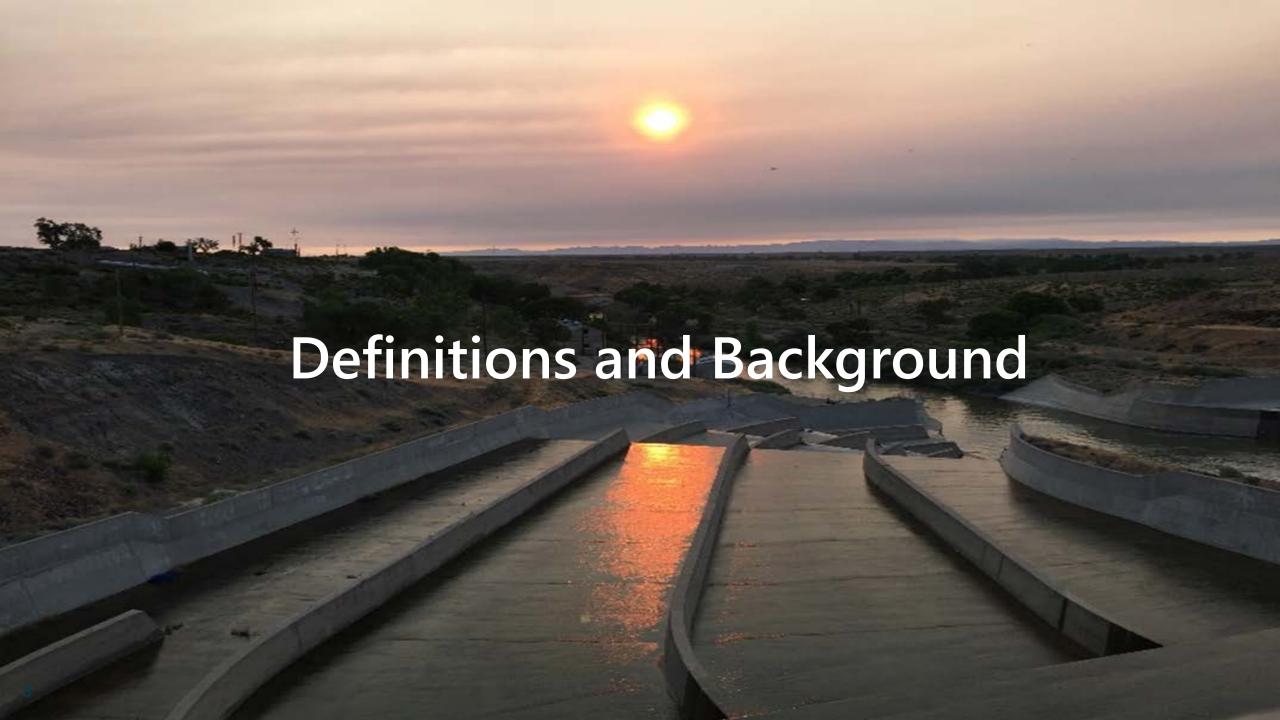


#### Overview

- Definitions and Background
- Comparison of Forecasts to Forecasted Lahontan Storage
- Comparison of Monthly Forecast to Actual Operations
- Summary





#### **Definitions**

- NRCS A J Forecast: forecasted volume of flow to past a gage from April 1st through July 31st
- Lahontan Storage Target (LSOCM): operational storage target for the last day of the month, target is variable January through May and fixed July through December; governed by OCAP

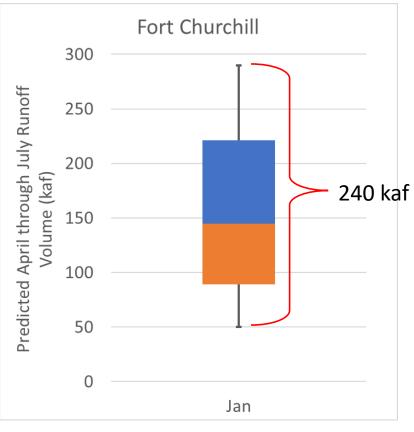
# Background

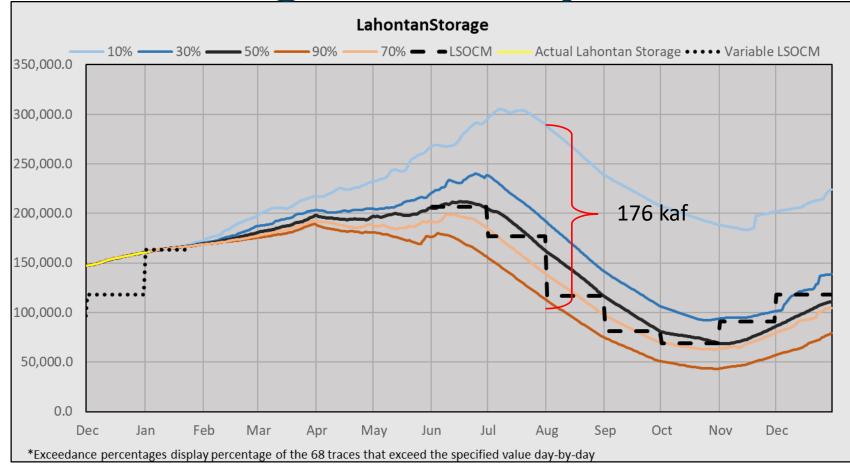
- Forecasts are generated by scaling 68 RFC traces to the NRCS A J forecasts
- Lahontan storage targets determine the volume of diversion through the Truckee Canal
- Forecasts are used to predict Lahontan storage



## Lahontan Predicted Storage: January

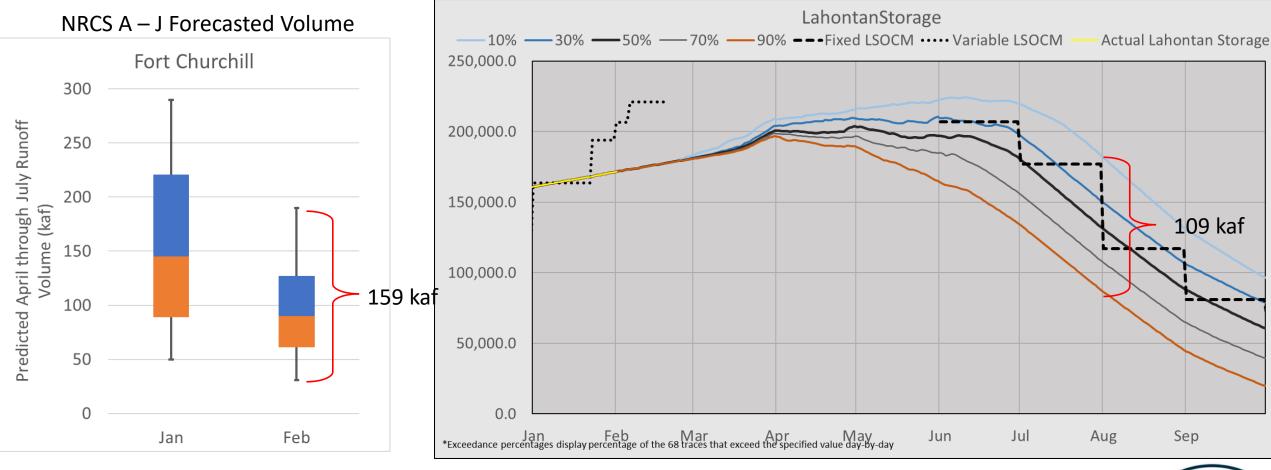






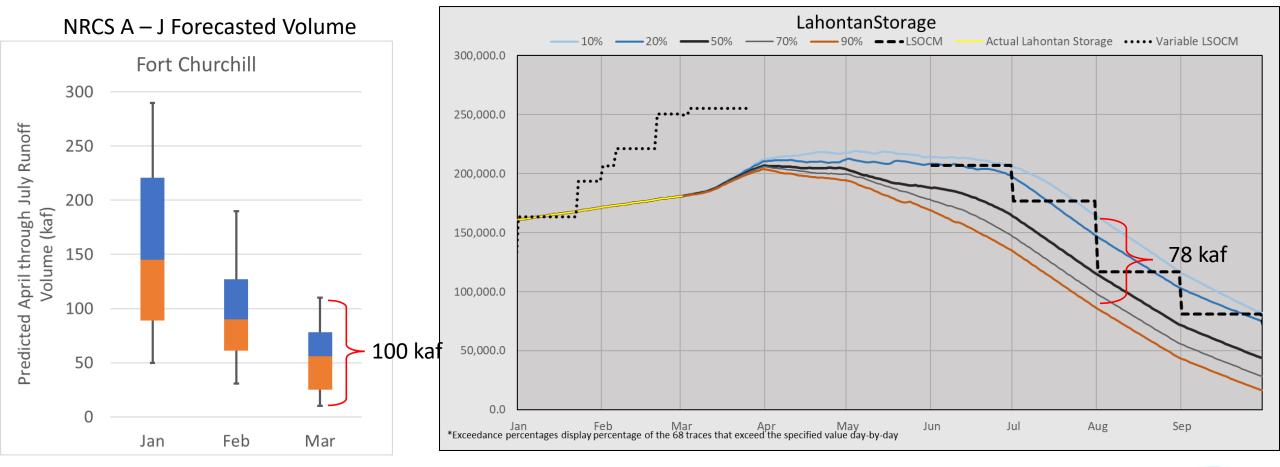


# Lahontan Predicted Storage: February





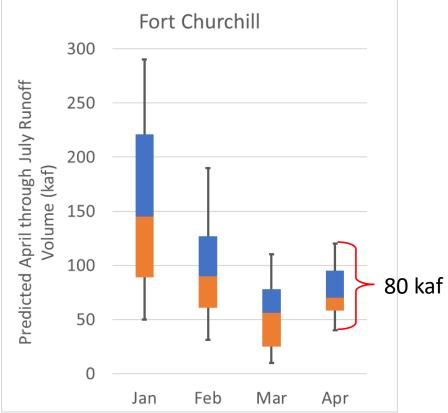
# Lahontan Predicted Storage: March

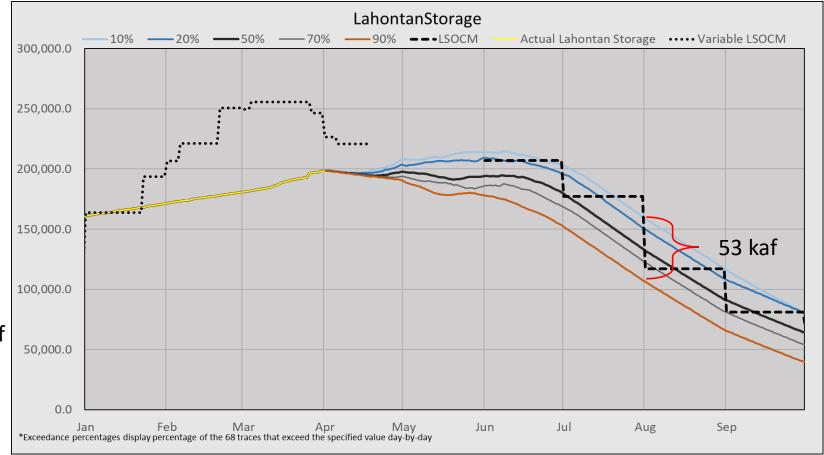




# Lahontan Predicted Storage: April

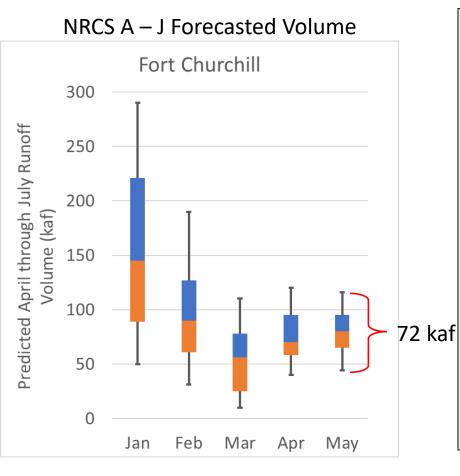


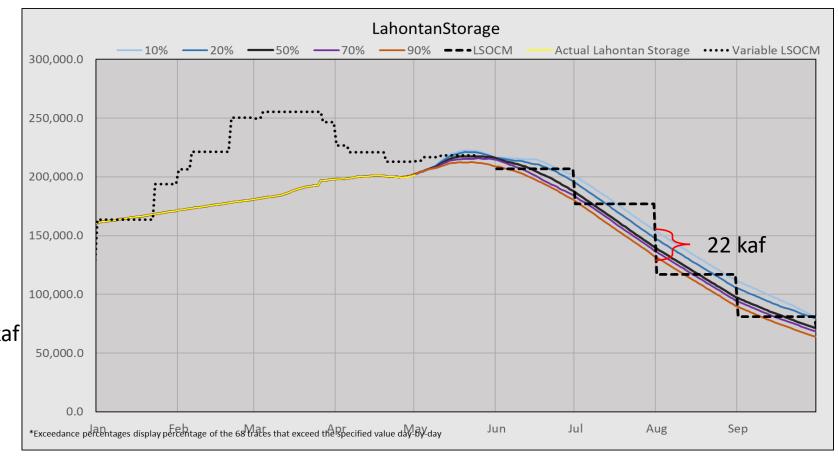






## Lahontan Predicted Storage: May

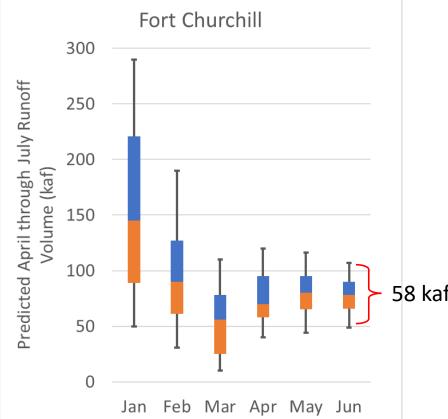


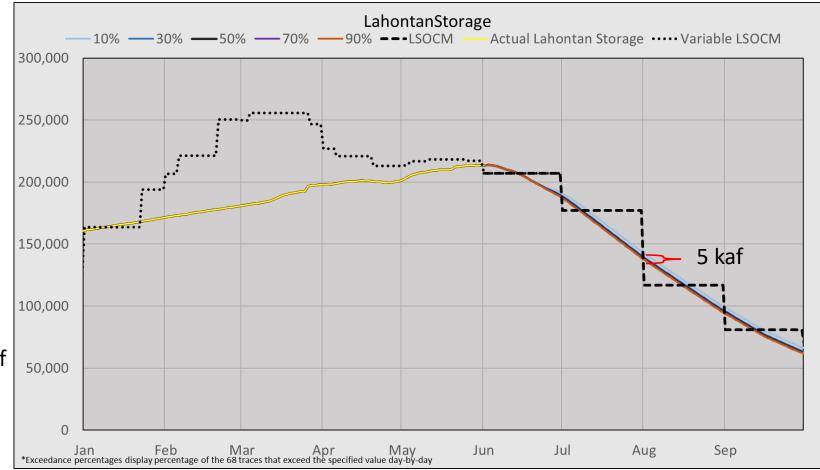




## Lahontan Predicted Storage: June



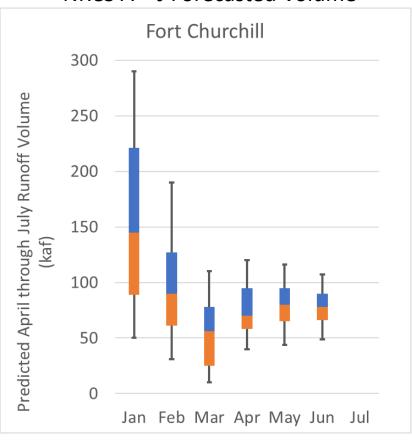


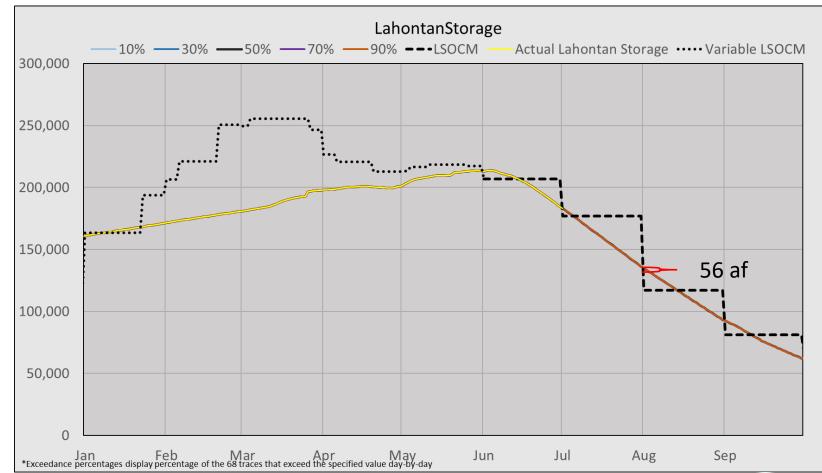




## Lahontan Predicted Storage: July

NRCS A – J Forecasted Volume

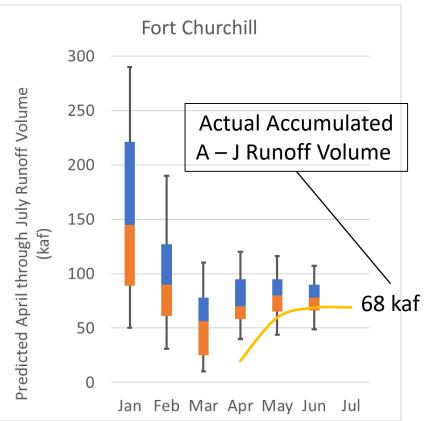


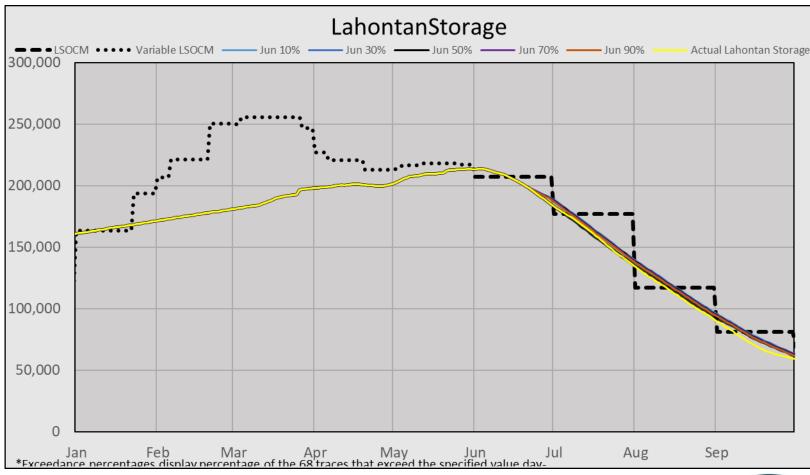




Lahontan Predicted Storage: Where Did We End?







Where was Lahontan storage in the forecast spread?	Jan	Feb	Mar	Apr	May	Jun	Average
Short Term (within the month the forecast was produced)	50%	50%	90%	10%	90%	50%	56%
On July 31st	70%	50%	30%	50%	90%	90%	64%



#### Summary

- Short Term Forecast Basis
  - Actual Lahontan Storage fell around 56% Exceedance of Lahontan Storage Predicted Range
- Long Term Forecast Basis
  - Actual Lahontan Storage fell around 64% Exceedance of Predicted Lahontan Storage Range

## Take-Away Messages

- Important to look at the whole range of the forecasts for operations
- Forecasting is difficult
- Thank you NRCS, RFC, NWS, and USGS!



