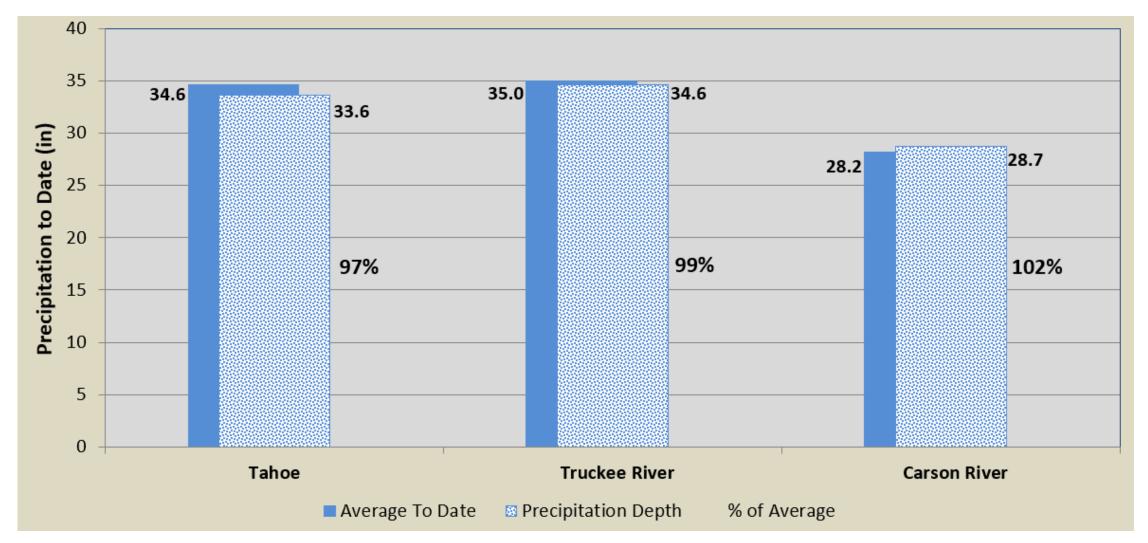
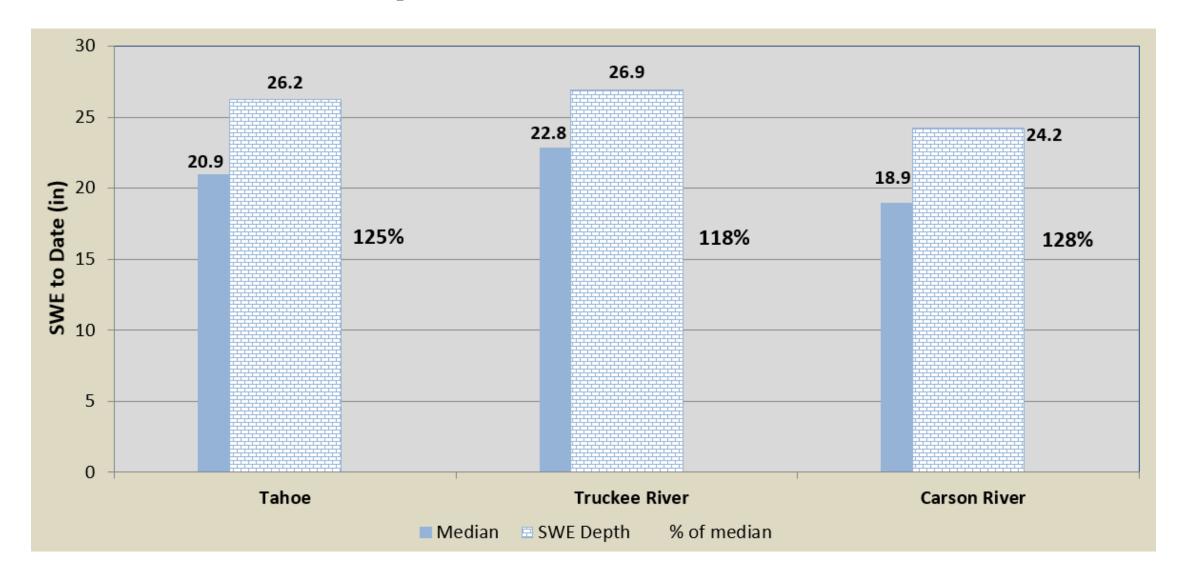


### **Current WY Precipitation To Date**





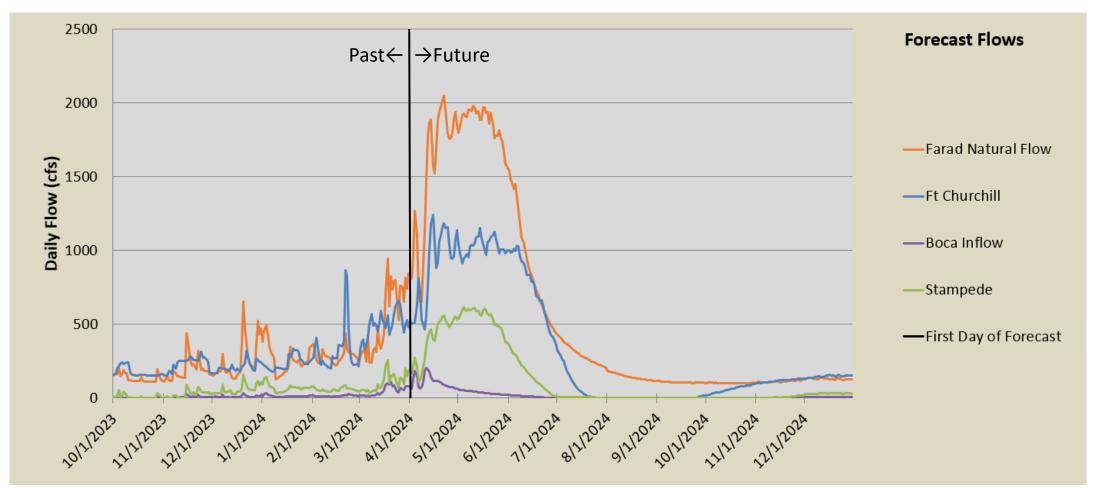
### **Current Snowpack**





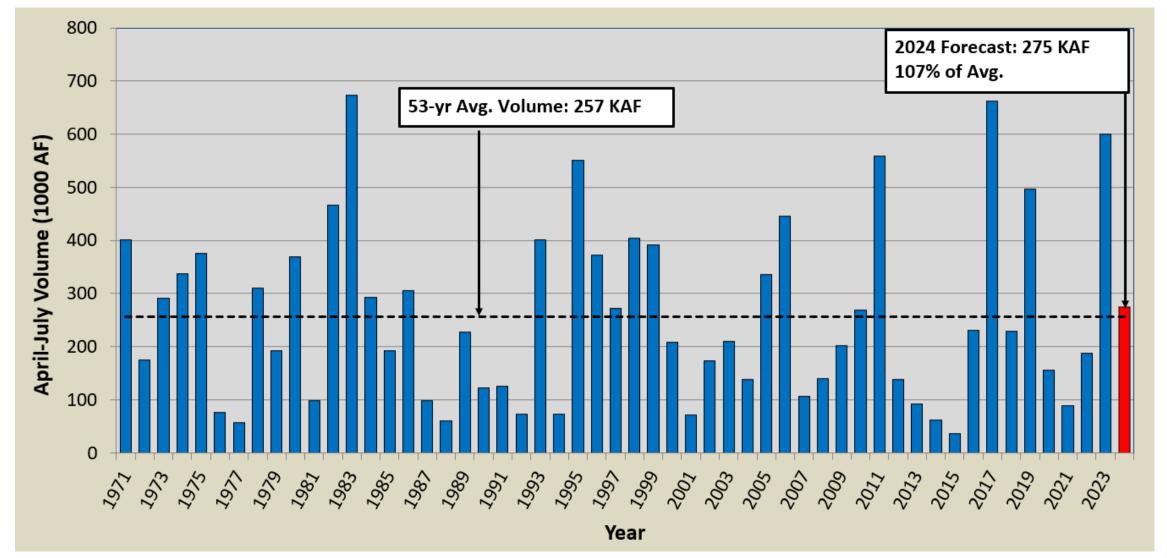
### WY 2024 April 1 NRCS Forecast - Hydrograph

	Farad AJ Vol (KAF)	Carson AJ Vol (KAF)	Tahoe Gate Closed Rise (ft.)
30% (W)	295	195	1.65
50% (M)	275	165	1.40
70% (D)	255	150	1.20



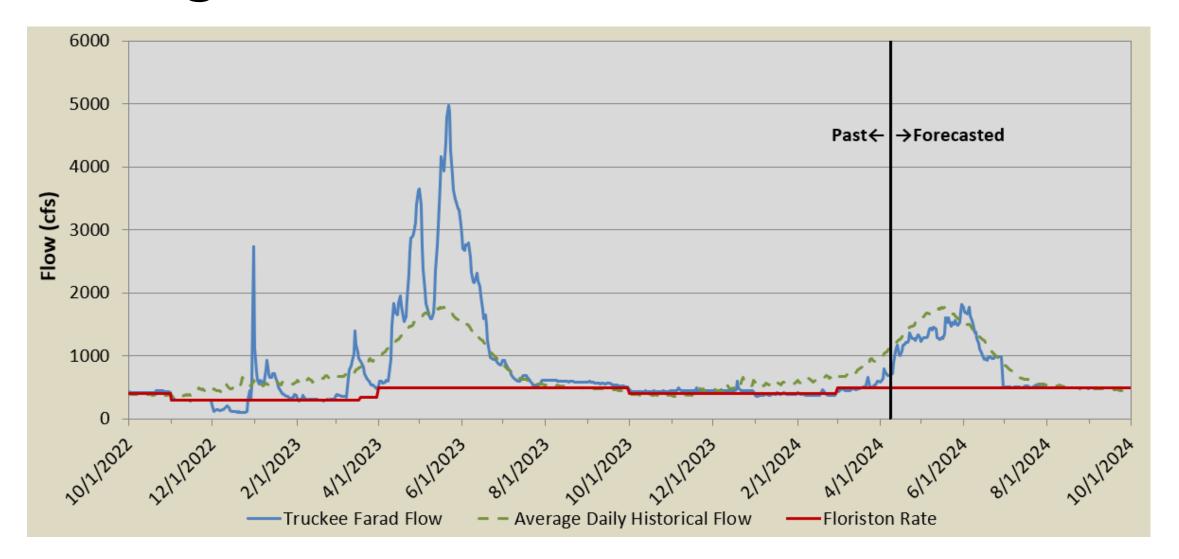


### Historical & Forecasted A-J Runoff – Farad



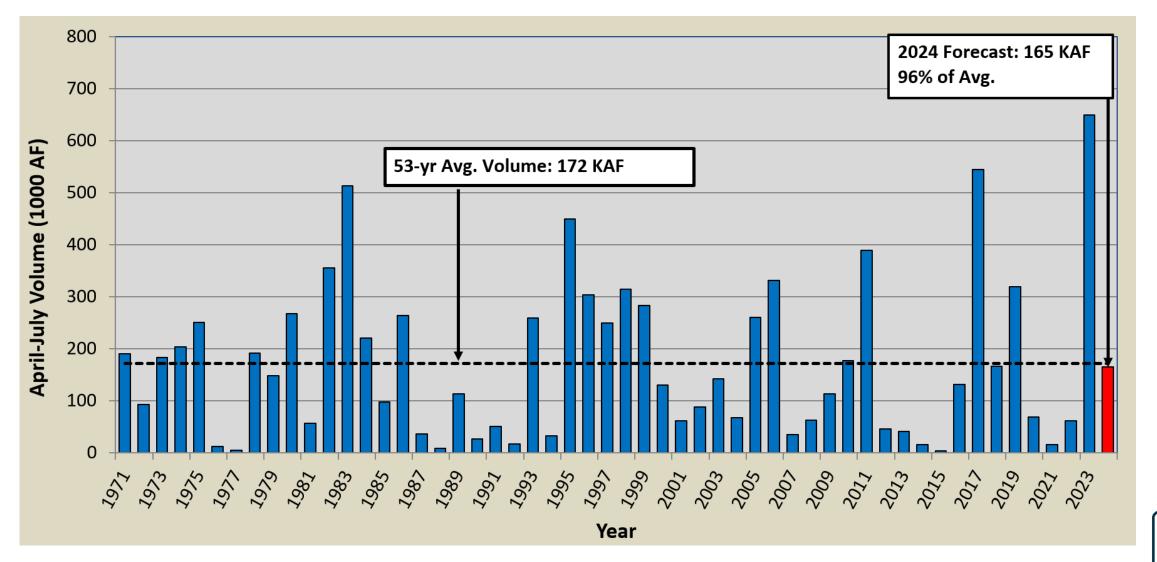


### Average, Historic & Forecasted Farad Flow



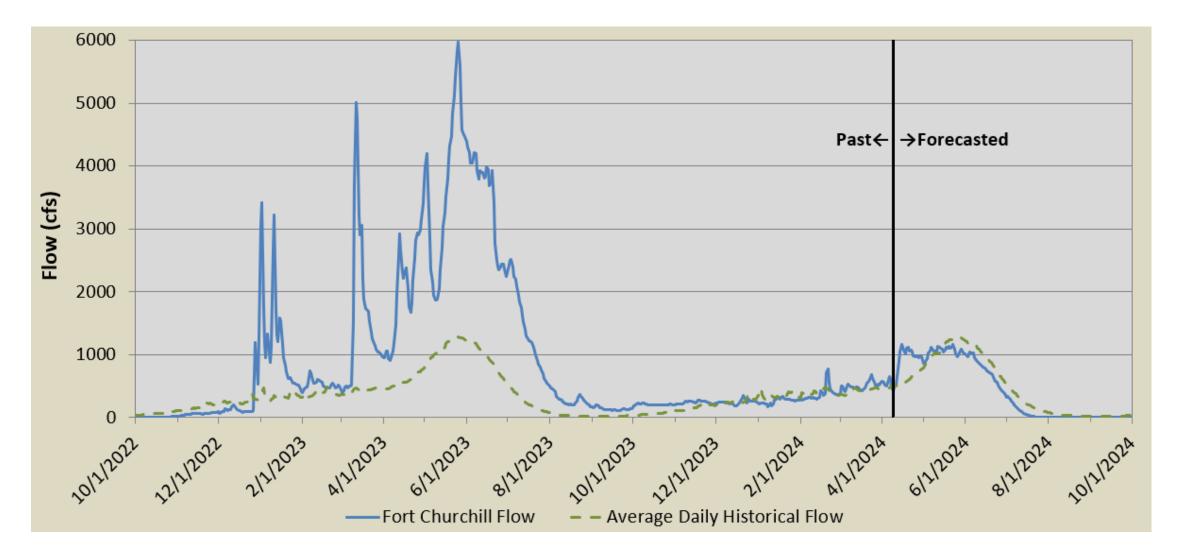


### Historical & Forecasted A-J Runoff-Ft Churchill



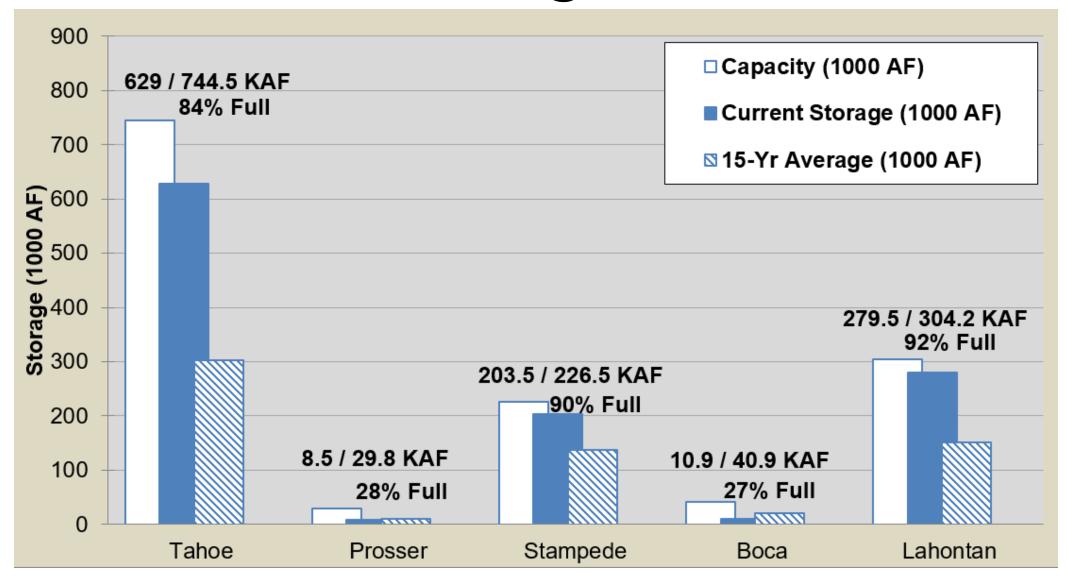


### Average & Forecasted Ft. Churchill Flow



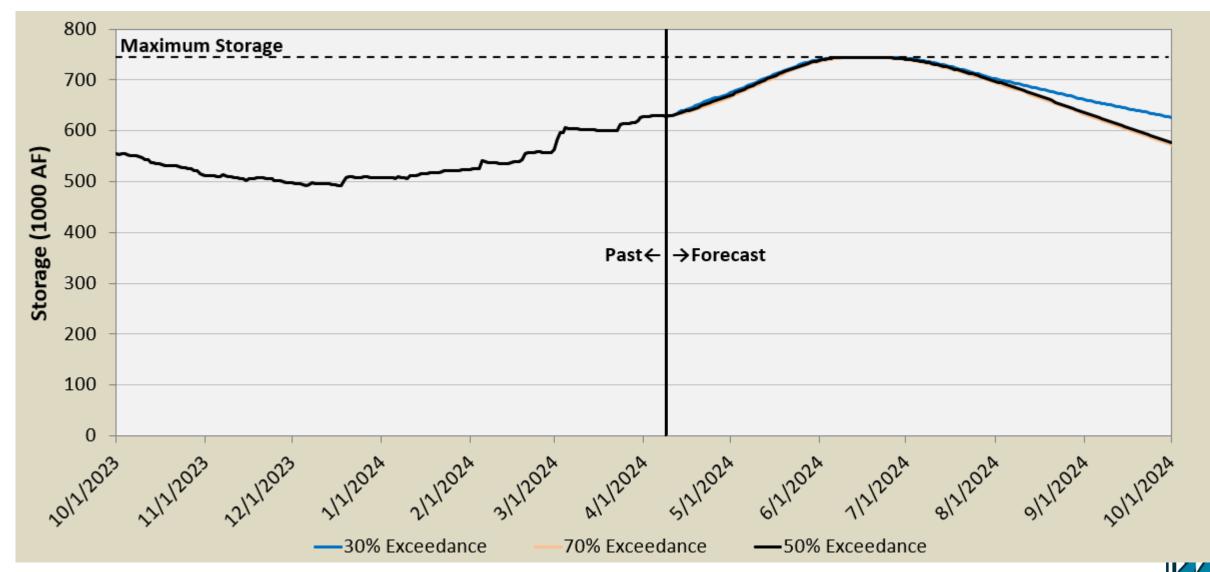


### **Current Reservoir Storage**

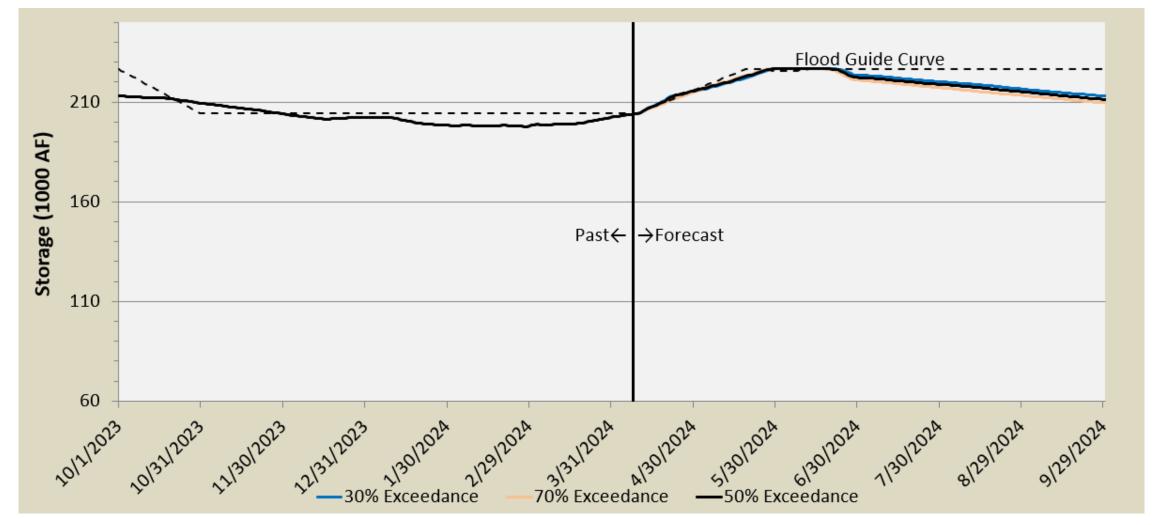


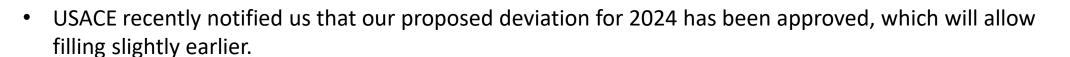


### Lake Tahoe Storage Forecast



### Stampede Reservoir Storage Forecast





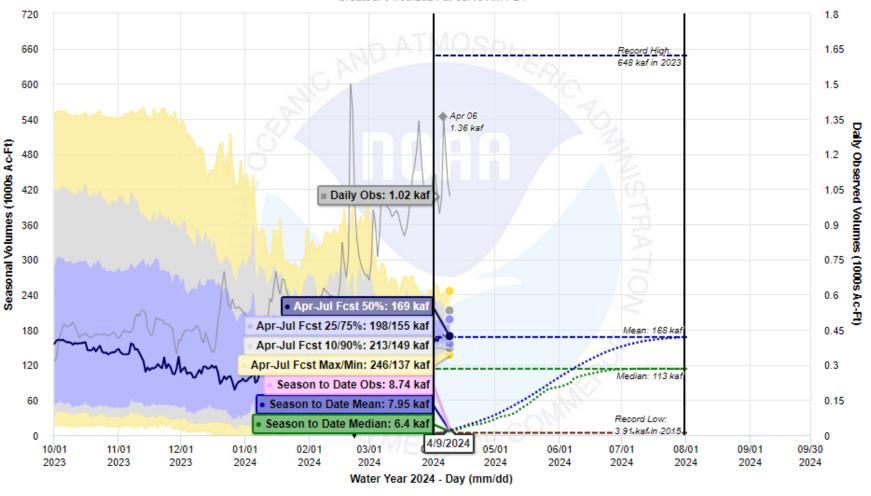


#### CARSON - FORT CHURCHILL, NR (FTCN2) 04/09/2024

Median Forecast: 169 kaf | 101% of Mean | 149% of Median

Created: 04/09/2024 at 08:46 AM PDT

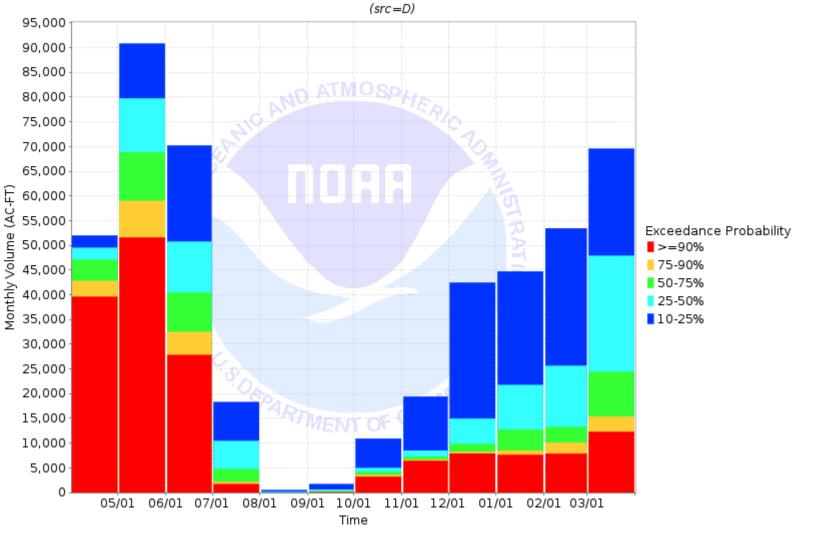
# Forecasted Lahontan Inflows





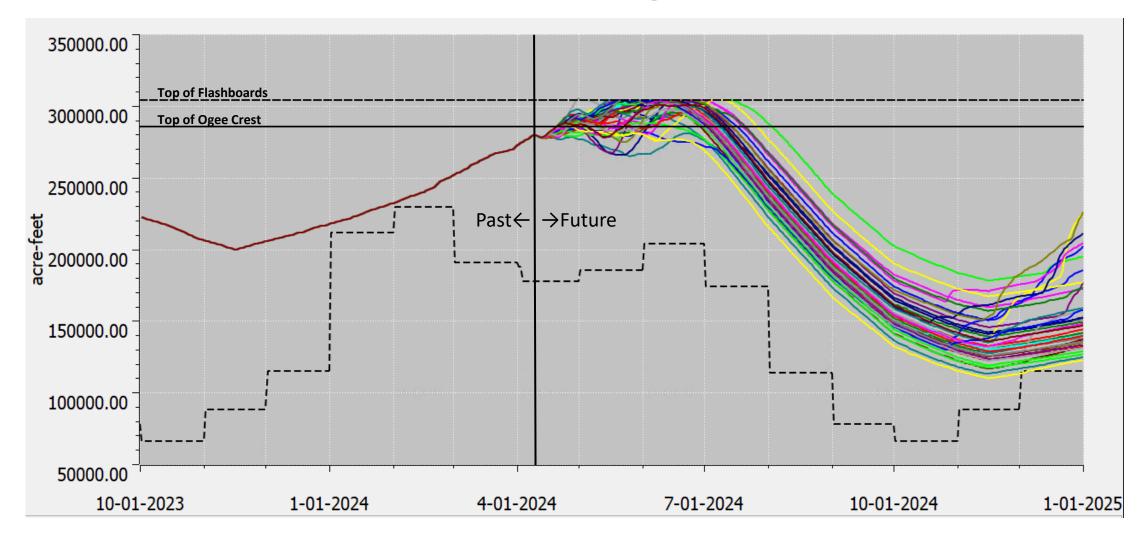
### Monthly Volume Exceedance Values on the CARSON - FORT CHURCHILL, Latitude: 39.291668 Longitude: -119.31111 Forecast for the period 04/09/2024 - 04/01/2025 This is a conditional simulation based on the current conditions as of 04/09/2024

Forecasted Lahontan Inflows



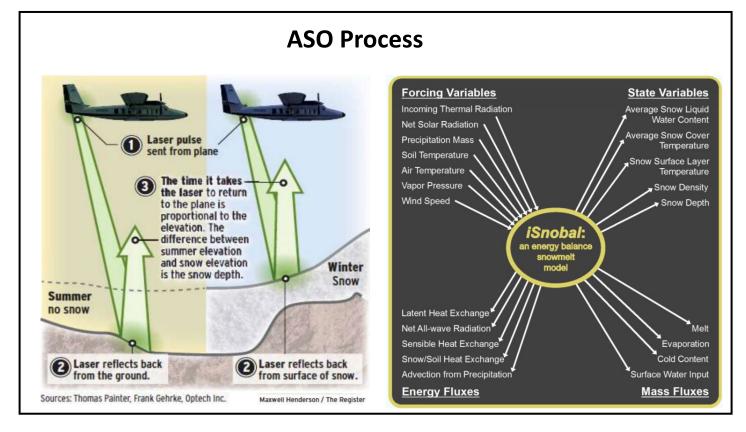


### Lahontan Reservoir Storage Forecast





Airborne Snow Observatory in the Truckee/ Carson Basins



- Flights/Modeling will provide spatially distributed estimates of SWE
- 2024: 2 flights funded by CA DWR. TCID and Water Master awarded a Reclamation grant, funding 1 additional flight and development of WRF-Hydro model



## Carson Airborne Snow Observatory Flight

CARSON RIVER
MARCH 21-22, 2024 SURVEY

Survey date: March 21-22, 2024 Survey # of Water Year 2024: 2

Report delivery date: March 28, 2024

Full domain SWE: 322 ± 10 TAF
Δ SWE since previous survey: +84 TAF

Estimated snowline: 6300 ft

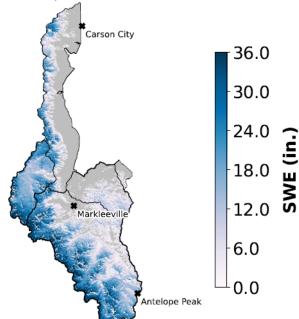


Figure 1. Spatial distribution of Snow Water Equivalent (SWE) depth (in).

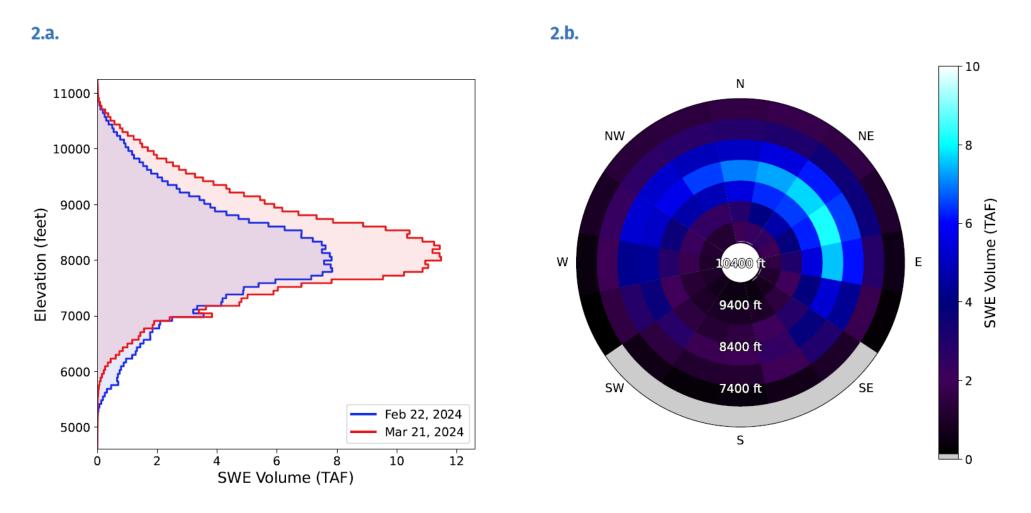


**Table 1.** Estimated SWE volume in Thousand Acre Feet (TAF) for the full Carson basin and subbasins for the March 21-22 survey. Note: subbasins may be overlapping and/or not fully cover the survey domain, therefore TAF values may not add up to the full-domain SWE. We also do not report SWE values for subbasins that extend beyond the boundary of the survey domain.

Basin	Estimated SWE (TAF) February 22	Estimated SWE (TAF) March 21-22
Full domain	238	322
Uncertainty range	232 - 244	312 - 332
East Fork near Markleeville	148	207
West Fork near Woodfords	50	67
East Fork near Gardnerville	159	217



### Distribution of SWE from March 21-22 ASO flight



**Figure 2.a.** Distribution of SWE volume (TAF) by elevation for the March 21-22 survey. Red repesents the March 21-22 survey, blue represents the February 22 survey. **2.b.** Distribution of SWE volume (TAF) by aspect and elevation for the March 21-22 survey. See Figure 8 and Figure 9 for more descriptive plots.



### Carson ASO+M3

CARSON RIVER, CA MARCH 31, 2024 MODELING REPORT

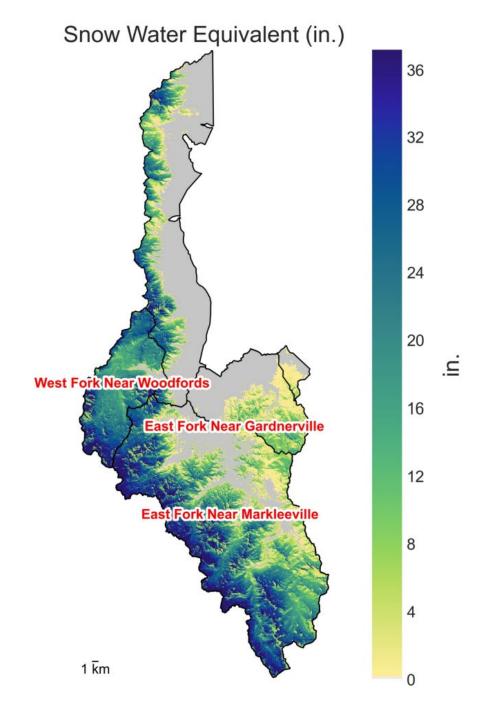
Current model date: March 31, 2024

Model Total Snow Water Equivalent: 372.0 TAF

Model Mean Snow Water Equivalent: 12.2 in.

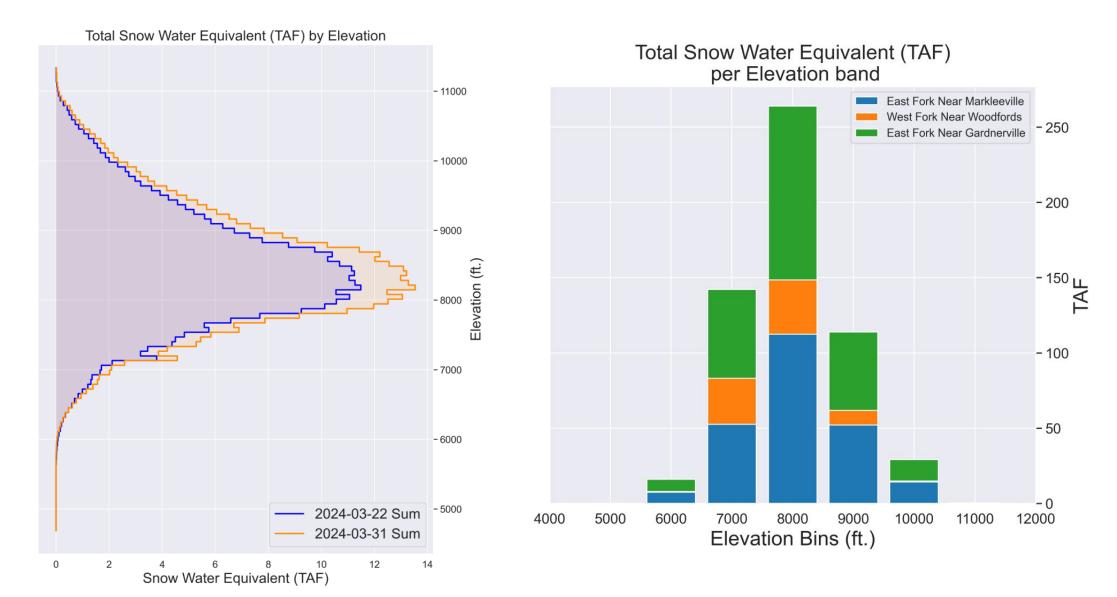
Model Mean Cold Content: -1.1 MJ/m^2

Model reporting period: March 22 - March 31, 2024
Change in Total Snow Water Equivalent: 56.1 TAF
Change in Mean Snow Water Equivalent: 1.8 in.
Accumulated Total Surface Water Input: 32.8 TAF
Accumulated Total Precipitation: 91.7 TAF
Change in Mean Cold Content: -0.9 MJ/m^2





### Carson ASO+M3 SWE by Elevation





### WY2024 Summary

- Lahontan precautionary drawdown initiated this week
- Truckee Canal Public Safety Improvement Project outage is completed
- ASO data is improving estimates of Truckee-Carson Snowpack

