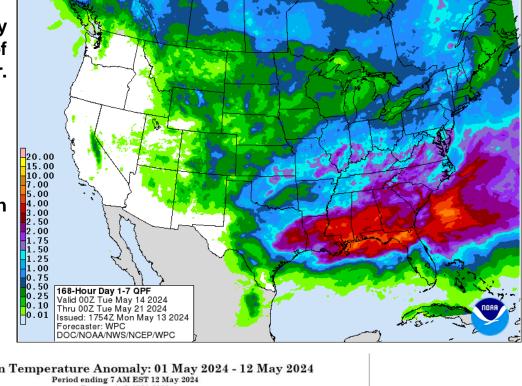
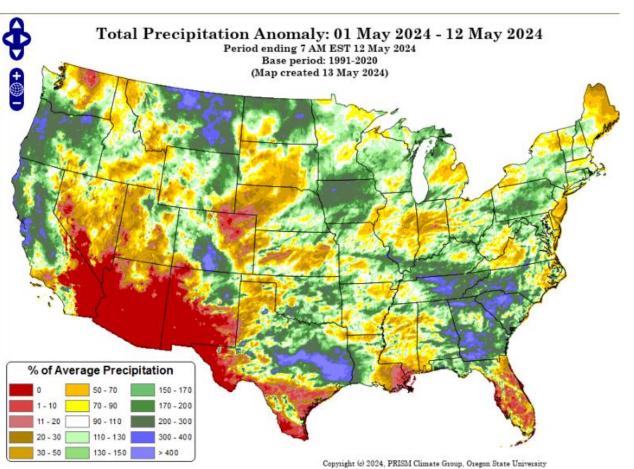
May 13, 2024
Bruneau, Owyhee & Salmon Falls
Snow2Flow Update

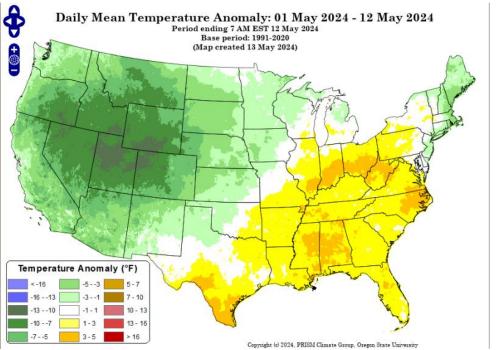
May 14-21 Precip call for mostly dry while some forecasts call for more of the same unsettled weather.

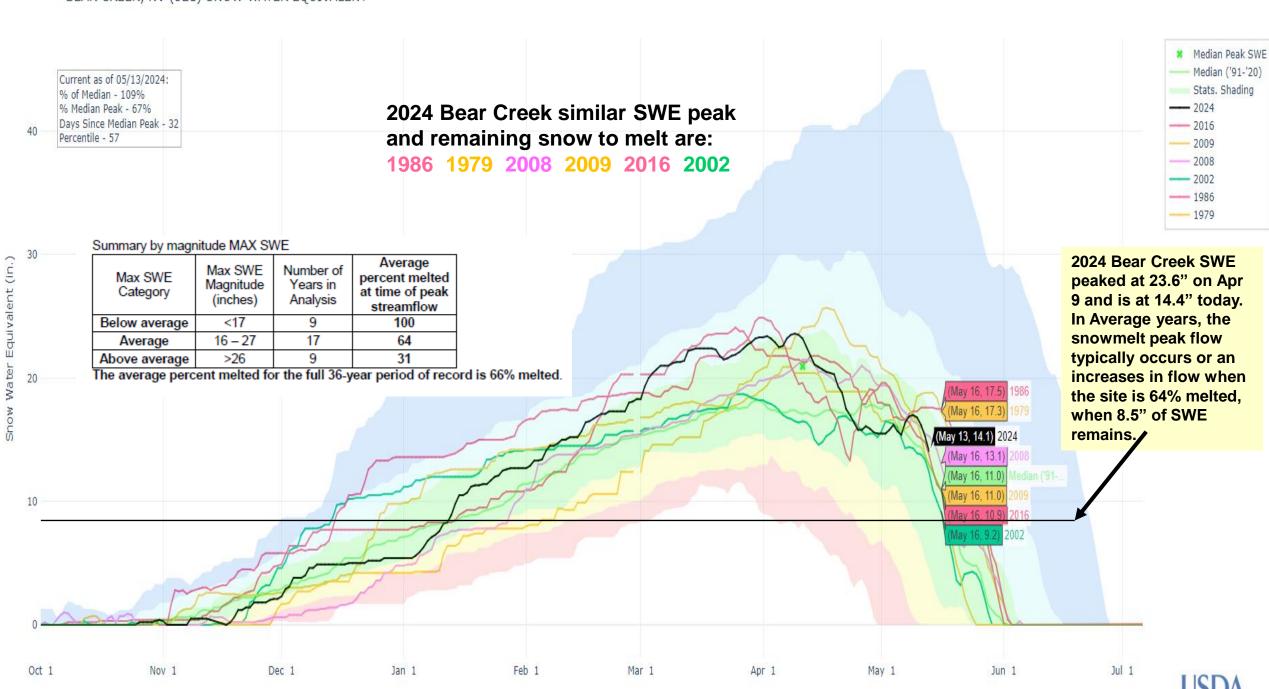
May 1-12 Total Precip has been variable ranging from 50% of normal in north and south to 110% in central Idaho.

Daily Mean Air Temps May 1-12 have been about 10F below normal which slowed melt, decreased rivers and push remaining melt out to 2nd half of May.

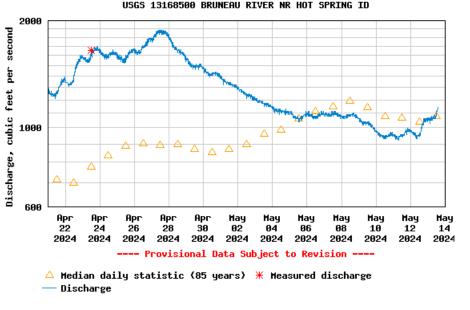


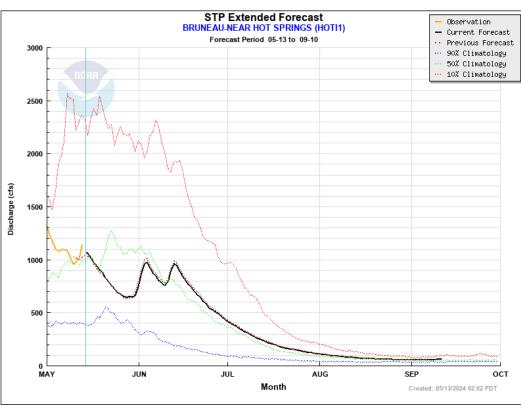






So far, mean daily peak was April 27 at almost 1900 cfs. Flows are increasing on May 13 & 14.



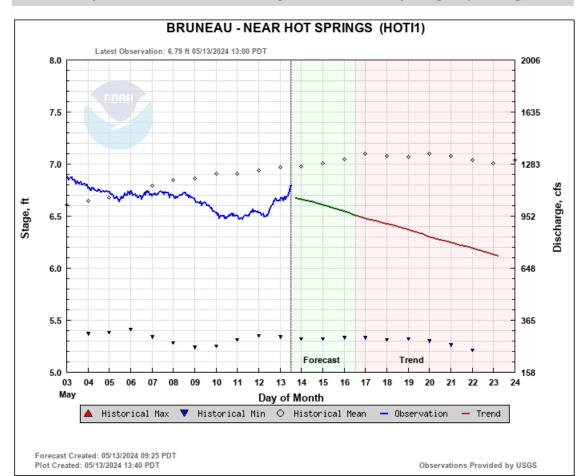


NWS Forecast & Trend below shows steady decrease in flows for next few days. That line looks too straight. The STP Extended Forecasts shows the full picture and peaks pushed out to June.

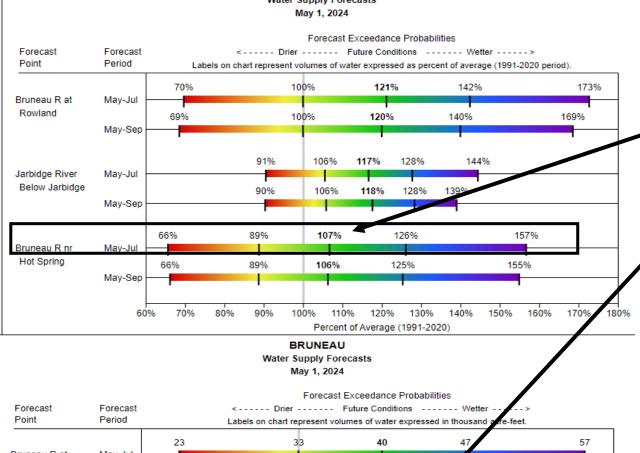
Keep watching to see what happens in next few days as Bear Creek Snow2flow analysis shows another increase is likely from remaining snow to melt. With warm temps and less remaining snow, June peaks seem less likely unless a change in weather happens soon.

Lessons learned in the Owhyee – flow stayed high for an extended period this year.

The 4-10 Day Trend Forecast is based on model guidance and uncertainty during this period is greater.



BRUNEAU Water Supply Forecasts



Bruneau R at May-Jul Rowland 42 59 24 May-Sep 16 19 21 Jarbidge River May-Jul Below Jarbidge 26 17 20 May-Sep 88 119 143 169 210 Bruneau R nr May-Jul Hot Spring 126 151 178 220 May-Sep 120% 150% 160% 170% 130% Percent of Average (1991-2020)

Legend

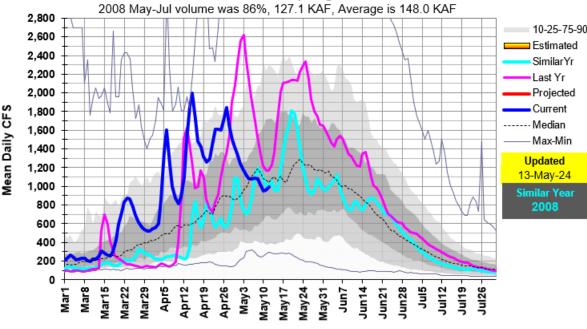
NRCS May 1 May-Jul Volume streamflow forecasts is:

107% of avg

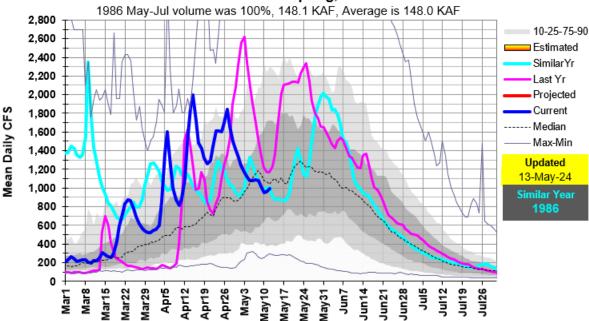
143 KAF with range of 88 to 210 KAF

NWS does not publish a May - Jul volume forecast and neither agency has a current daily water supply volume forecast to see how the forecast may have change since 1st of month.

13168500: Bruneau R near Hot Spring, ID



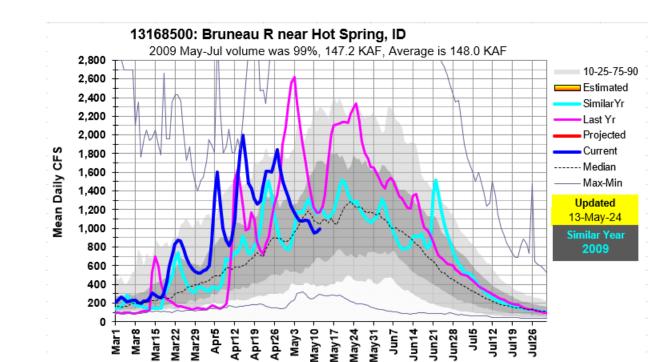
13168500: Bruneau R near Hot Spring, ID

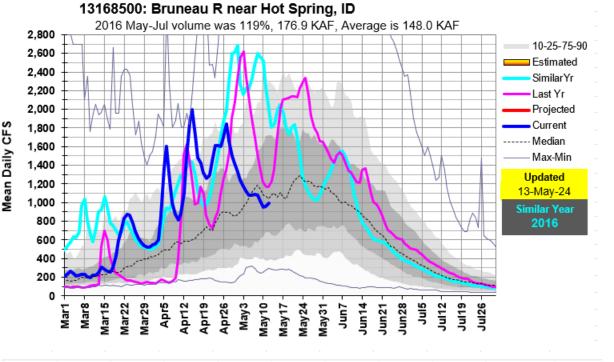


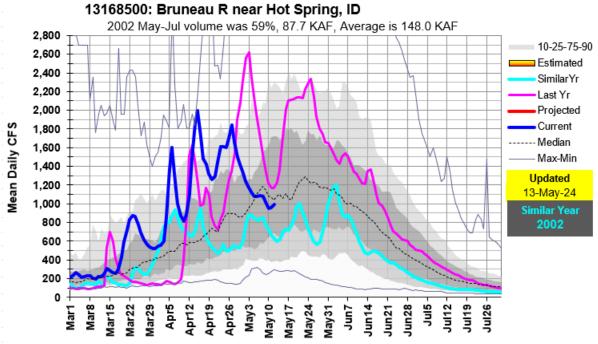
NRCS May 1 May-Jul Volume forecasts of 143 KAF with range of 88 to 210 KAF

2008 May-Jul Volume was 127 KAF 1986 May-Jul Volume was 148 KAF 2009 May-Jul Volume was 147 KAF

These volumes for similar snow years seem reasonable and even the shape of the remaining hydrograph looks reasonable. May future weather will still determine the how the remaining snow melts, additional peaks and when full recession flows start.



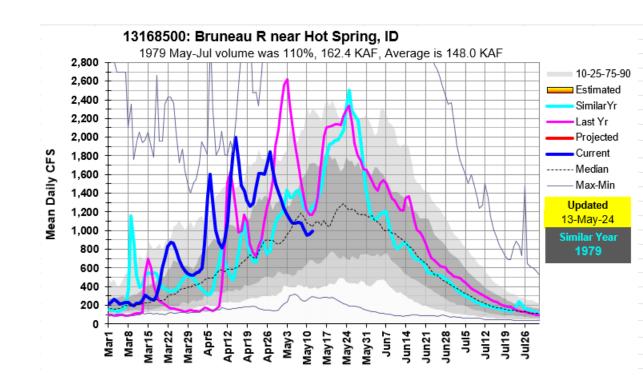


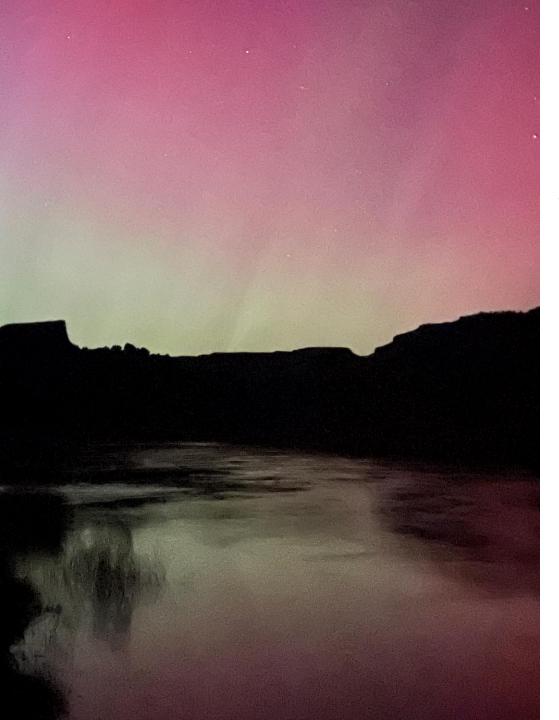


NRCS May 1 May-Jul Volume forecasts of 143 KAF with range of 88 to 210 KAF

Here's the runoff for a few more similar snow years: 2016 May-Jul Volume was 176 KAF 2002 May-Jul Volume was 87 KAF 1979 May-Jul Volume was 162 KAF

- 2016 too wet with a volume of 176 KAF.
- 2002 too dry with a volume of 87 KAF
- 1979 a possibility with addition rain to push peak and volume higher.





On to the Owyhee!

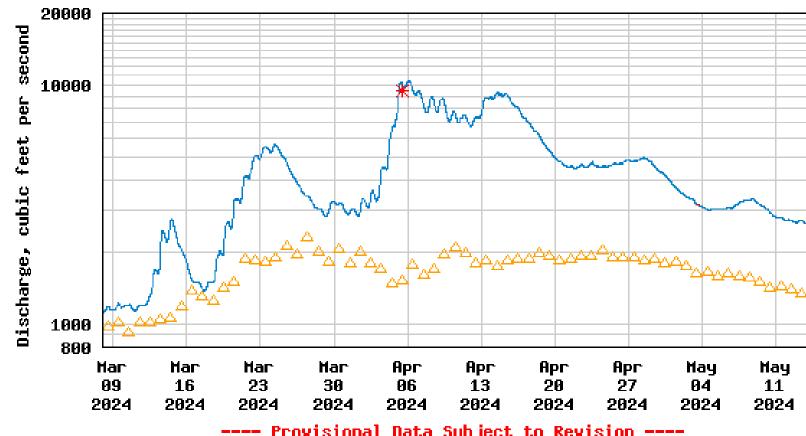
The Northen Lights around midnight on May 10 at Mile 19 on the Lower Owyhee.

Who would have thought you could see the Lights from deep within this canyon.

Powerful Mother Nature at Work!



USGS 13181000 ONYHEE RIVER NR ROME OR

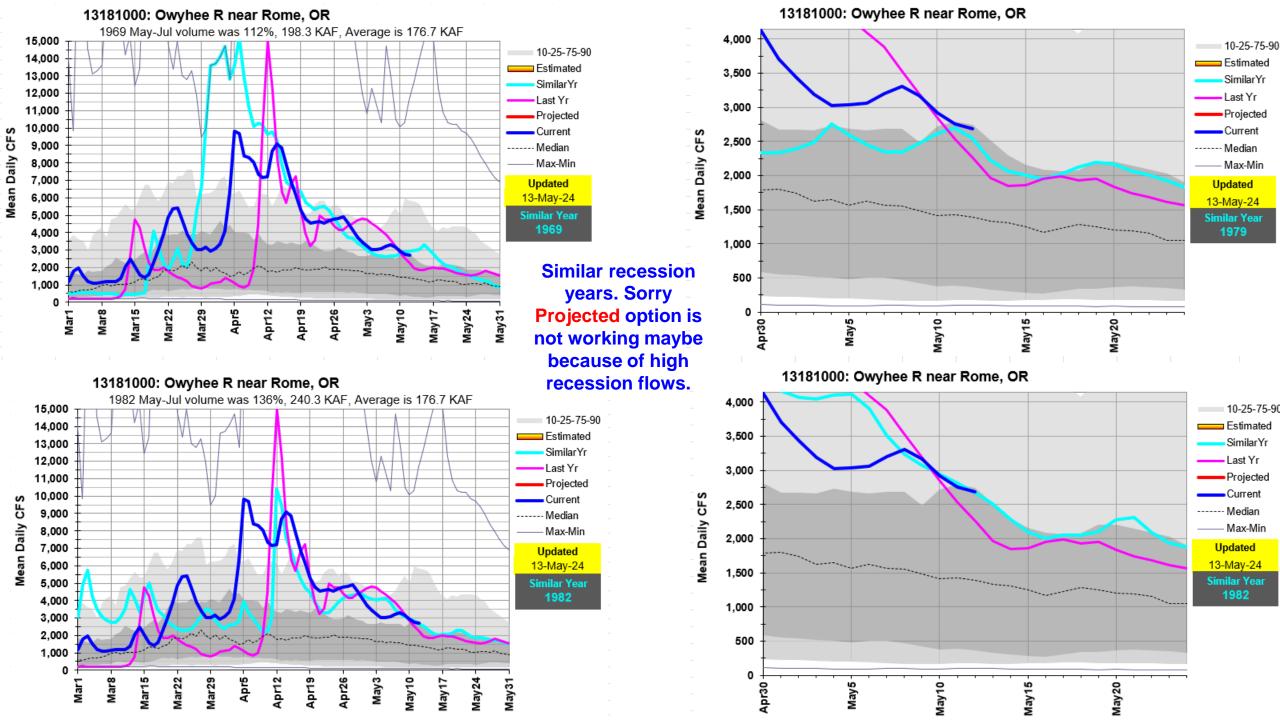


---- Provisional Data Subject to Revision ----

Median daily statistic (74 years) — Estimated discharge Discharge **☀** Measured discharge

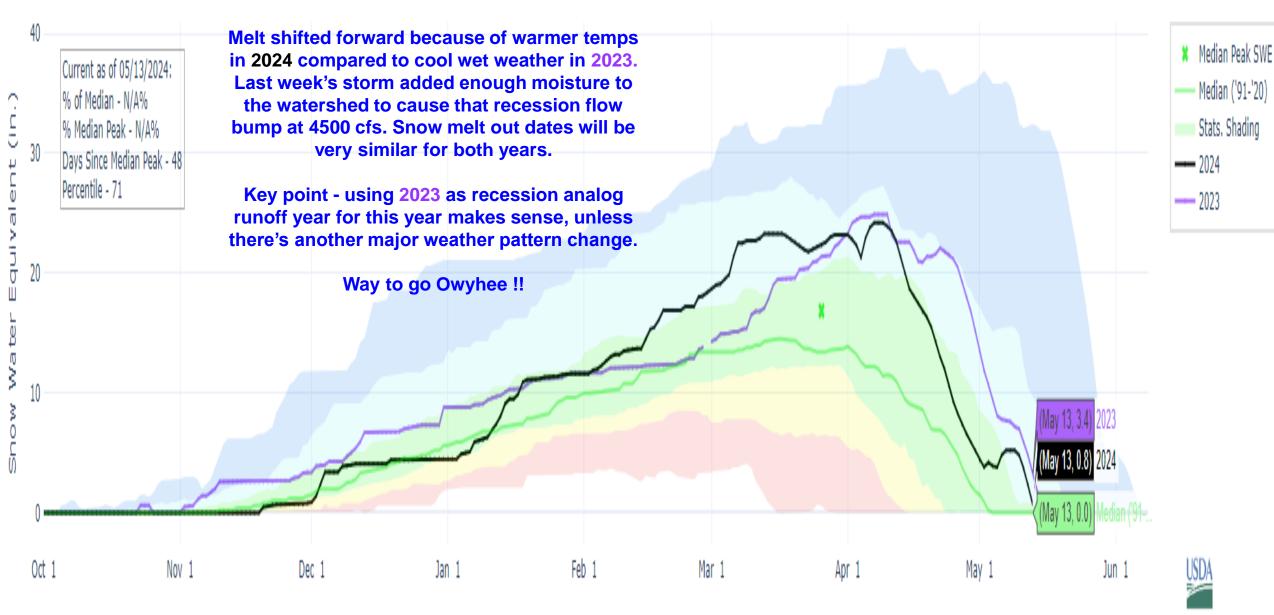
What an amazing year on the Owyhee with an amazing recession flow plateau and amazing Lights!

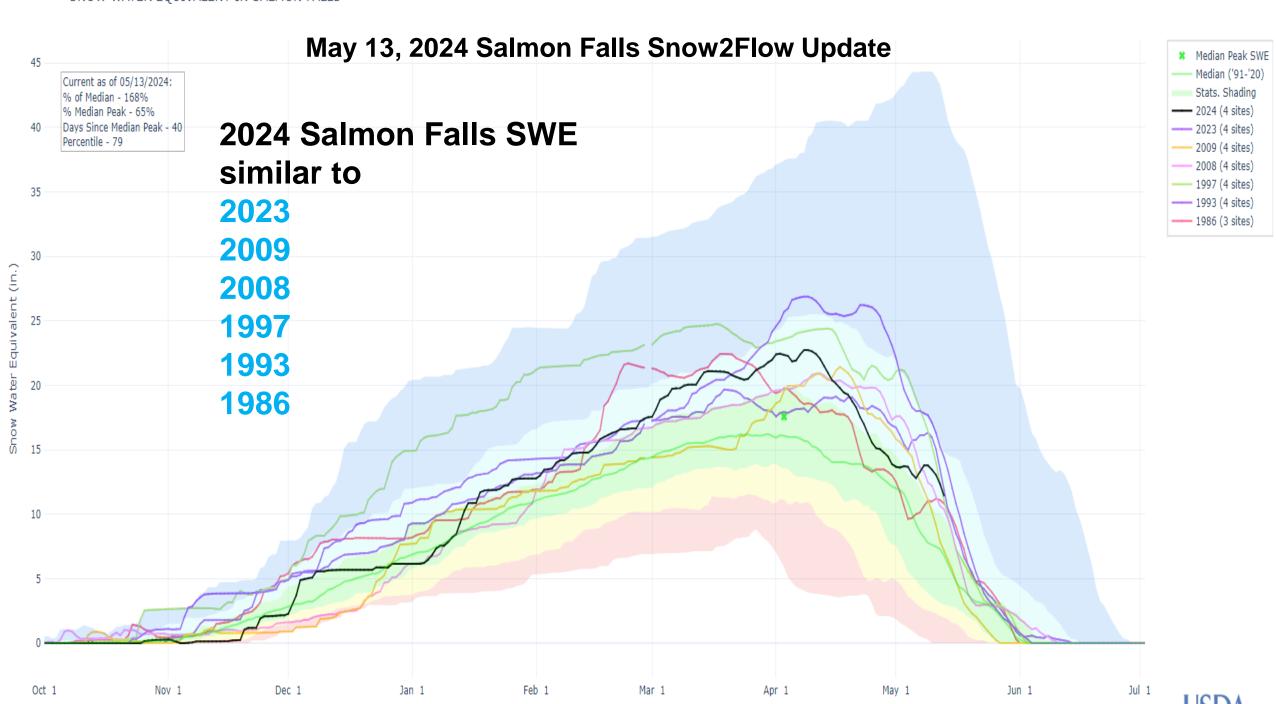




SOUTH MTN., ID (774) SNOW WATER EQUIVALENT

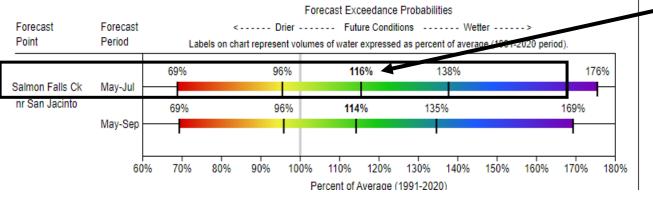
Interesting, SWE peaks are about the same for 2024 and 2023.

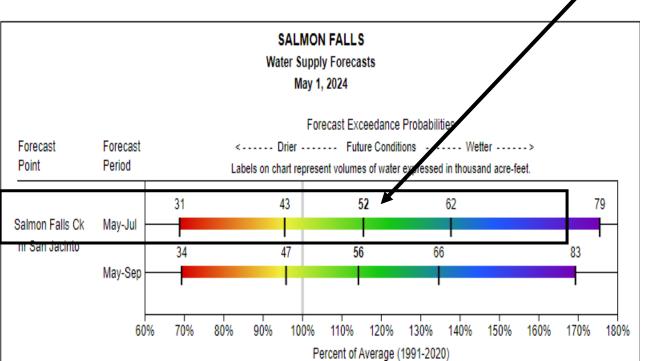




SALMON FALLS

Water Supply Forecasts May 1, 2024



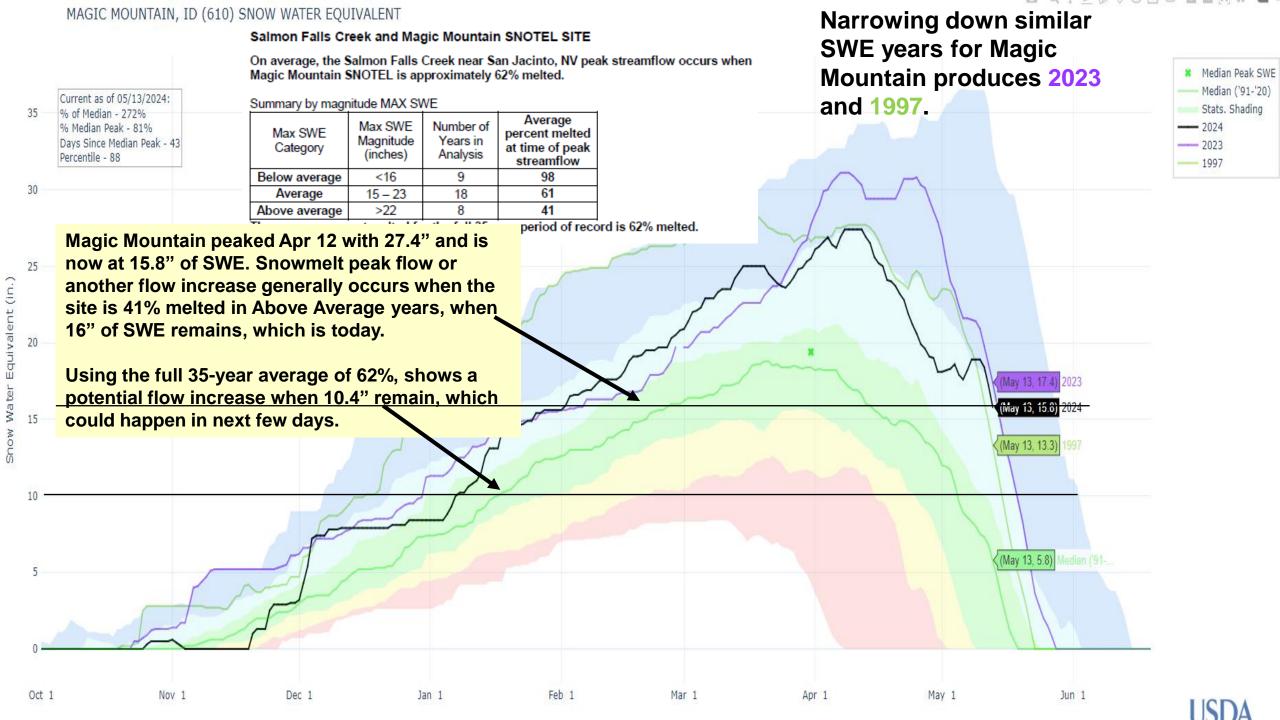


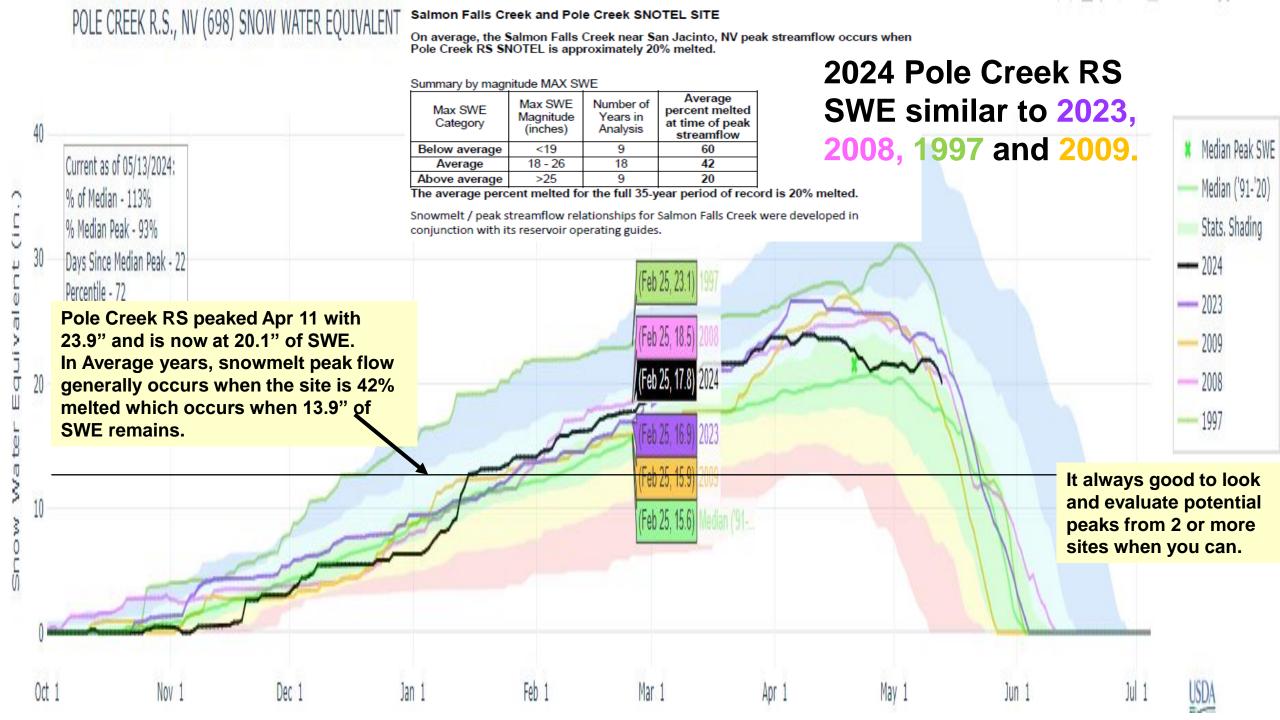
NRCS May 1 May-Jul Volume streamflow forecasts is:

116% of avg

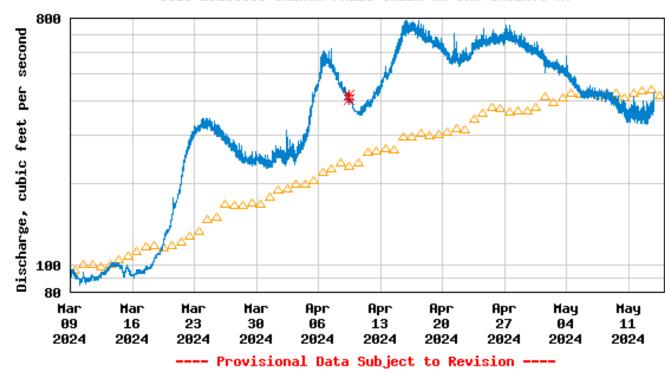
52 KAF with range of 88 to 210 KAF

NWS does not publish a May - Jul volume forecast and neither agency has a current daily water supply volume forecast to see how the forecast may have change since 1st of month.





USGS 13105000 SALMON FALLS CREEK NR SAN JACINTO NV

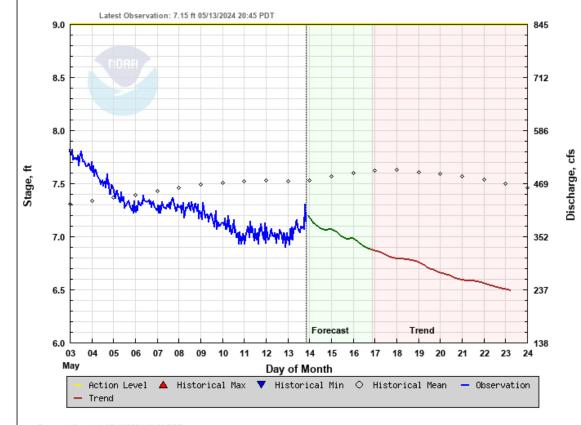


△ Median daily statistic (109 years) * Measured discharge
— Discharge

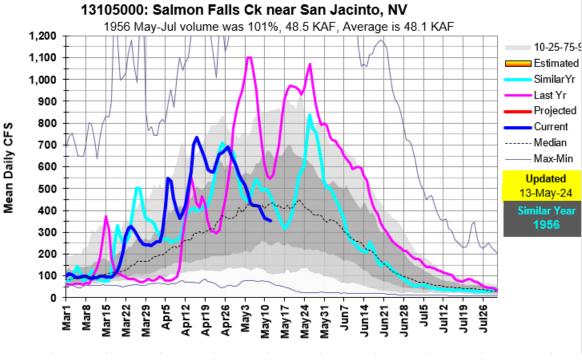
Current flow data shows a mean daily peak of around 700 cfs on Apr 17 and 27. Time will tell if next peak exceeds these but observations from the Owyhee shows these southern Idaho rivers staying higher longer this season.

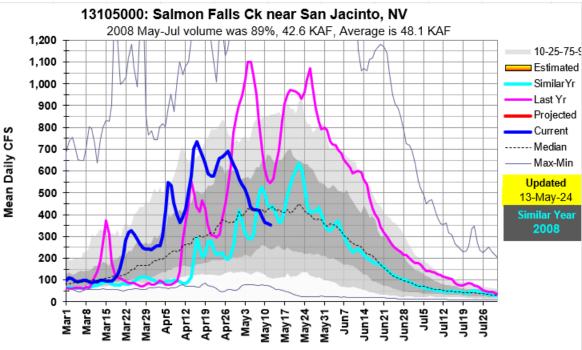
NWS short term forecast and trend shows gradual decrease.

SALMON FALLS CREEK - NR SAN JACINTO (SFLN2)



Forecast Created: 05/13/2024 16:24 PDT Plot Created: 05/13/2024 21:44 PDT





Snow2Flow Relationship shows another peak or increase from remaining snow to melt is still to come. Future weather will determine if next peak exceeds previous peaks.

May-Jul NRCS Volume Forecast is 52 Kaf May-Jul volume runoff for 1956 was 48 KAF and for 2008 was 42 KAF.

Future weather will determine if next peak, and when recession flows start and if they stay higher longer like the Owhyee River.