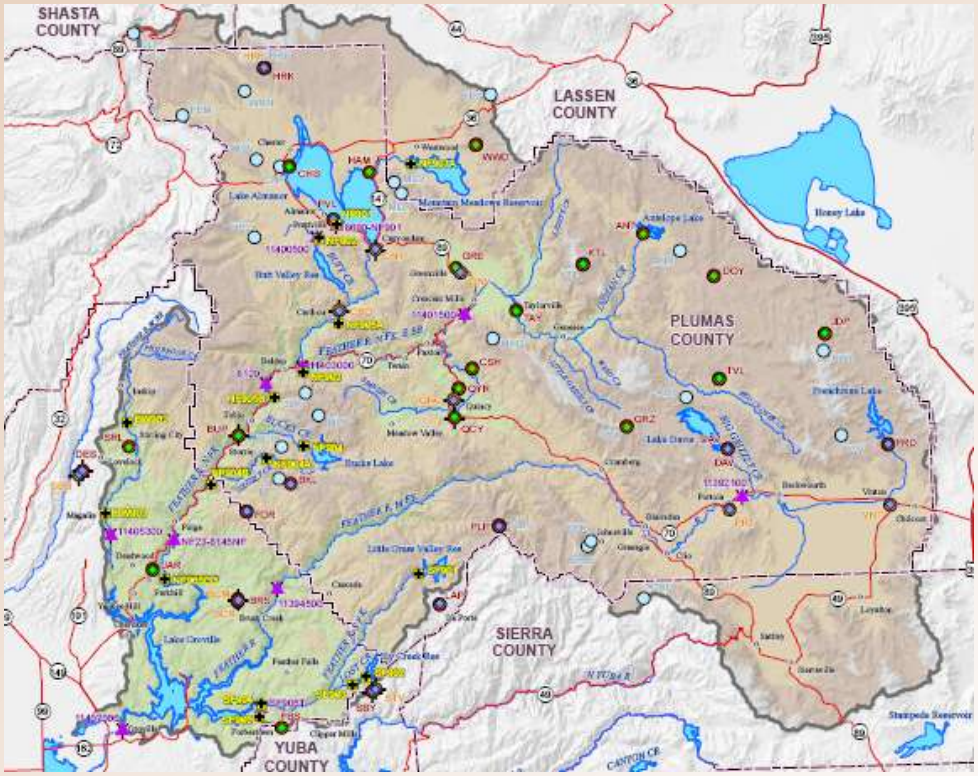
PRMS Feather River Model Recalibration and Improvement Project Status 10/28/09



Department of Water Resources
California Data Exchange Center

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Feather Team:

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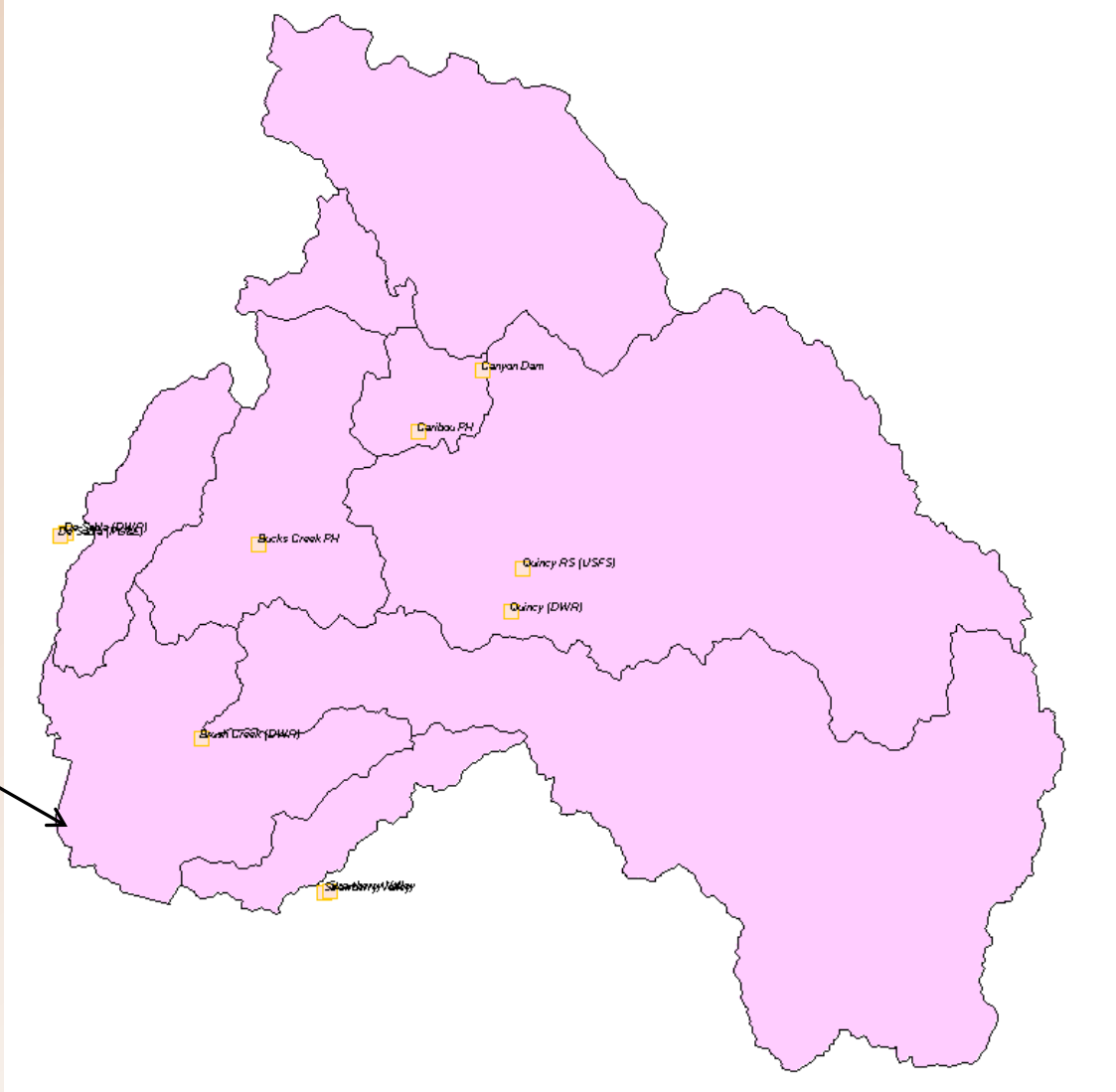
Outline of Presentation

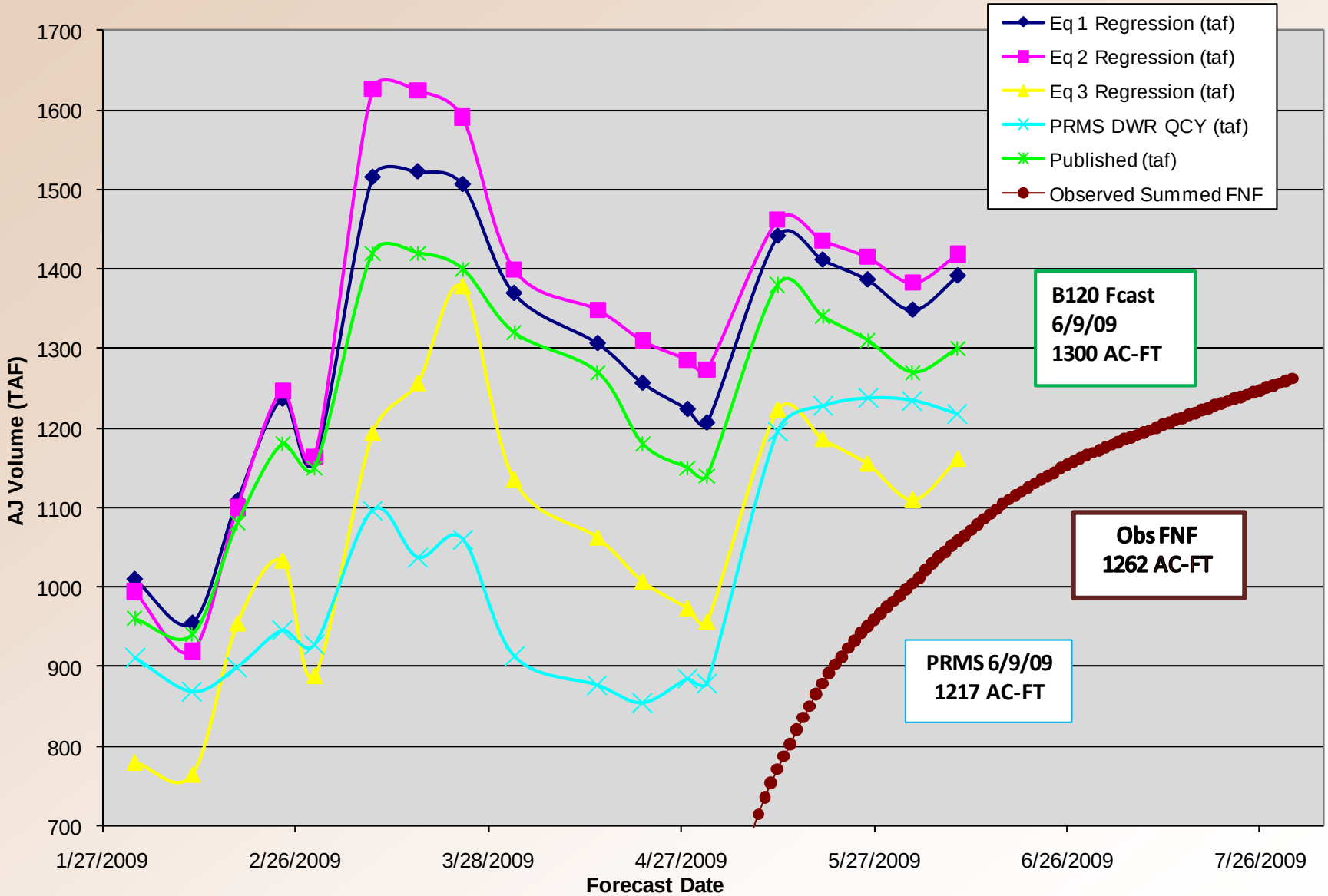
- Climate Stations used in the model
- Performance of Model (DWR QCY Temp)
- Performance of Model (USFS QNC Temp)
- PRISM Data Improvements
- Lake Davis Forecast Model Development
- Model Improvement/Recalibration Tasks

Climate Stations used in the Model

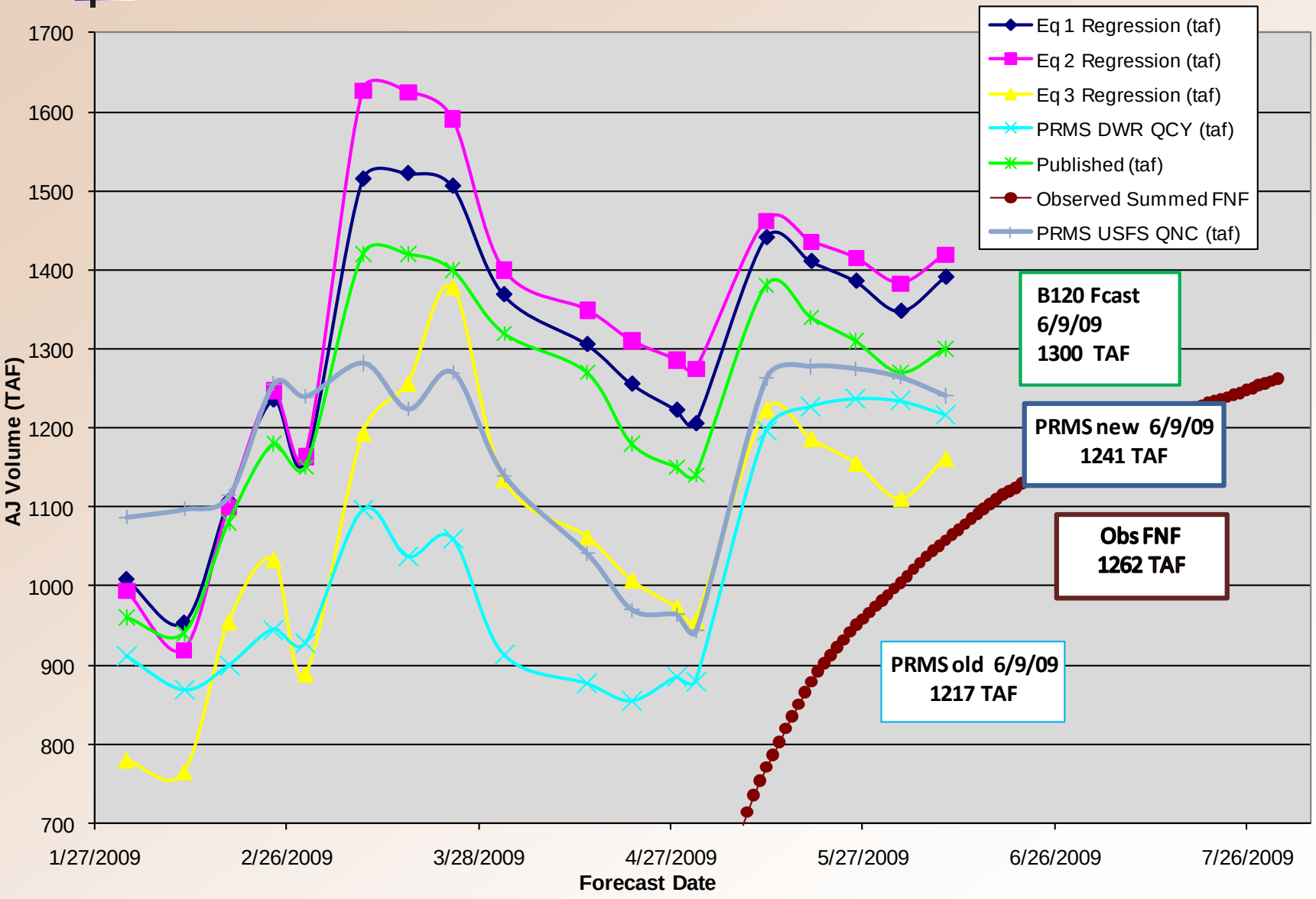
Feather River @ Oroville Forecast Station



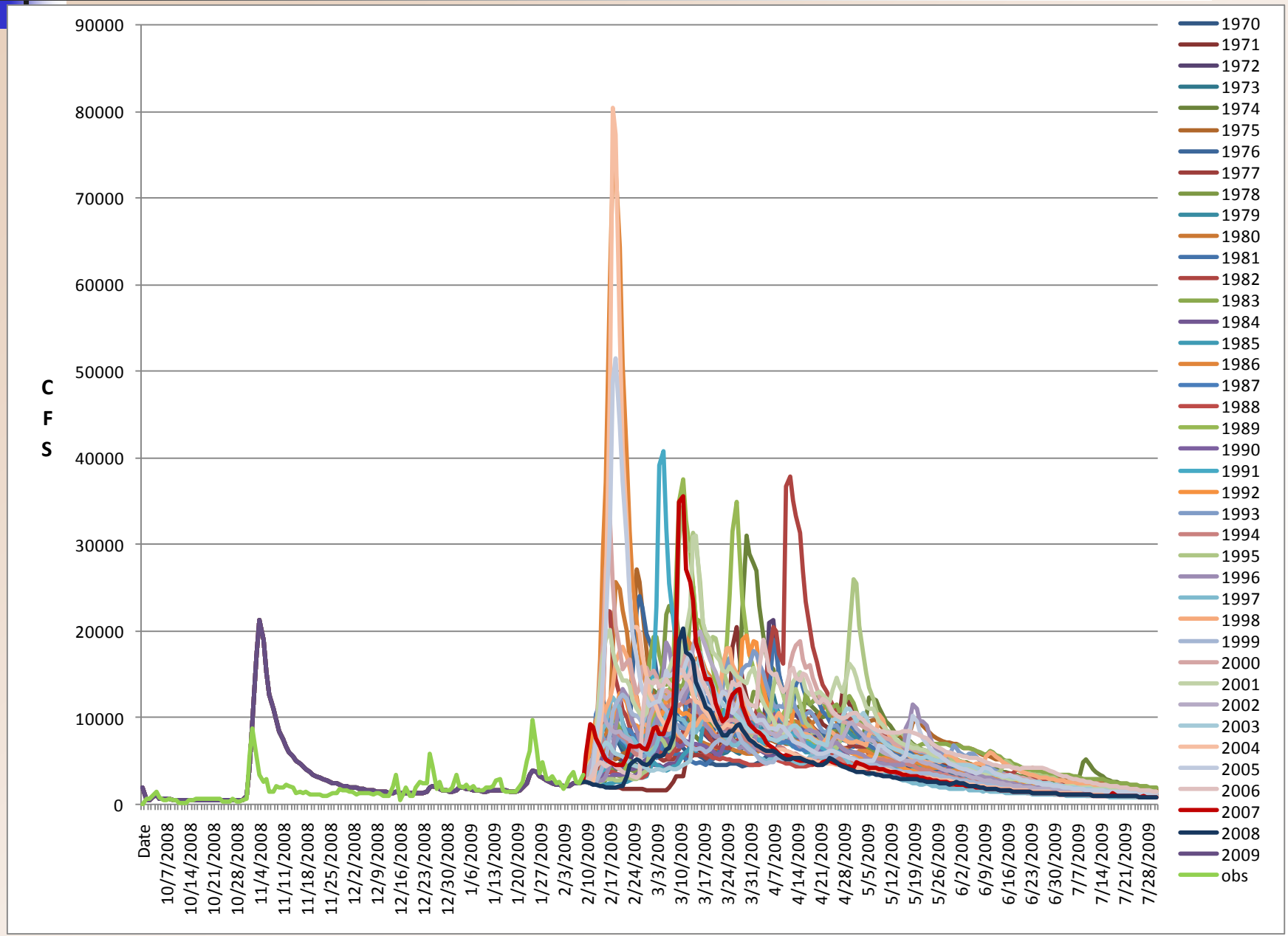
Feather River @ Oroville AJ Forecast Comparisons



Feather River @ Oroville AJ Forecast Comparisons

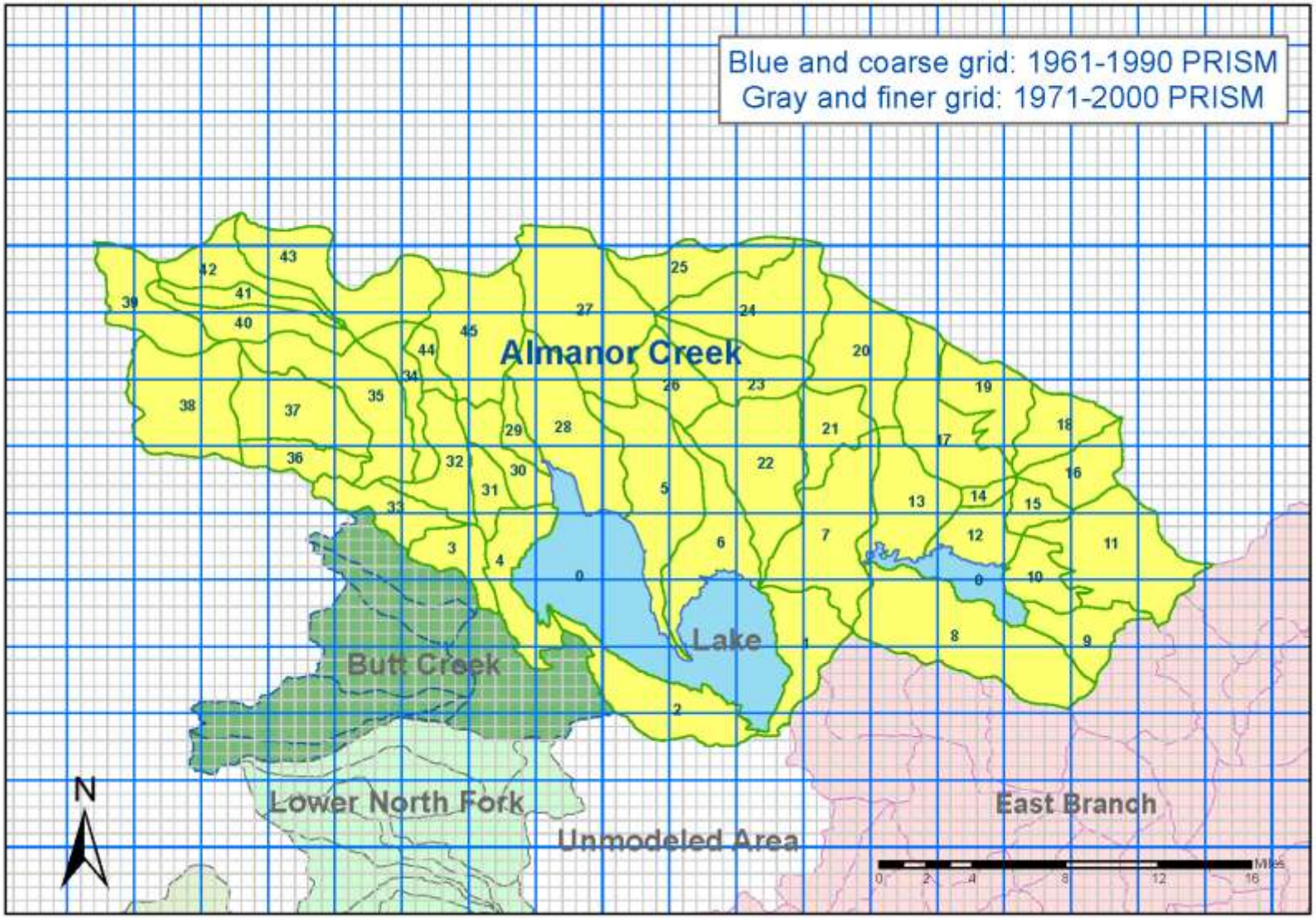


2/10/2009 Feather PRMS ESP Forecast



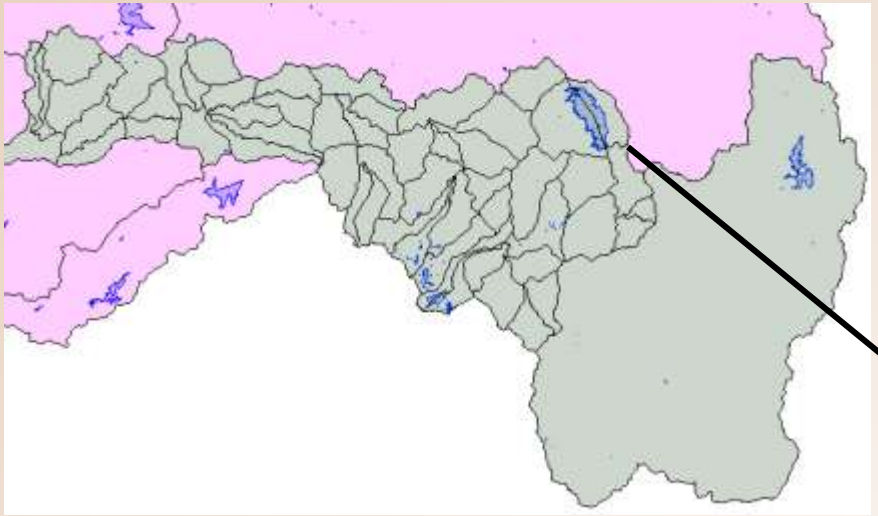
PRISM Data

Comparison of grids between 1961-1990 PRISM and 1971-2000 PRISM

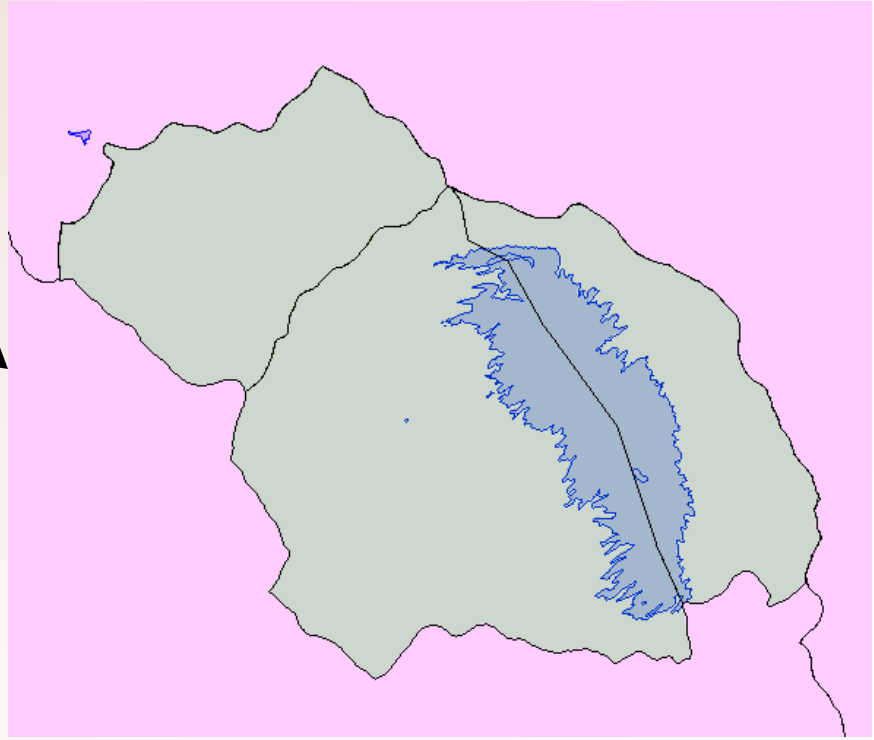


Lake Davis Forecast Model Development

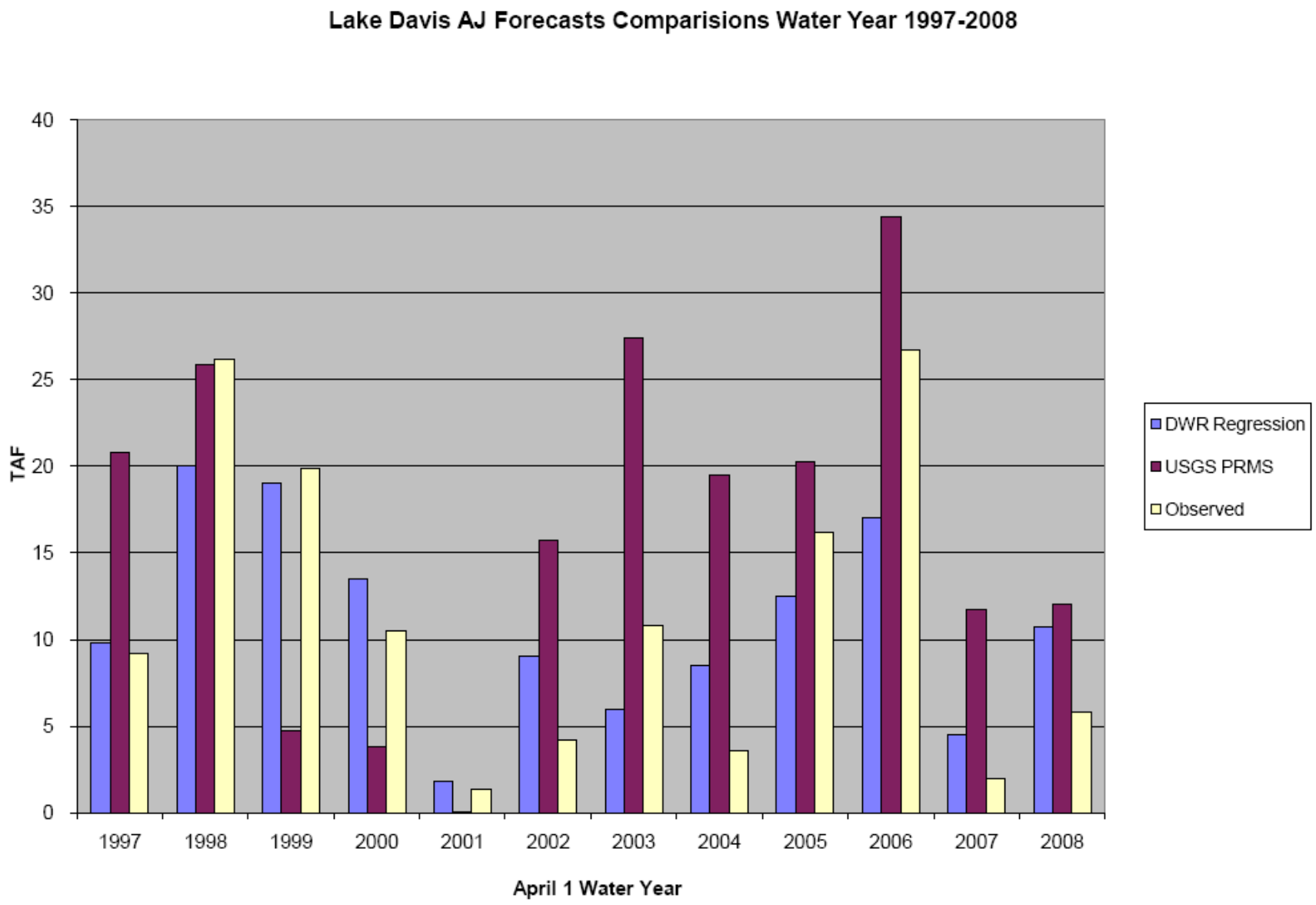
Middle Fork Basin



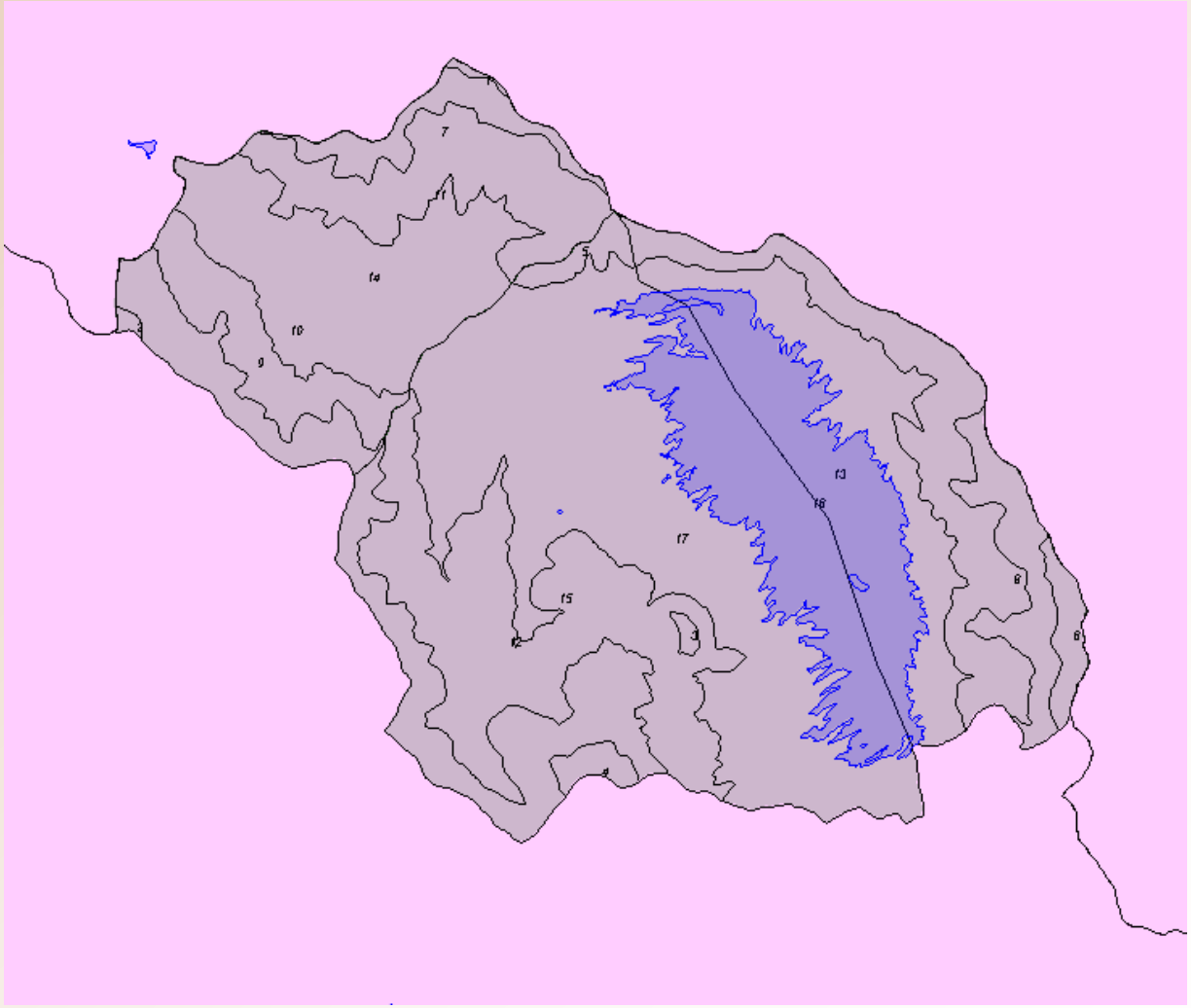
Lake Davis -3 HRU



Lake Davis Catchment Model Development



Lake Davis -17 HRU



Model Improvement/Recalibration Tasks (Currently) Defined

- Improve usability of program
- Develop 20-Day Snow-Melt Forecast
- Develop Short-Term 5-Day Forecast
- Update PRISM Precipitation averages to 71-00
- Add forecast points: Lake Davis, Frenchman Lake…
- Add more precipitation and temperature stations

Questions?

- John j. King
- Hyun-Min Shin
- Yonas Tesfaye
- Brian Wallace
- Kate Koczot