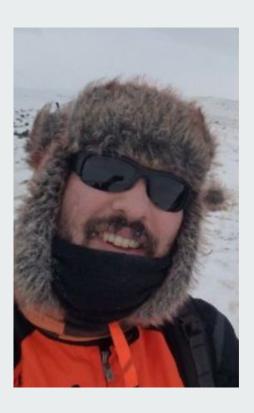
Water Resources



Presenting



Brian Reynolds

Data Scientist

&

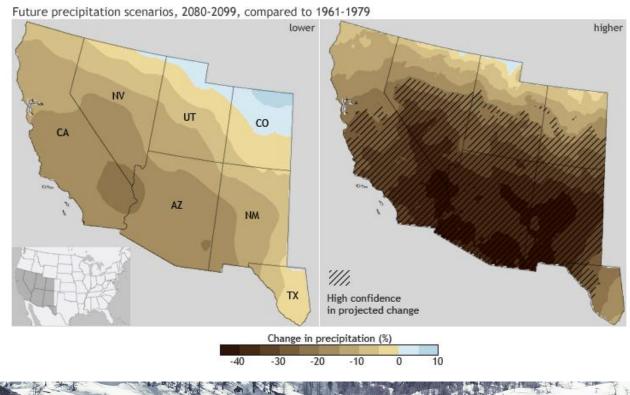
Natural Resources Consultant

<u>LinkedIn</u> <u>GitHub</u>

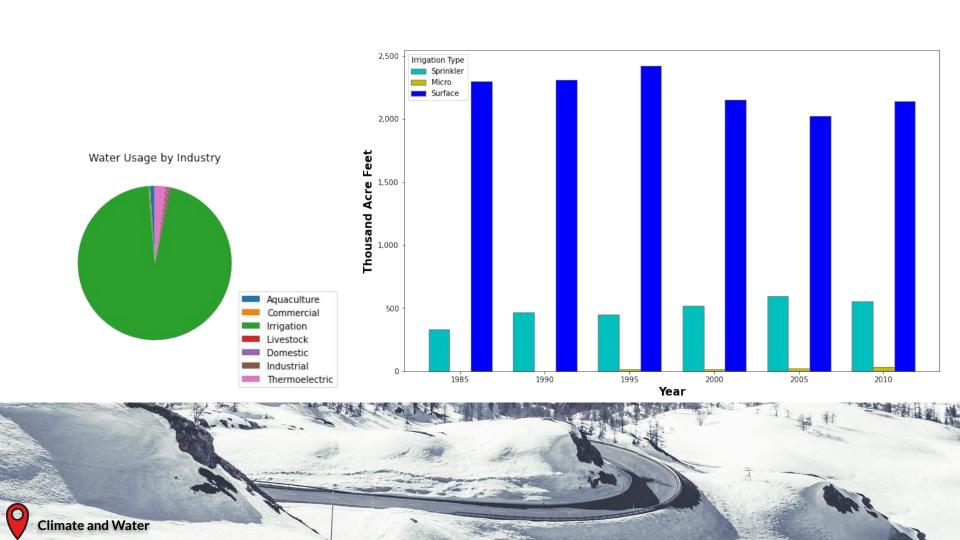


Climate & Water in the Southwest



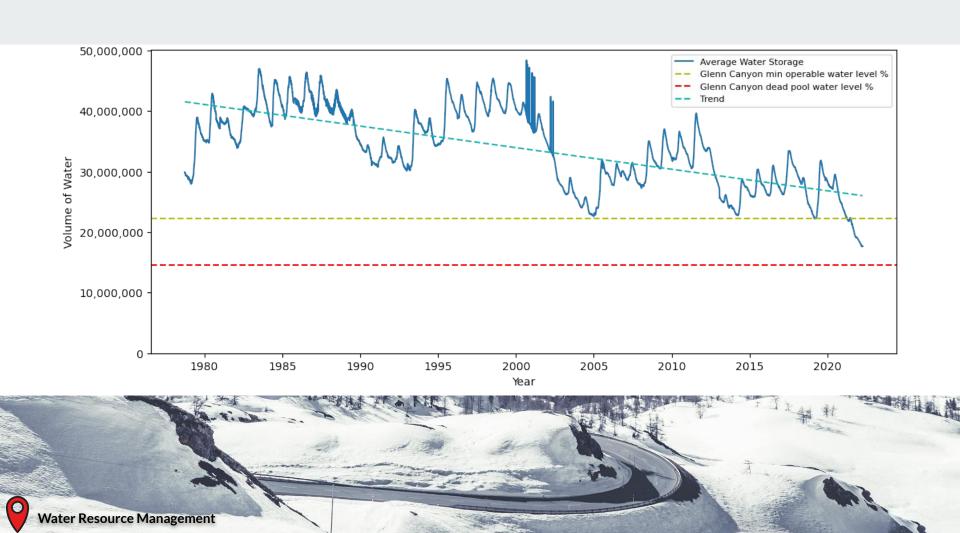






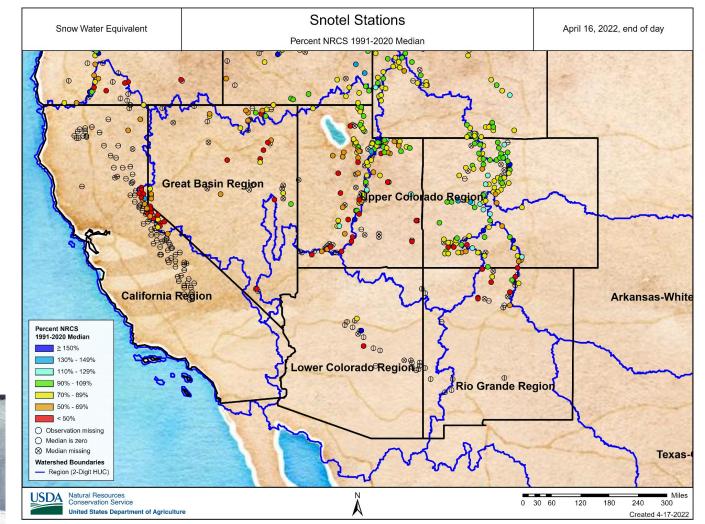
Water Resource Management





Data Collection







Water Storage & Withdrawals



Glenn Canyon Dam

Irrigation Surface Withdrawals

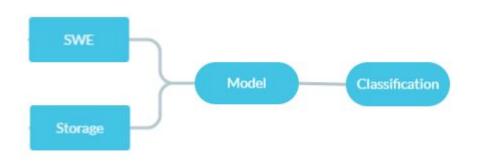


Machine Learning

Using predictive models to drive regulatory policy



Machine Learning



Accuracy: 97.2%

Identifies between:

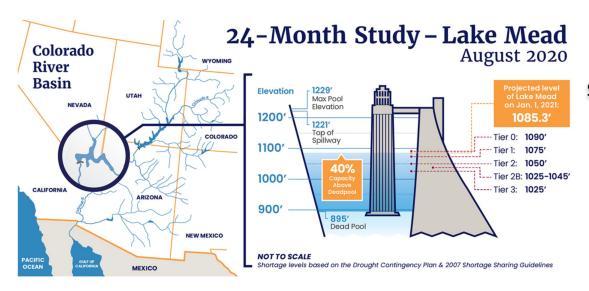
- Operational water depth
- Non-operational water depth
- Dead-pool water depth



Future Considerations



Future Considerations



Specificity and Customization

- Grouping by downstream reservoir
- Applying model to new basins
- Prepare model classification based recommendations for management



Thank you.

