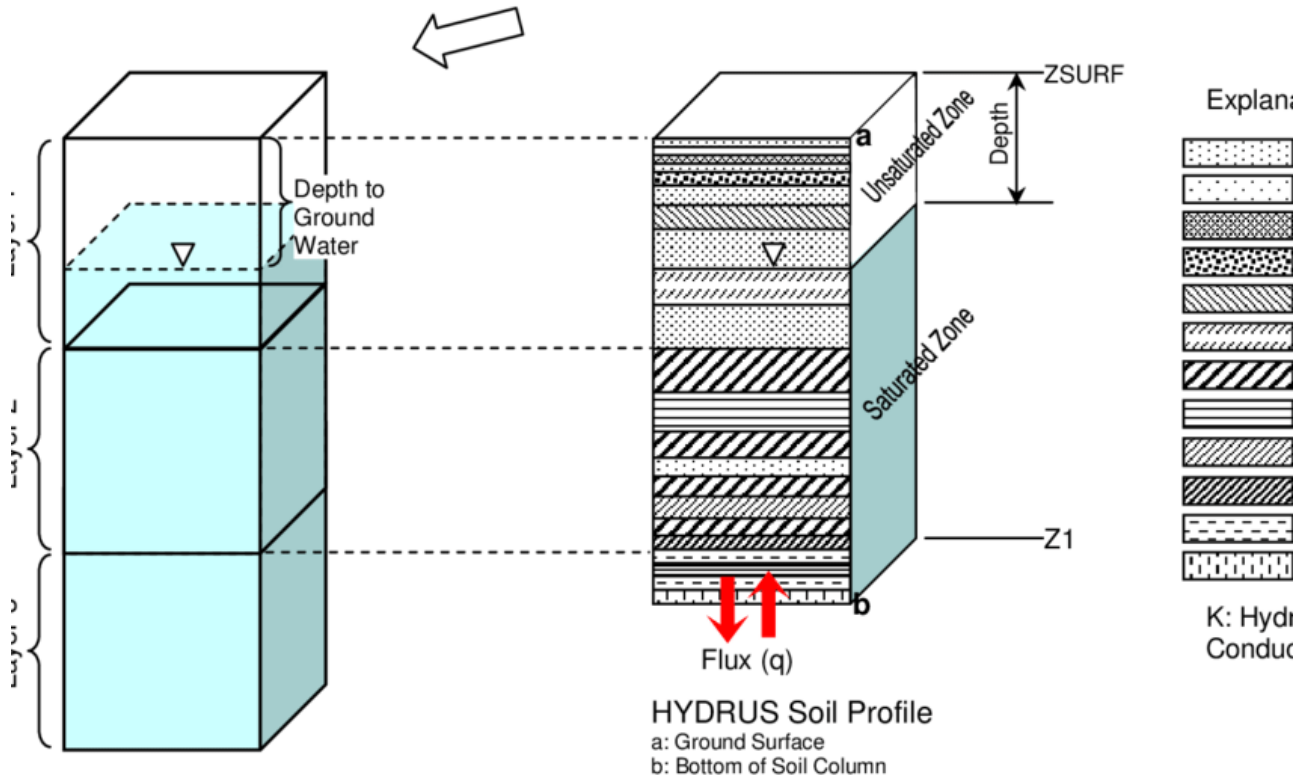
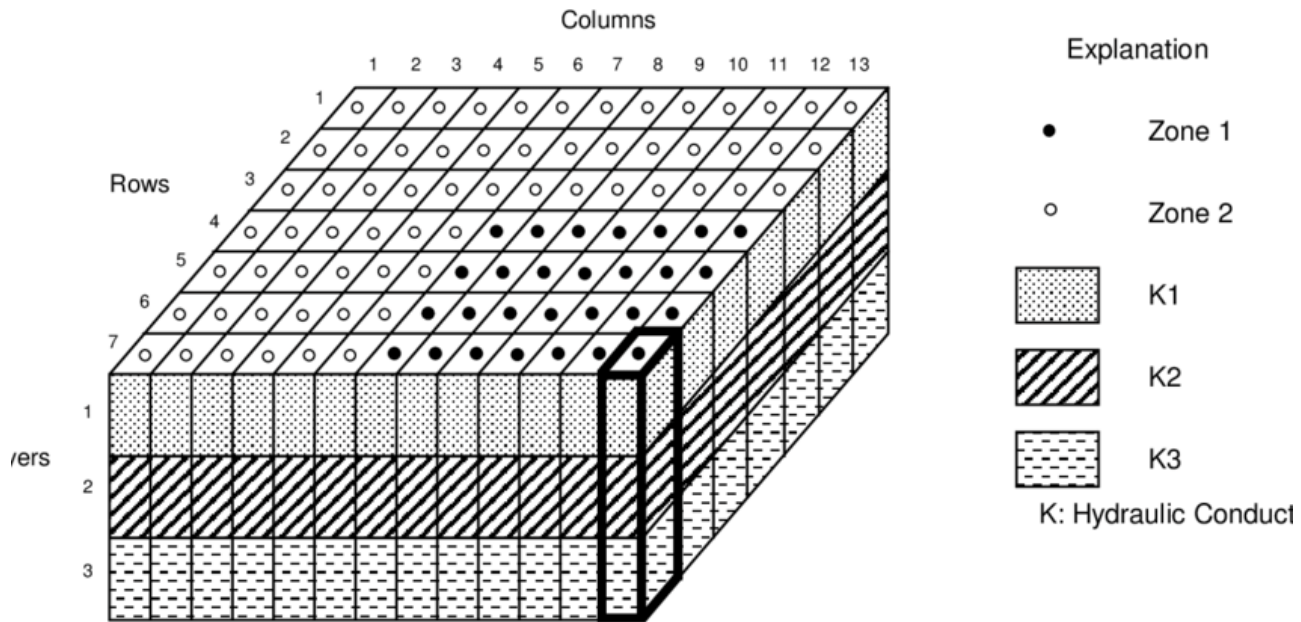


Water Budget

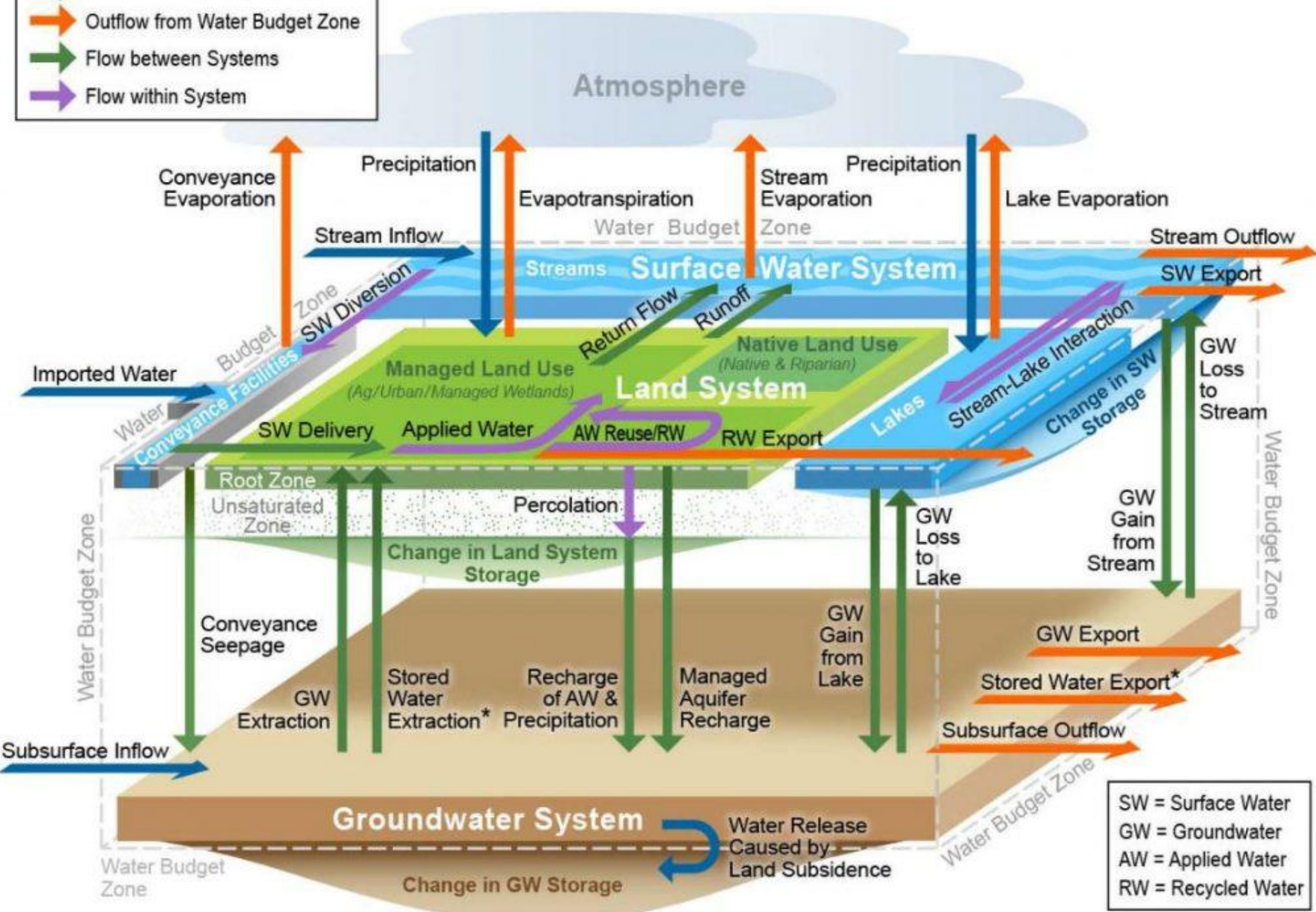


Calibration





- ➔ Inflow to Water Budget Zone
- ➔ Outflow from Water Budget Zone
- ➔ Flow between Systems
- ➔ Flow within System





- We have our conceptual model, incorporated our data, now it's time to calibrate our tool

	Accurate	Inaccurate (systematic error)
Precise		
Imprecise (reproducibility error)		



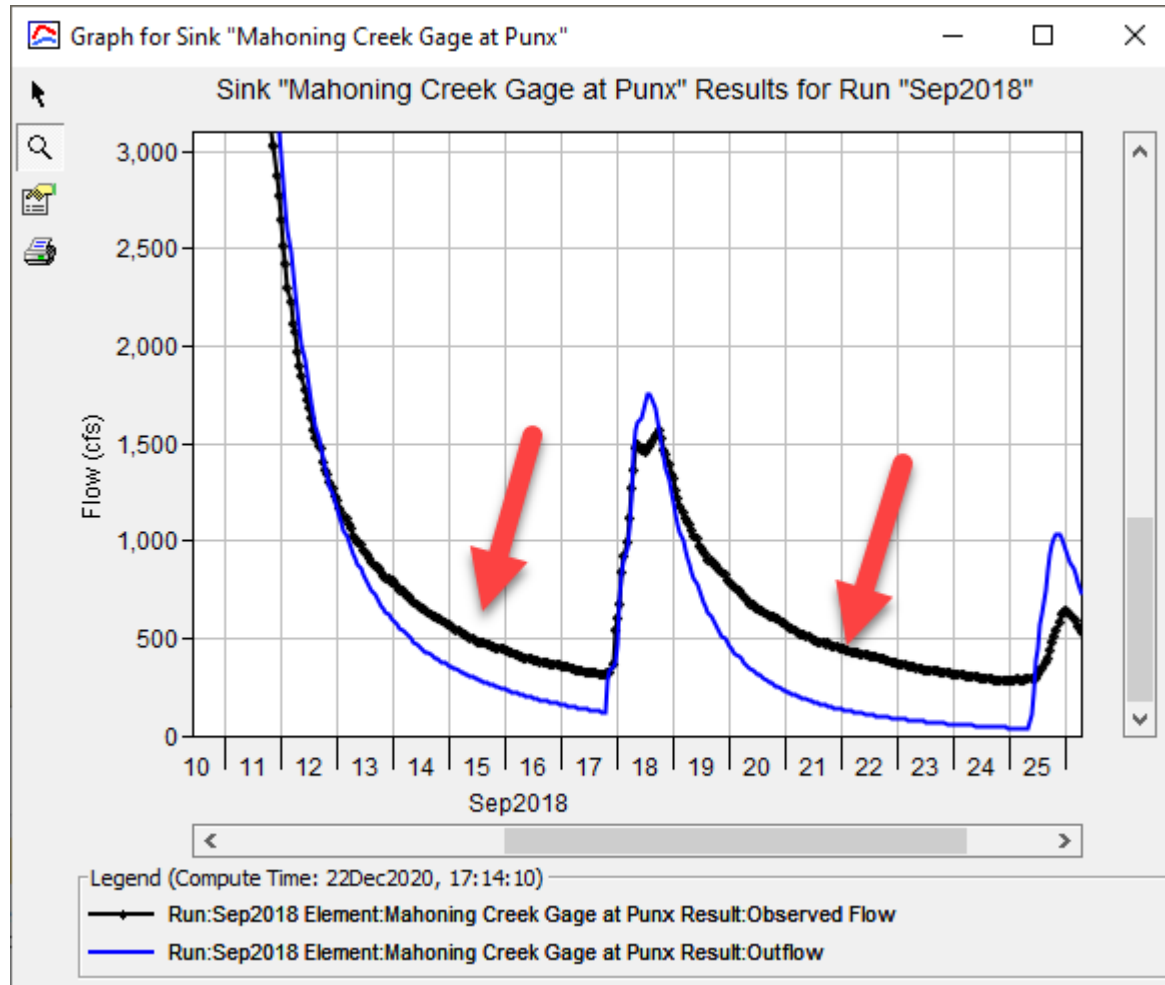
Once your tool is built and acceptably calibrated, you can begin 'asking questions'

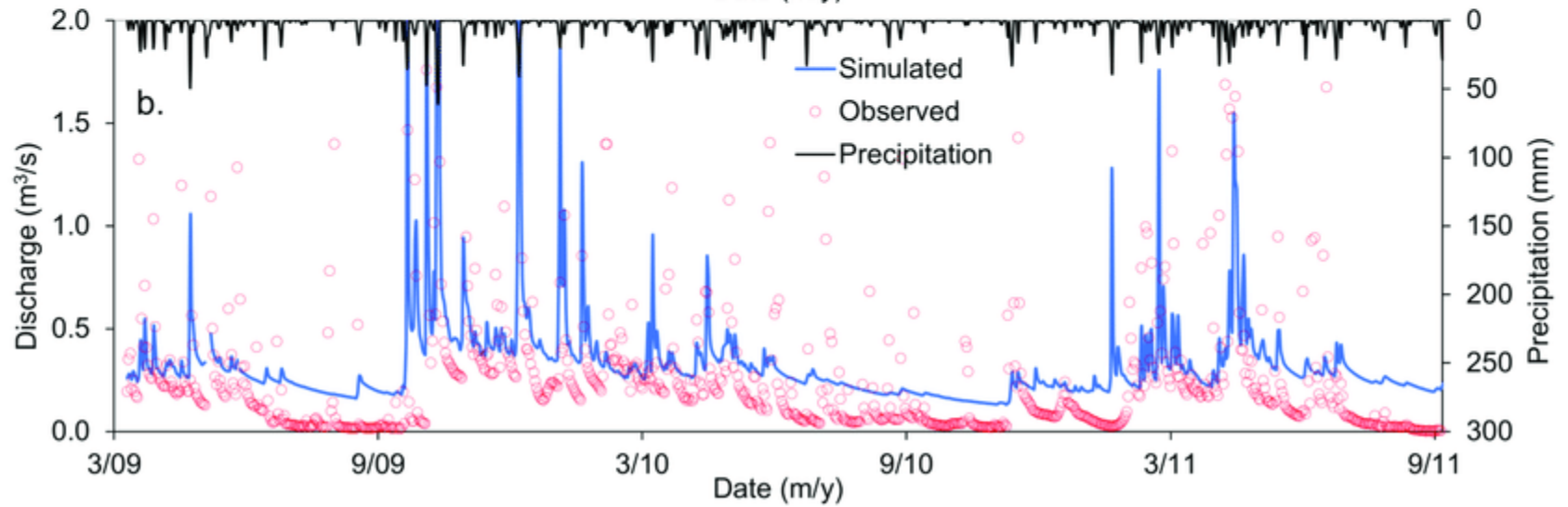
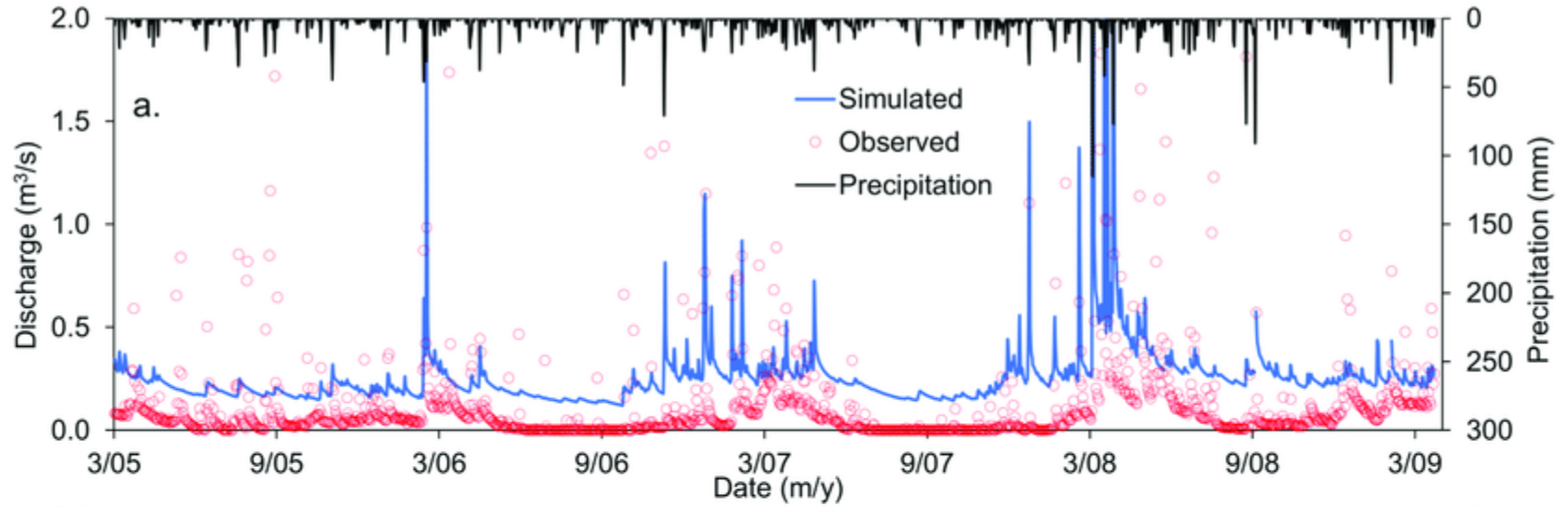




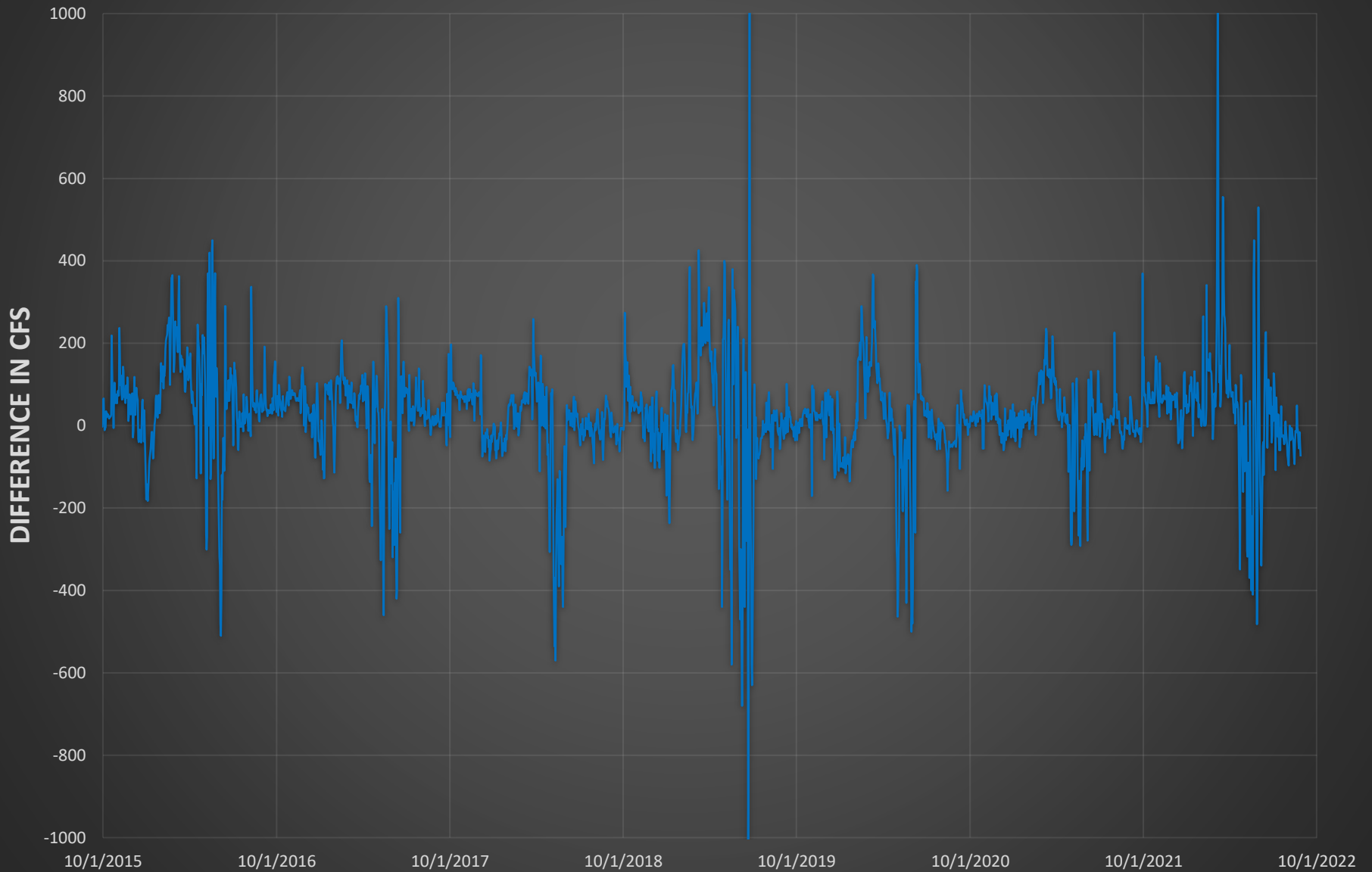


# Model calibration example

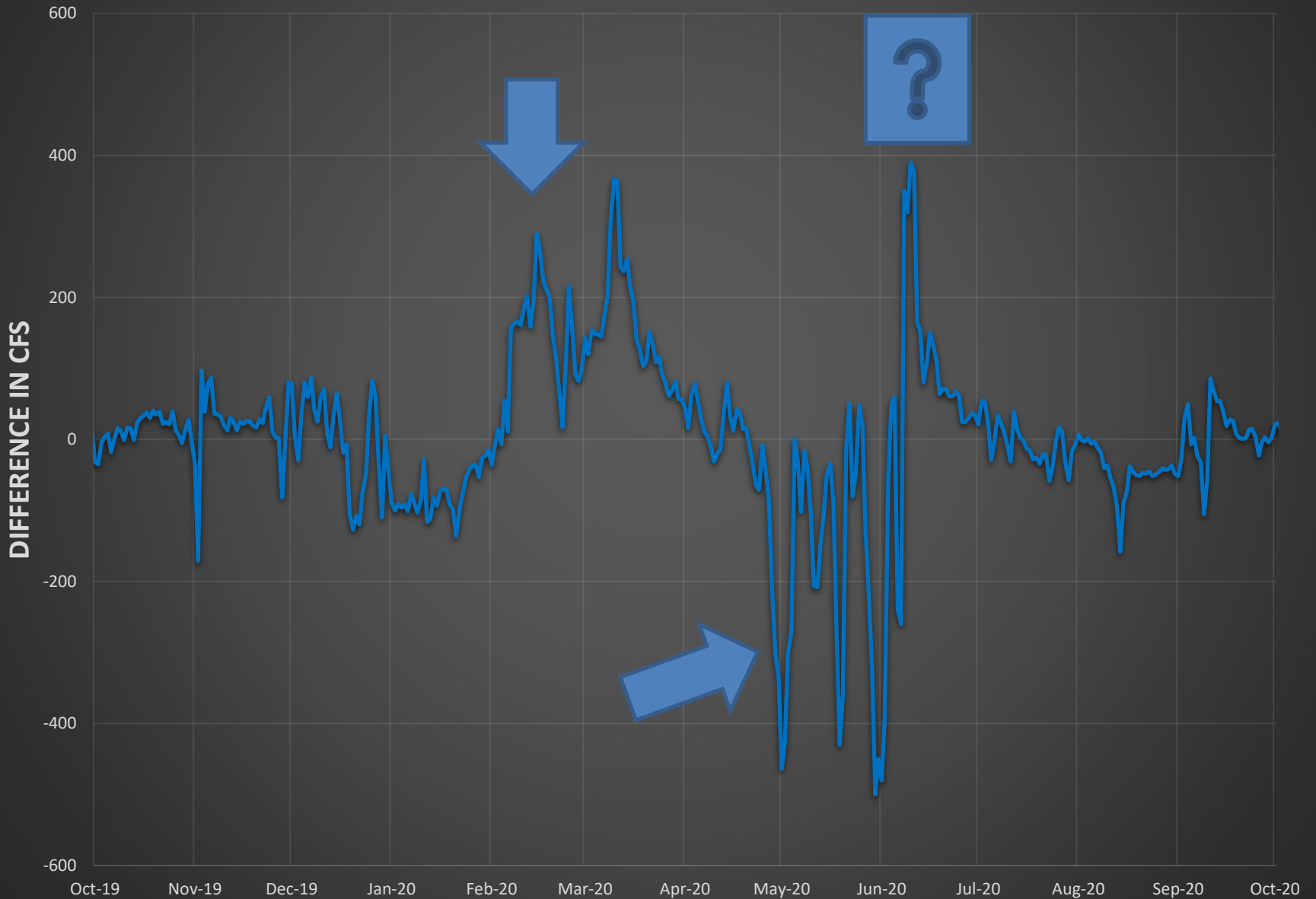


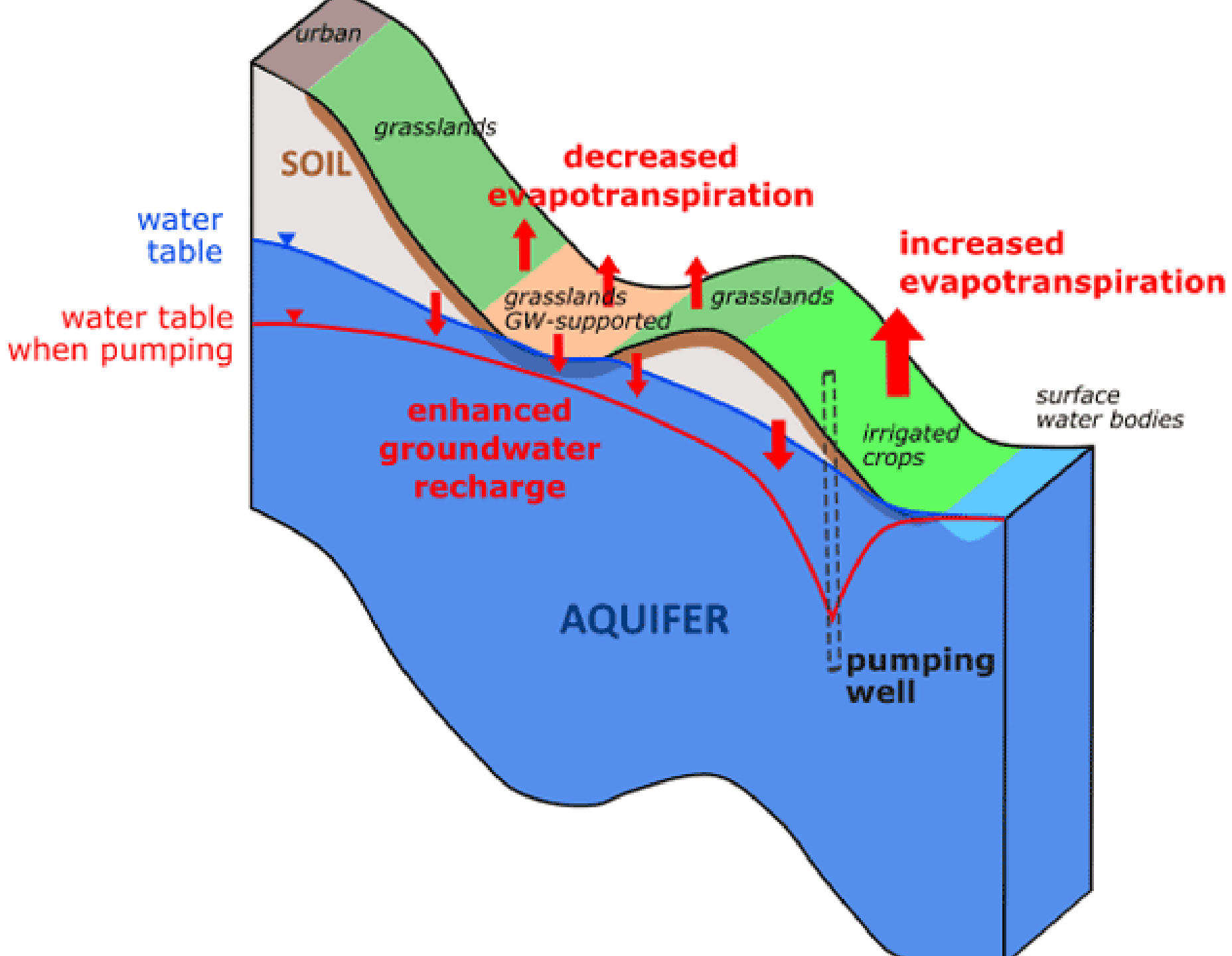


# White River Near Meeker to Watson Utah



# White River Near Meeker to Watson Utah







## Final Thoughts

Local knowledge is key

- When do you divert water?
- For how long?
- When are creeks flowing on your property?

PAC Input – if possible, we should review the conceptual model together

Review the water budget, diversions, irrigation practices

