

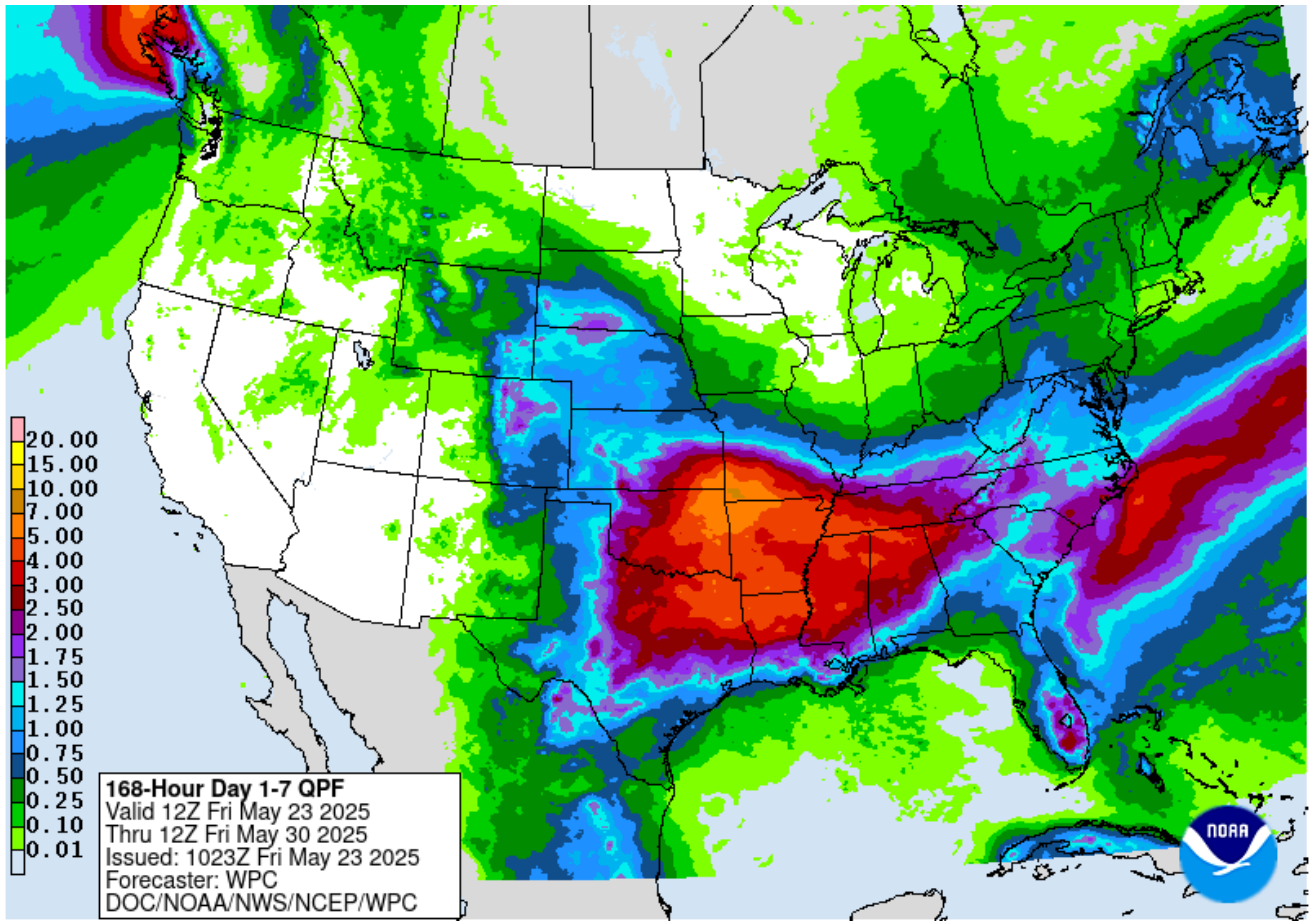
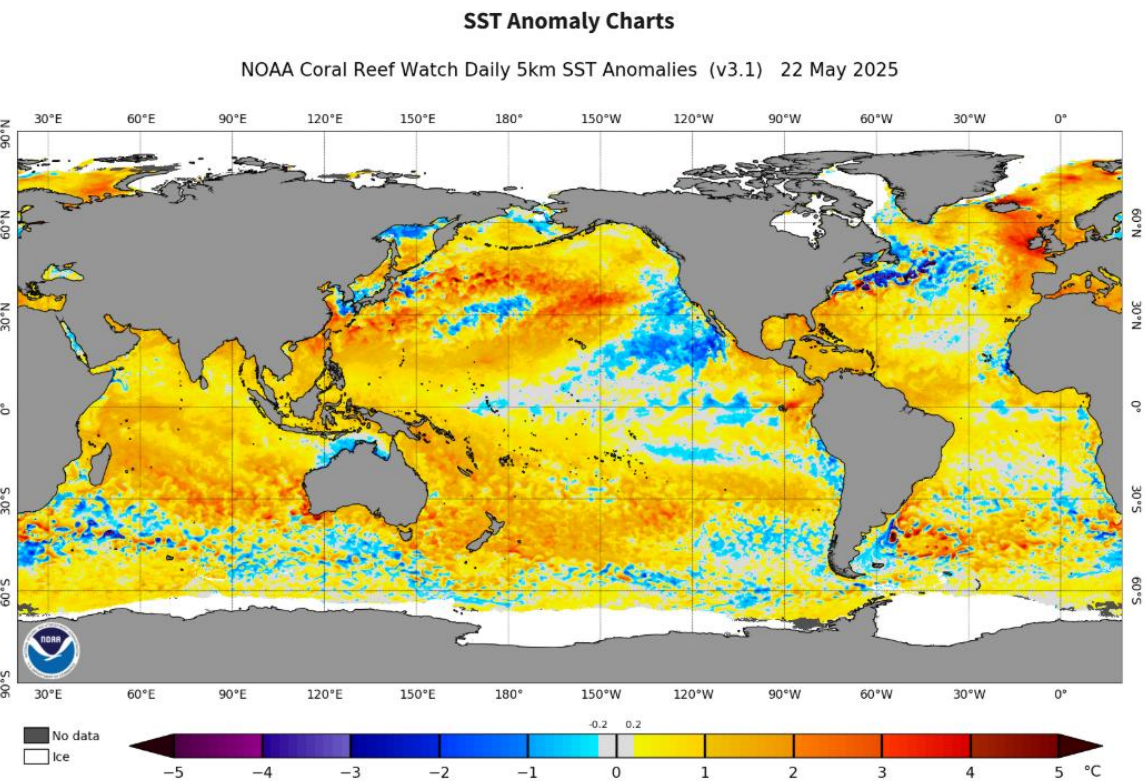
Quick Snow2Flow Update for May 22/23, 2005

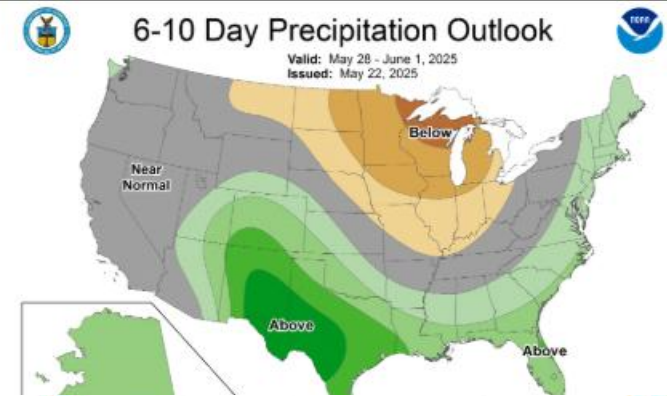
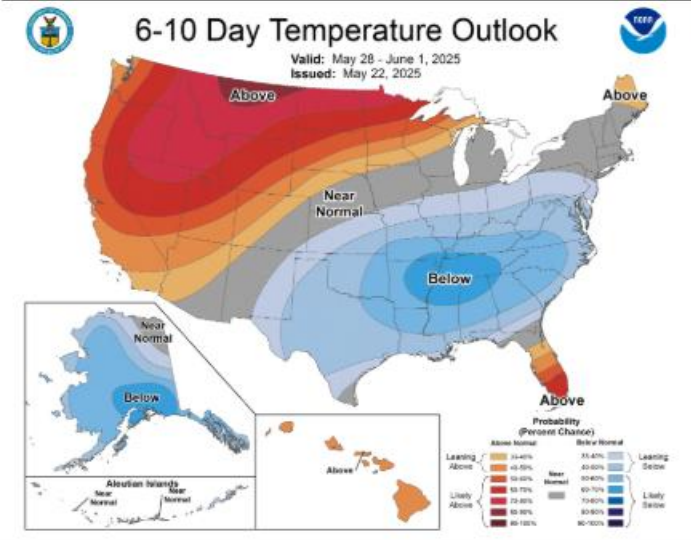
Mostly alphabetical flow graph summary - includes most Idaho rivers across the state and similar runoff years. Short on time to do full analysis but wanted to share.

Keep an eye on the sky for changing flows.

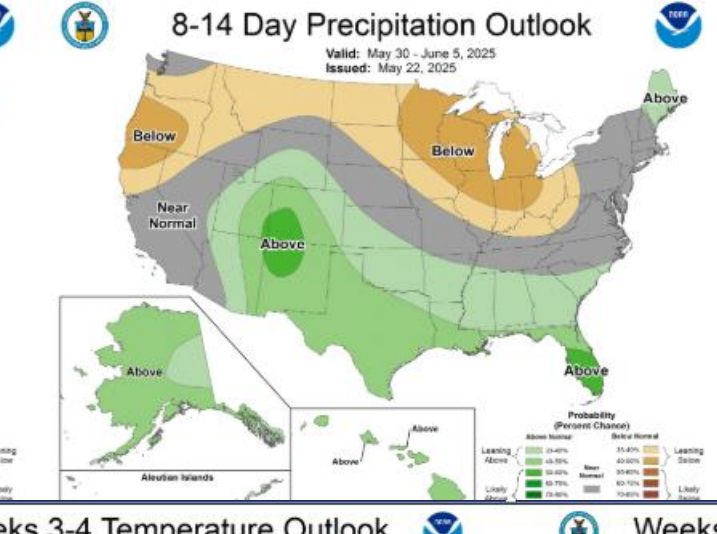
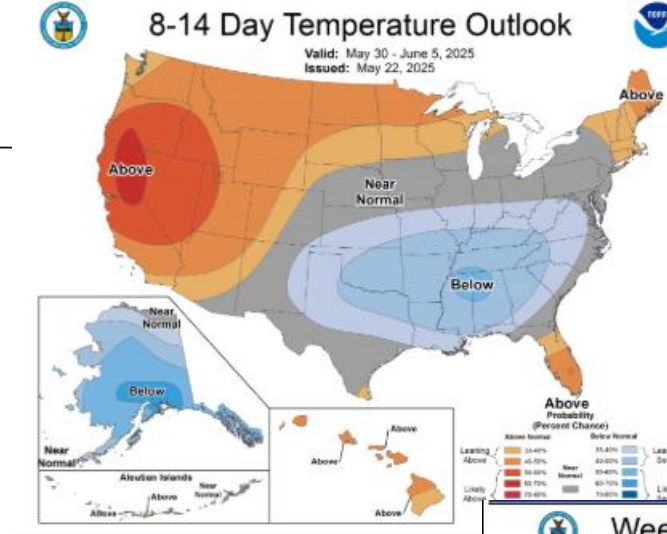
7-day Precip Total May 23-30 – what you see is what you get while the storms continue to hit the Mid-West and east.

Need to investigate location of cool water off southern CA coast and influence on our western weather.
Maybe in another post. Need more hours in a day...

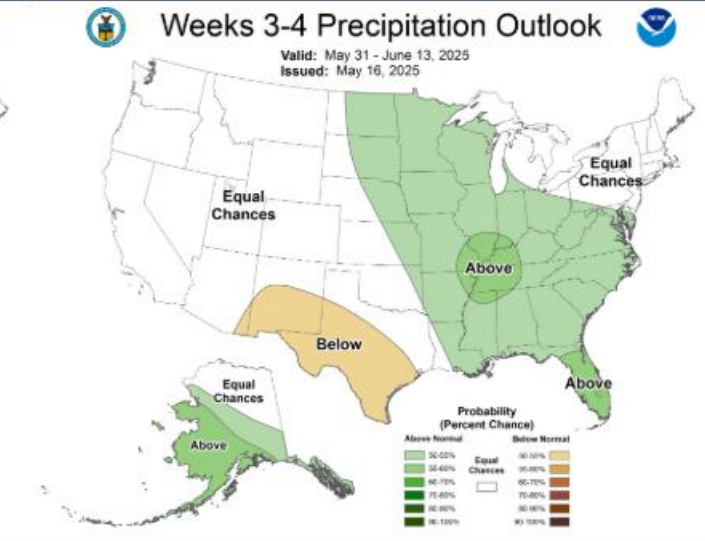
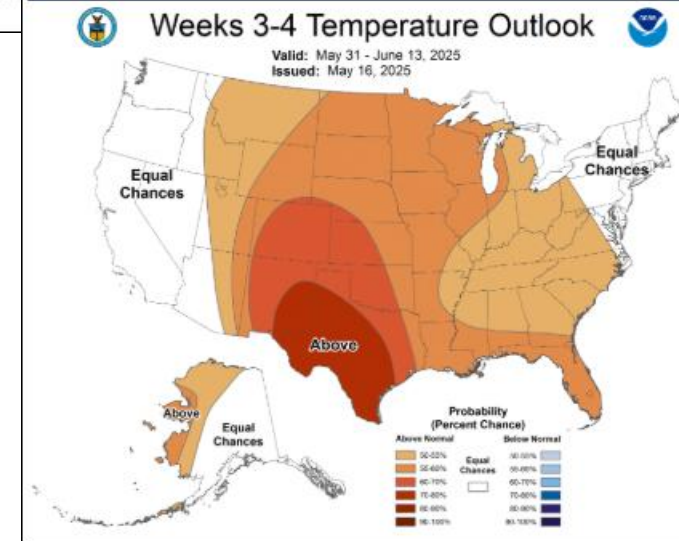




Looks like the summer pattern has arrived. The cool May was nice... Enjoy and be safe.



Always interesting to see when our dry / warm summer weather pattern arrives. Severe Weather Europe did a good job in predicting a cool May for PNW and the heat arrives when June arrives.



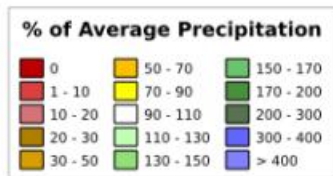
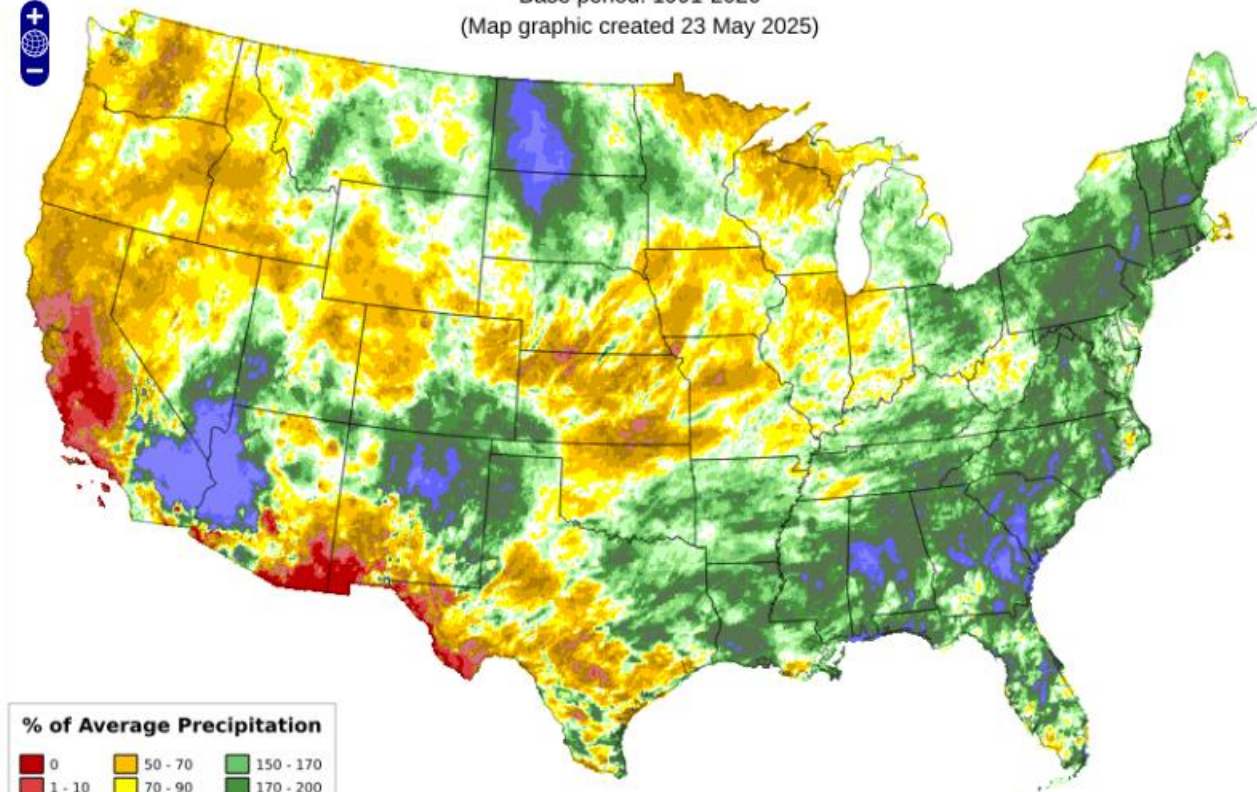


Total Precipitation Anomaly: 01 May 2025 - 22 May 2025

Period ending 7 AM EST 22 May 2025

Base period: 1991-2020

(Map graphic created 23 May 2025)



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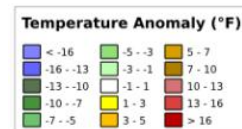
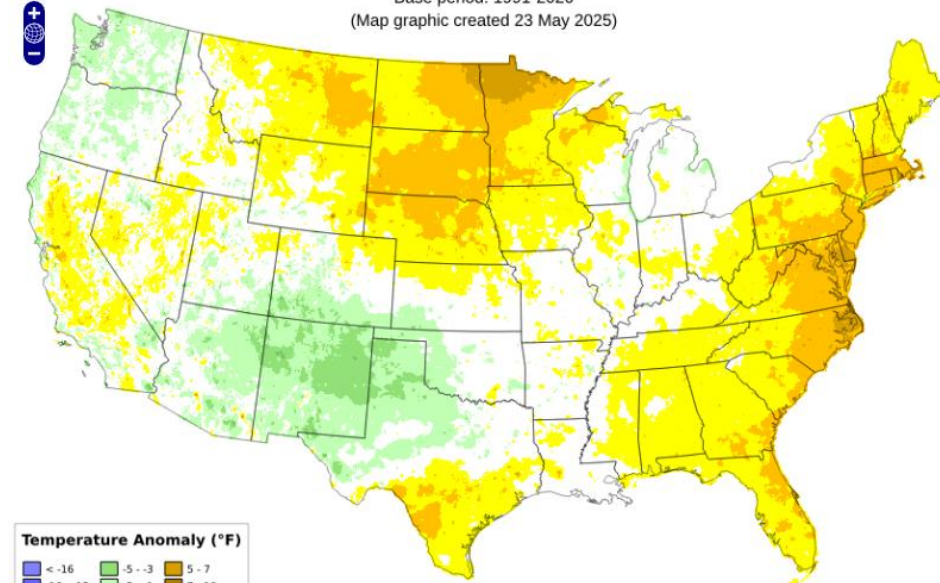


Daily Mean Temperature Anomaly: 01 May 2025 - 22 May 2025

Period ending 7 AM EST 22 May 2025

Base period: 1991-2020

(Map graphic created 23 May 2025)



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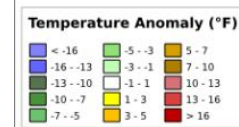
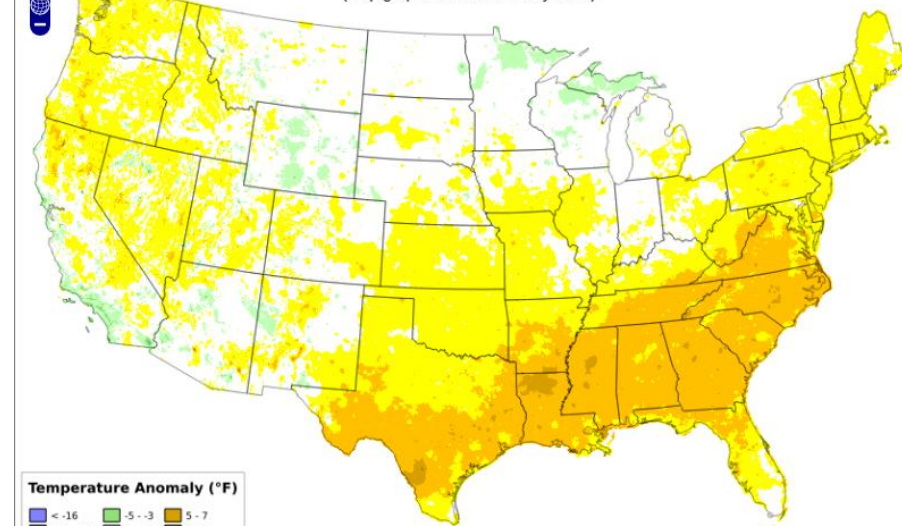


Daily Mean Temperature Anomaly: Apr 2025

Period ending 7 AM EST 30 Apr 2025

Base period: 1991-2020

(Map graphic created 17 May 2025)



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May Precip is still well below normal for the month.

May temps were closer to near normal than the above normal temps experienced in April. These cooler temps helped to delay melt and push the remaining snow to melt out a bit which will really help to extend flows into the early summer.

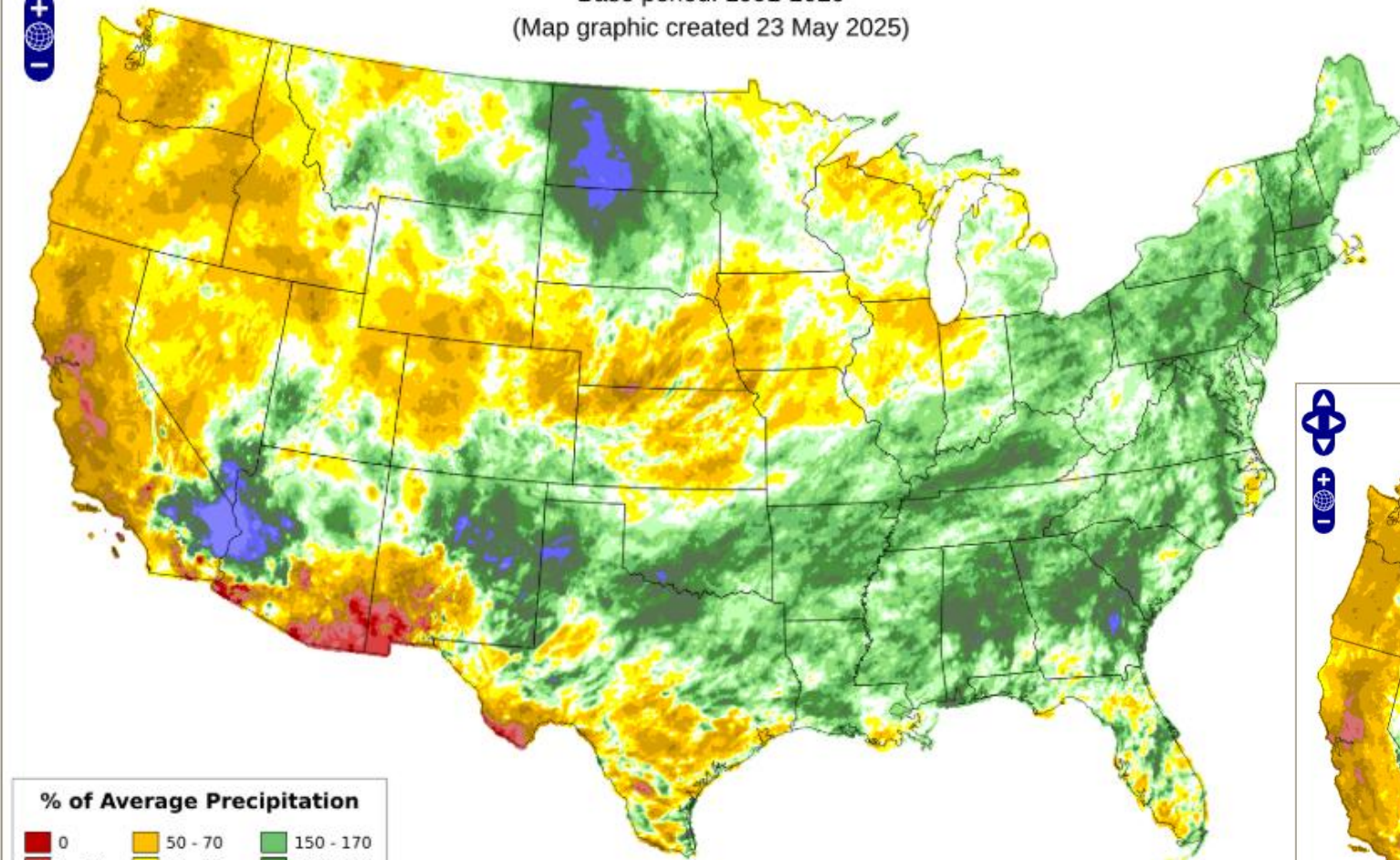


Total Precipitation Anomaly: Apr 2025 - 22 May 2025

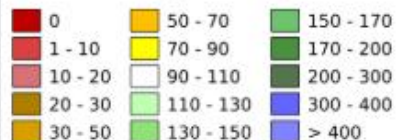
Period ending 7 AM EST 22 May 2025

Base period: 1991-2020

(Map graphic created 23 May 2025)



% of Average Precipitation



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Precip:

- This shows why it's a spring precipitation drought, not a snow drought.
- Apr 1-May 22 improved slightly from the previous period thru May 12

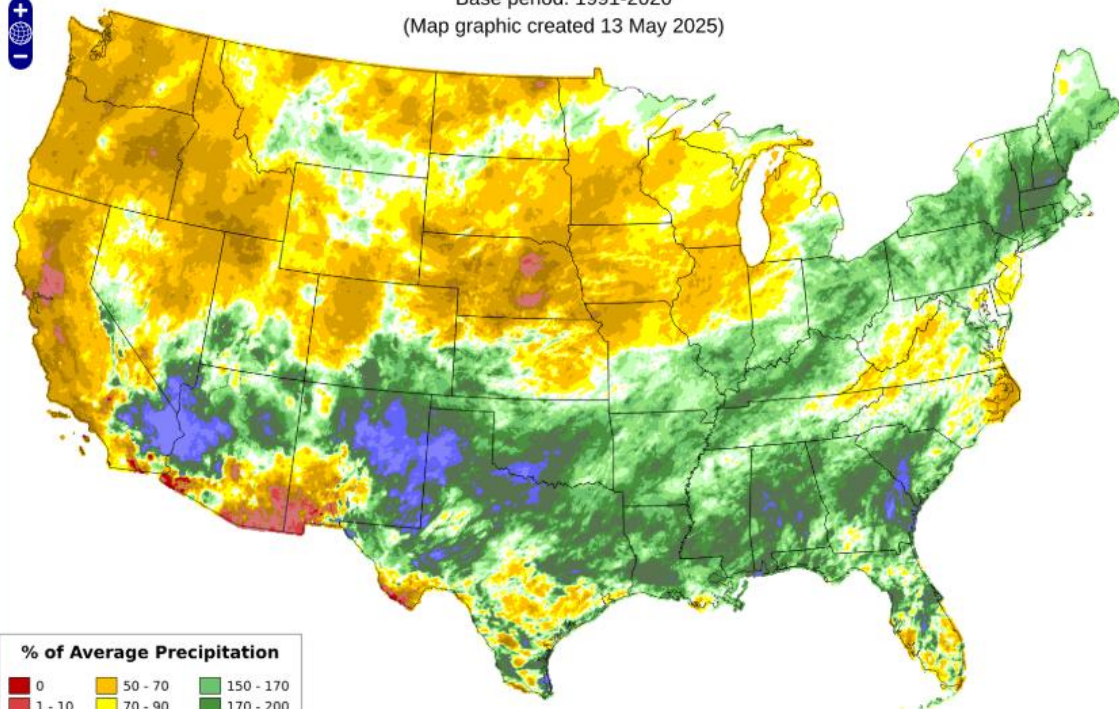


Total Precipitation Anomaly: Apr 2025 - 12 May 2025

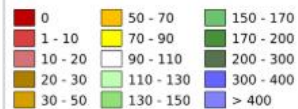
Period ending 7 AM EST 12 May 2025

Base period: 1991-2020

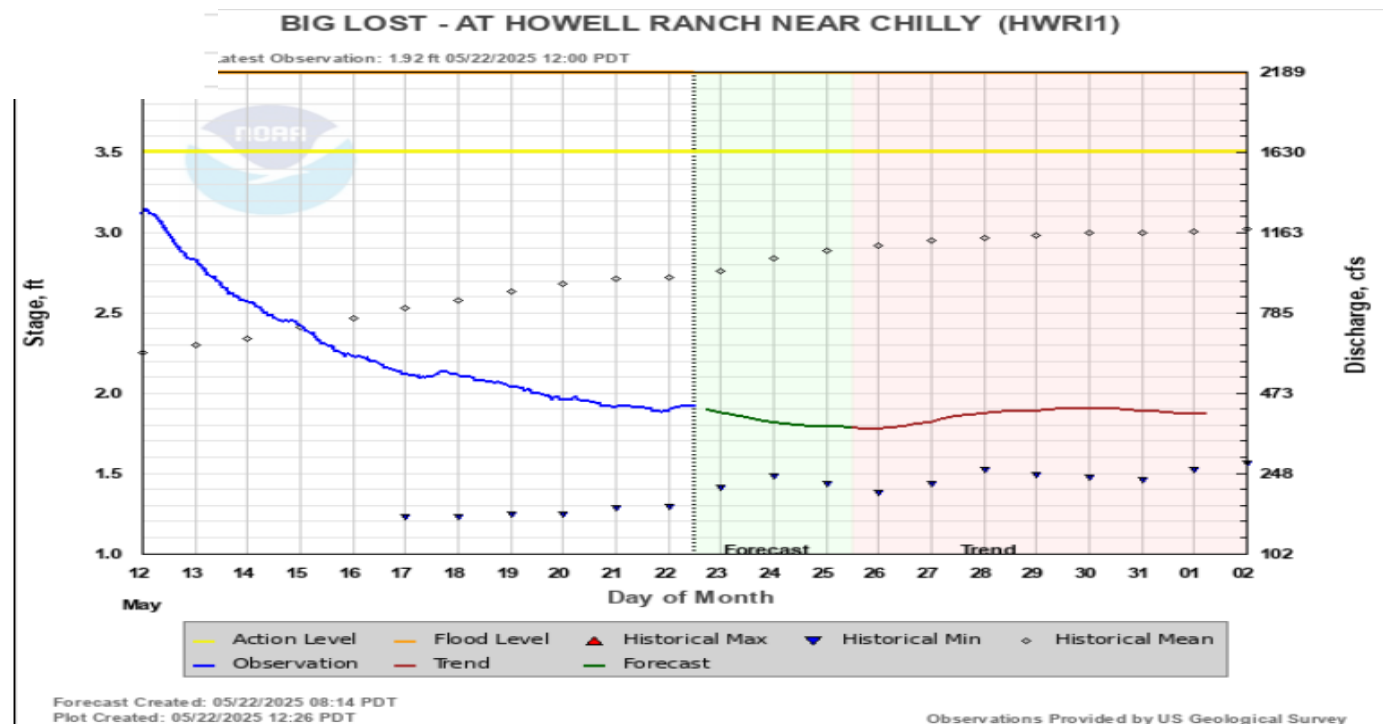
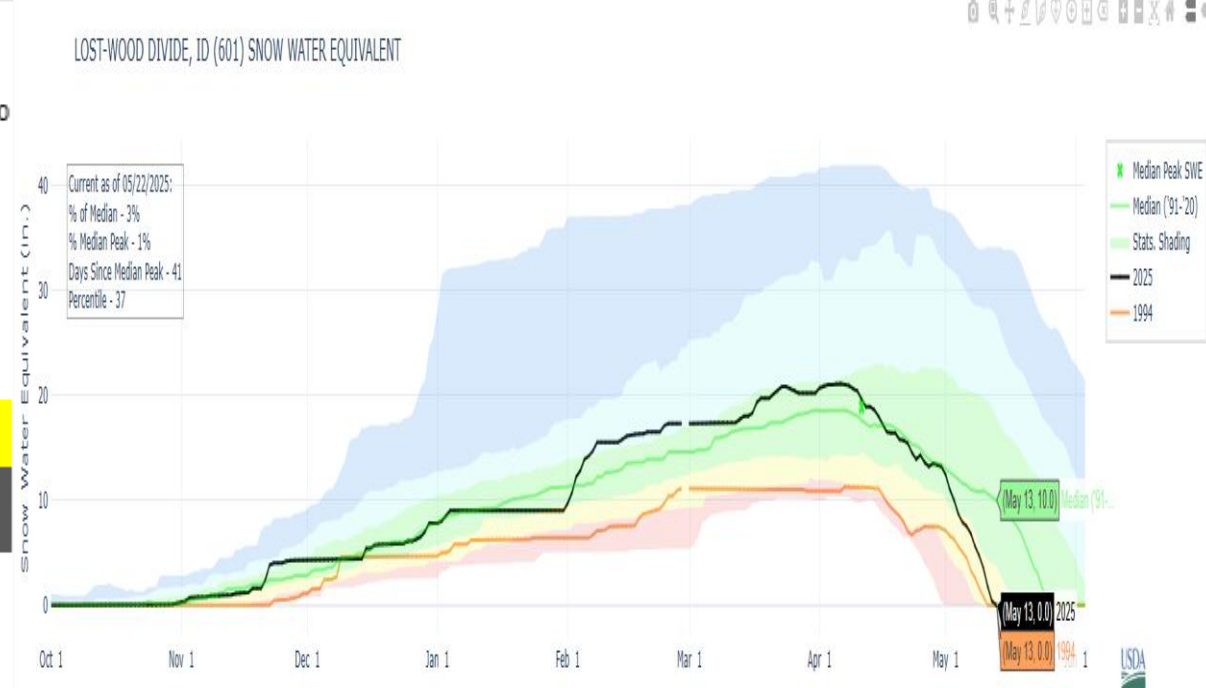
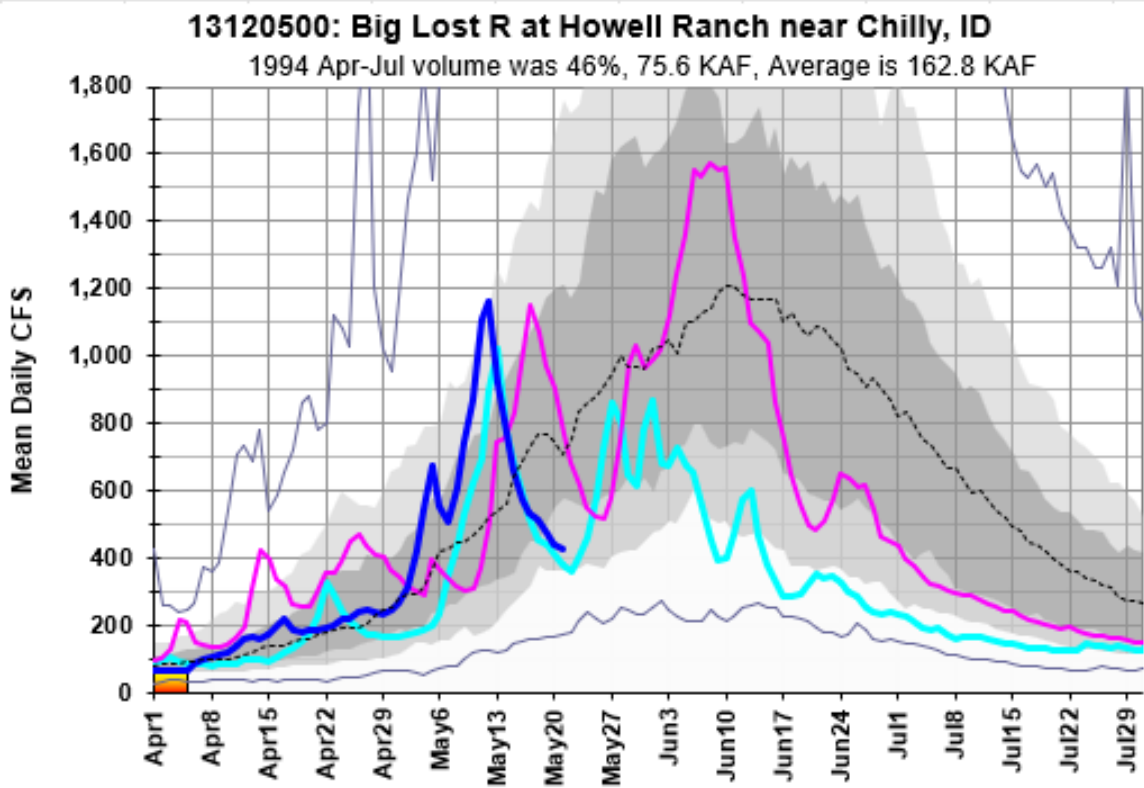
(Map graphic created 13 May 2025)



% of Average Precipitation



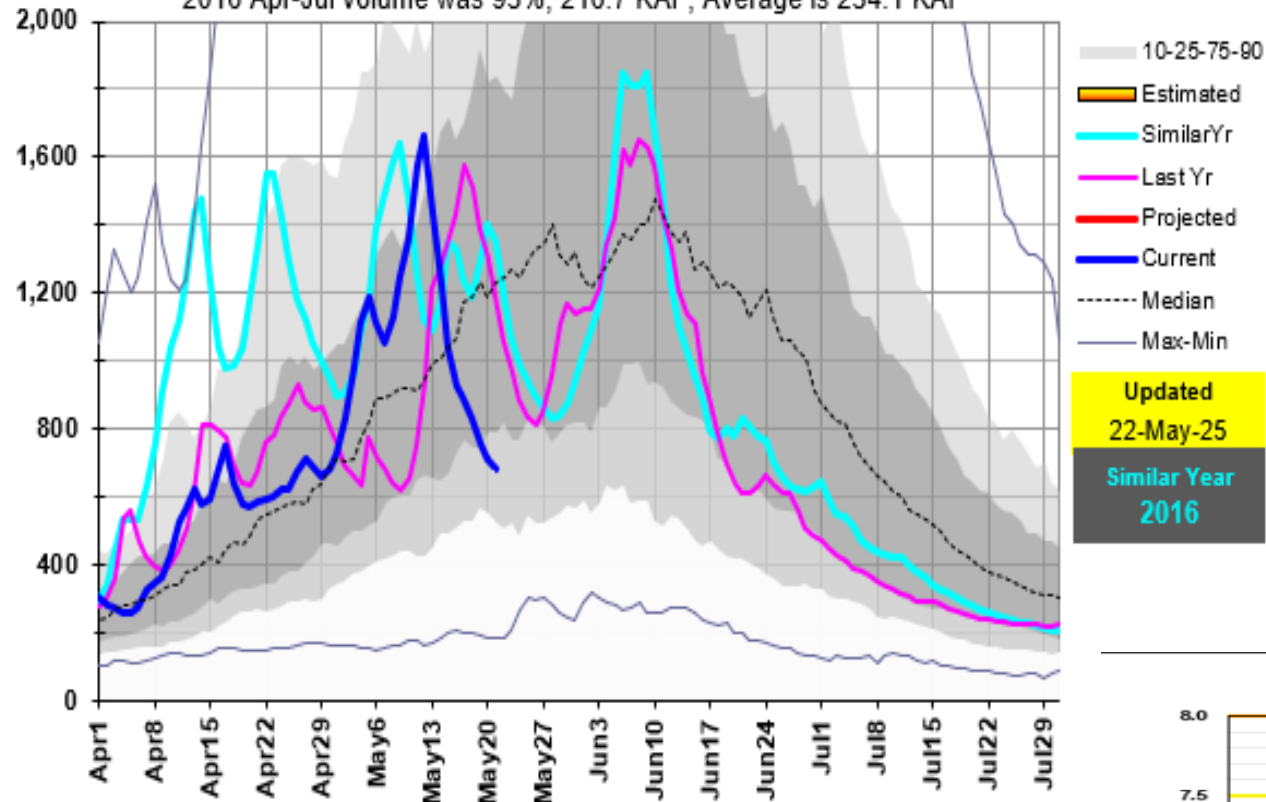
Copyright © 2025 PRISM/NACSE, Oregon State University



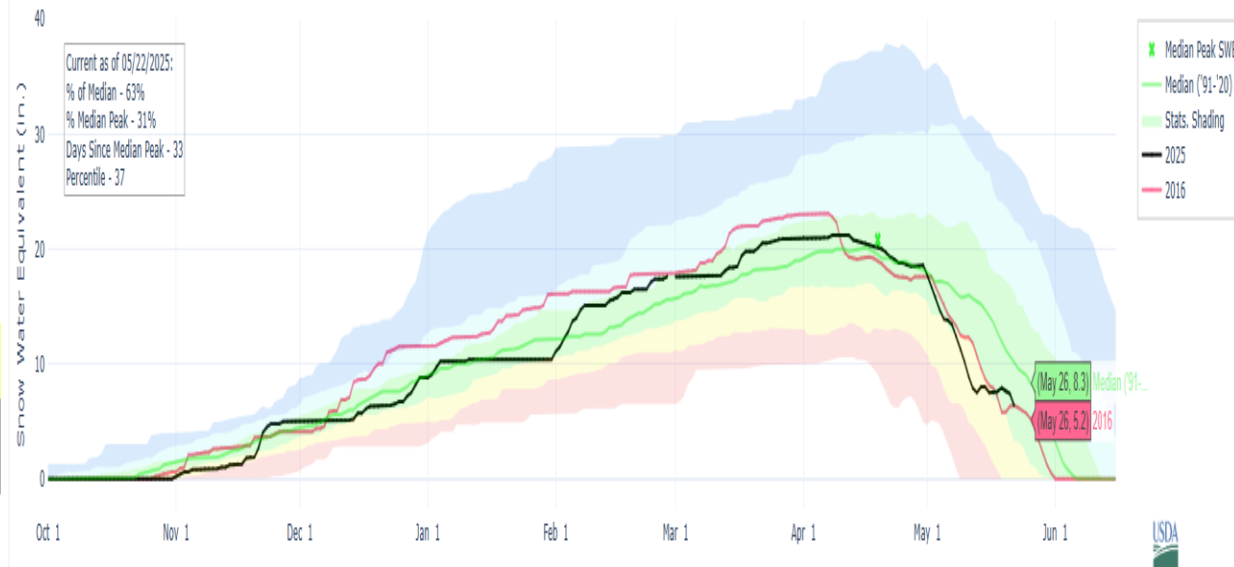
13139510: Big Wood R at Hailey, ID Total Flow

2016 Apr-Jul volume was 93%, 216.7 KAF, Average is 234.1 KAF

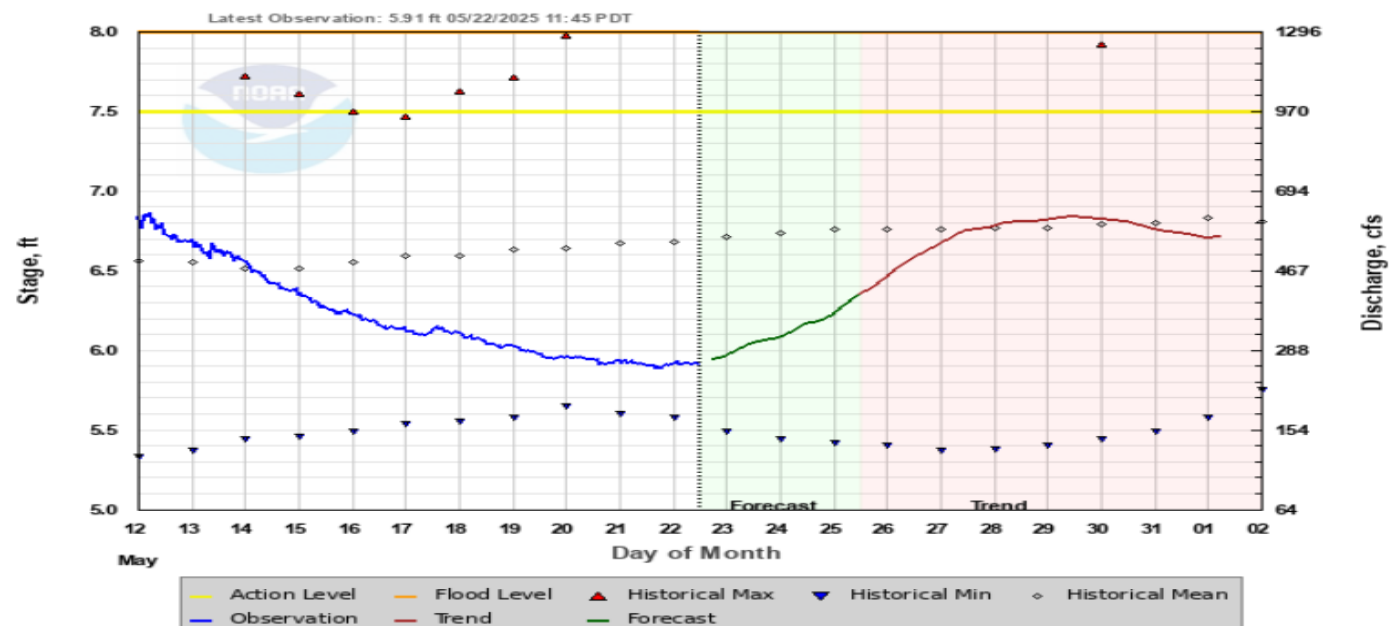
Mean Daily CFS



GALENA SUMMIT, ID (490) SNOW WATER EQUIVALENT



BIG WOOD - NEAR KETCHUM (BWK11)



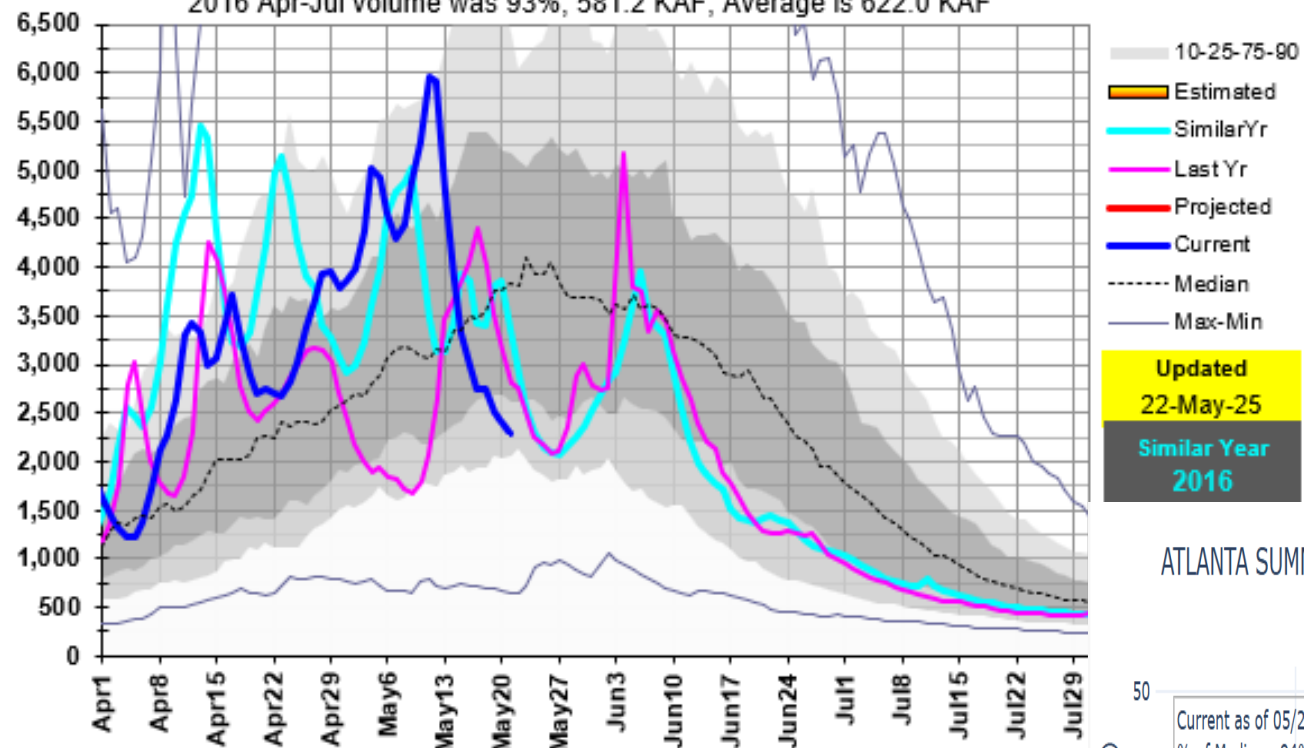
Forecast Created: 05/22/2025 08:14 PDT
Plot Created: 05/22/2025 12:24 PDT

Observations Provided by US Geological Survey

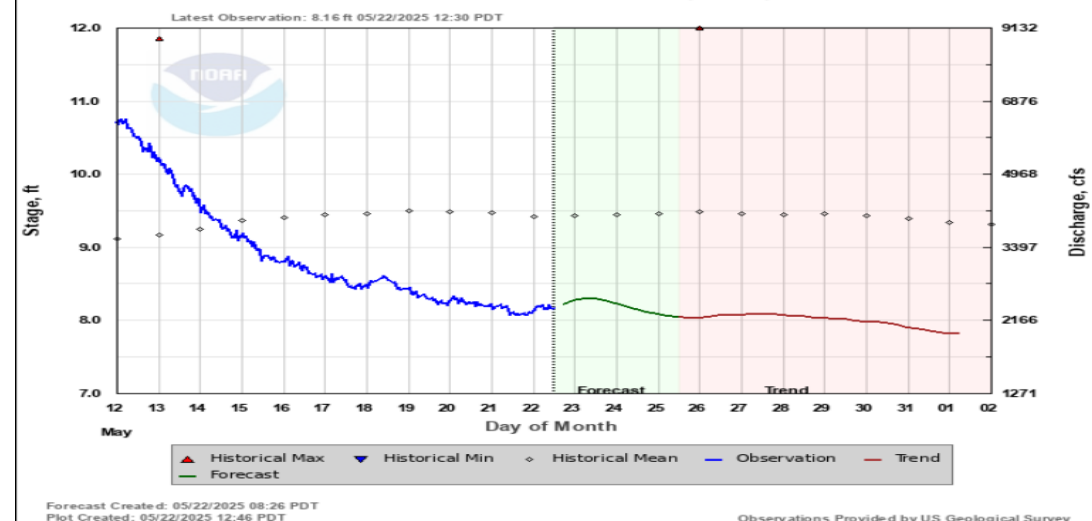
13185000: Boise R near Twin Springs, ID

2016 Apr-Jul volume was 93%, 581.2 KAF, Average is 622.0 KAF

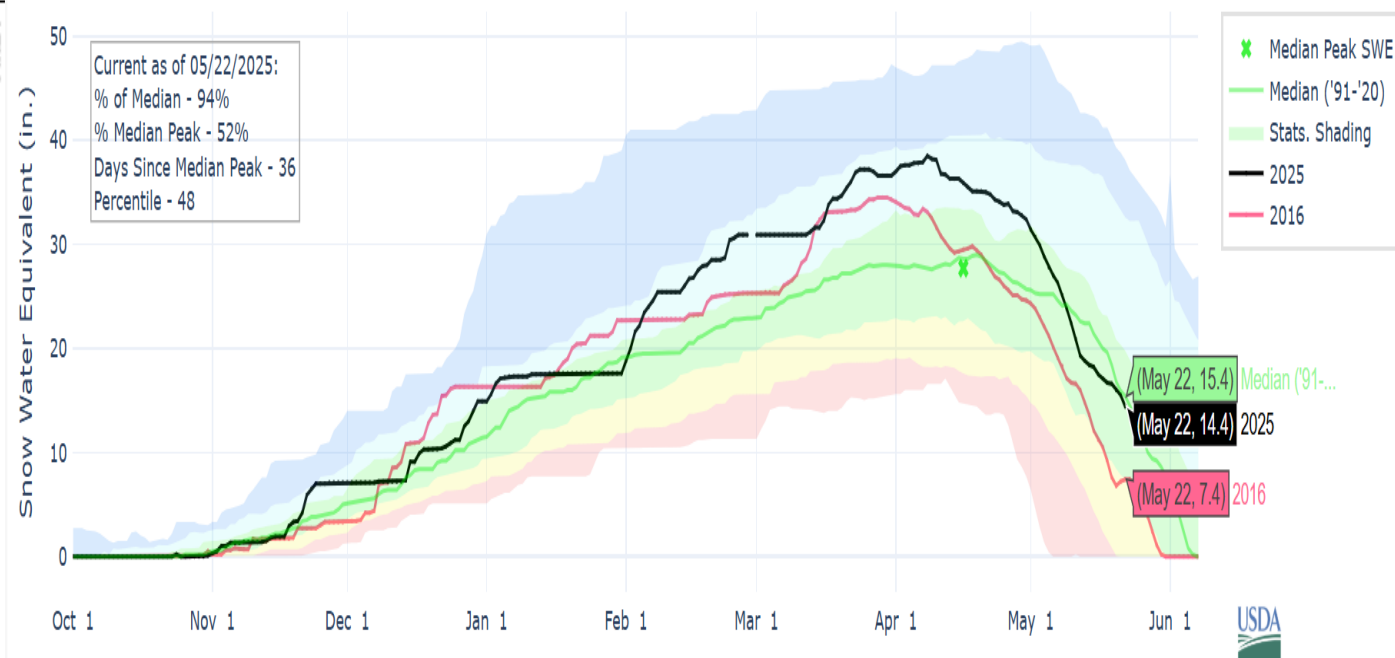
Mean Daily CFS



BOISE - NR TWIN SPRINGS (BTS11)



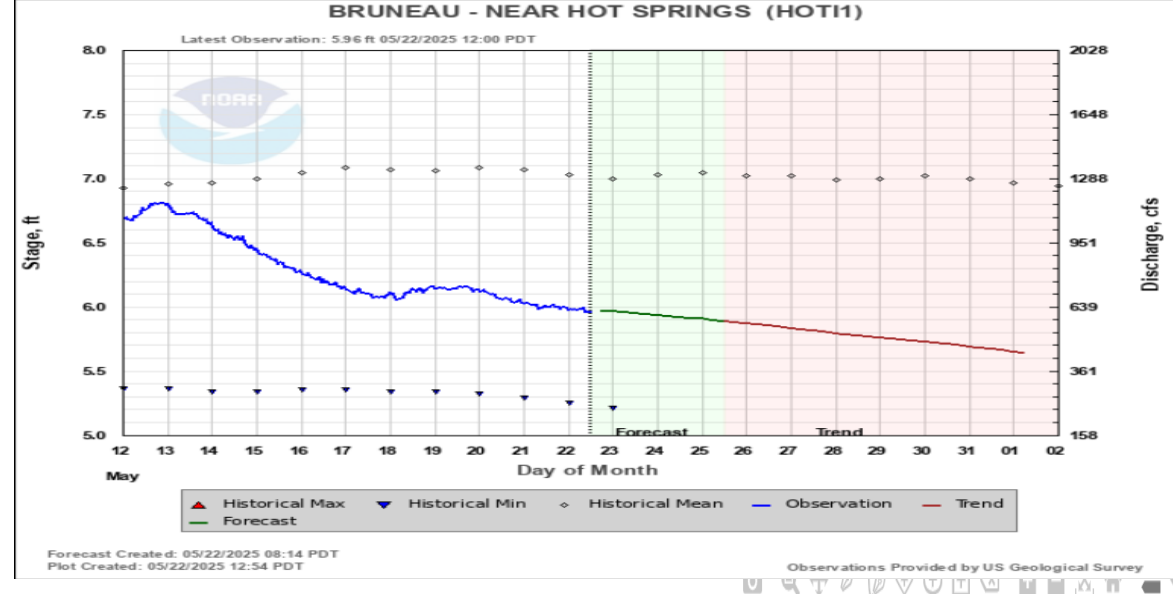
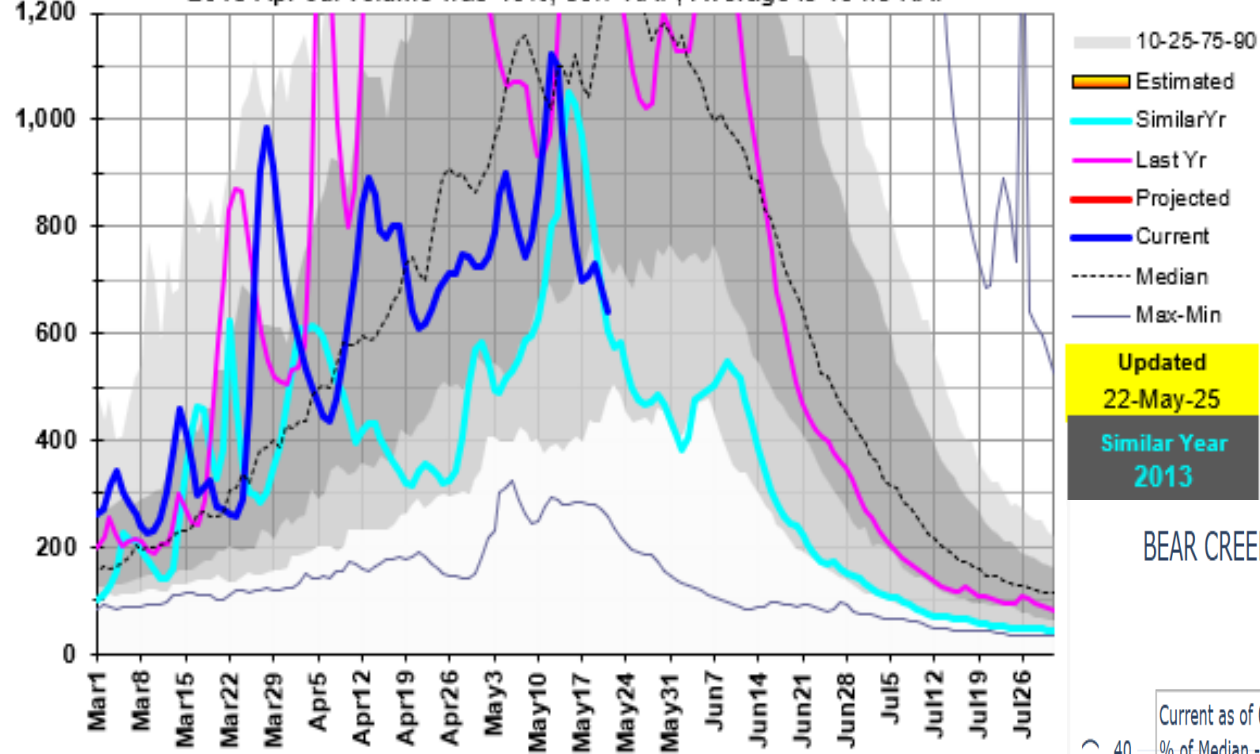
ATLANTA SUMMIT, ID (306) SNOW WATER EQUIVALENT



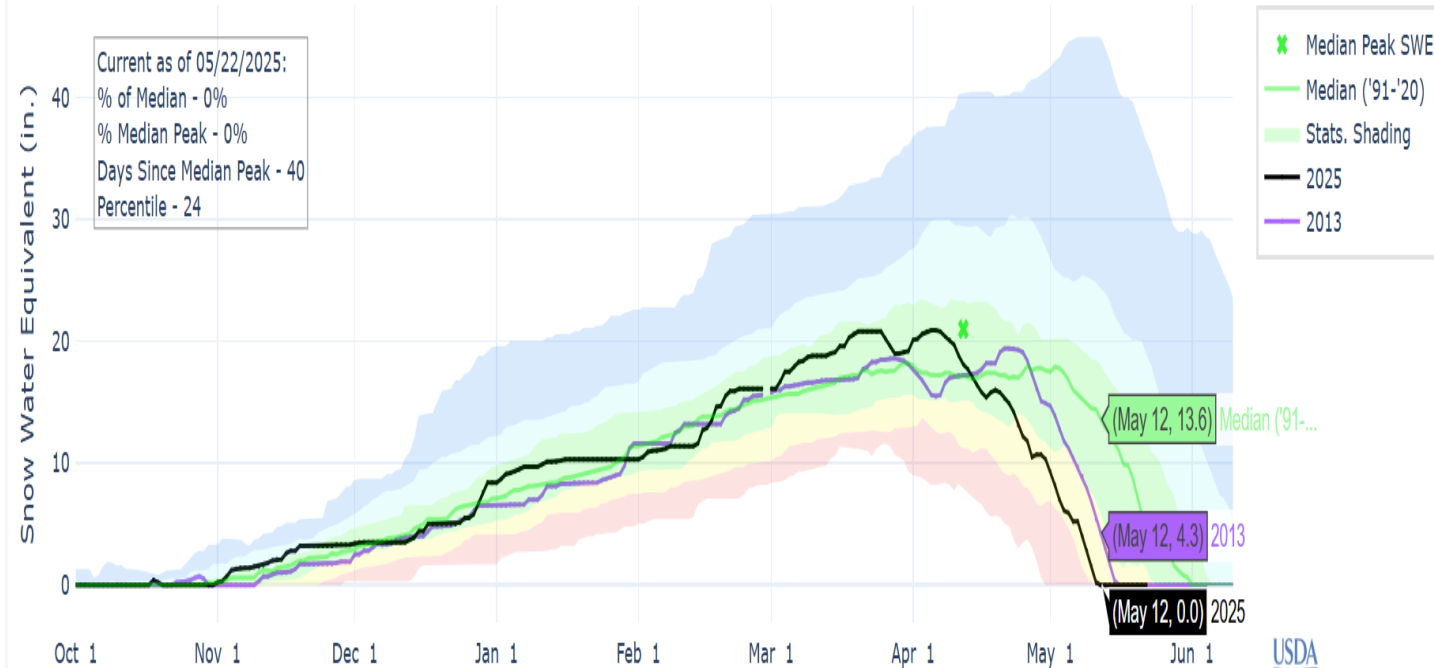
13168500: Bruneau R near Hot Spring, ID

2013 Apr-Jul volume was 46%, 89.7 KAF, Average is 194.5 KAF

Mean Daily CFS



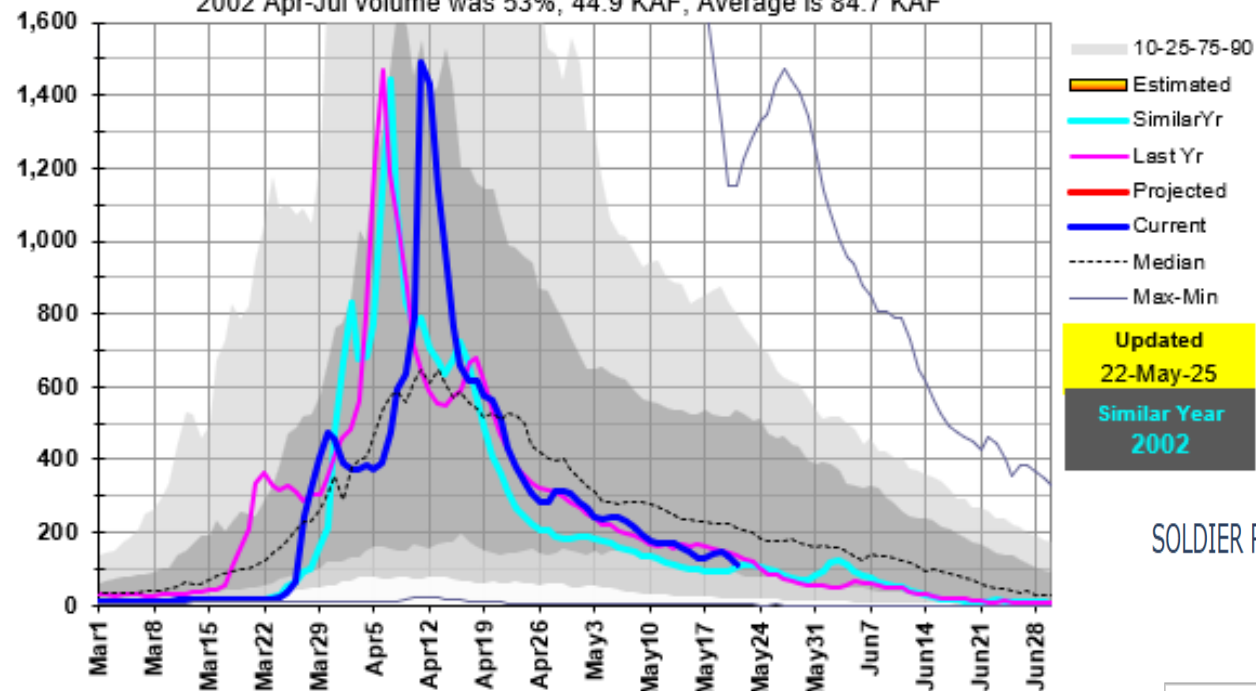
BEAR CREEK, NV (321) SNOW WATER EQUIVALENT



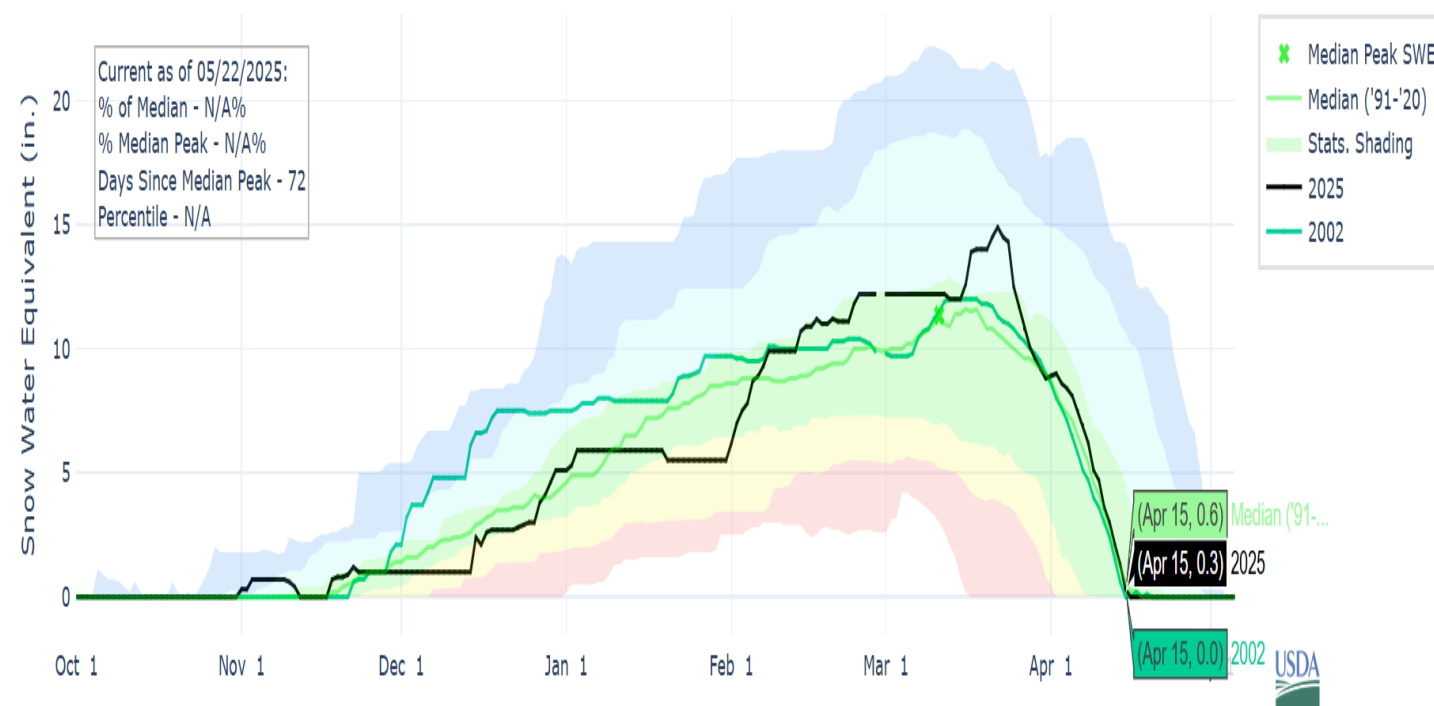
13141500: Camas Ck near Blaine, ID

2002 Apr-Jul volume was 53%, 44.9 KAF, Average is 84.7 KAF

Mean Daily CFS



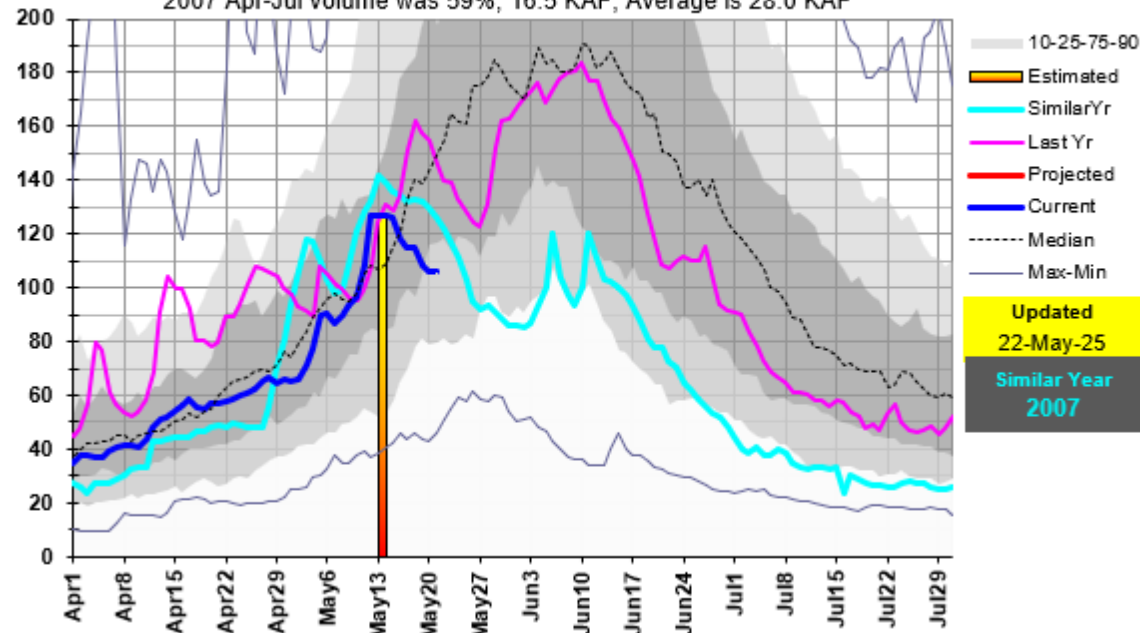
SOLDIER R.S., ID (769) SNOW WATER EQUIVALENT



13118700: Little Lost R below Wet Ck near Howe, ID

2007 Apr-Jul volume was 59%, 16.5 KAF, Average is 28.0 KAF

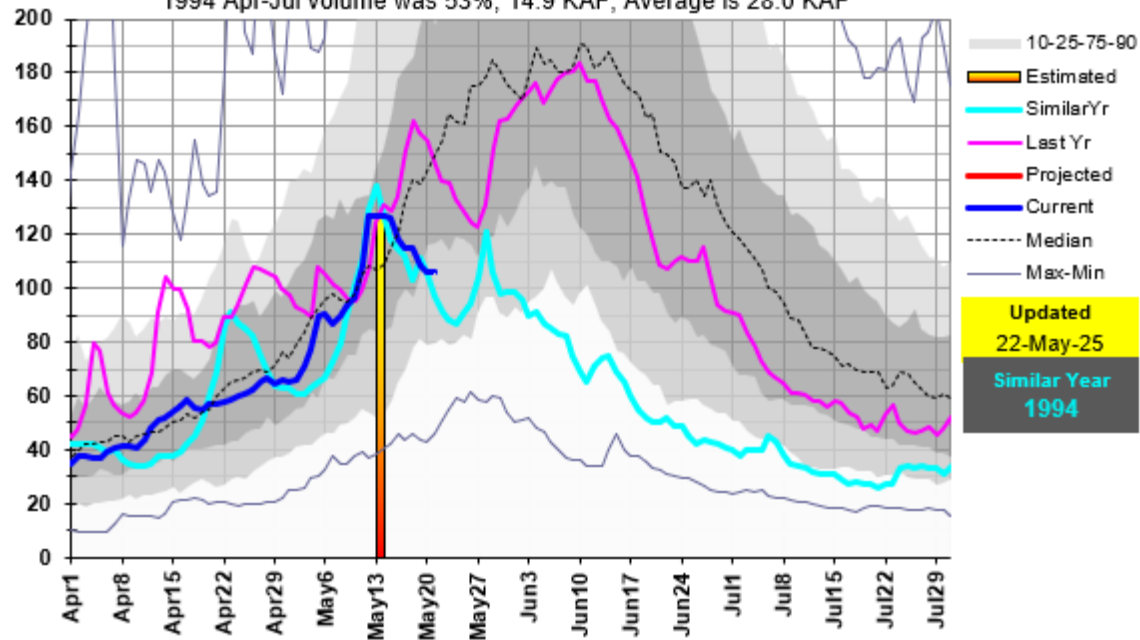
Mean Daily CFS



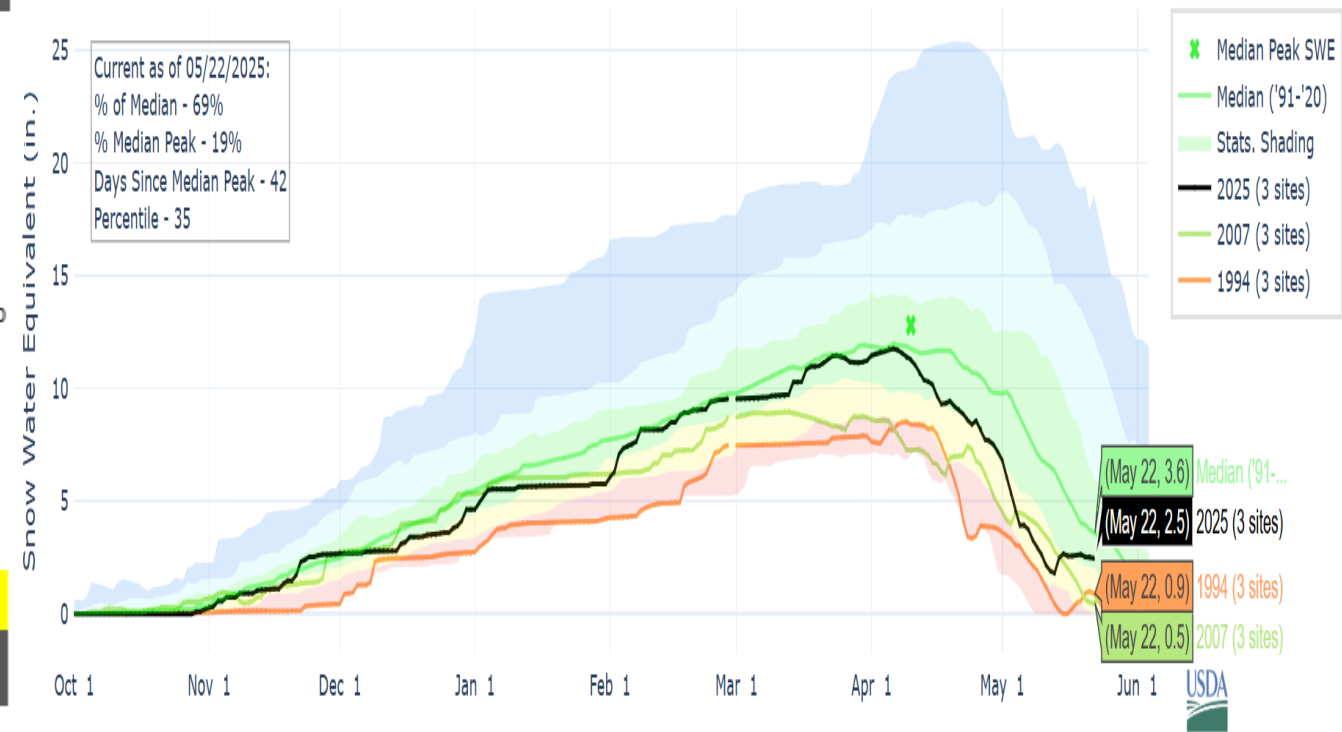
13118700: Little Lost R below Wet Ck near Howe, ID

1994 Apr-Jul volume was 53%, 14.9 KAF, Average is 28.0 KAF

Mean Daily CFS

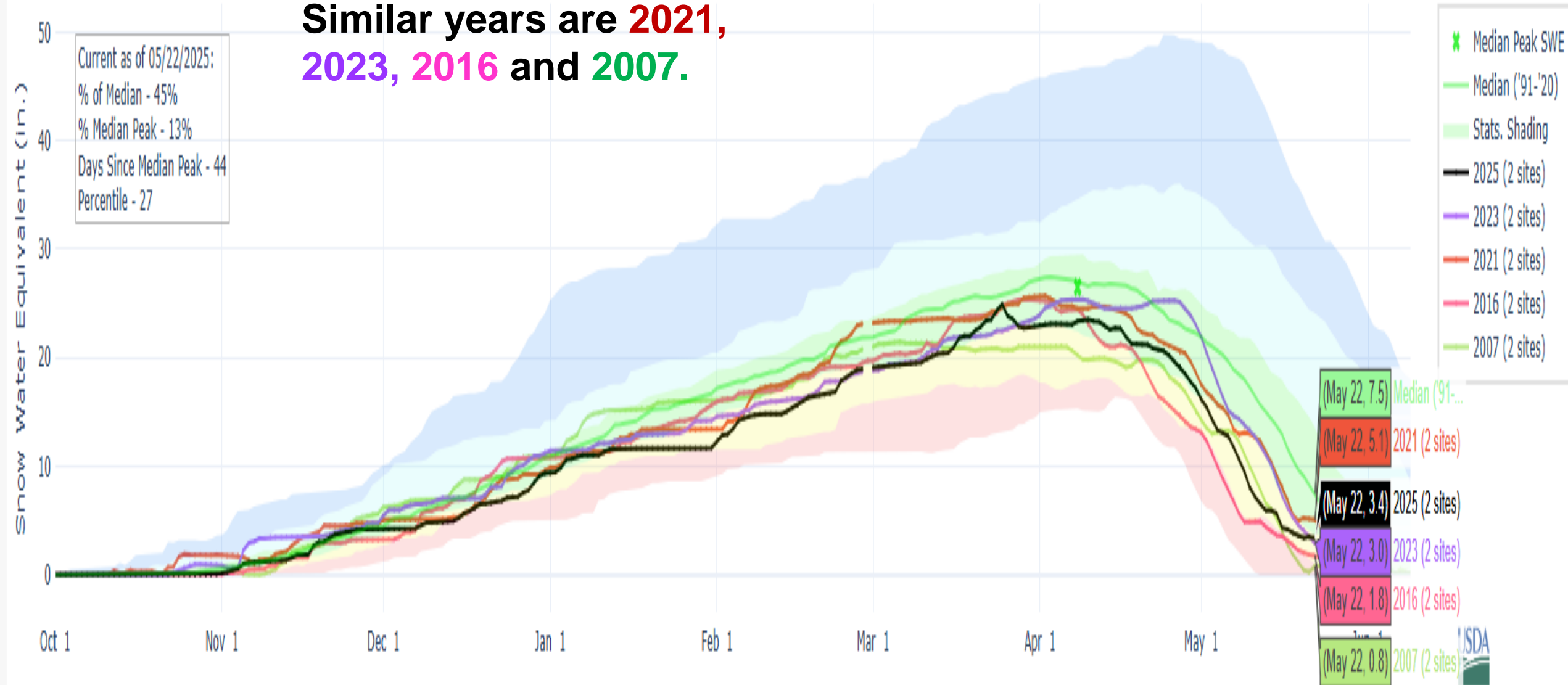


SNOW WATER EQUIVALENT IN LITTLE LOST



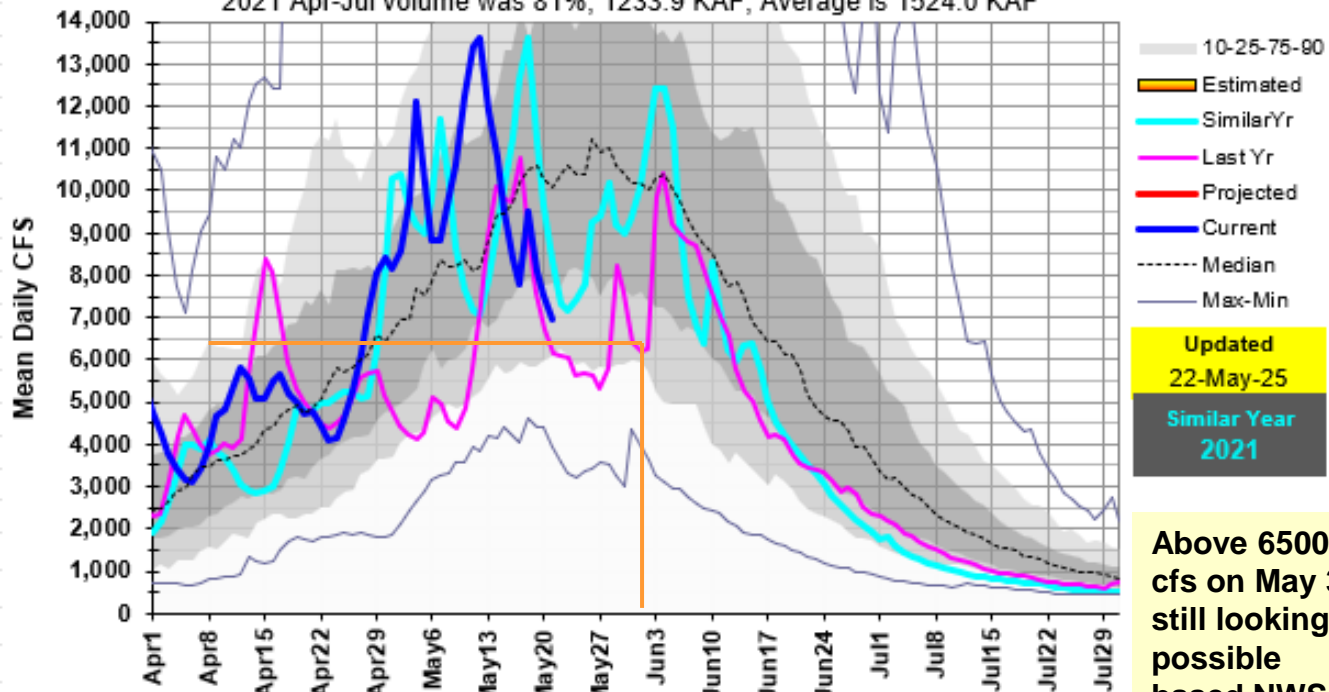
SNOW WATER EQUIVALENT IN LOCHSA

Lochsa snow is 45%
Similar years are 2021,
2023, 2016 and 2007.

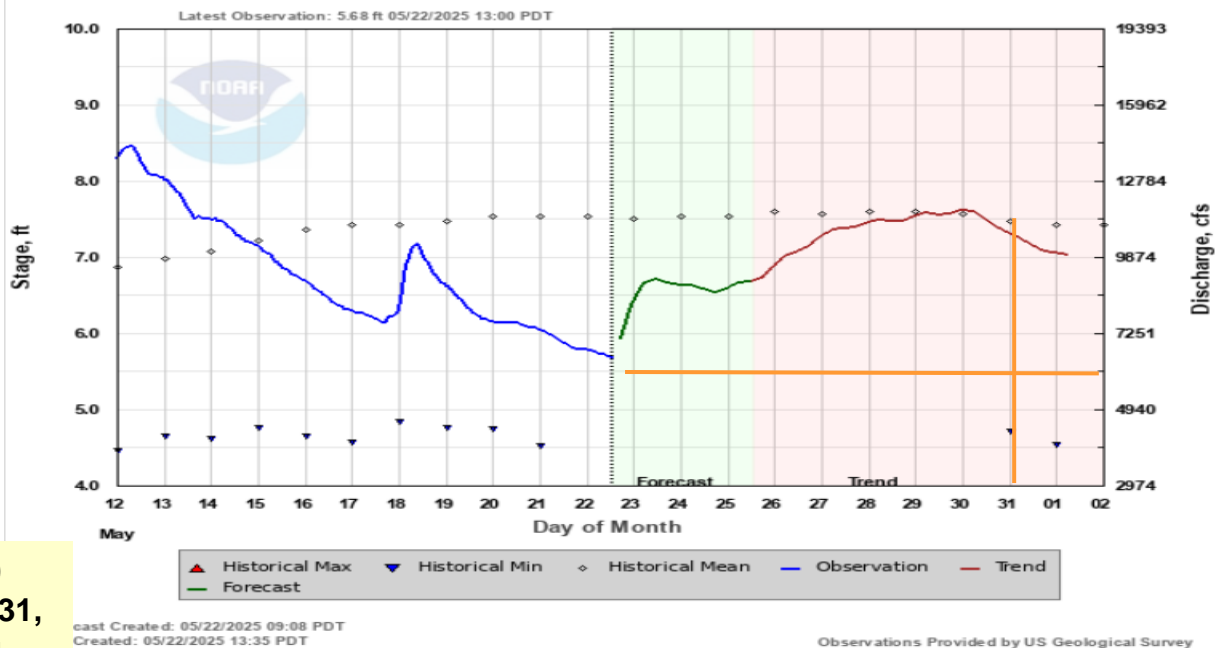


13337000: Lochsa R near Lowell, ID

2021 Apr-Jul volume was 81%, 1233.9 KAF, Average is 1524.0 KAF

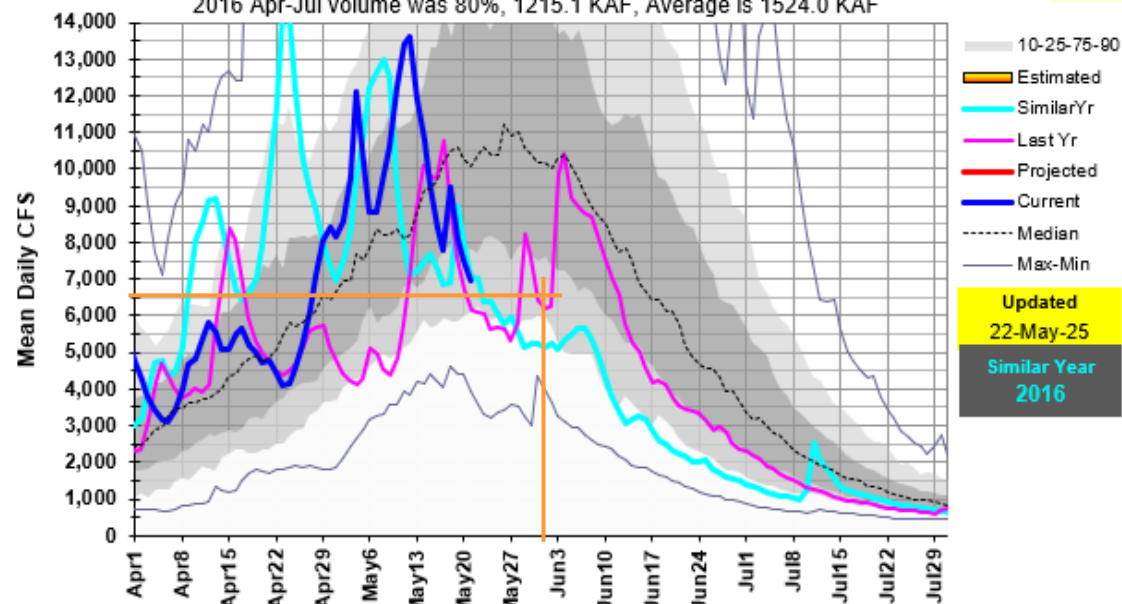


LOCHSA - NEAR LOWELL (LOC1)



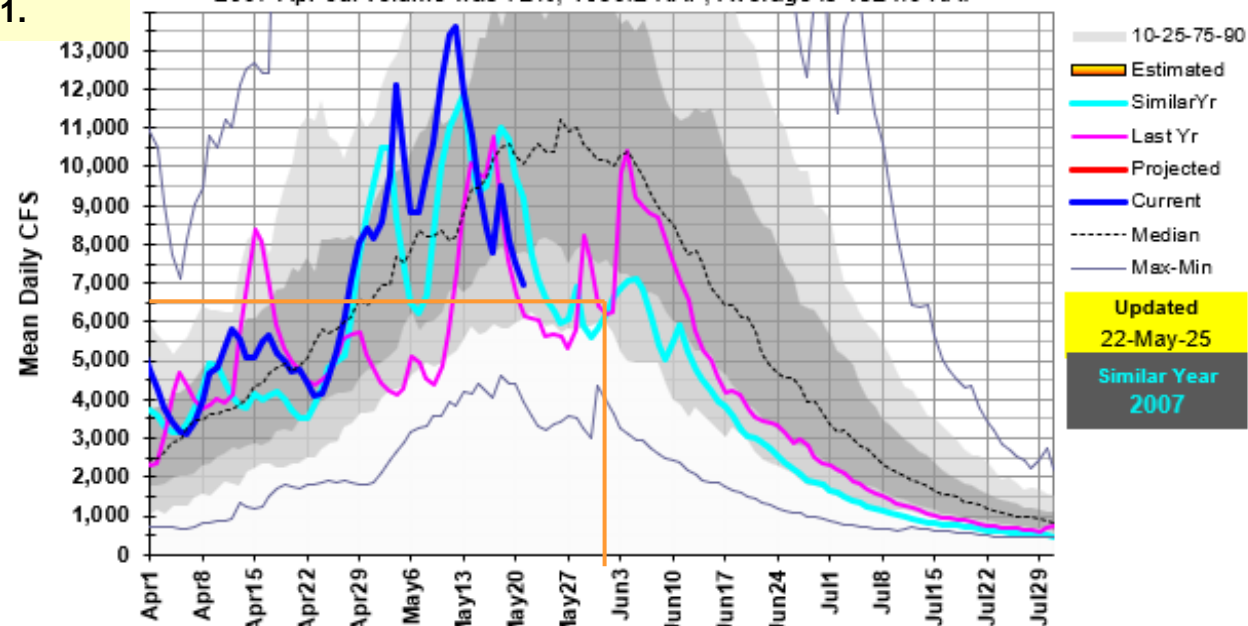
13337000: Lochsa R near Lowell, ID

2016 Apr-Jul volume was 80%, 1215.1 KAF, Average is 1524.0 KAF

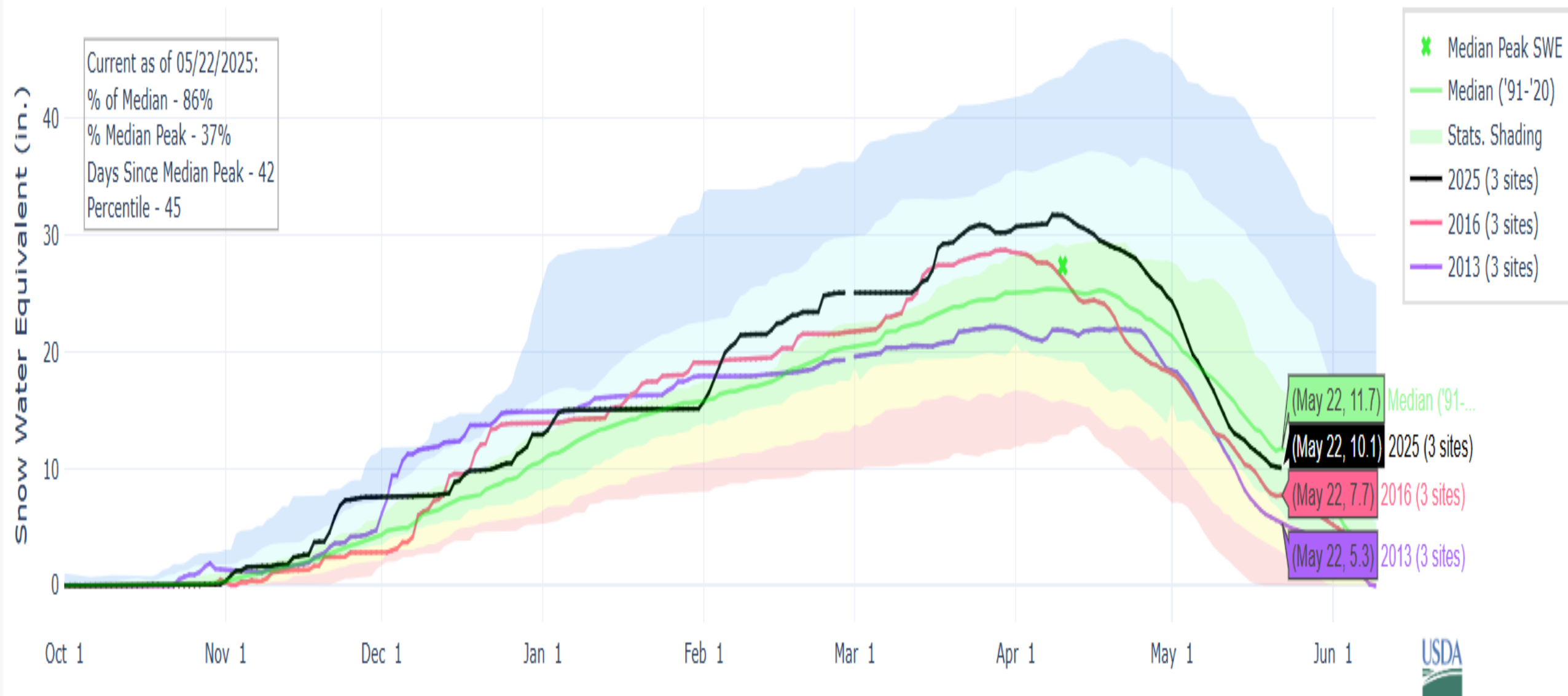


13337000: Lochsa R near Lowell, ID

2007 Apr-Jul volume was 72%, 1090.2 KAF, Average is 1524.0 KAF



SNOW WATER EQUIVALENT IN MIDDLE FORK SALMON



BANNER SUMMIT, ID

Max SWE Category	Max SWE Magnitude (inches)	Number of Years in Analysis	Average percent melted at time of peak streamflow
Below average	<21	9	90
Average	20 – 31	16	61
Above average	>30	9	66

Note - this analysis uses all years available and did not eliminate potential non-snowmelt peaks

Using DISCHARGE ONLY years, on average, peak streamflow for the MF Salmon at MF Lodge near Yellow Pine Idaho occurs when Banner Summit SNOTEL is between 64 and 81% melted.

Summary of DISCHARGE ONLY years categorized by max SWE magnitude.

Max SWE Category	Max SWE Magnitude (inches)	Number of Years in Analysis	MEDIAN percent melted at time of peak streamflow
Below average	<21	5	81
Average	20 – 30	8	71
Above average	>29	5	64

Note - this analysis uses all years available and did not eliminate potential non-snowmelt peaks

2025 Banner Summit peaked at 31.2" on Mar 26 and is at 4.8" May 13. On average, the snowmelt peak occurs when the site is 61 to 66% melted or when 9 to 11" of SWE remains which was May 10.

Current as of 05/22/2025:

% of Median - 1%

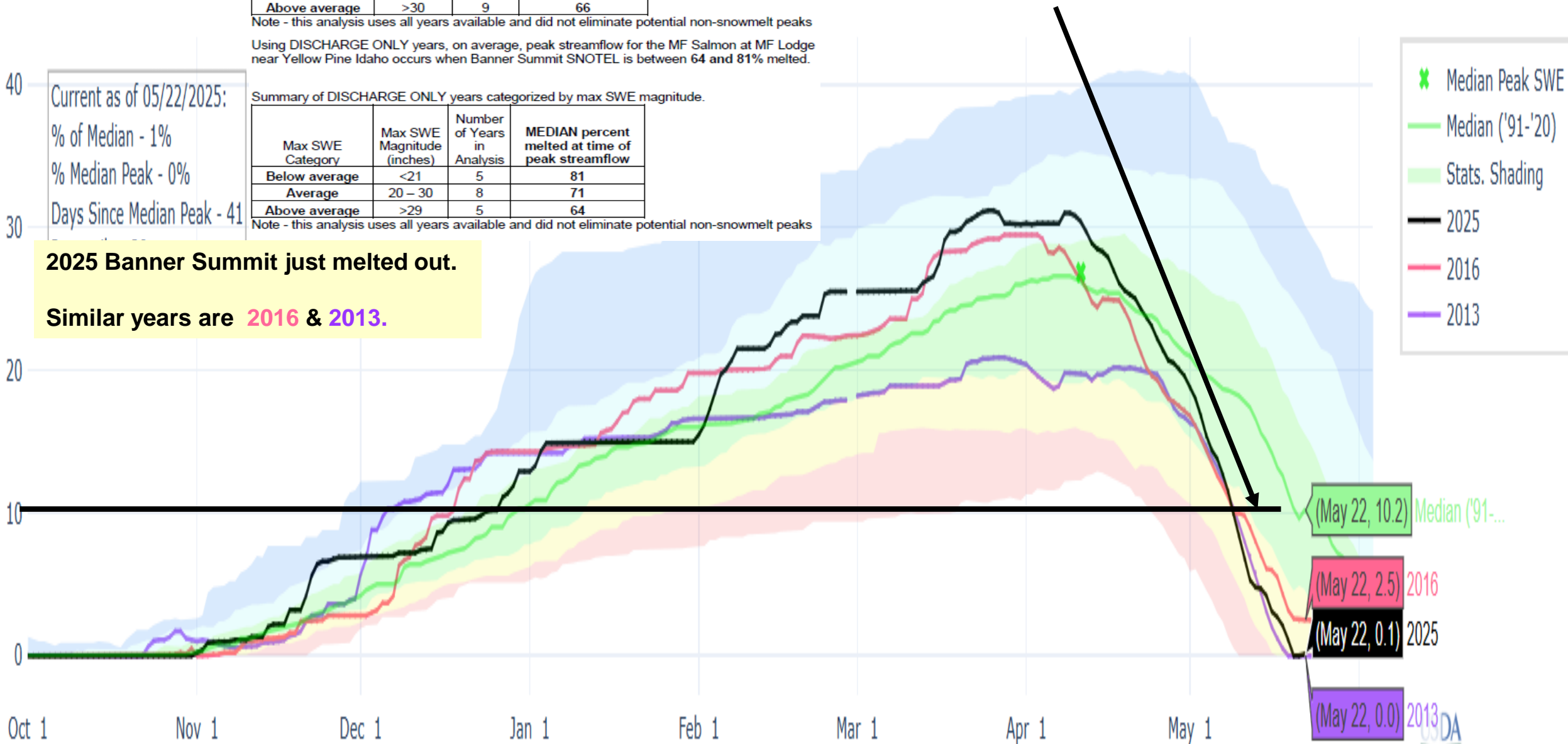
% Median Peak - 0%

Days Since Median Peak - 41

2025 Banner Summit just melted out.

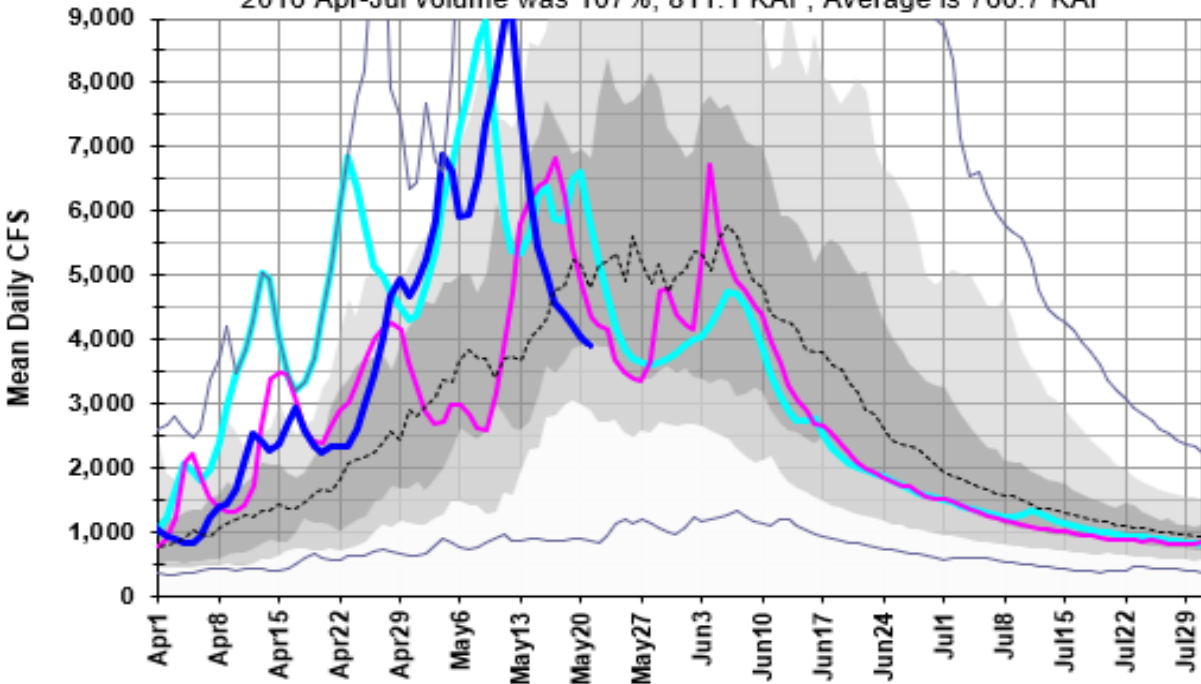
Similar years are 2016 & 2013.

Snow Water Equivalent (in.)



13309220: MF Salmon R at MF Lodge near Yellow Pine, ID

2016 Apr-Jul volume was 107%, 811.1 KAF, Average is 760.7 KAF

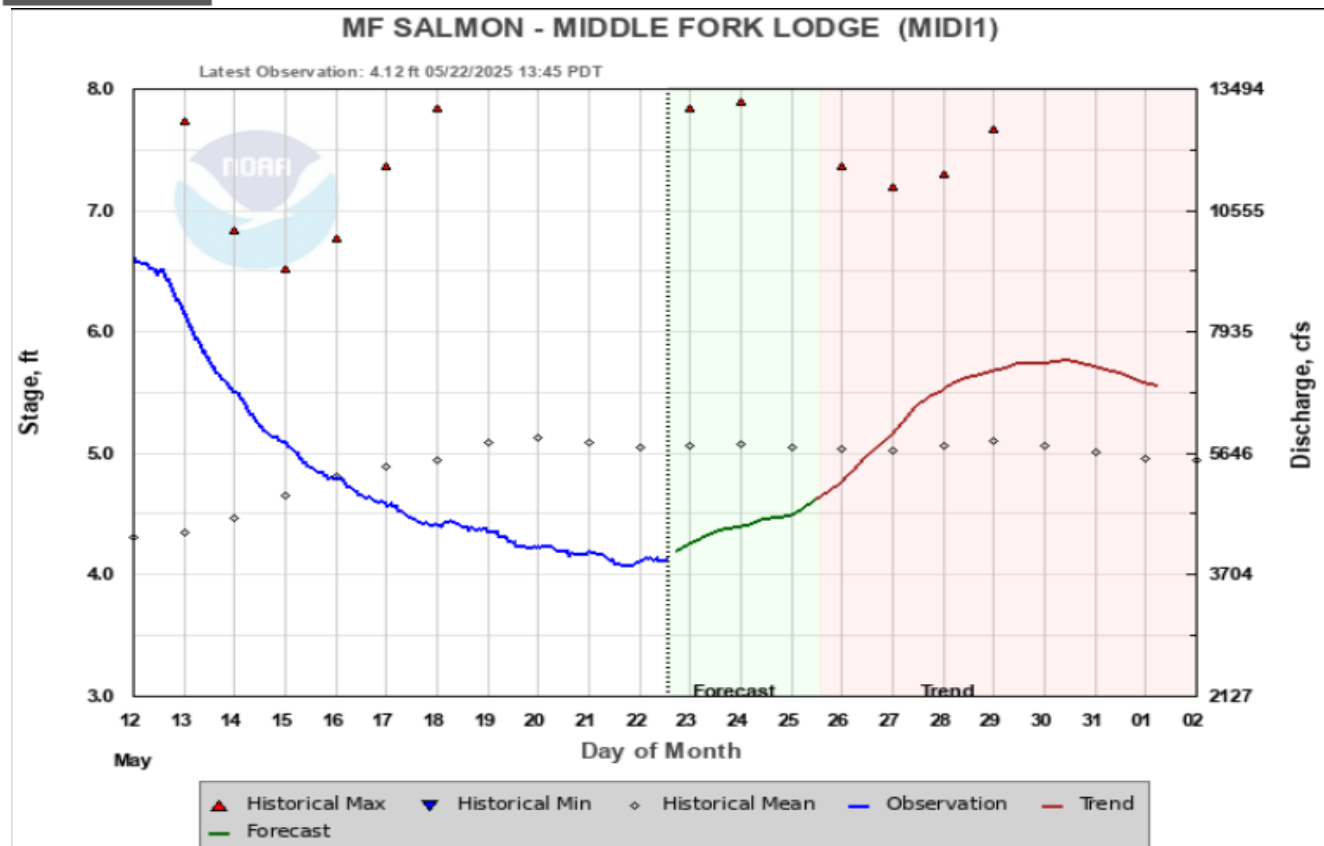
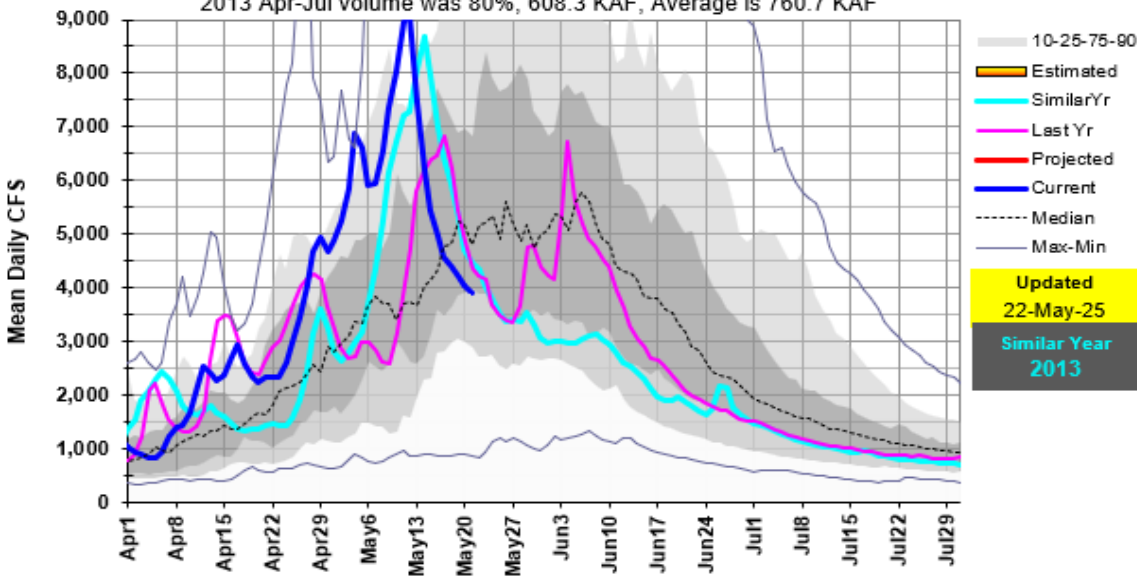


Flow for years that had a similar snow peak and melt.

NRCS May 1 May-Jul Forecast is for 105% and 690 KAF which is between these two years.

13309220: MF Salmon R at MF Lodge near Yellow Pine, ID

2013 Apr-Jul volume was 80%, 608.3 KAF, Average is 760.7 KAF

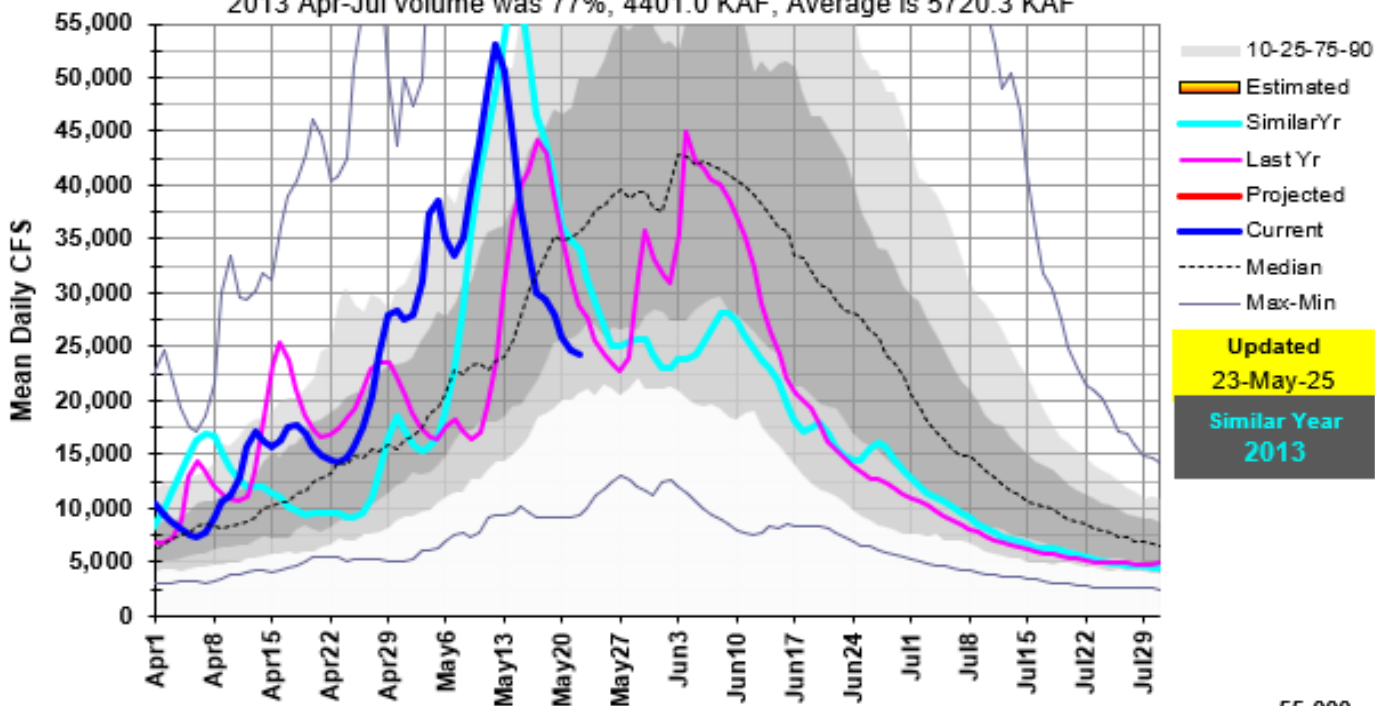


Forecast Created: 05/22/2025 08:29 PDT
Plot Created: 05/22/2025 14:00 PDT

Observations Provided by US Geological Survey

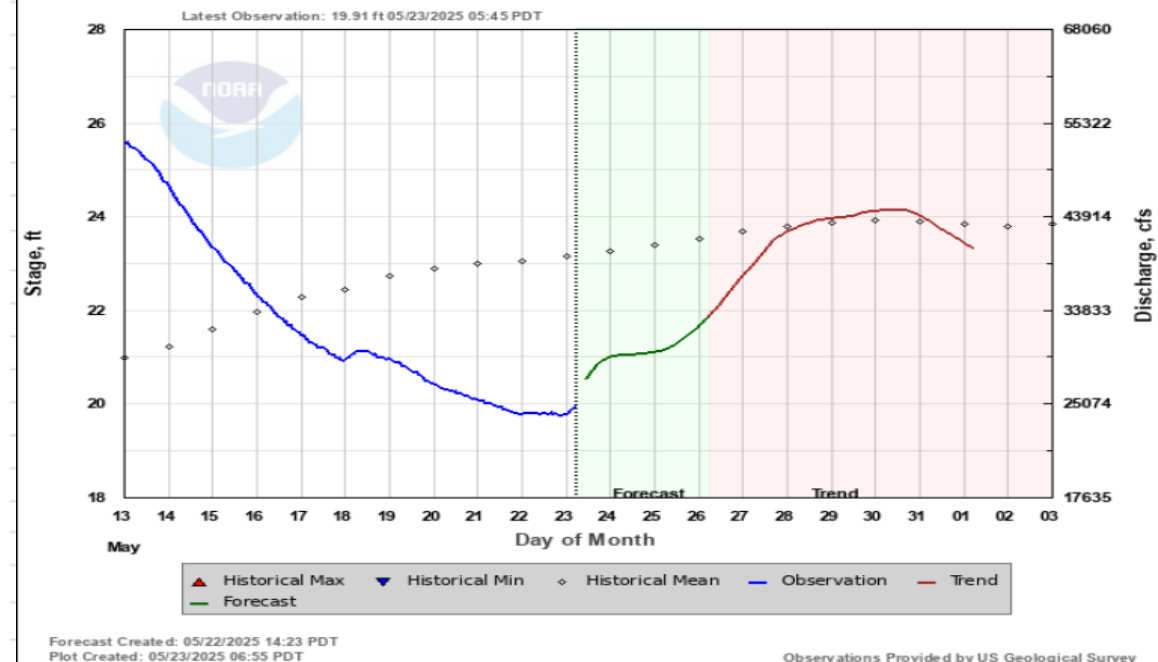
13317000: Salmon R at White Bird, ID

2013 Apr-Jul volume was 77%, 4401.0 KAF, Average is 5720.3 KAF



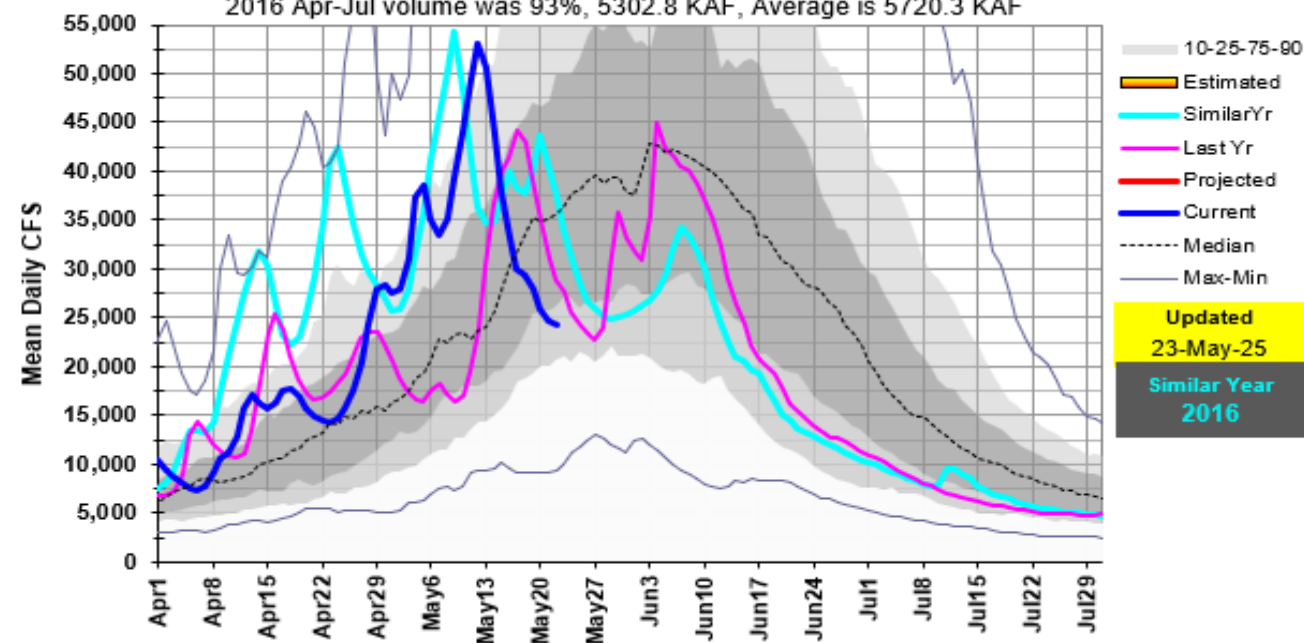
NRCS May 1 May-Jul Forecast is for 92% and 4410 KAF which best matches 2013 and another increase next week with arrival of hot temps to melt remaining snow.

SALMON - AT WHITEBIRD (WHB11)



13317000: Salmon R at White Bird, ID

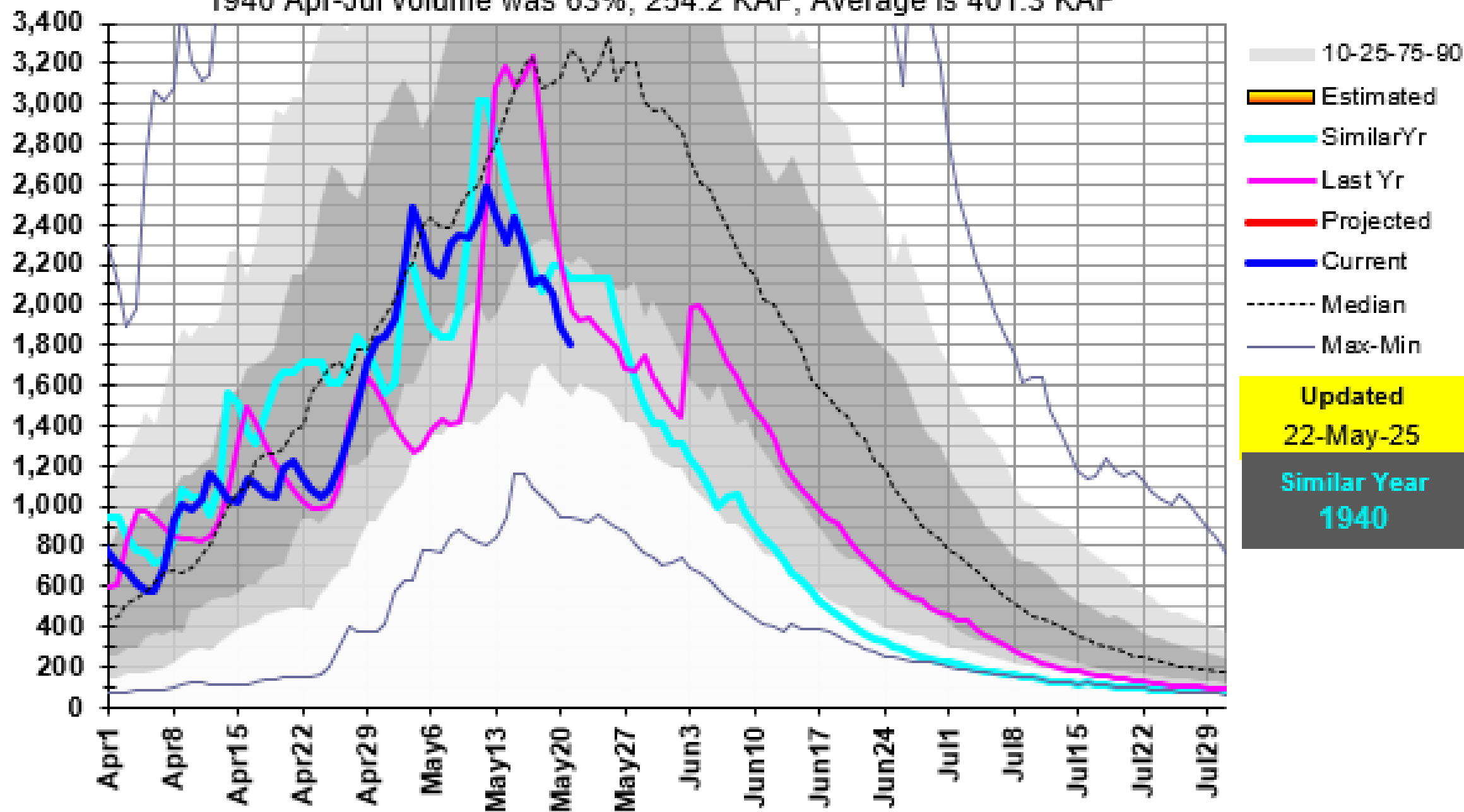
2016 Apr-Jul volume was 93%, 5302.8 KAF, Average is 5720.3 KAF



12306500: Moyie R at Eastport, ID

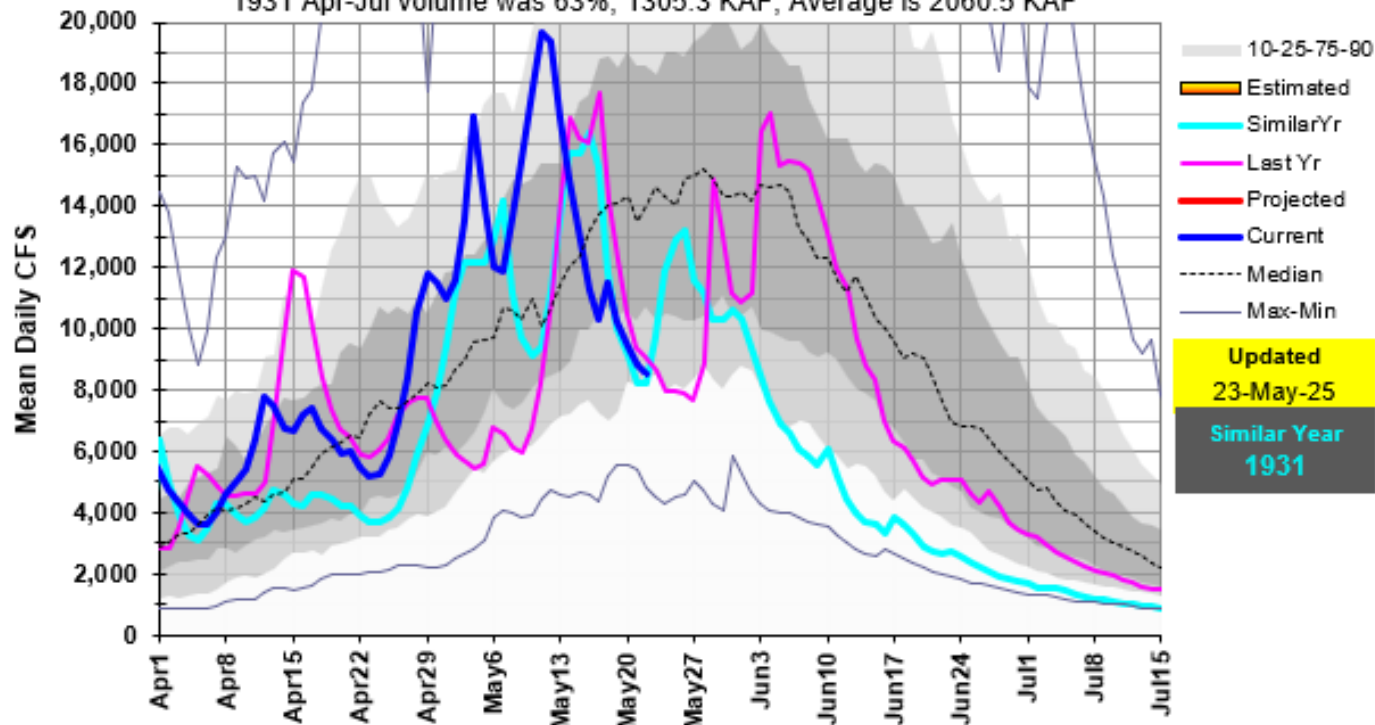
1940 Apr-Jul volume was 63%, 254.2 KAF, Average is 401.3 KAF

Mean Daily CFS



13336500: Selway R near Lowell, ID

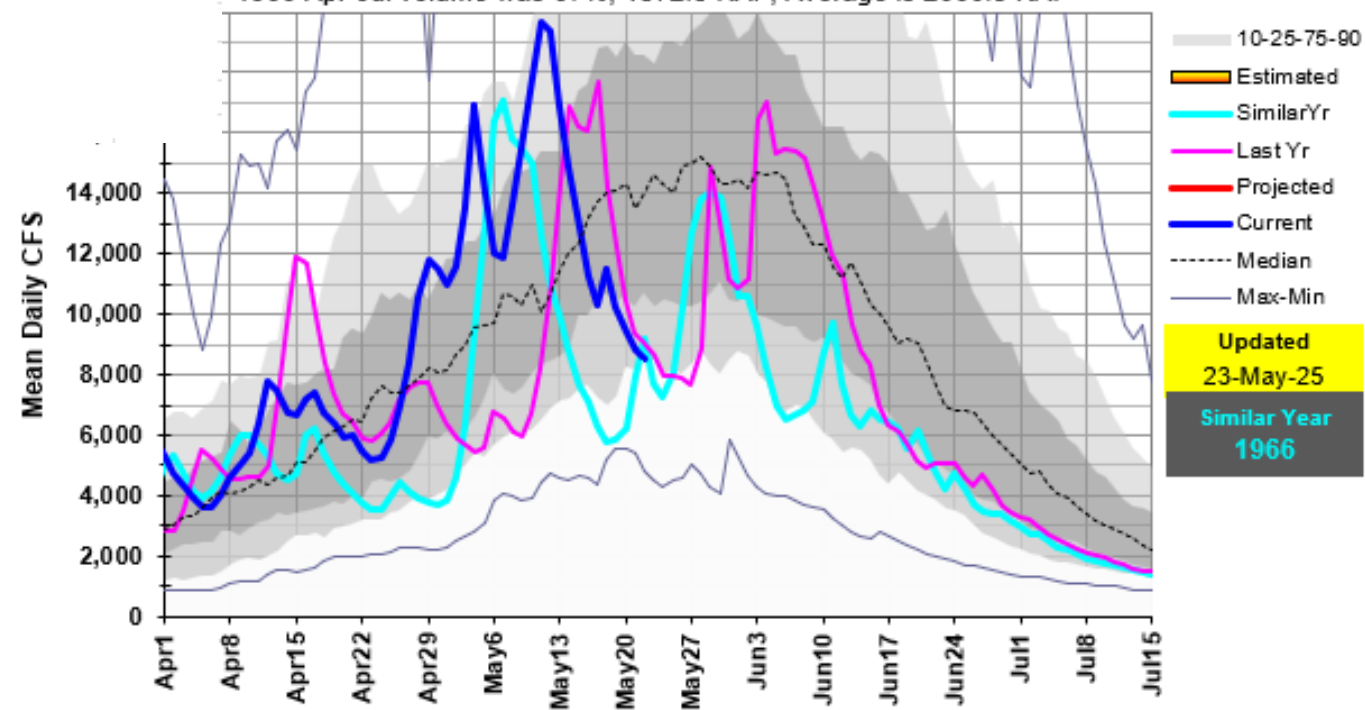
1931 Apr-Jul volume was 63%, 1305.3 KAF, Average is 2060.5 KAF



Flow for years that had a similar snow peak and melt.

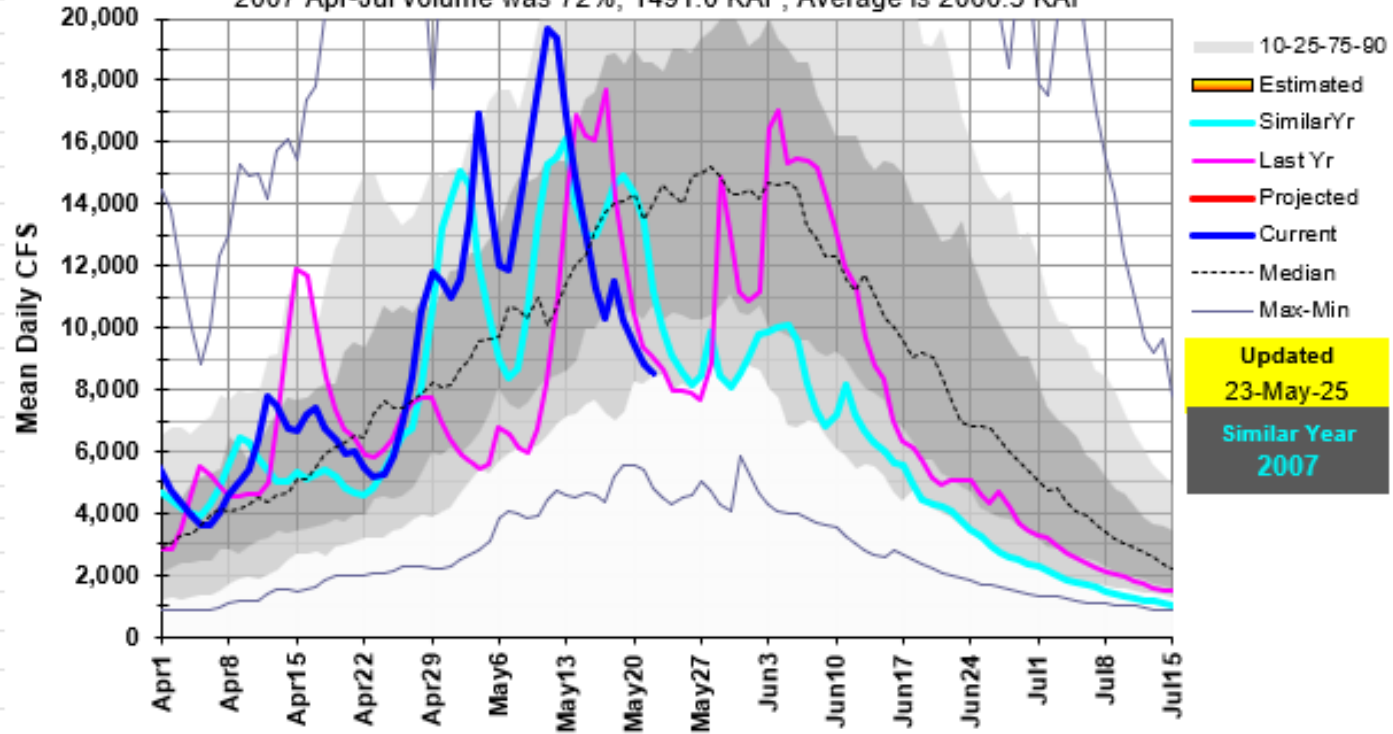
3336500: Selway R near Lowell, ID

1966 Apr-Jul volume was 67%, 1372.5 KAF, Average is 2060.5 KAF

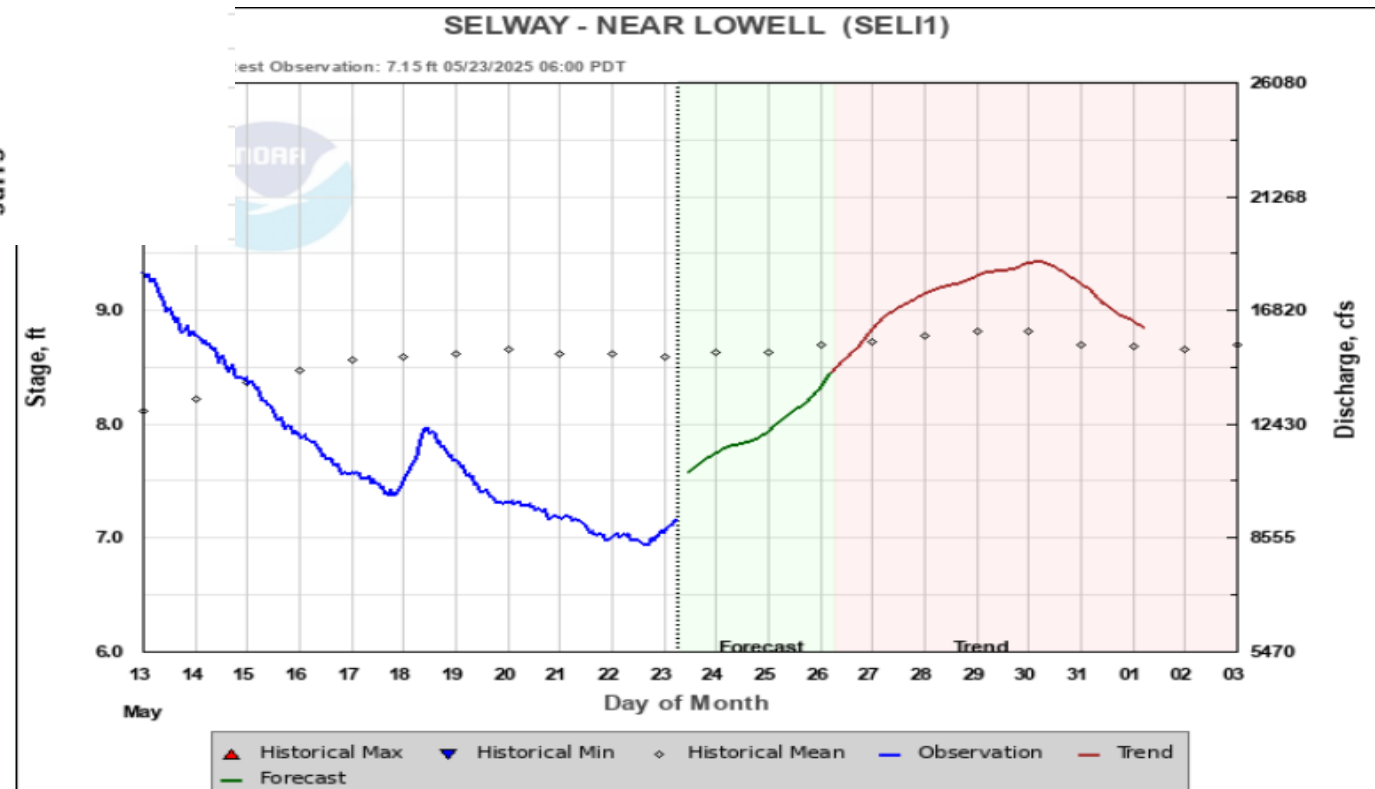


13336500: Selway R near Lowell, ID

2007 Apr-Jul volume was 72%, 1491.0 KAF, Average is 2060.5 KAF



NRCS May 1 May-Jul Forecast is for 90% and 1470 KAF. Similar to 2007 flow pattern with another increase next week as peak cool down occurred last week when the river was peaking.



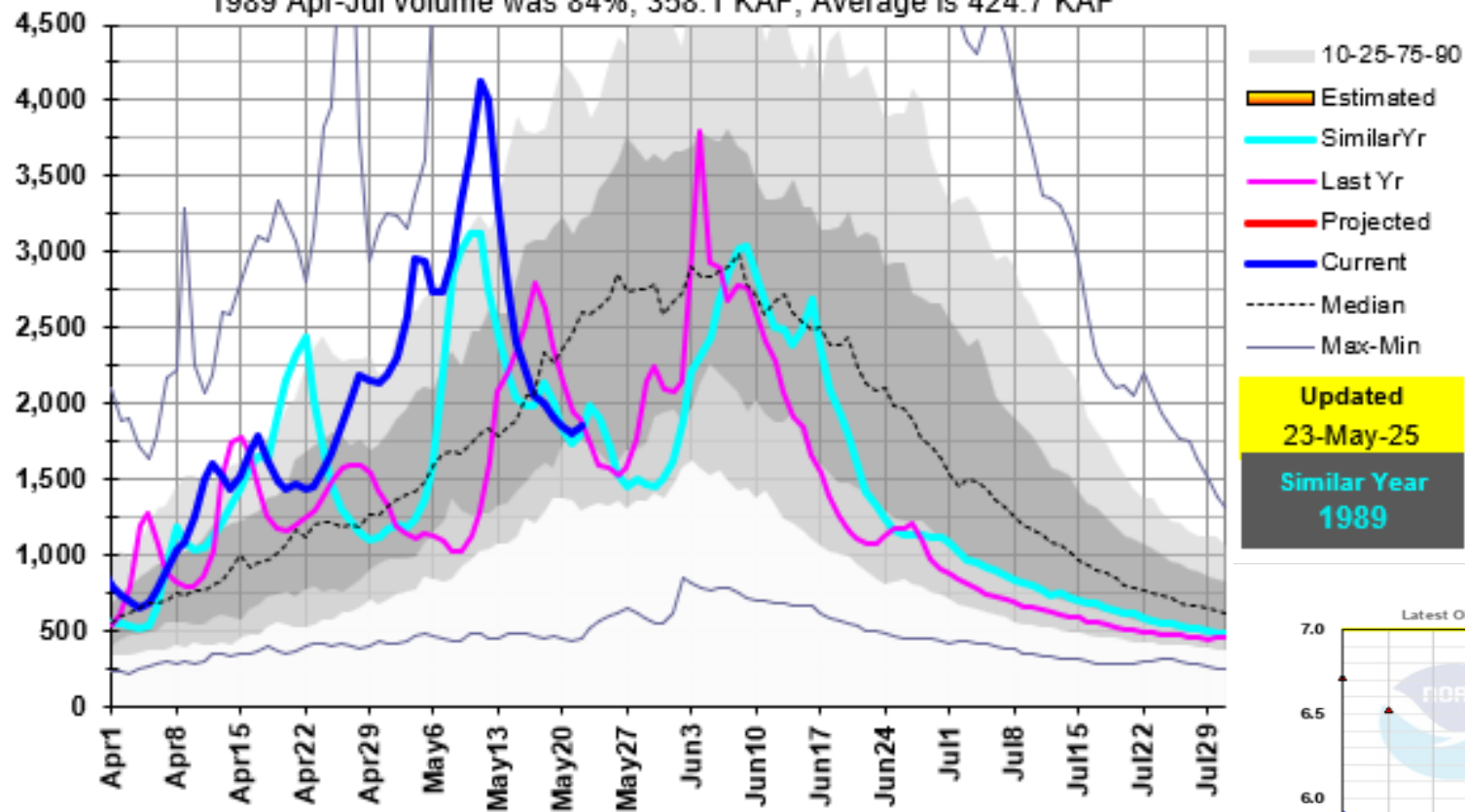
Forecast Created: 05/22/2025 14:23 PDT
Plot Created: 05/23/2025 07:08 PDT

Observations Provided by US Geological Survey

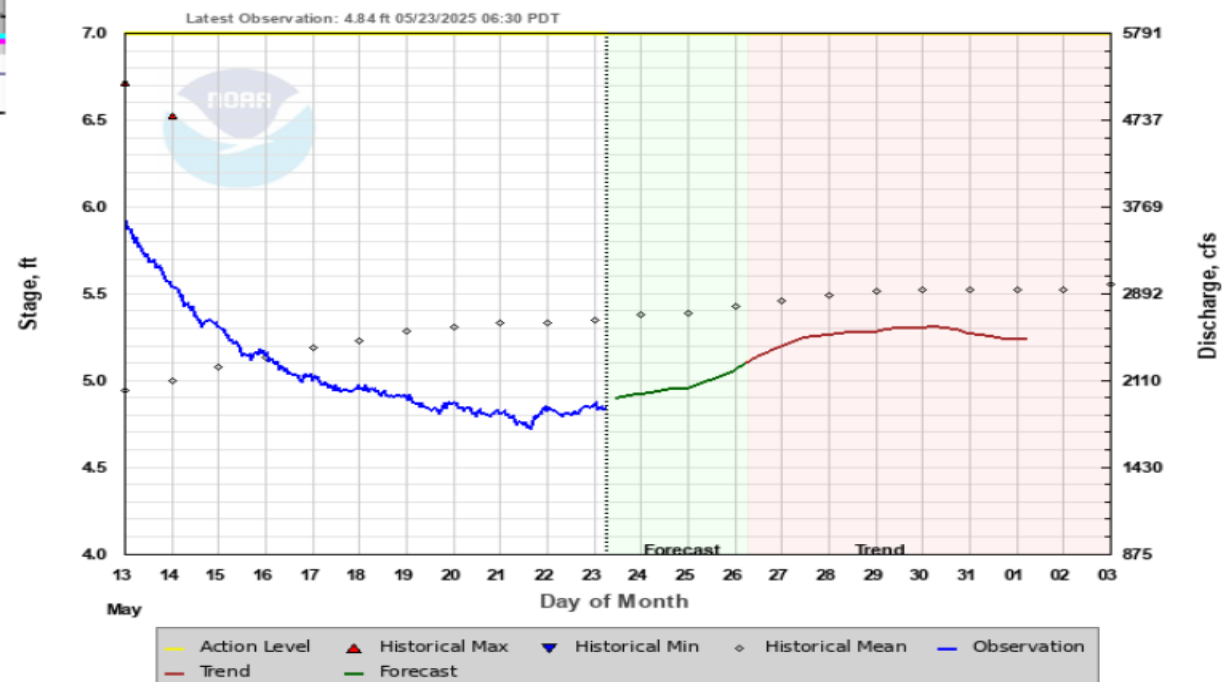
13235000: SF Payette R at Lowman, ID

1989 Apr-Jul volume was 84%, 358.1 KAF, Average is 424.7 KAF

Mean Daily CFS



SF PAYETTE - AT LOWMAN (PRL11)



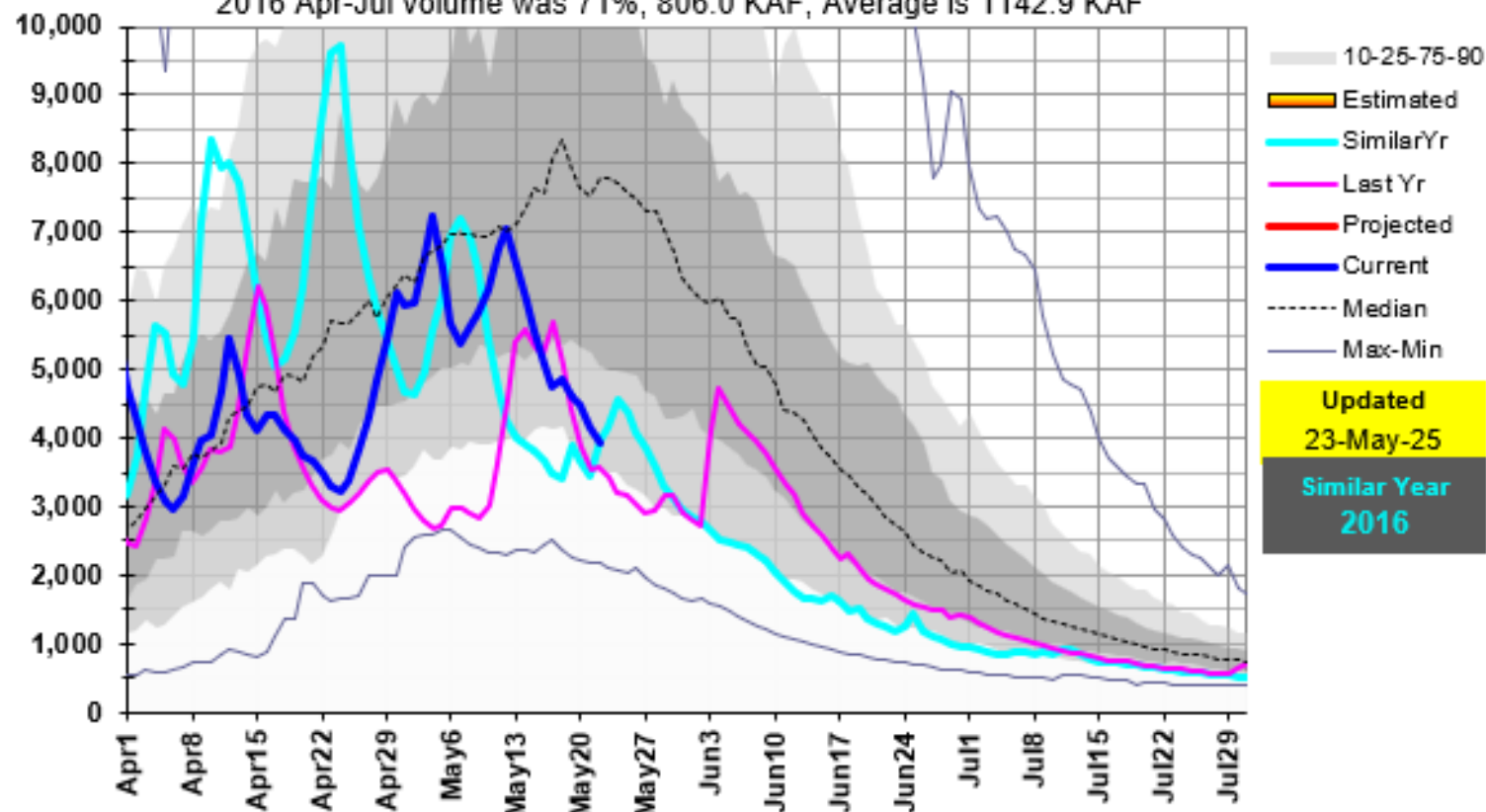
Forecast Created: 05/22/2025 14:14 PDT
Plot Created: 05/23/2025 07:15 PDT

Observations Provided by US Geological Survey

12414500: St. Joe R at Calder, ID

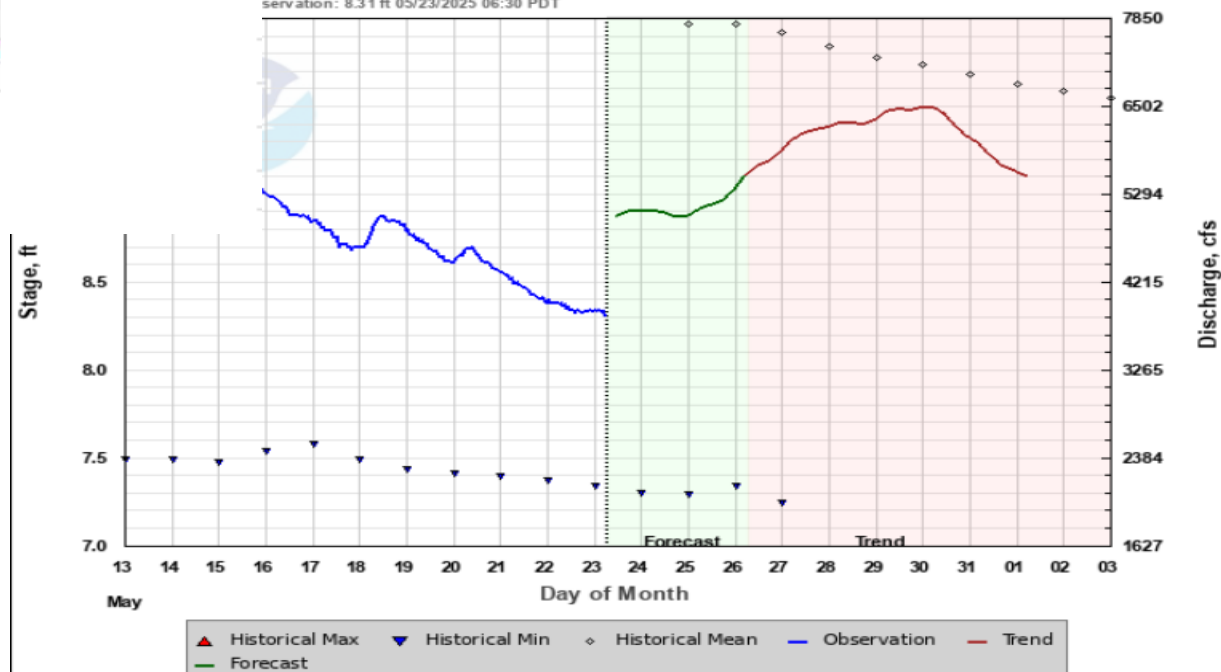
2016 Apr-Jul volume was 71%, 806.0 KAF, Average is 1142.9 KAF

Mean Daily CFS



ST JOE - AT CALDER (CLDI1)

servation: 8.31 ft 05/23/2025 06:30 PDT



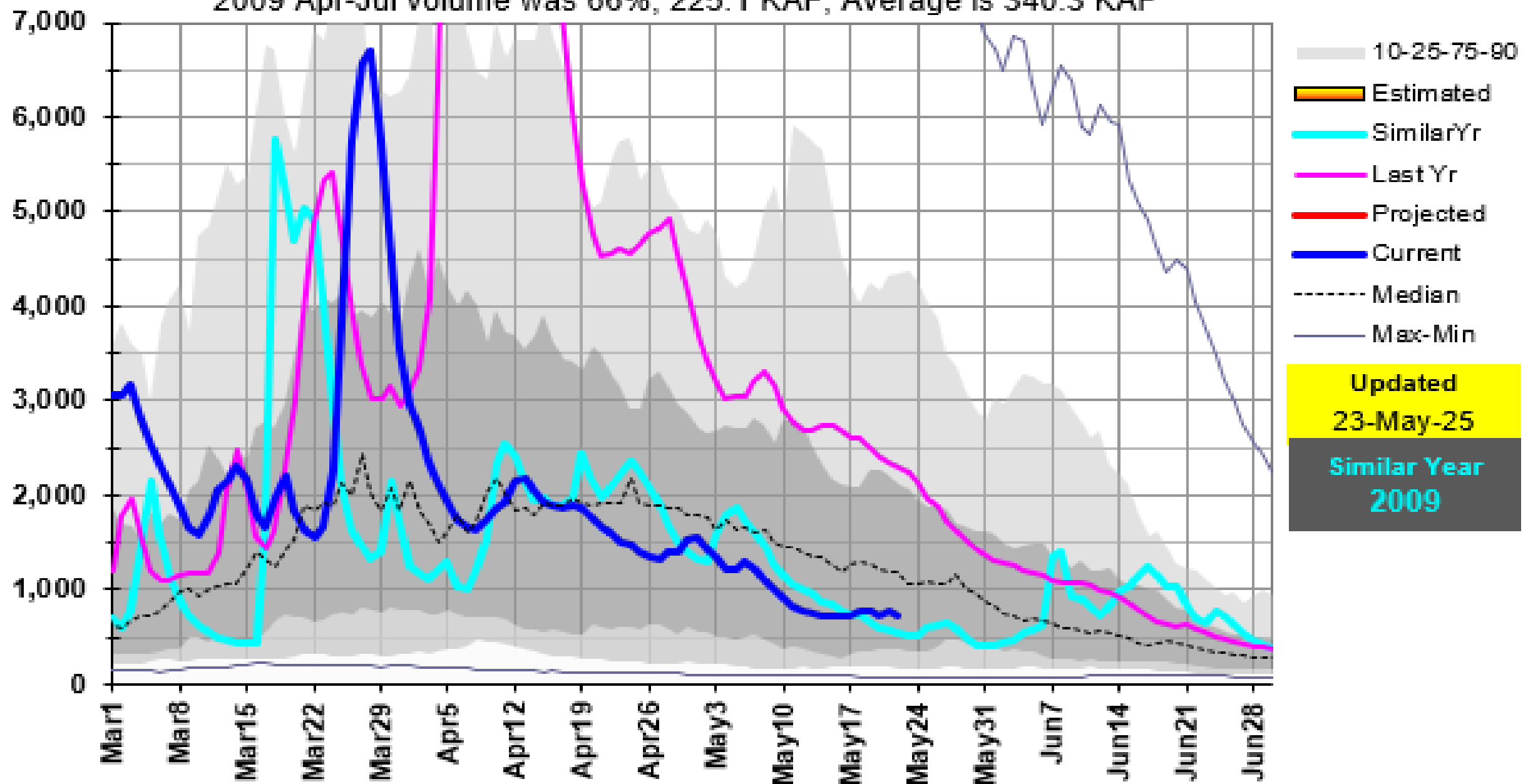
Forecast Created: 05/22/2025 14:30 PDT
Plot Created: 05/23/2025 07:19 PDT

Observations Provided by BPA

13181000: Owyhee R near Rome, OR

2009 Apr-Jul volume was 66%, 225.1 KAF, Average is 340.3 KAF

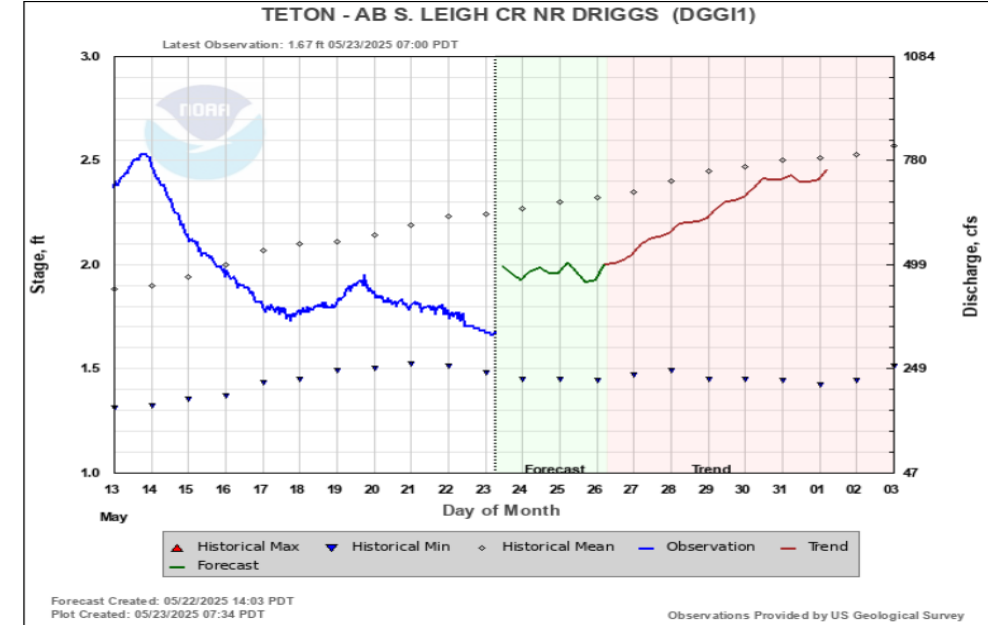
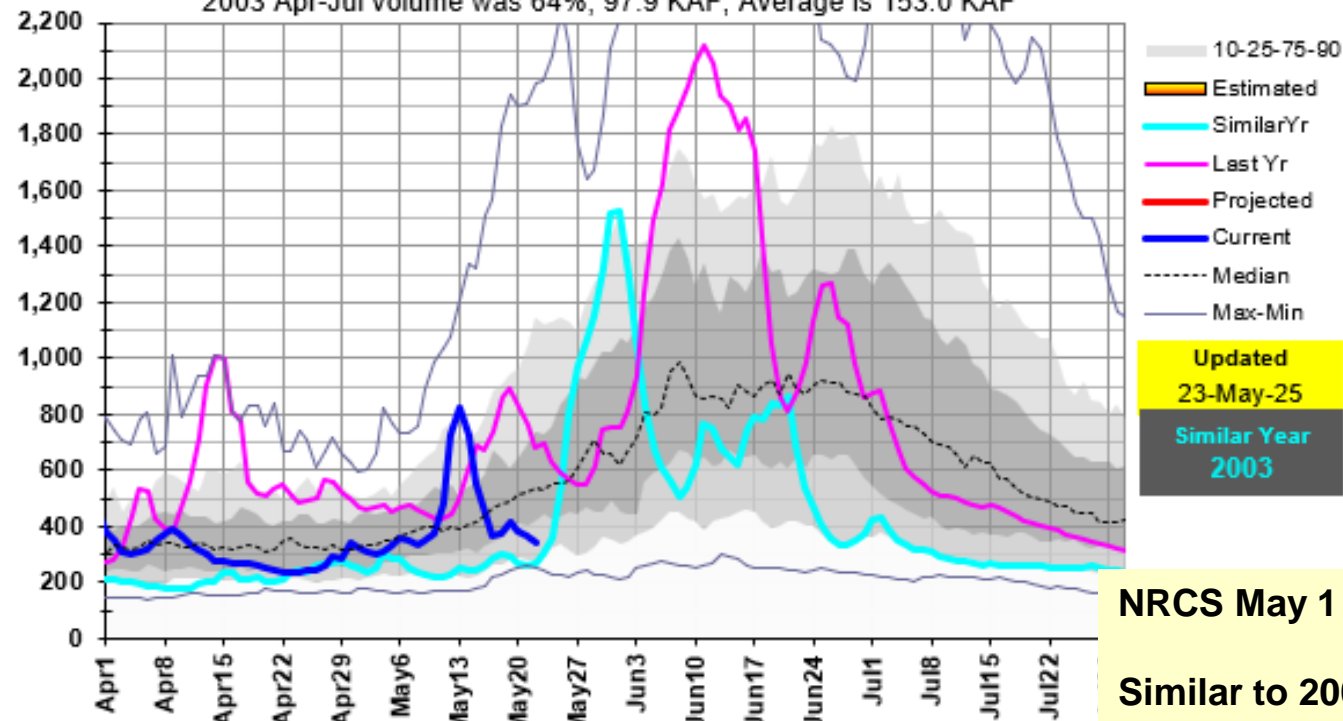
Mean Daily CFS



13052200: Teton R above South Leigh Ck near Driggs, ID

2003 Apr-Jul volume was 64%, 97.9 KAF, Average is 153.0 KAF

Mean Daily CFS



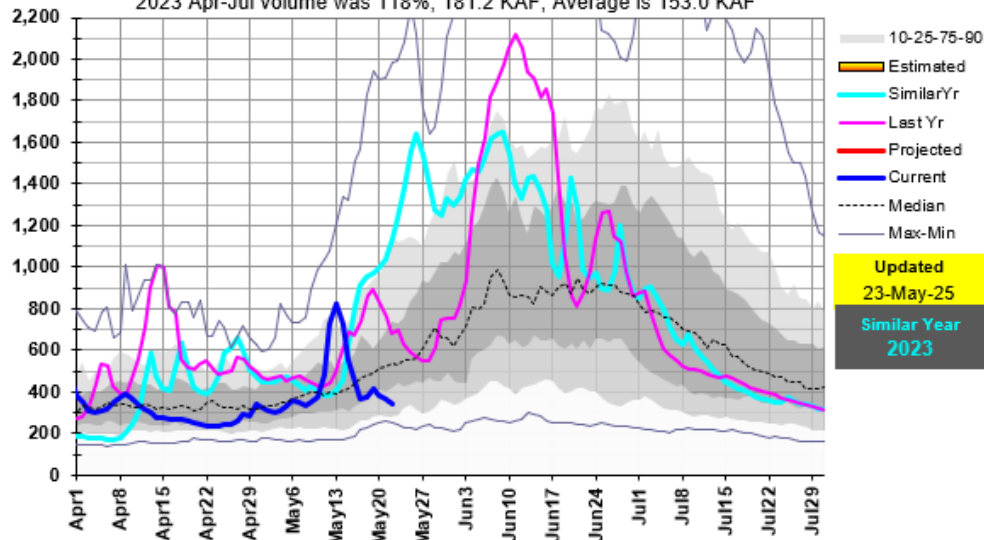
NRCS May 1 May-Jul Forecast is for 111 KAF.

Similar to 2003 with another increase and snowmelt peak from reaming snow.
Need more to analysis this basin with the snow2flow relationship.

13052200: Teton R above South Leigh Ck near Driggs, ID

2023 Apr-Jul volume was 118%, 181.2 KAF, Average is 153.0 KAF

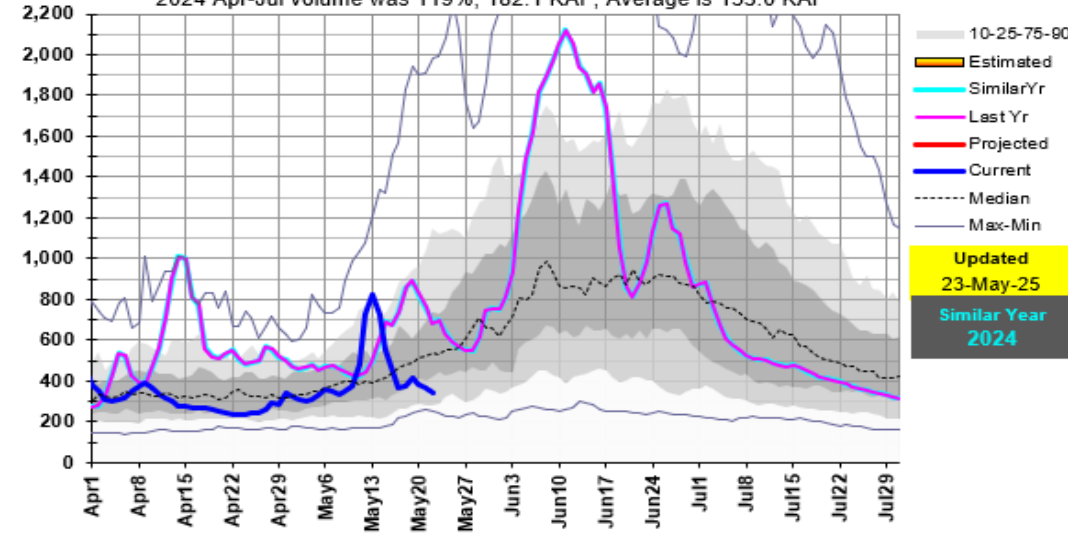
Mean Daily CFS



13052200: Teton R above South Leigh Ck near Driggs, ID

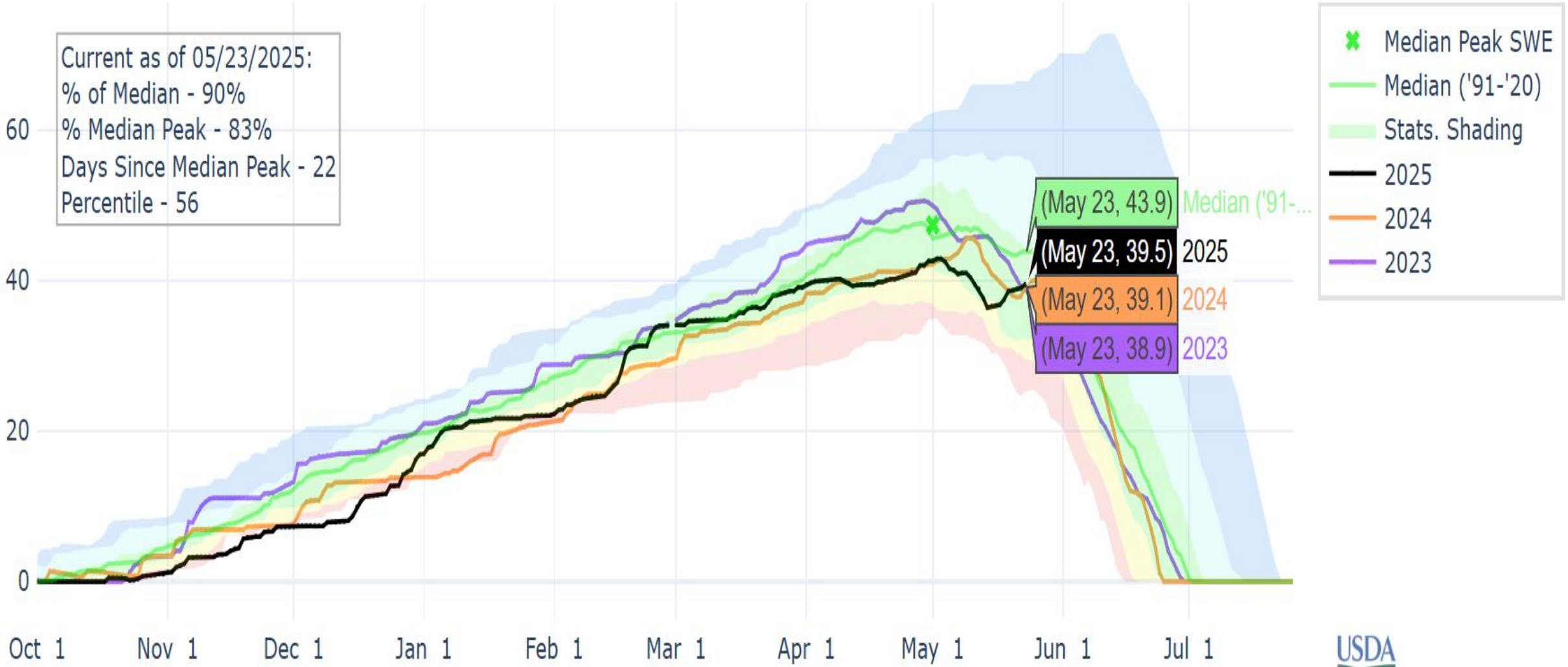
2024 Apr-Jul volume was 119%, 182.1 KAF, Average is 153.0 KAF

Mean Daily CFS



GRAND TARGHEE, WY (1082) SNOW WATER EQUIVALENT

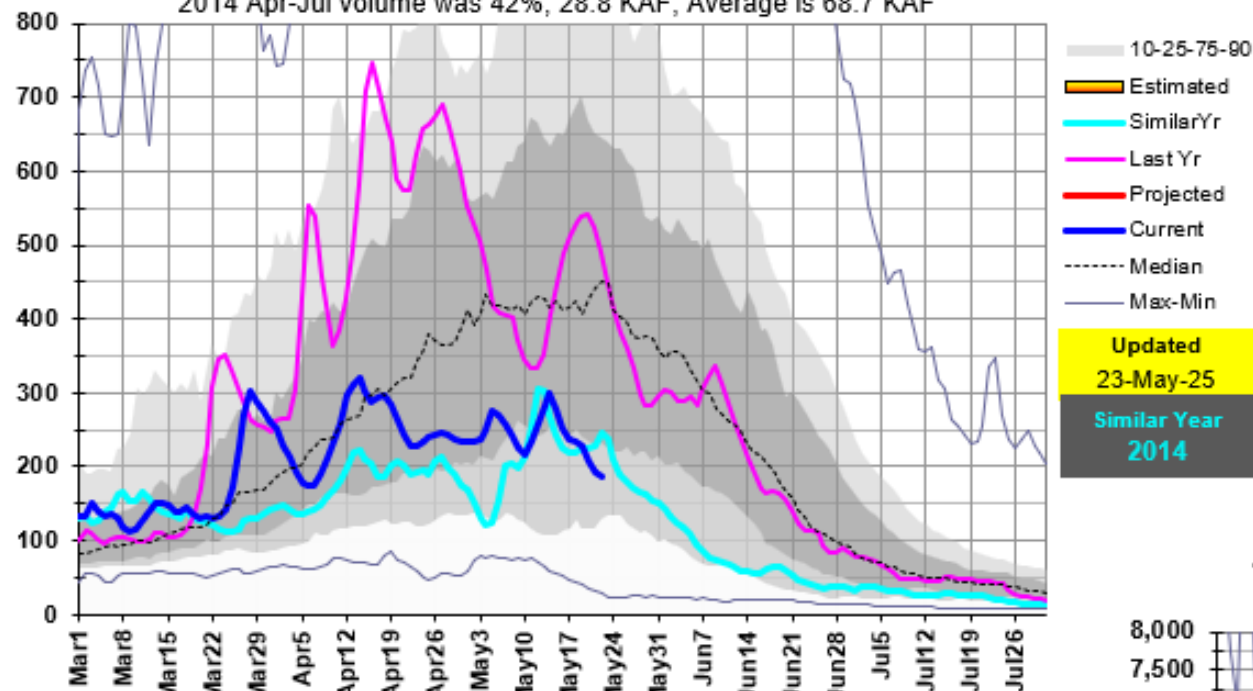
Snow Water Equivalent (in.)



13105000: Salmon Falls Ck near San Jacinto, NV

2014 Apr-Jul volume was 42%, 28.8 KAF, Average is 68.7 KAF

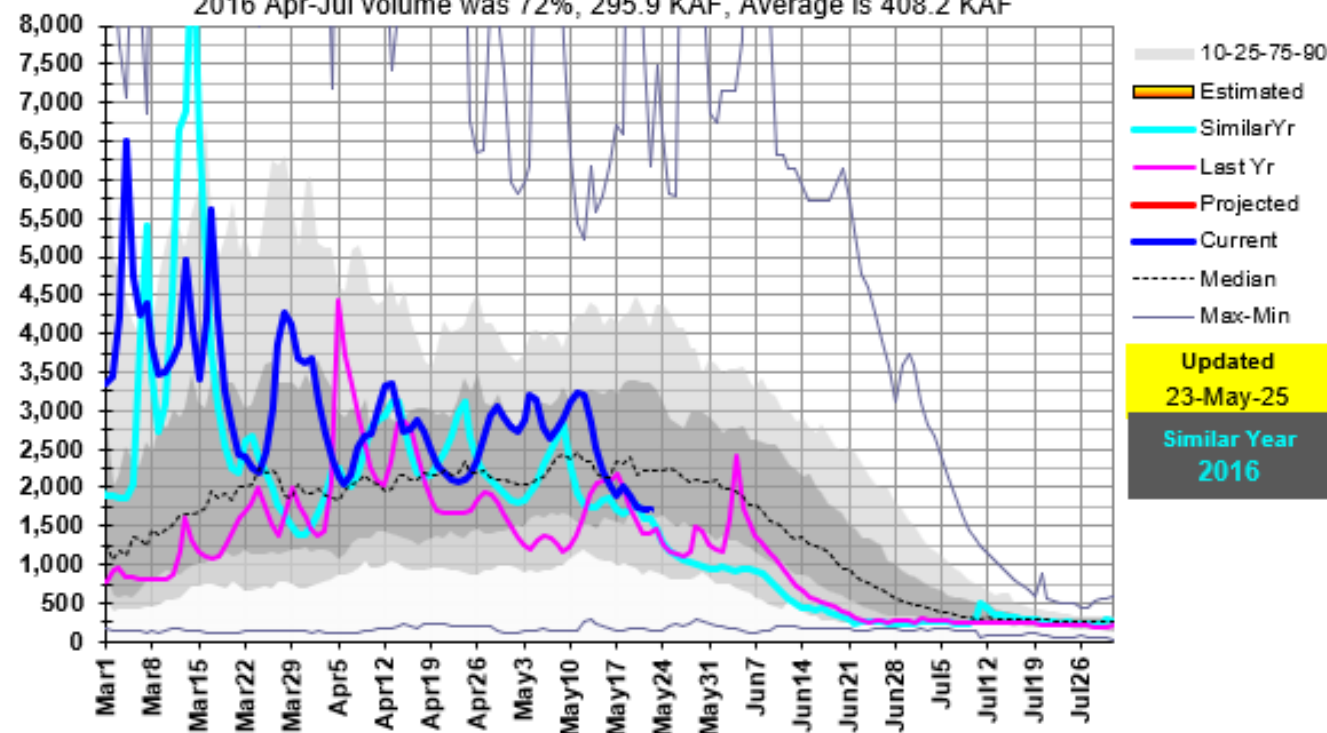
Mean Daily CFS



13266000: Weiser R near Weiser, ID

2016 Apr-Jul volume was 72%, 295.9 KAF, Average is 408.2 KAF

Mean Daily CFS



Hells Canyon Flow Update for May 23, 2025

HCC_Flow <HCCFlow@idahopower.com>
To

↶

↷

→

⋮

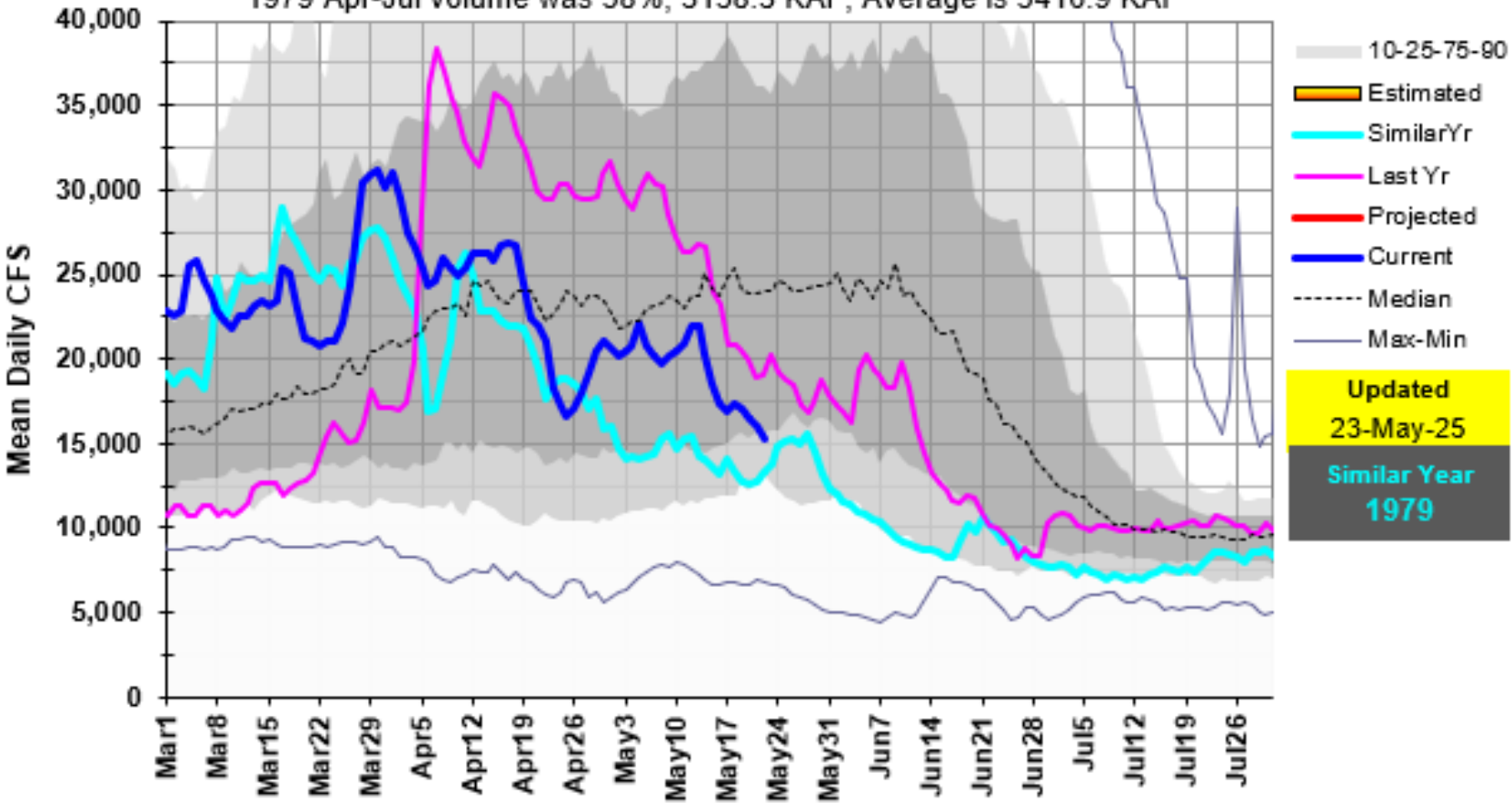
8:14 AM

Idaho Power is providing this May 23, 2025, update to keep boaters informed of flow conditions on the Snake River downstream from Hells Canyon Dam.

Inflows to Brownlee continue to recede as the summer season approaches. Outflows from Hells Canyon Dam have been reduced accordingly to facilitate the final refill of Brownlee Reservoir by mid-June. Boaters can expect outflows between approximately 10,000 cfs and 25,000 cfs. Please stay aware of changing river conditions and note that actual operations are subject to change in response to system reliability needs.

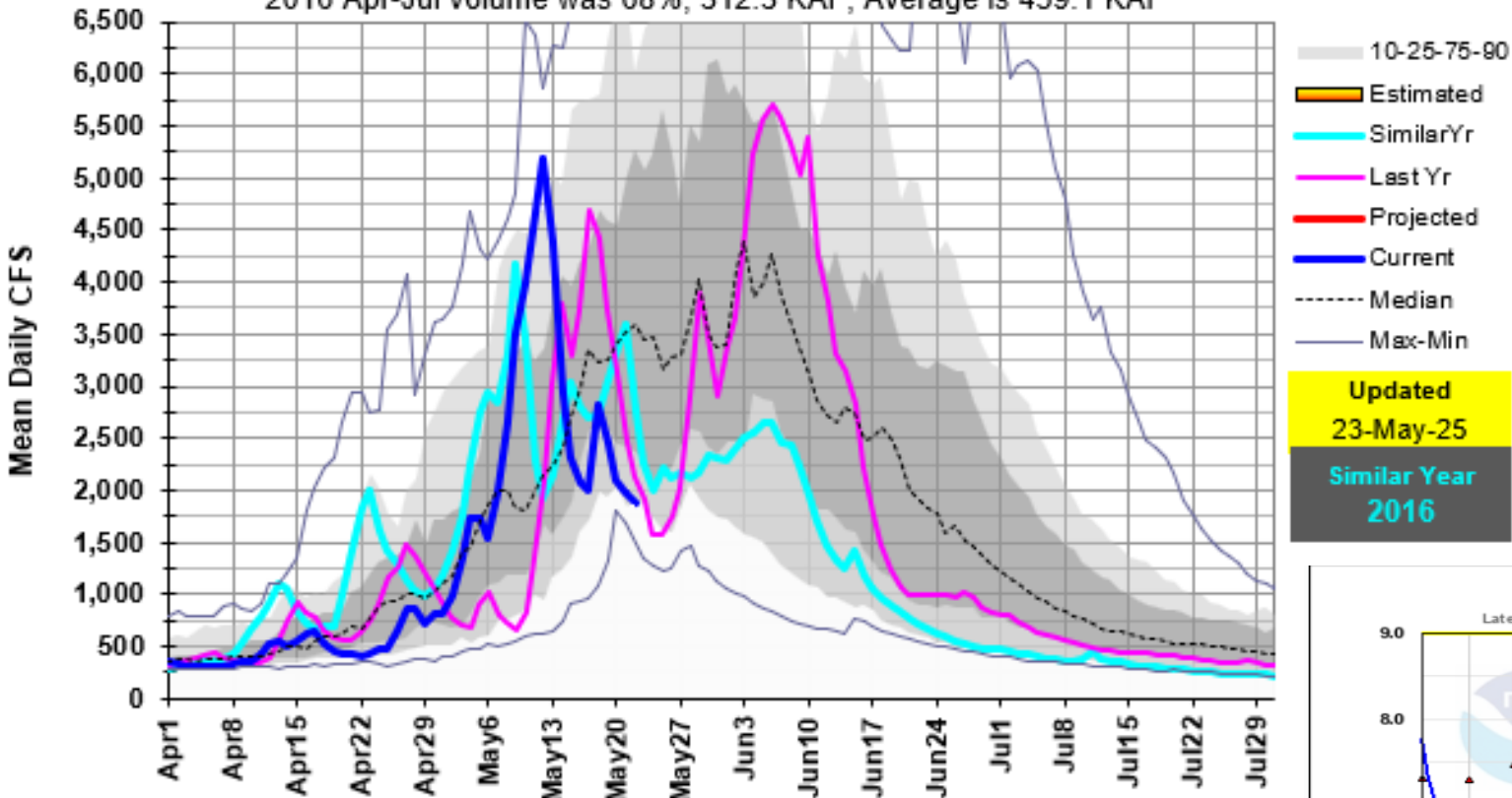
13269000: Snake R at Weiser, ID

1979 Apr-Jul volume was 58%, 3158.3 KAF, Average is 5416.9 KAF



13010065: Snake R above Jackson Lake at Flagg Ranch, WY

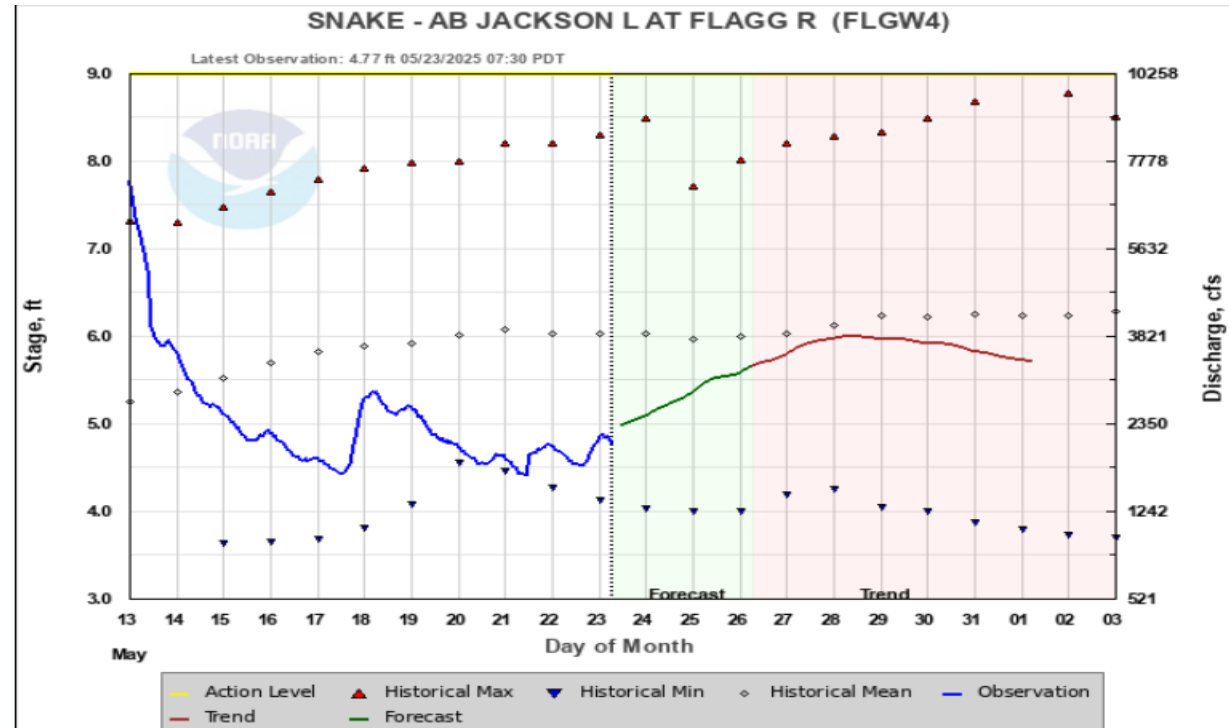
2016 Apr-Jul volume was 68%, 312.3 KAF, Average is 459.1 KAF



NRCS May 1 May-Jul Forecast is for 365 KAF.

Similar to 2003 with another increase from remaining snow.

Need more to analysis this basin with the snow2flow relationship.



Forecast Created: 05/22/2025 14:12 PDT
Plot Created: 05/23/2025 07:46 PDT

Observations Provided by US Geological Survey