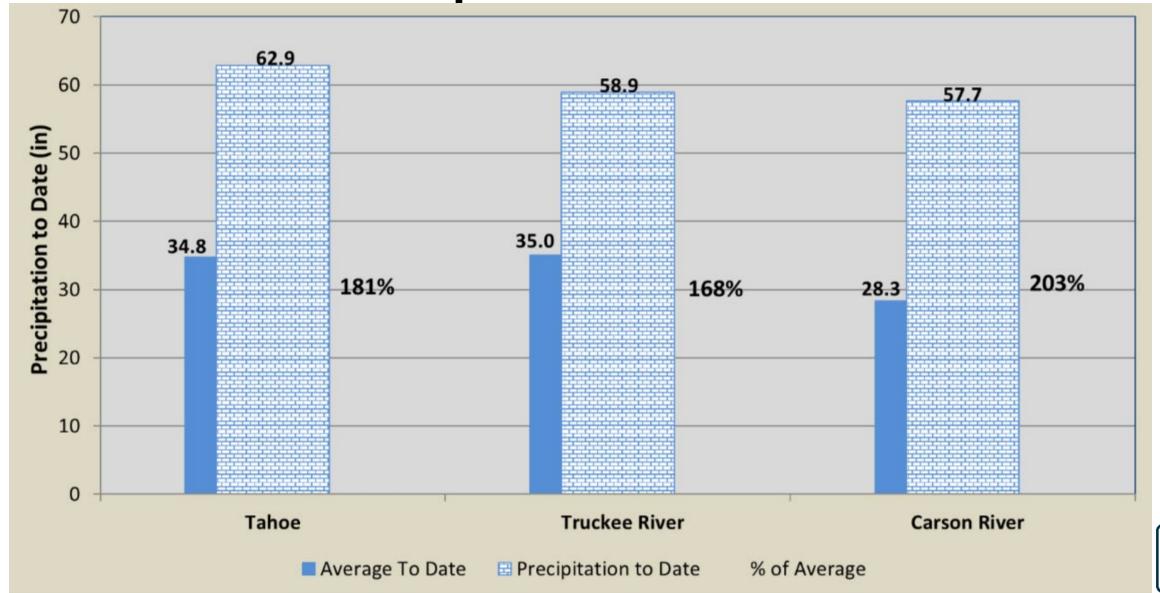




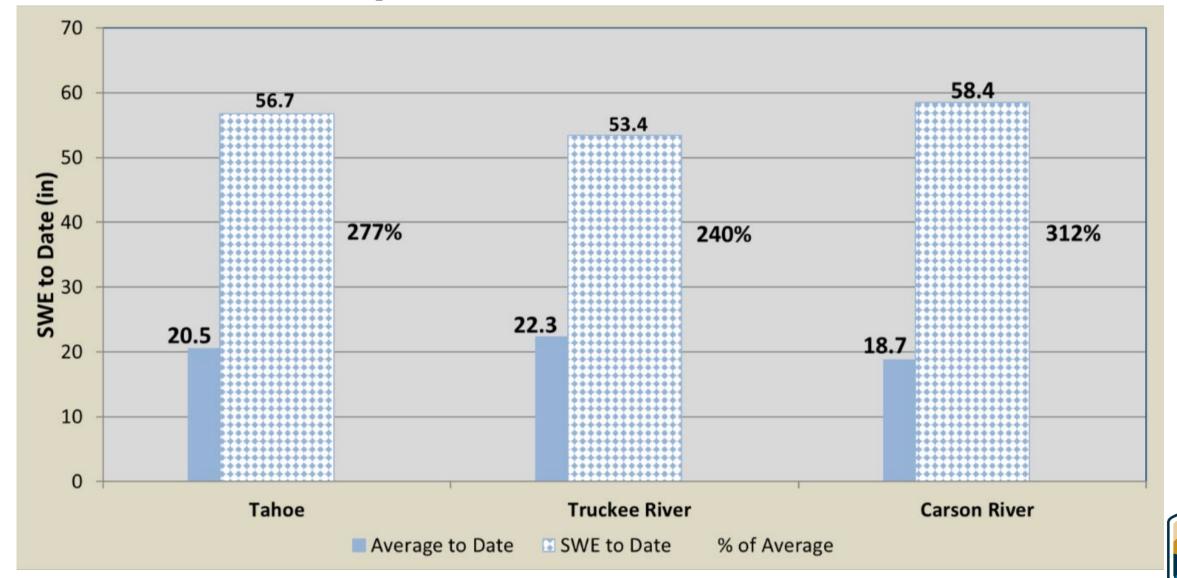


Current WY Precipitation To Date



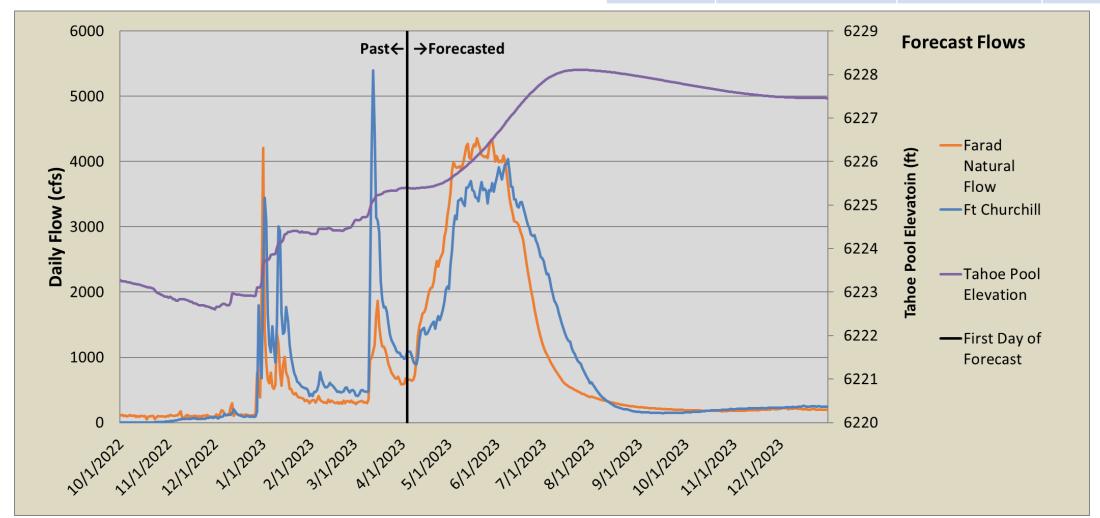


Current Snowpack



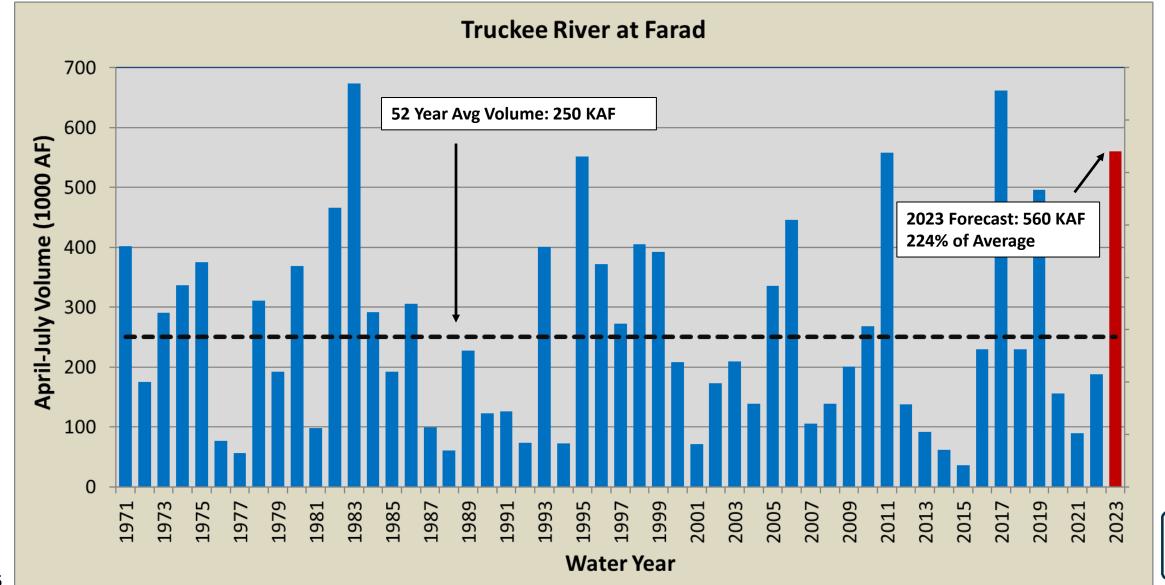
WY 2023 April 5 NRCS Forecast - Hydrograph

	Farad AJ Vol (KAF)	Carson AJ Vol (KAF)	Tahoe Gate Closed Rise (ft.)
30% (W)	660	590	3.20
50% (M)	560	570	2.90
70% (D)	530	550	2.60



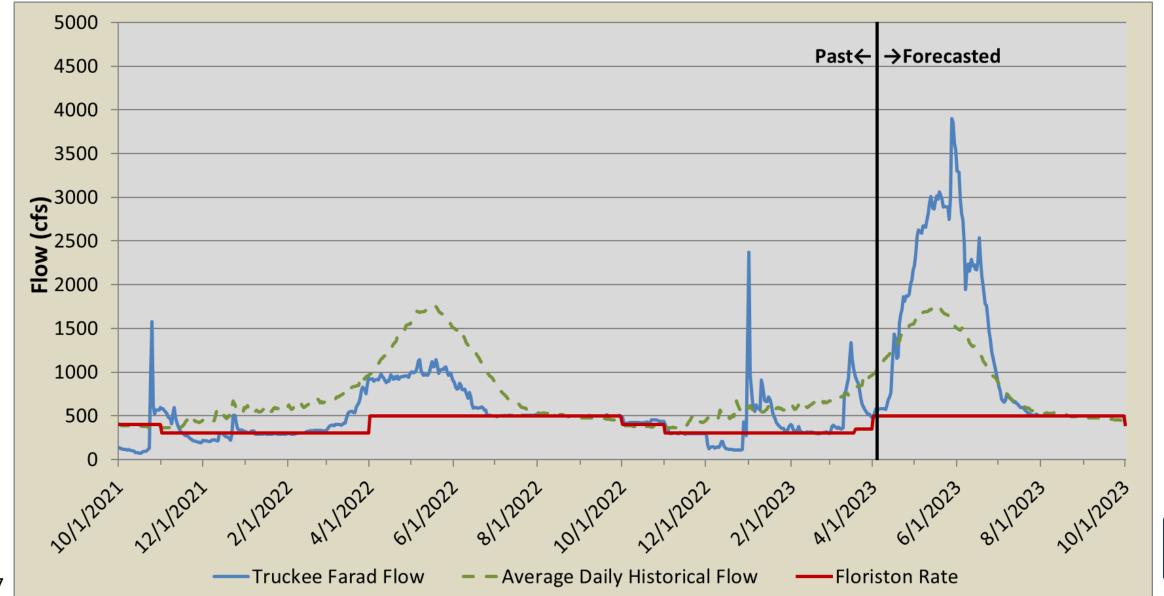


Historical & Forecasted A-J Runoff – Farad



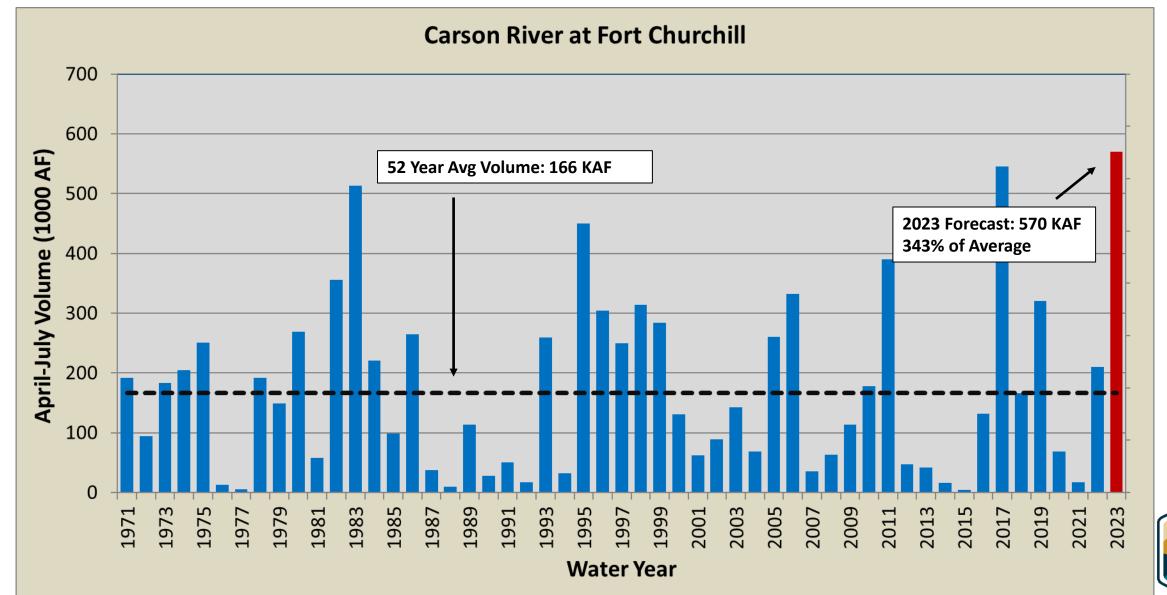


Average, Historic & Forecasted Farad Flow



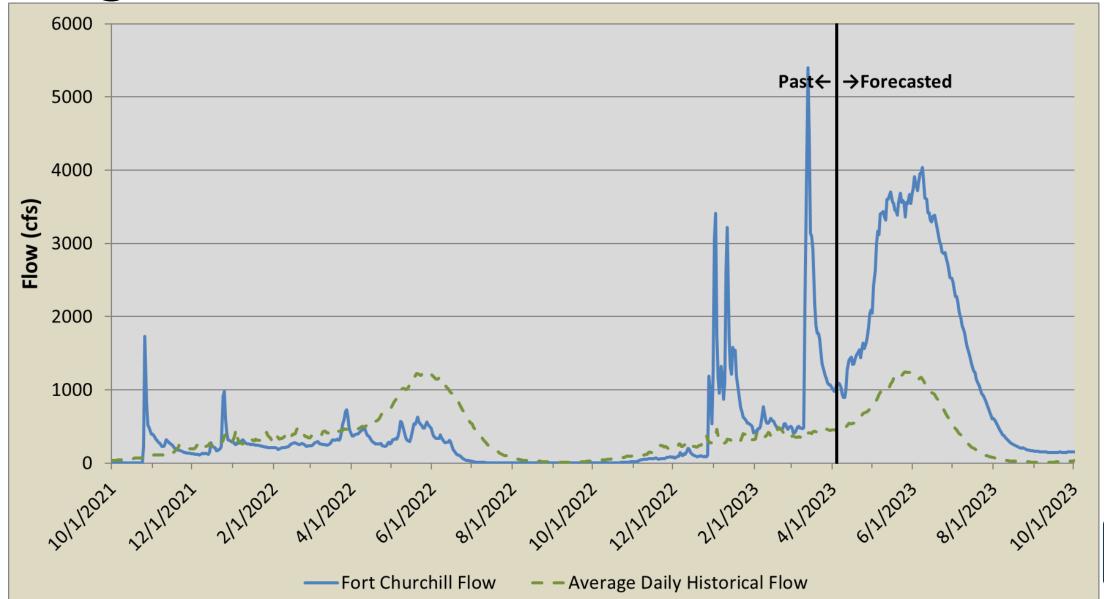


Historical & Forecasted A-J Runoff-Ft Churchill



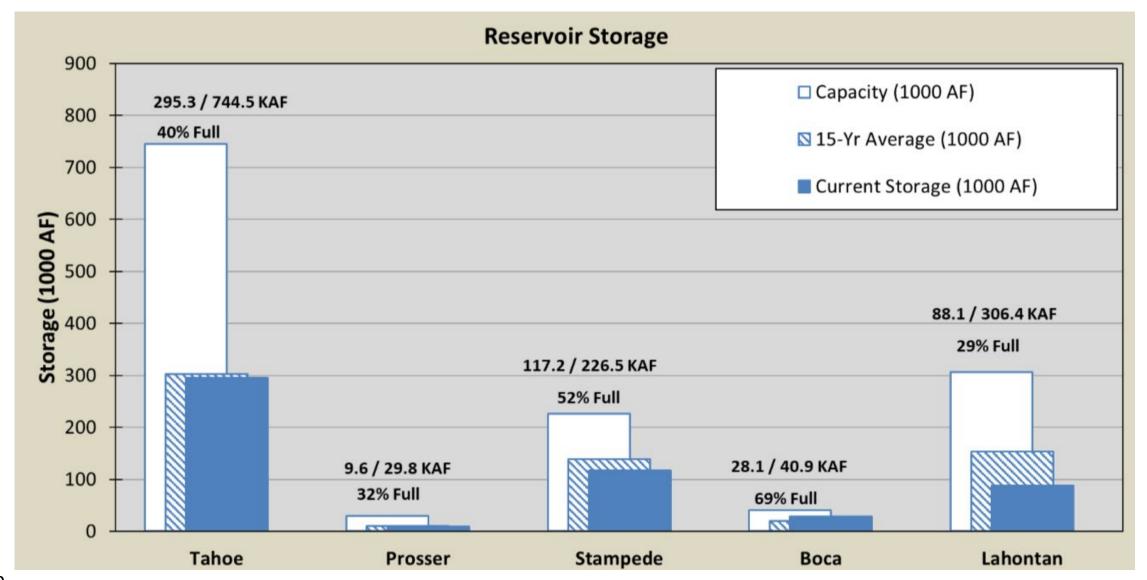


Average & Forecasted Ft. Churchill Flow



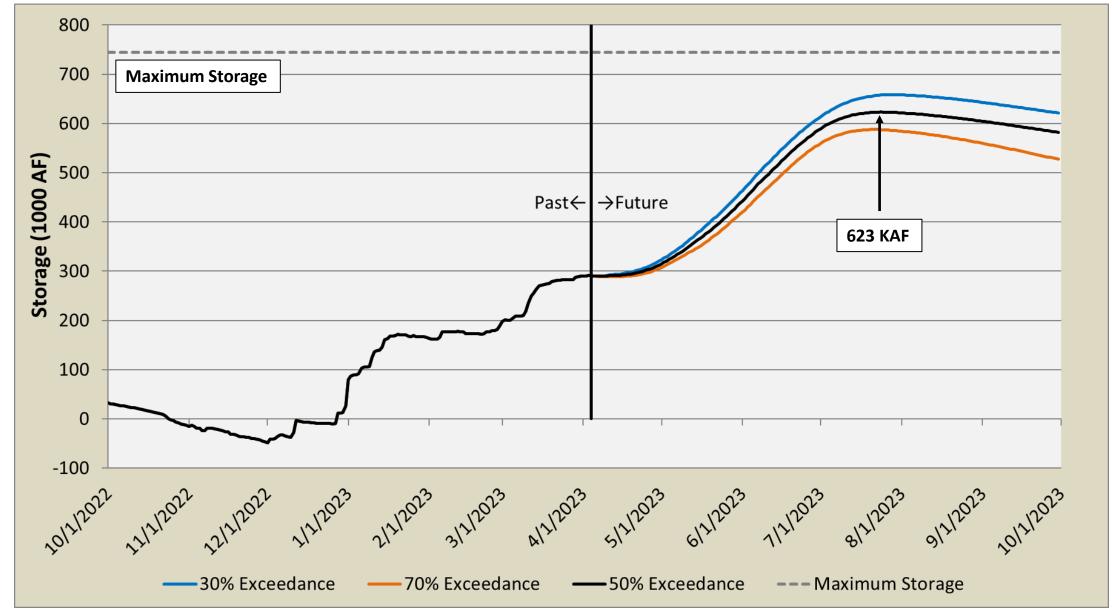


Current Reservoir Storage



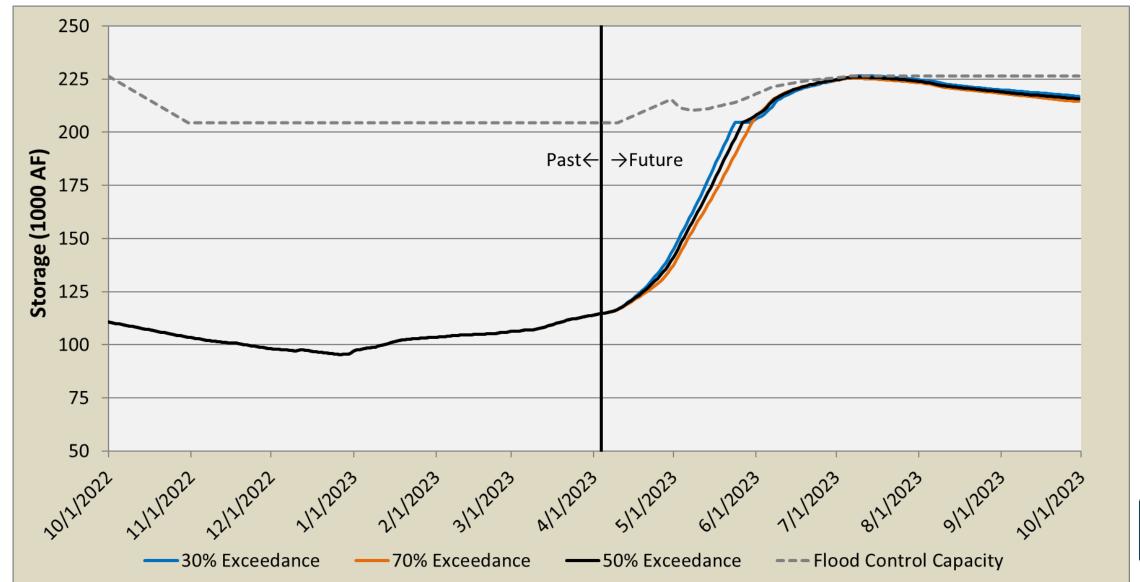


Lake Tahoe Storage Forecast





Stampede Reservoir Storage Forecast



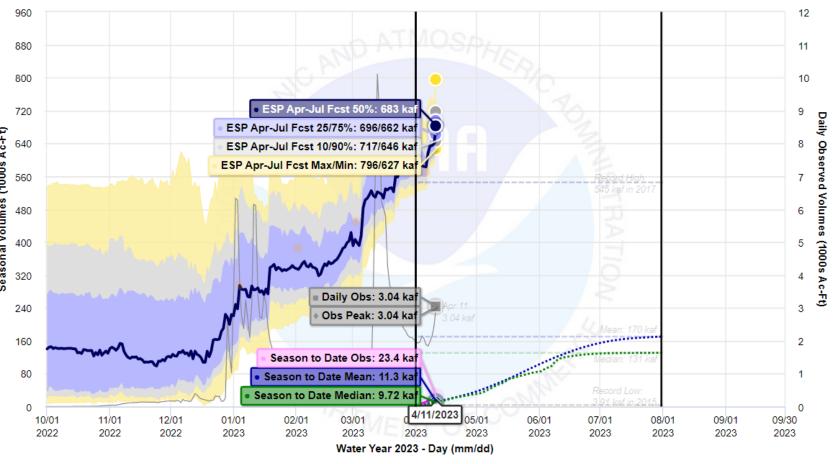


CARSON - FORT CHURCHILL, NR (FTCN2) 04/11/2023

Median Forecast: 683 kaf | 401% of Mean | 522% of Median

Created: 04/11/2023 at 09:20 AM PDT



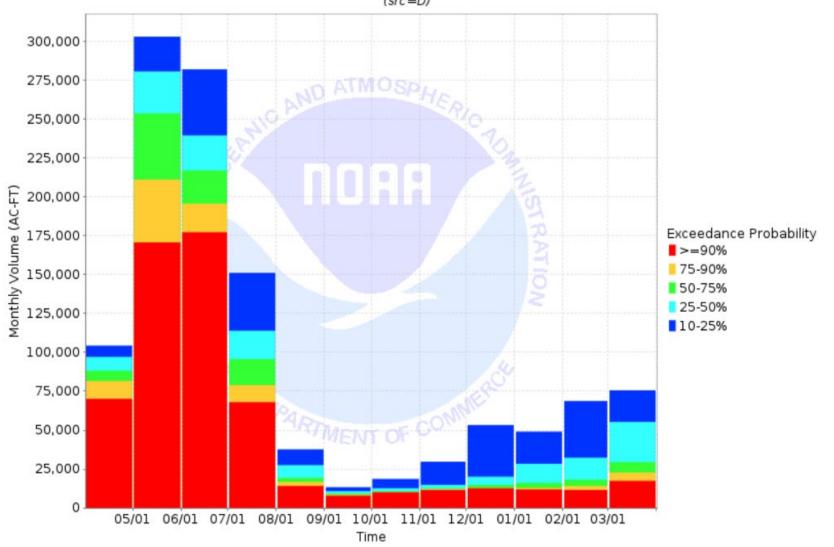


Observed Season to Date Percent of Mean: 207% (23.5 kaf) Season to Date Mean: 11.3 kaf Historical Apr-Jul Vol Max: 545 kaf in 2017 Historical Apr-Jul Vol Min: 3.91 kaf in 2015



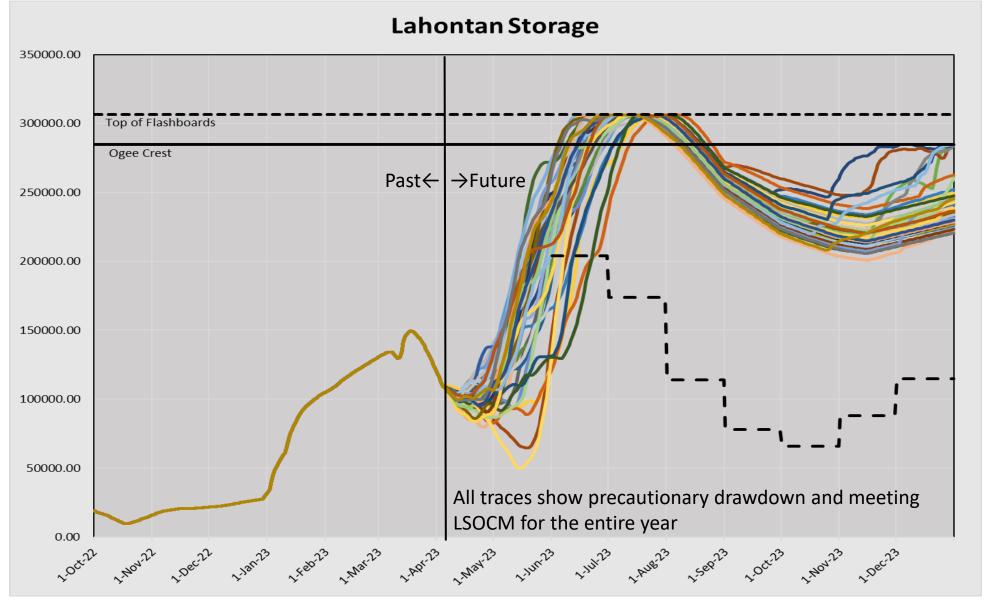
Monthly Volume Exceedance Values on the CARSON - FORT CHURCHILL, Latitude: 39.291668 Longitude: -119.31111 Forecast for the period 04/11/2023 - 04/01/2024 This is a conditional simulation based on the current conditions as of 04/11/2023 (src=D)

Forecasted Lahontan Inflows





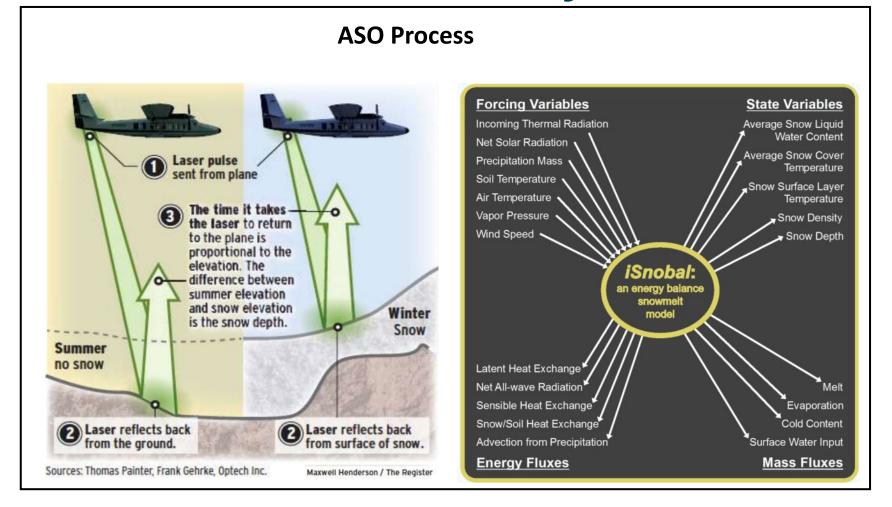
Lahontan Reservoir Storage Forecast (RFC Traces Scaled to NRCS)





Airborne Snow Observatory in the Carson

Basin



- Flights/Modeling will provide spatially distributed estimates of SWE
- Purchased in 2023 by CA DWR



Survey Date: March 31, 2023 Survey # of Water Year 2023: 1 Report Delivery Date: April 3, 2023 Full basin SWE: 1070 ± 37 TAF Estimated snowline: 5300 feet

Carson Airborne Snow Observatory Flight

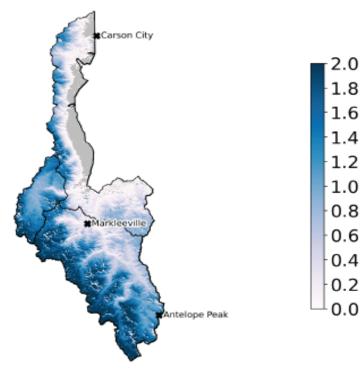


Figure 1. Spatial distribution of SWE depth (m).

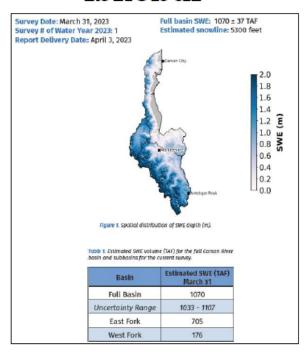
Table 1. Estimated SWE volume (TAF) for the full Carson River basin and subbasins for the current survey.

Basin	Estimated SWE (TAF) March 31	
Full Basin	1070	
Uncertainty Range	1033 - 1107	
East Fork	705	
West Fork	176	

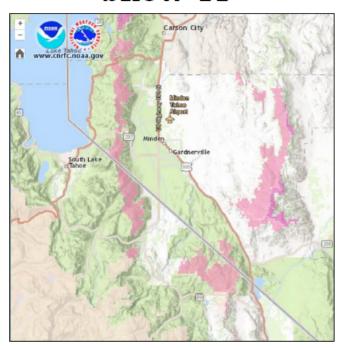
Current Conditions—Snow Models 4/1

Model	3/24	4/1	4/4
iSnobal Sierras Only	1,107 kaf	1,070 kaf	-
Snow-17 Sierras and Pine Nuts	948 kaf	966 kaf	963 kaf
Difference	160 kaf ; 15%	104 kaf; 10%	-

iSnobal

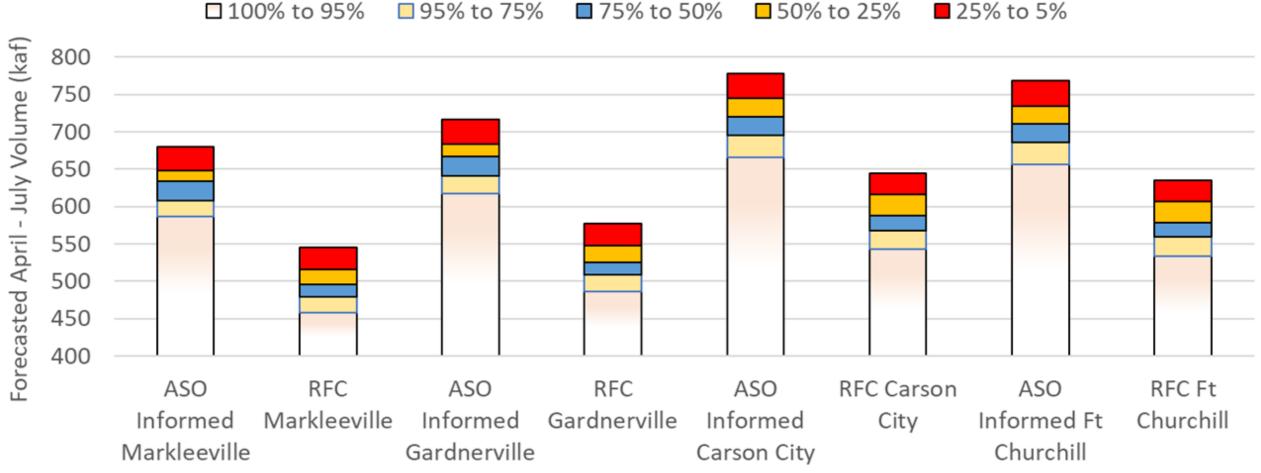


Snow-17





Comparison of RFC's Forecasted April July Volumes with and without ASO Data





Fort Churchill April-July Forecasts

	Carson AJ Vol (KAF)
30% (W)	590
50% (M)	570
70% (D)	550

NRCS April 1

	RFC 4/10 (KAF)	ASO Informed RFC (KAF)*
25% (W)	647	734
50% (M)	635	706
70% (D)	616	676

*not official, experimental



Flood Operations





- Established Emergency Operations Center with stakeholders
- Discharges out of V-Line Weir to Carson Lake and Pasture→Big Berm→Big Dig
- Flow Measurements in Carson River and V-Line
- Snowpack monitoring and runoff modeling





WY2023 Summary

- Record snowpack in Carson basin is expected to extend flood operations through July
- Truckee Canal Public Safety Improvement Project outage is expected to last through the end of the water year
- ASO data will improve estimates of Truckee-Carson Snowpack







