

**Idaho & Montana
Snow Water
Equivalent Maps for
May 14, 2025**

Snow 2 Flow Summary May 14, 2025

**For MF, Main Salmon, Selway & Lochsa and
a few more - Owyhee, Bruneau and Salmon
Falls Creek**

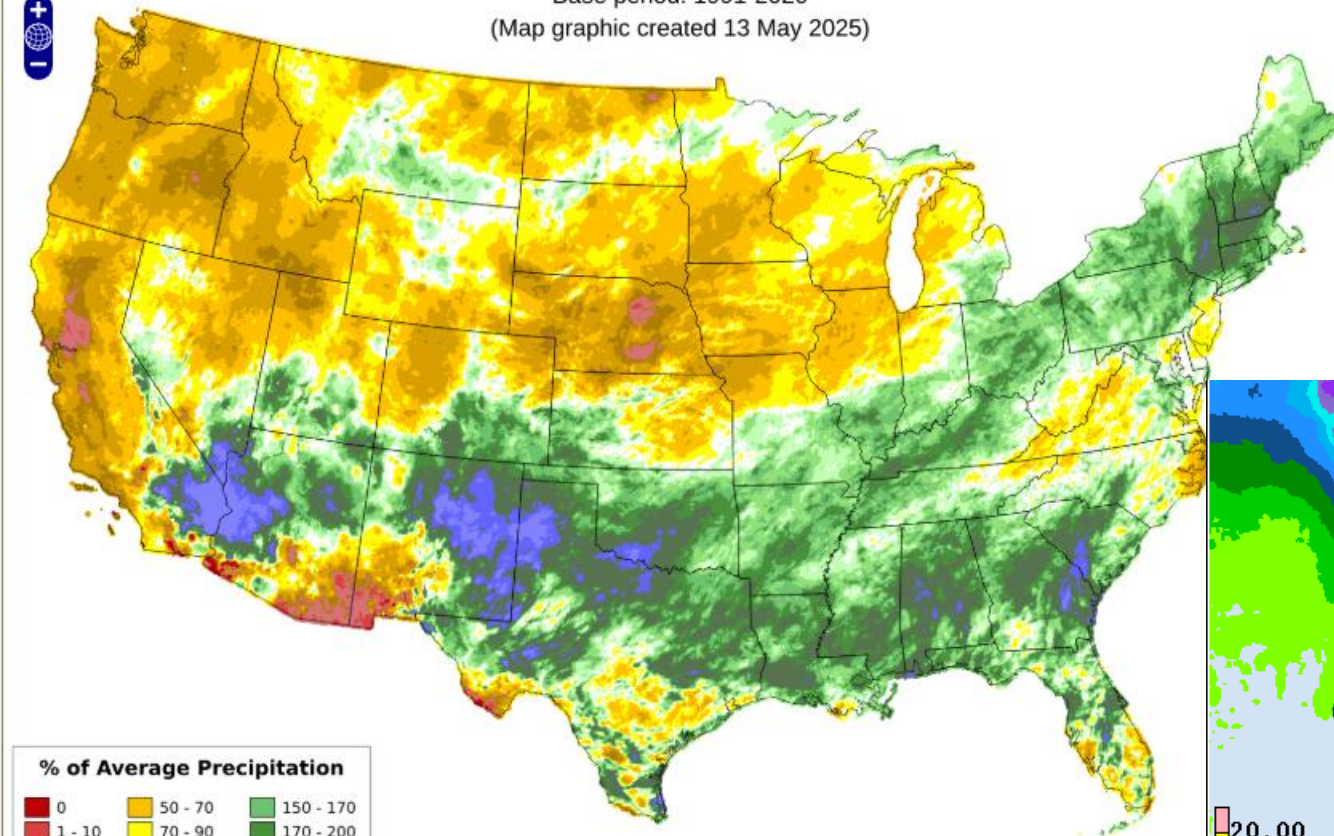


Total Precipitation Anomaly: Apr 2025 - 12 May 2025

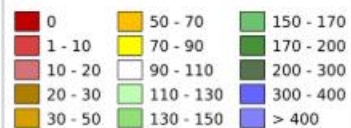
Period ending 7 AM EST 12 May 2025

Base period: 1991-2020

(Map graphic created 13 May 2025)



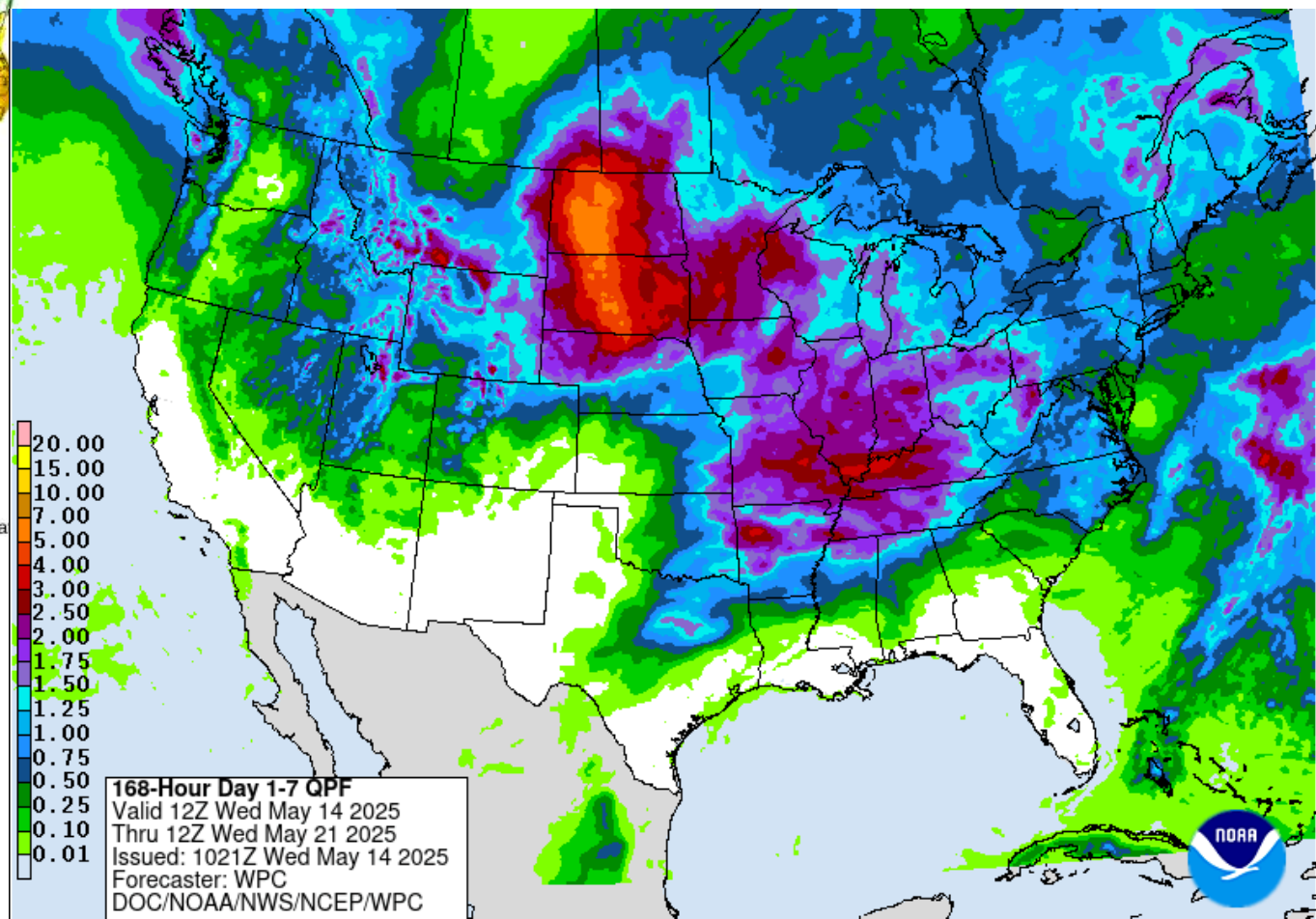
% of Average Precipitation



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Weather:

- Past – Apr 1-May 12 dry 30-70% of normal for most of Idaho.
- This week: 7-day total rain forecast favors YNP / MT area and central / eastern Idaho.



168-Hour Day 1-7 QPF

Valid 12Z Wed May 14 2025

Thru 12Z Wed May 21 2025

Issued: 1021Z Wed May 14 2025

Forecaster: WPC

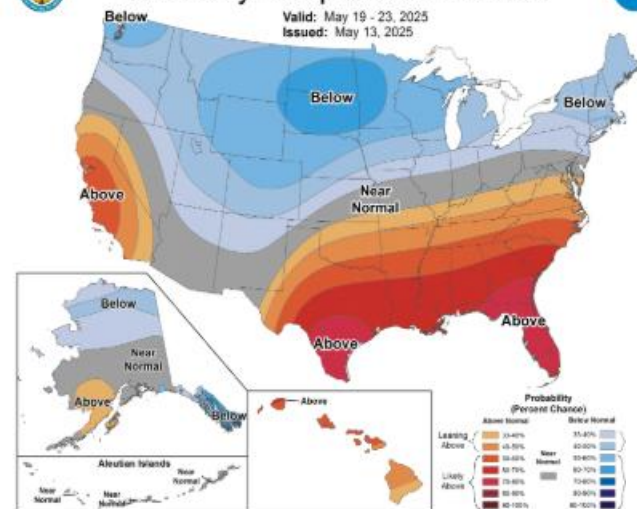
DOC/NOAA/NWS/NCEP/WPC





6-10 Day Temperature Outlook

Valid: May 19 - 23, 2025
Issued: May 13, 2025



6-10 Day Precipitation Outlook

Valid: May 19 - 23, 2025
Issued: May 13, 2025

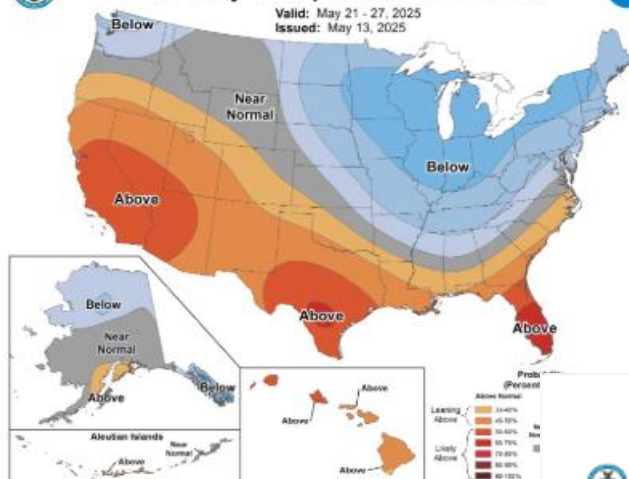


Short- and longer-term NWS Outlooks show current cool and wet weather moving east as near and below normal weather arrives for June.



8-14 Day Temperature Outlook

Valid: May 21 - 27, 2025
Issued: May 13, 2025



8-14 Day Precipitation Outlook

Valid: May 21 - 27, 2025
Issued: May 13, 2025

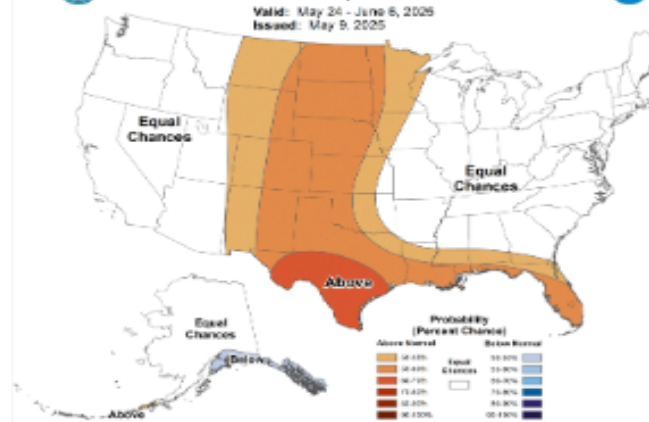


Temperature Probability



Weeks 3-4 Temperature Outlook

Valid: May 26 - June 6, 2025
Issued: May 9, 2025

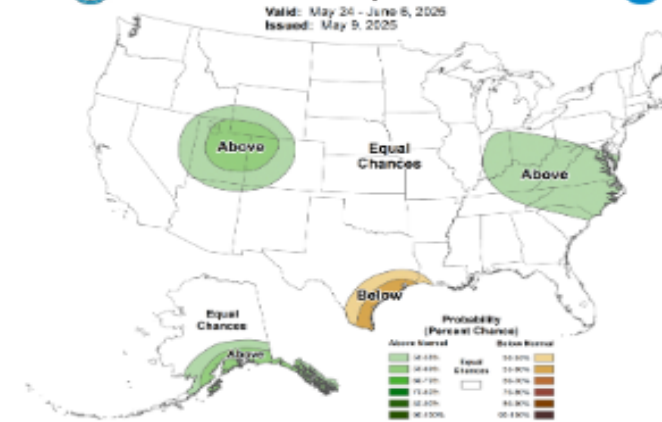


Precipitation Probability



Weeks 3-4 Precipitation Outlook

Valid: May 26 - June 6, 2025
Issued: May 9, 2025



Basically, what we see is what we get until the weather pattern changes... one forecast suggest a cool wet 2nd half of May for PNW and summer weather pattern arrives for June.

Keep an eye on the sky and changing flows.

[Experimental Week 3-4 500mb Outlook](#)



**Tail of Time Zone Rapid
Salmon River
May 10, 2025 45,000 cfs**



BANNER SUMMIT, ID (312) SNOW WATER EQUIVALENT

Reset Range

Current as of 05/13/2025:
% of Median - 29%
% Median Peak - 18%
Days Since Median Peak - 32
Percentile - 18

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 SWE 30% This is probably one of the fastest melts since daily SWE data starts.

Similar years --- 2016 & 2013 are best match for snow and flow until we see how much rains falls this month.

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.

* Median Peak SWE
— Median ('91-'20)
— Stats. Shading
— 2025
— 2016
— 2013

Snow Water Equivalent (in.)

40
35
30
25
20
15
10
5
0

Oct 1

Nov 1

Dec 1

Jan 1

Feb 1

Mar 1

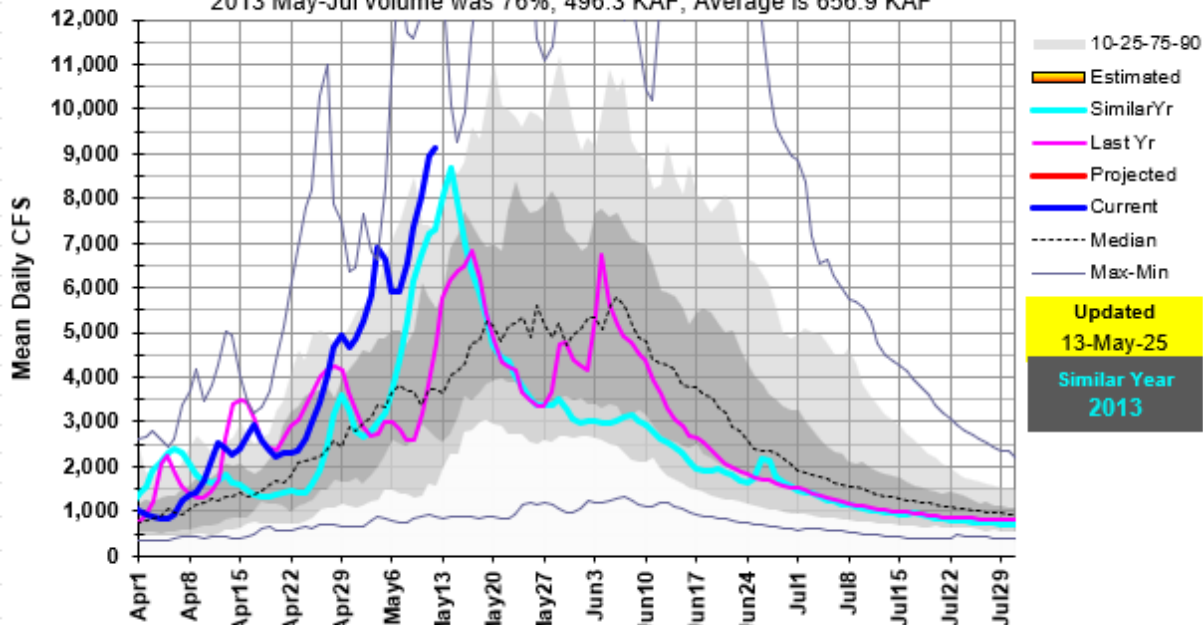
Apr 1

May 1

Jun 1

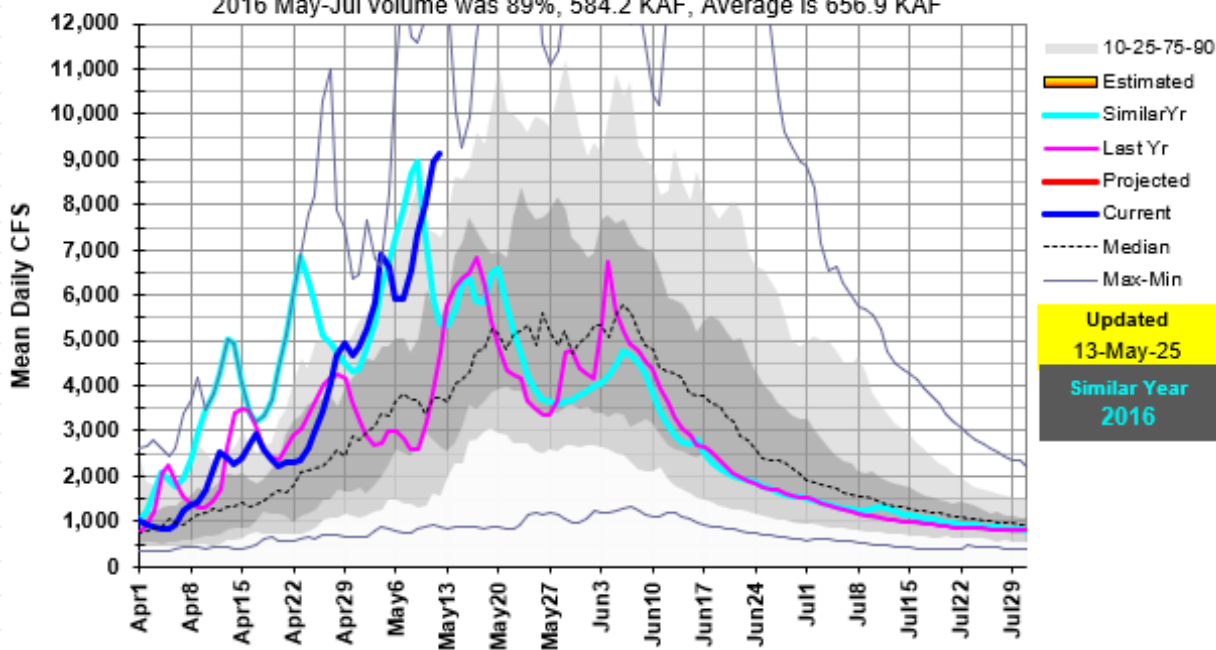
13309220: MF Salmon R at MF Lodge near Yellow Pine, ID

2013 May-Jul volume was 76%, 496.3 KAF, Average is 656.9 KAF



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

2016 May-Jul volume was 89%, 584.2 KAF, Average is 656.9 KAF



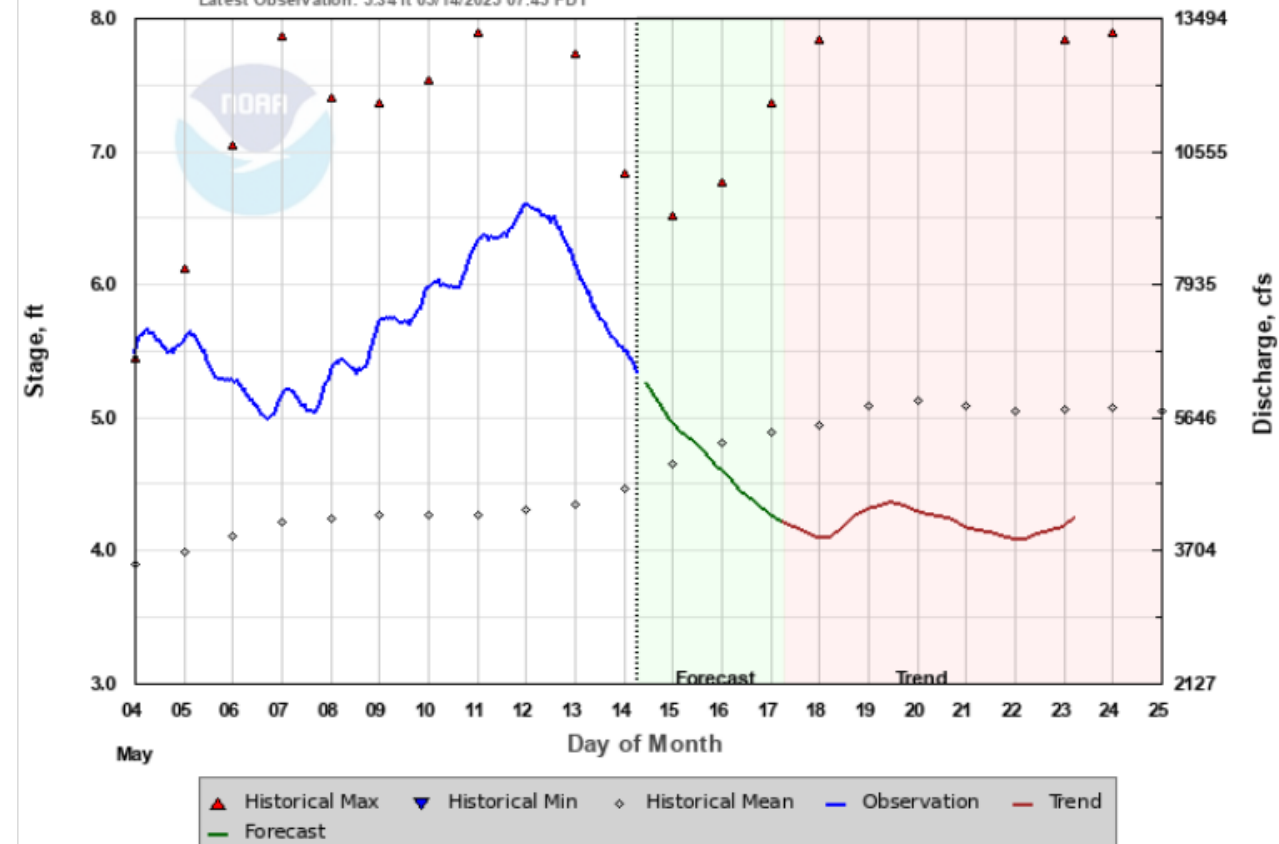
Flow for years that had a similar snow peak and melt.

NRCS May 1 May-Jul Forecast is for 105% and 690 KAF which is higher than both these years.

This cool wet weather will delay the melt and push flow out farther. We should see another increase when warm weather returns to melt remaining high elevations snow. Time will tell...

MF SALMON - MIDDLE FORK LODGE (MIDI1)

Latest Observation: 5.34 ft 05/14/2025 07:45 PDT



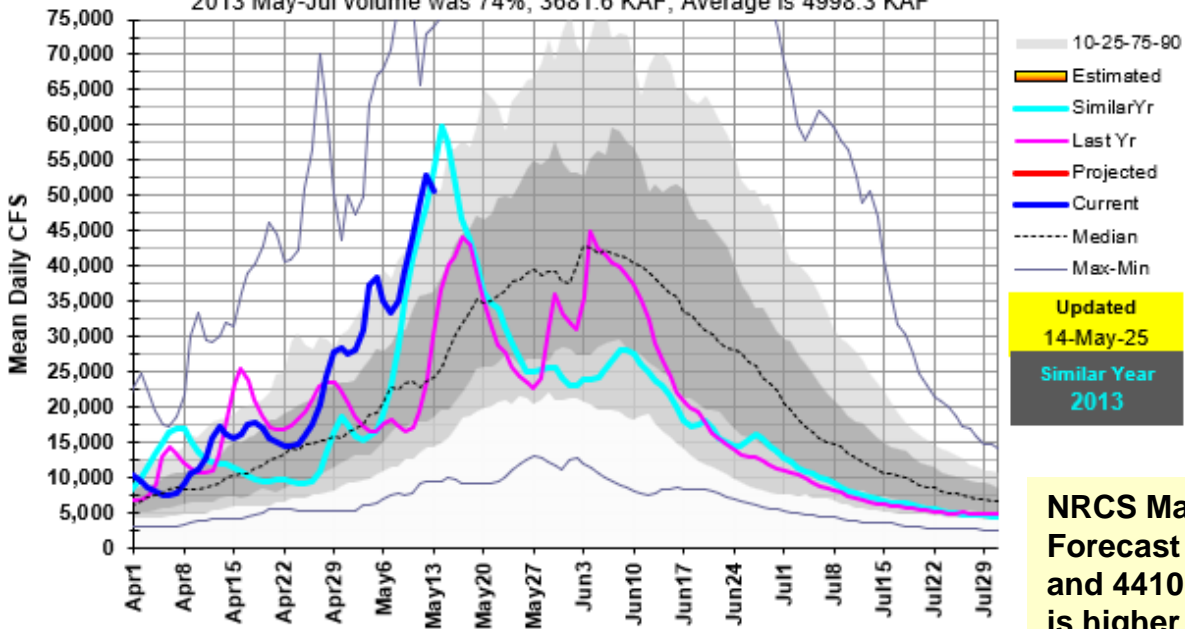
Forecast Created: 05/13/2025 14:06 PDT

Plot Created: 05/14/2025 07:56 PDT

Observations Provided by US Geological Survey

13317000: Salmon R at White Bird, ID

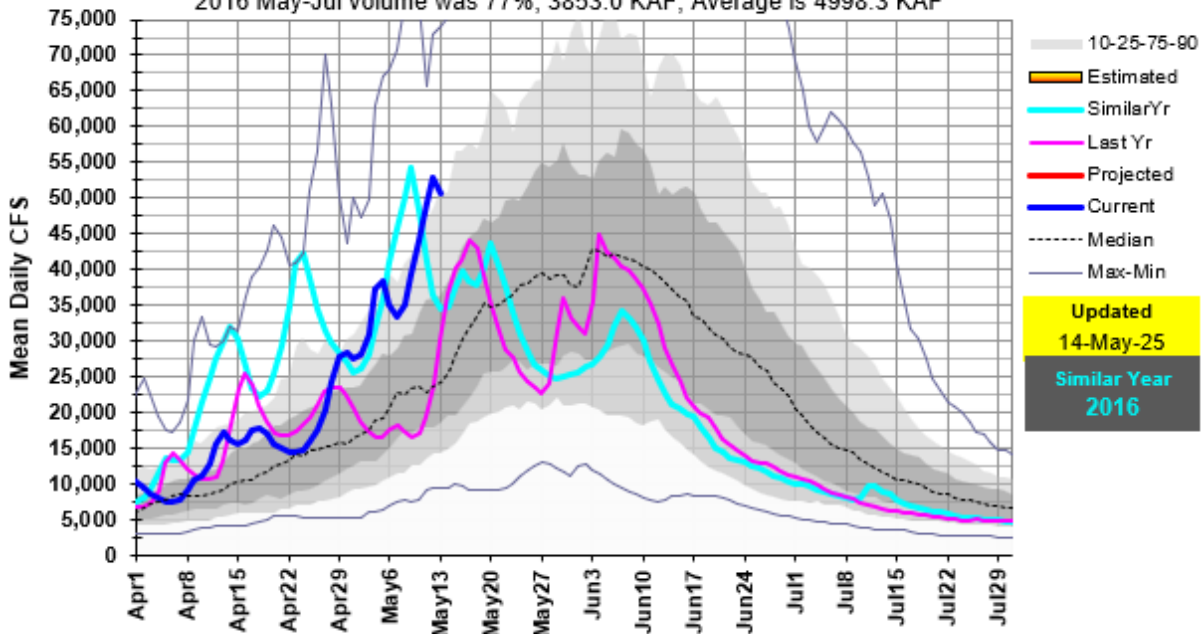
2013 May-Jul volume was 74%, 3681.6 KAF, Average is 4998.3 KAF



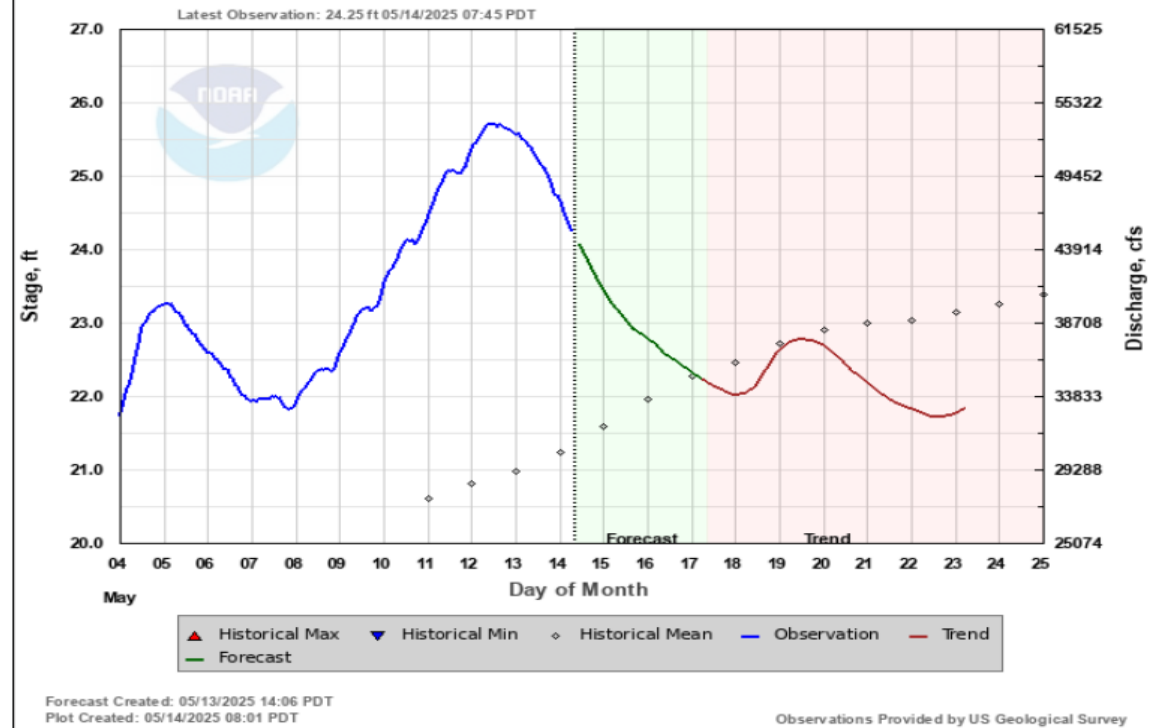
NRCS May 1 May-Jul Forecast is for 92% and 4410 KAF which is higher than both these years.

13317000: Salmon R at White Bird, ID

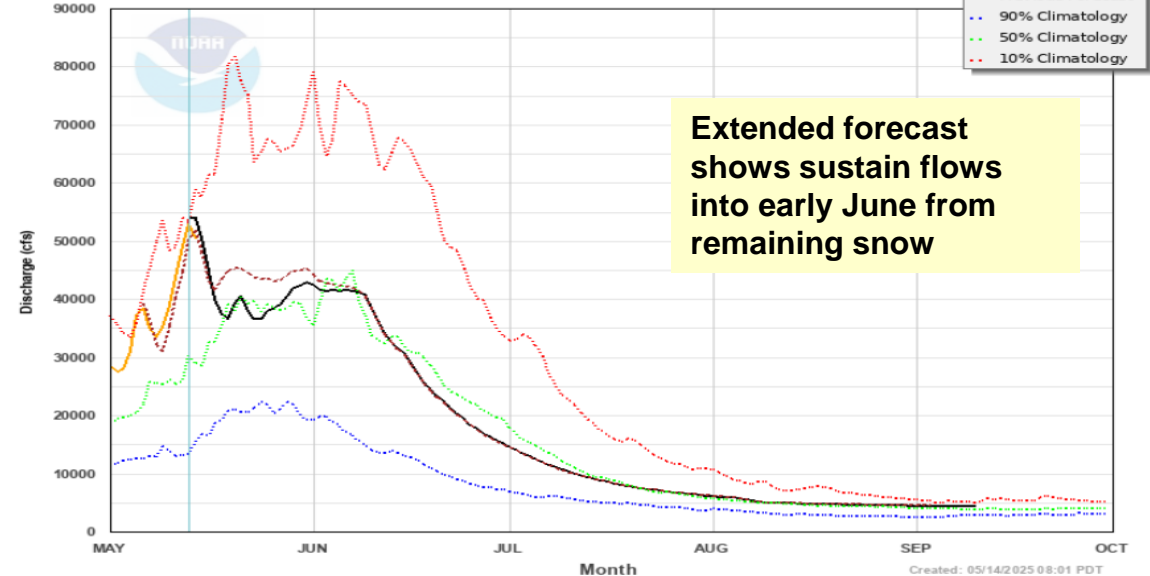
2016 May-Jul volume was 77%, 3853.0 KAF, Average is 4998.3 KAF



SALMON - AT WHITEBIRD (WHB11)

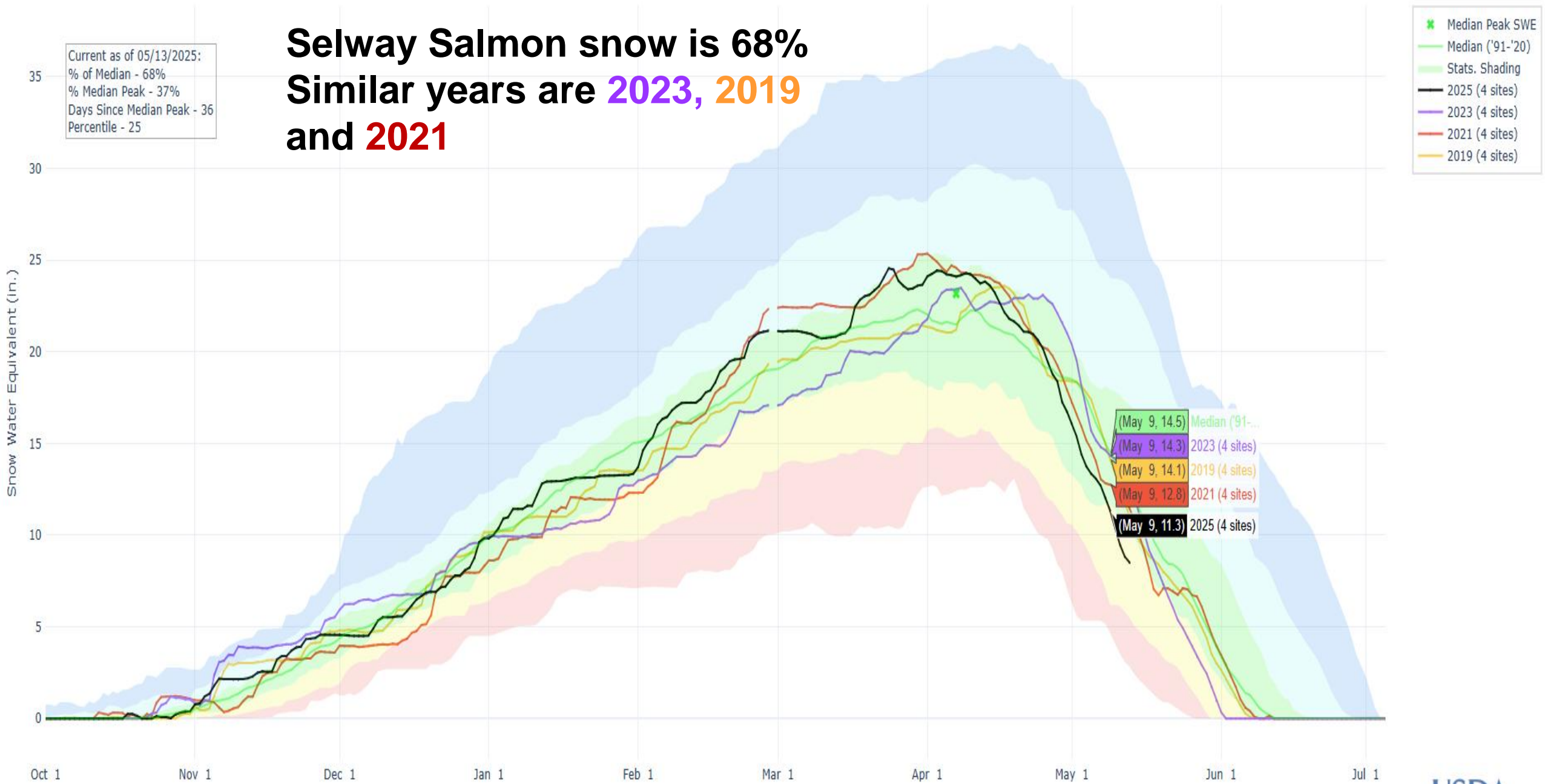


STP Extended Forecast SALMON-AT WHITEBIRD (WHB11) Forecast Period 05-12 to 09-09



**Last rapid on Selway River
May 4, 2025 12,500 cfs**



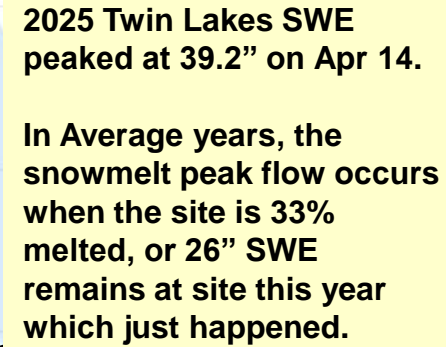


SELWAY RIVER AND TWIN LAKES SNOTELSITE

Summary of all years by max SWE magnitude

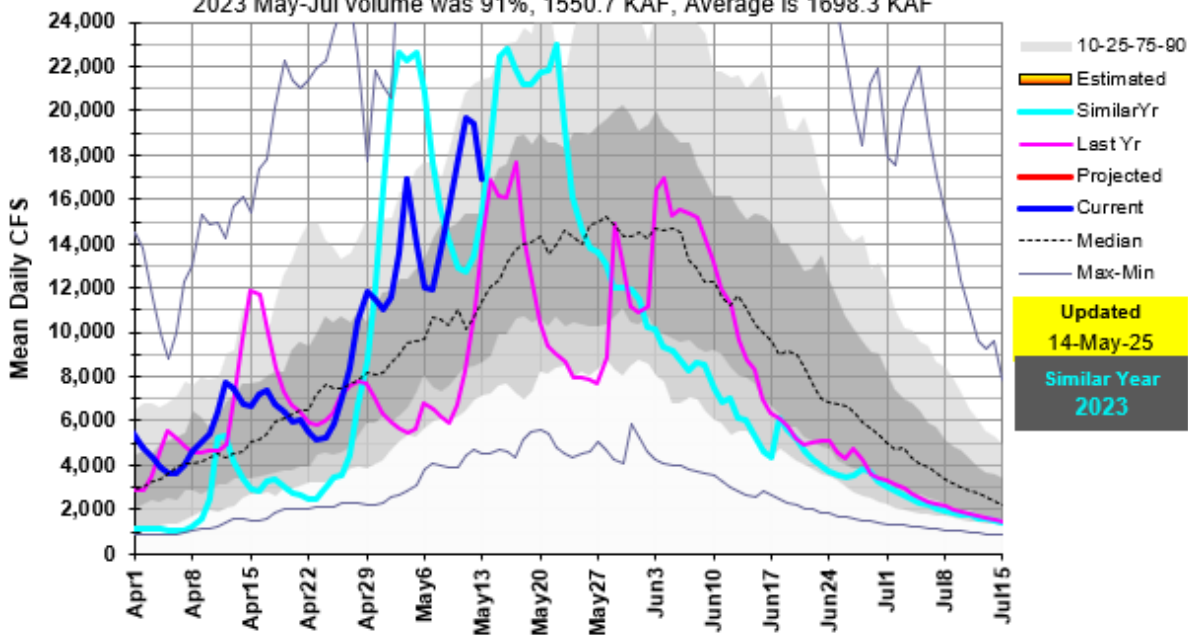
Note - this analysis uses all years available and did not eliminate potential non-snowmelt peaks

Twin Lakes SWE is 80%
Similar years are 2020,
2019, 2023 and 2021.



13336500: Selway R near Lowell, ID

2023 May-Jul volume was 91%, 1550.7 KAF, Average is 1698.3 KAF



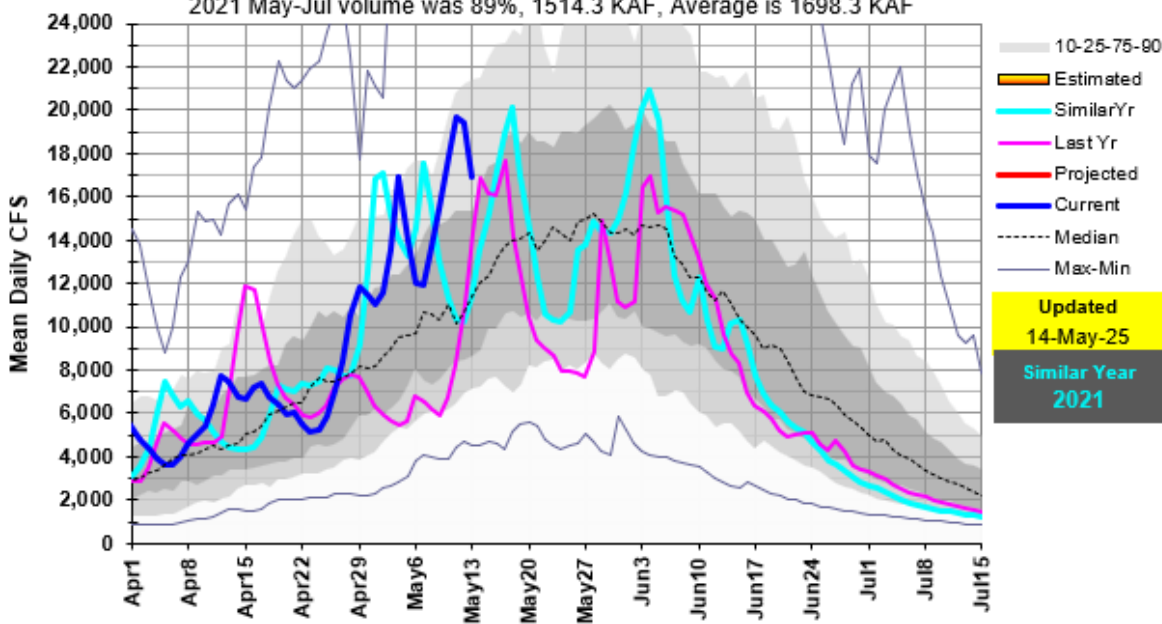
Flow for years that had a similar snow peak and melt.

NRCS May 1 May-Jul Forecast is for 90% and 1470 KAF which is lower than all these years.

With the arrival of cool wet weather when snowmelt was reaching peak, expect another peak when warm weather returns. Duals peaks often happen on the Selway as seen these Similar Years.

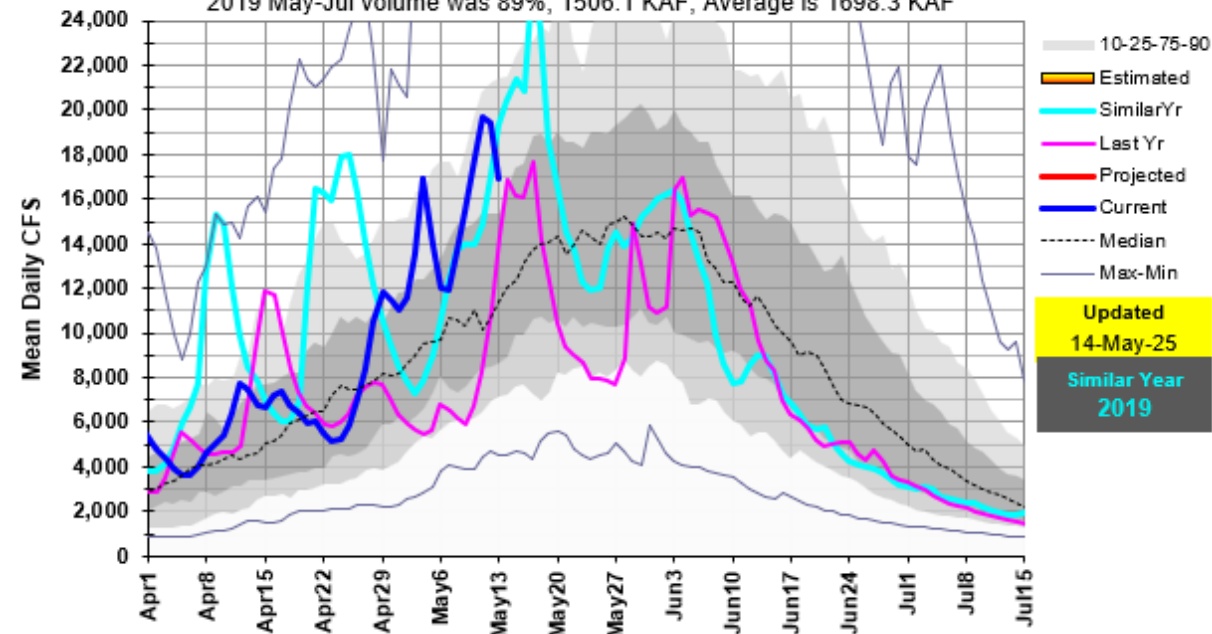
13336500: Selway R near Lowell, ID

2021 May-Jul volume was 89%, 1514.3 KAF, Average is 1698.3 KAF



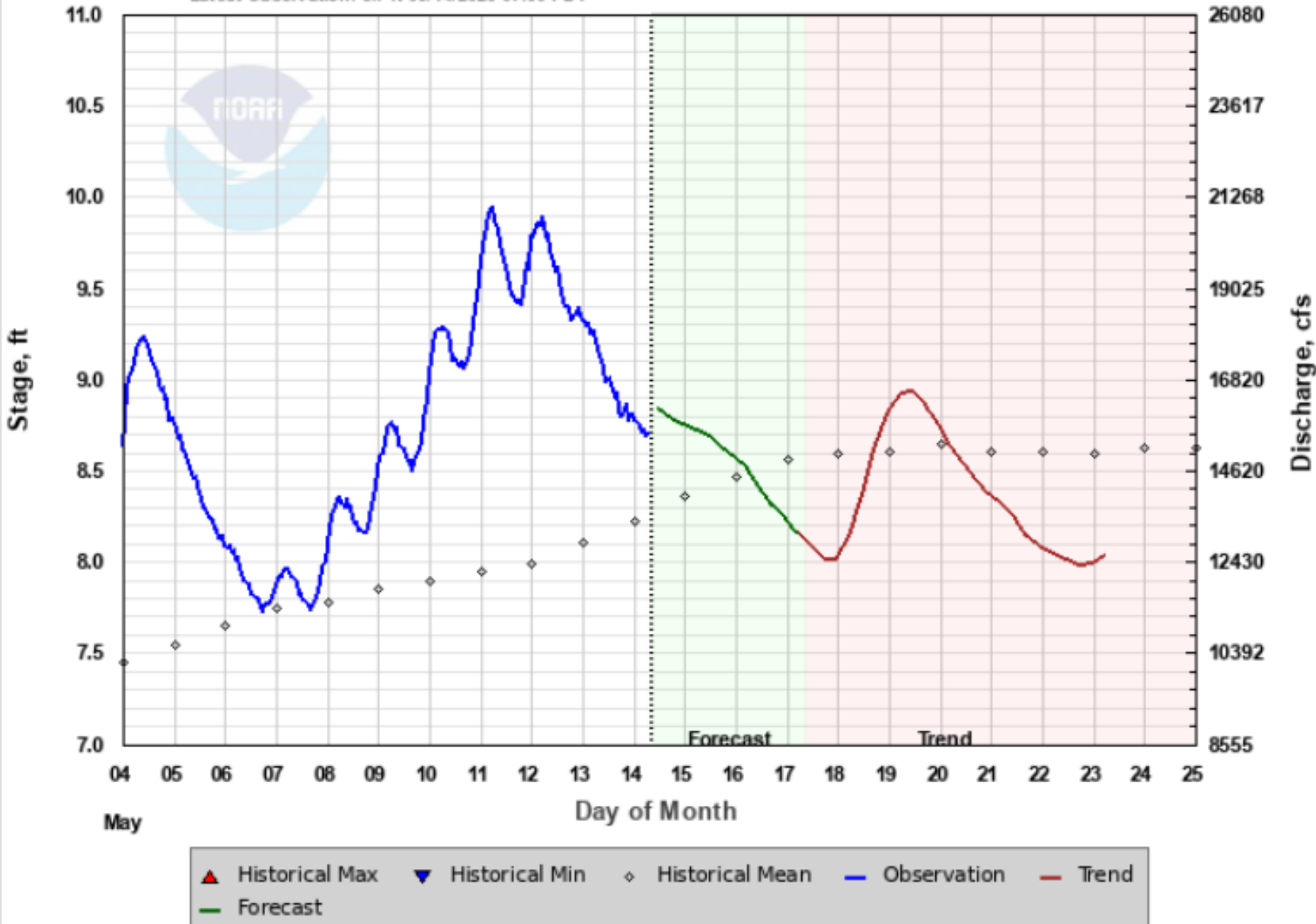
13336500: Selway R near Lowell, ID

2019 May-Jul volume was 89%, 1506.1 KAF, Average is 1698.3 KAF



SELWAY - NEAR LOWELL (SEL1)

Latest Observation: 8.7 ft 05/14/2025 07:00 PDT



NWS graph shows previous peaks and **Forecast /Trend** decreasing with cool temps with another increase on the horizon.

Time will tell how high and when...

FYI – always interesting watching the diurnal change in flow from snowmelt. Lessons learned the Moose Juice section is lowest around the 3pm hour and diurnal peak flow occurs from yesterday's snowmelt occurs around 3-4 am.



Selway River & Falls
May 10, 2025 17,000 cfs



Lochsa snow is 39%
Similar years are 2021, 2023 and 1992.

Current as of 05/13/2025:
 % of Median - 39%
 % Median Peak - 22%
 Days Since Median Peak - 35
 Percentile - 17

Snow Water Equivalent (in.)

- ✱ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 2025 (2 sites)
- 2023 (2 sites)
- 2021 (2 sites)
- 1993 (2 sites)
- 1992 (2 sites)

Oct 1

Nov 1

Dec 1

Jan 1

Feb 1

Mar 1

Apr 1

May 1

Jun 1

(May 13, 15.0) Median ('91-'20)

(May 13, 11.3) 2021 (2 sites)

(May 13, 11.0) 2023 (2 sites)

(May 13, 5.9) 2025 (2 sites)

(May 13, 5.3) 1992 (2 sites)

LOLO PASS, ID (588) SNOW WATER EQUIVALENT

LOCSHA RIVER AND LOLO PASS SNOTEL

On average, peak streamflow for the Lochsa River near Lowell, Idaho occurs when Lolo Pass SNOTEL is between **55 and 80%** melted.

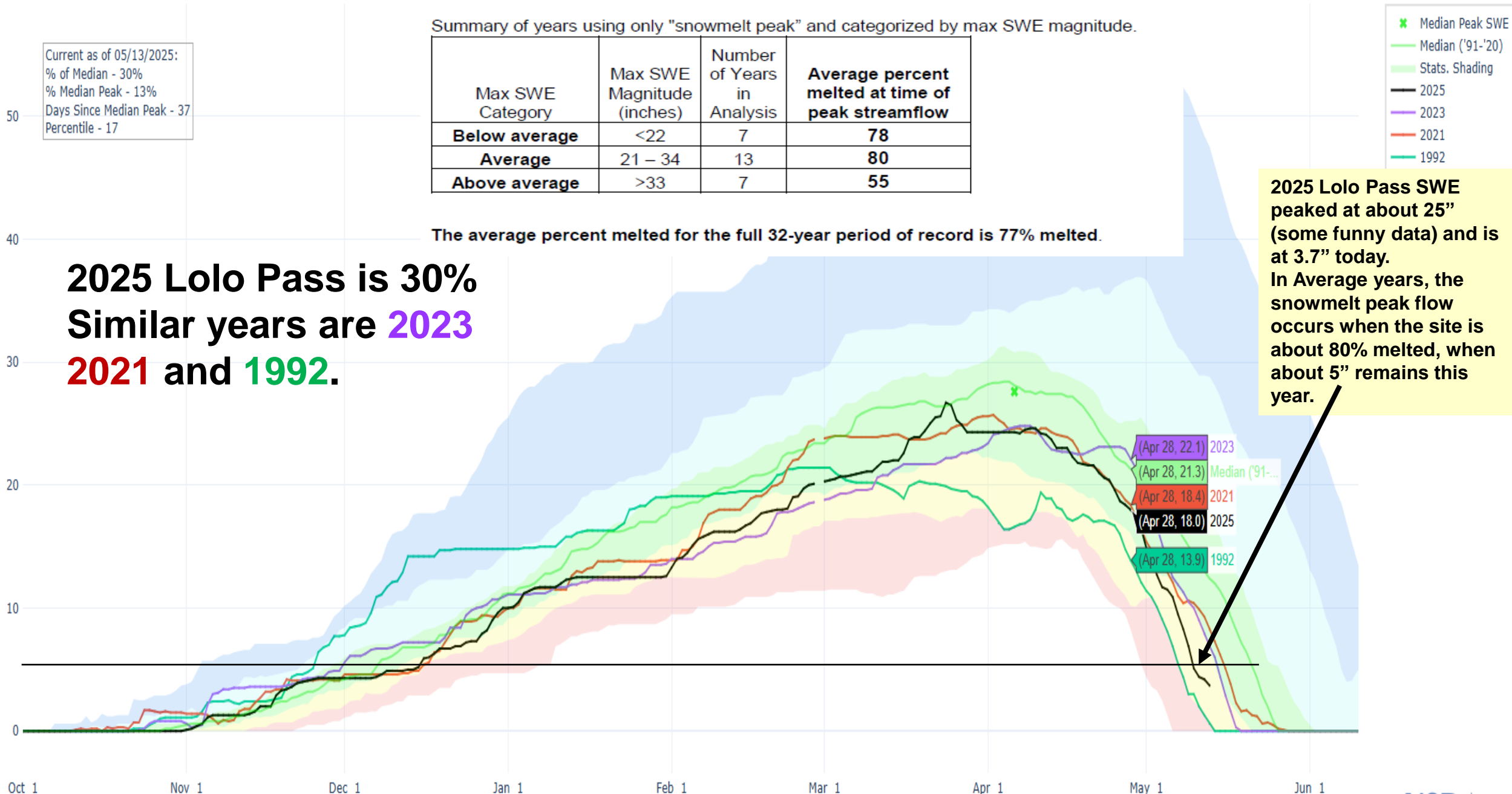
Summary of years using only "snowmelt peak" and categorized by max SWE magnitude.

Max SWE Category	Max SWE Magnitude (inches)	Number of Years in Analysis	Average percent melted at time of peak streamflow
Below average	<22	7	78
Average	21 – 34	13	80
Above average	>33	7	55

The average percent melted for the full 32-year period of record is 77% melted.

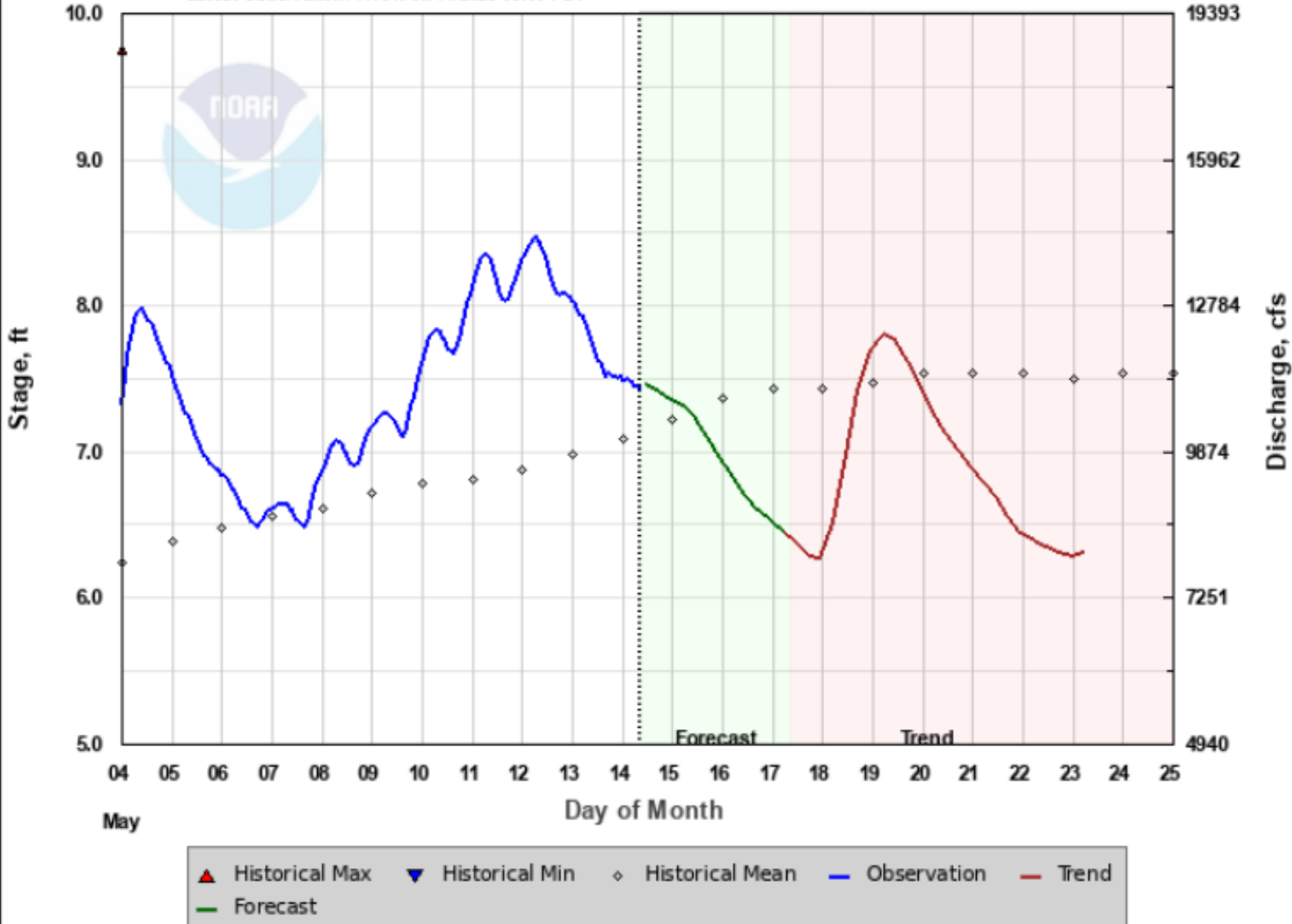
2025 Lolo Pass is 30%
Similar years are 2023
2021 and 1992.

Snow Water Equivalent (in.)



LOCHSA - NEAR LOWELL (LOC11)

Latest Observation: 7.43 ft 05/14/2025 08:00 PDT



Forecast Created: 05/13/2025 14:06 PDT

Plot Created: 05/14/2025 08:19 PDT

Observations Provided by US Geological Survey

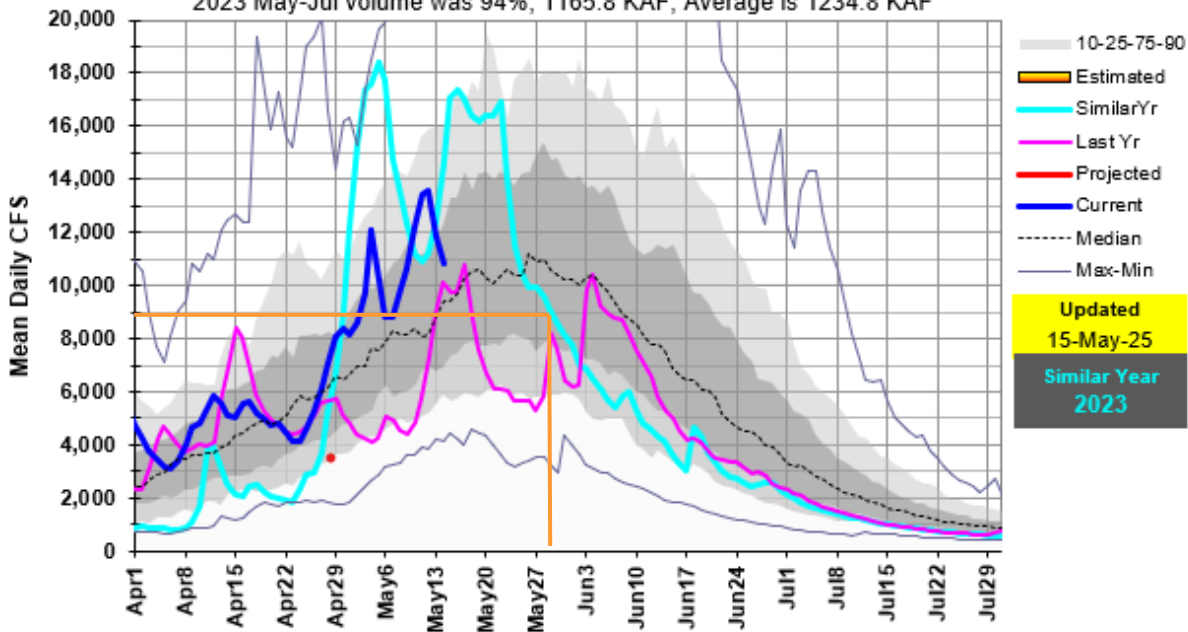
NWS graph shows previous peaks and **Forecast /Trend** decreasing with cool temps and another increase around the corner.

Time will tell how high and when...

Another peak is likely as cooler weather arrived as snow melt was reaching snow to flow relationships thresholds and snow remains to melt .

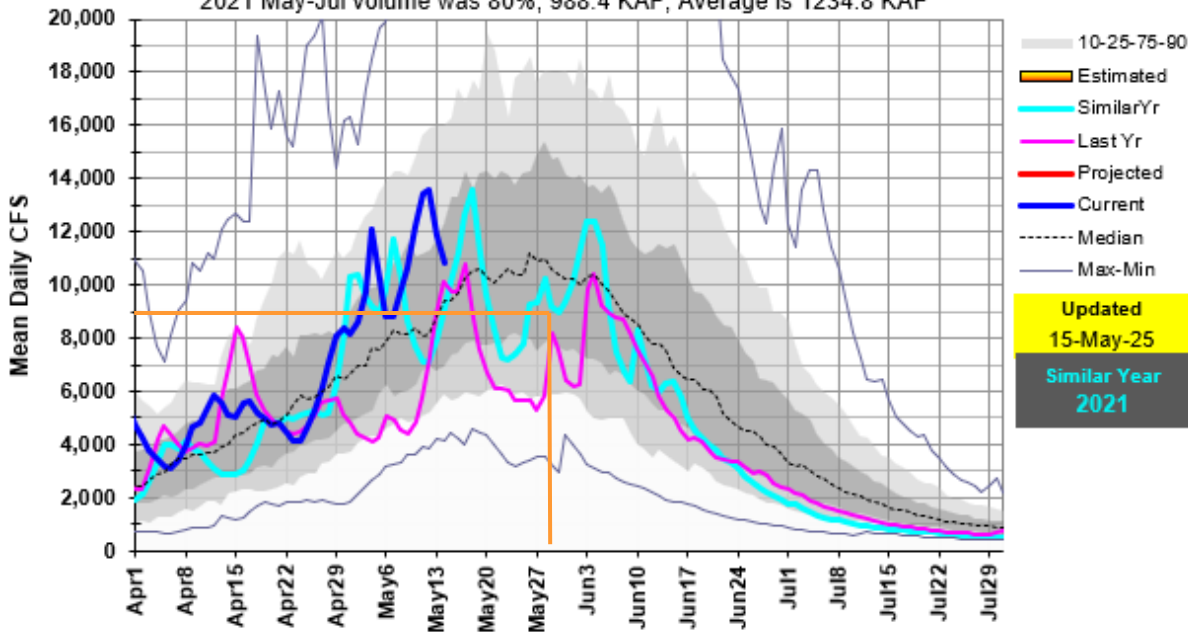
13337000: Lochsa R near Lowell, ID

2023 May-Jul volume was 94%, 1165.8 KAF, Average is 1234.8 KAF



13337000: Lochsa R near Lowell, ID

2021 May-Jul volume was 80%, 988.4 KAF, Average is 1234.8 KAF

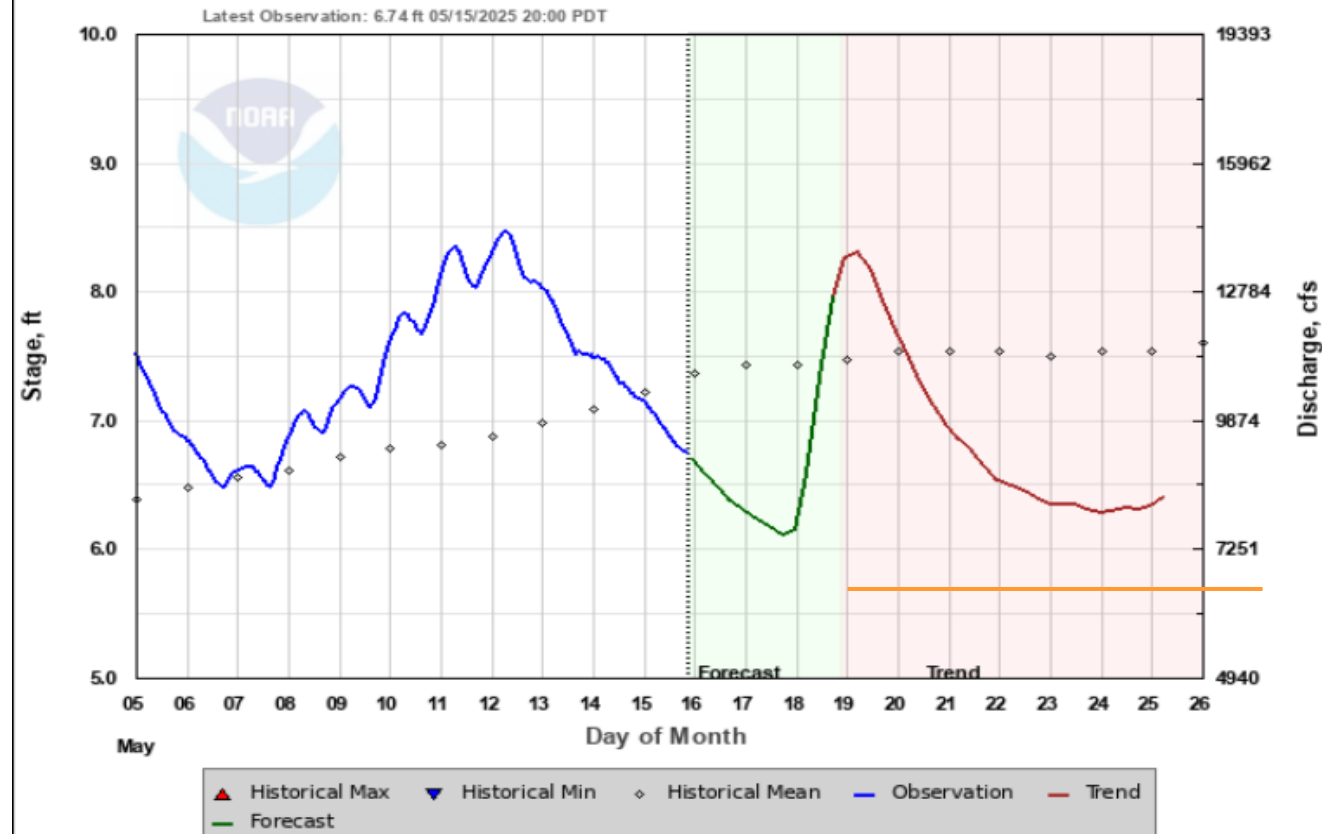


Flow for years that had a similar snow peak and melt.

NRCS May 1 May-Jul Forecast is for 79% and 925 KAF which is lower than 2023 and 2021 and better 1992.

With another increase likely, and based on similar snow peak / melt patterns, and similar precip, looks like flow levels should stay above 6500 cfs till after end of May. Unless wild or strange weather happens...

LOCHSA - NEAR LOWELL (LOC1)



Forecast Created: 05/15/2025 14:59 PDT
Plot Created: 05/15/2025 21:05 PDT

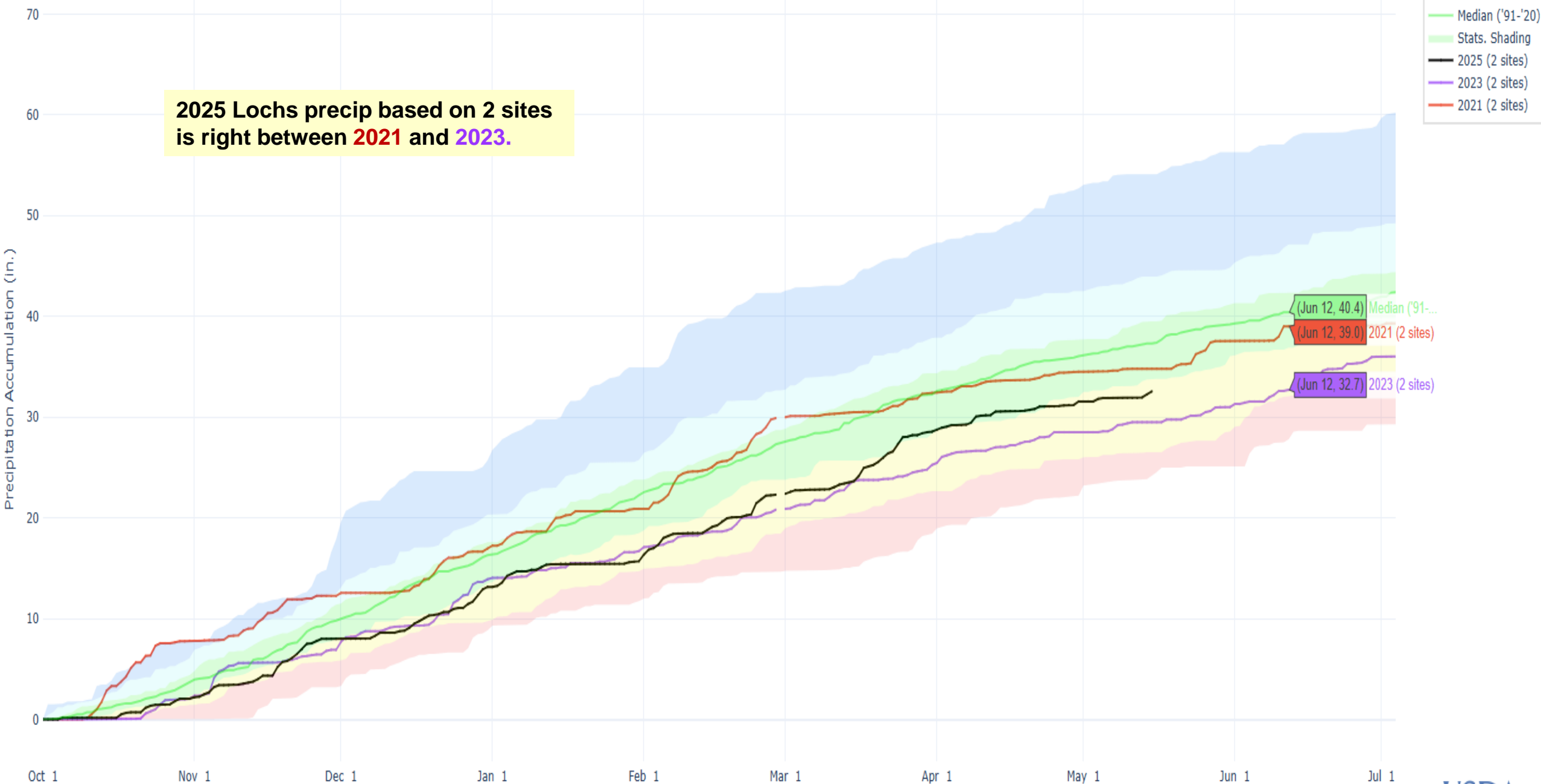
Observations Provided by US Geological Survey

PRECIPITATION ACCUMULATION IN LOCHSA

Reset Range

[Link to data: CSV / JSON](#)

[Station List](#)





Lochsa River
May 11, 2025 13,500 cfs



On average, the Salmon Falls Creek near San Jacinto, NV peak streamflow occurs when Magic Mountain SNOTEL is approximately 62% melted.

Summary by magnitude MAX SWE

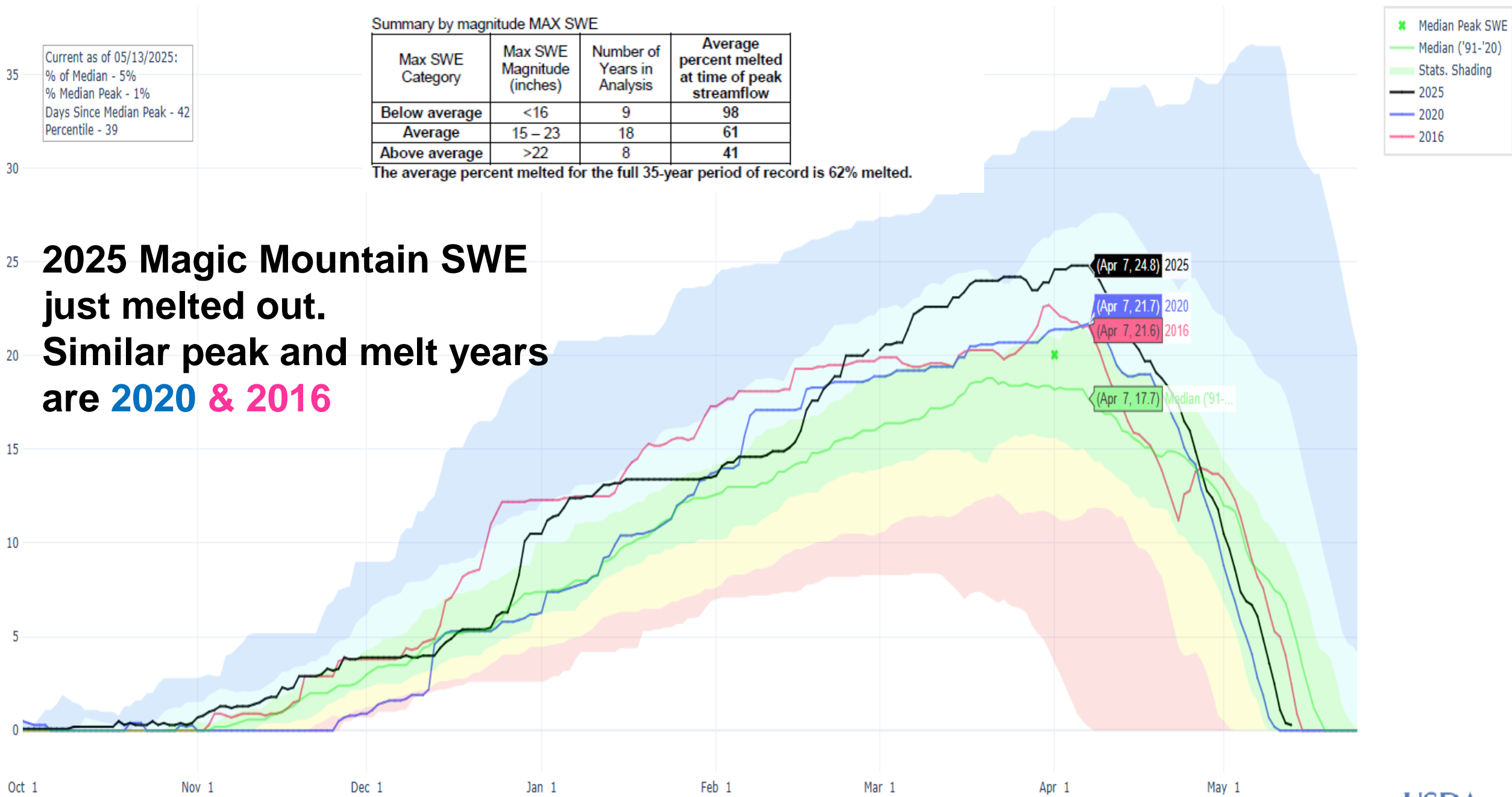
Max SWE Category	Max SWE Magnitude (inches)	Number of Years in Analysis	Average percent melted at time of peak streamflow
Below average	<16	9	98
Average	15 – 23	18	61
Above average	>22	8	41

The average percent melted for the full 35-year period of record is 62% melted.

Current as of 05/13/2025:
% of Median - 5%
% Median Peak - 1%
Days Since Median Peak - 42
Percentile - 39

2025 Magic Mountain SWE just melted out.
Similar peak and melt years are 2020 & 2016

Snow Water Equivalent (in.)



POLE CREEK R.S., NV (698) SNOW WATER EQUIVALENT

Salmon Falls Creek and Pole Creek SNOTEL SITE

On average, the Salmon Falls Creek near San Jacinto, NV peak streamflow occurs when Pole Creek RS SNOTEL is approximately 20% melted.

Reset Range

Current as of 05/13/2025:
% of Median - 56%
% Median Peak - 46%
Days Since Median Peak - 22
Percentile - 23

Summary by magnitude MAX SWE

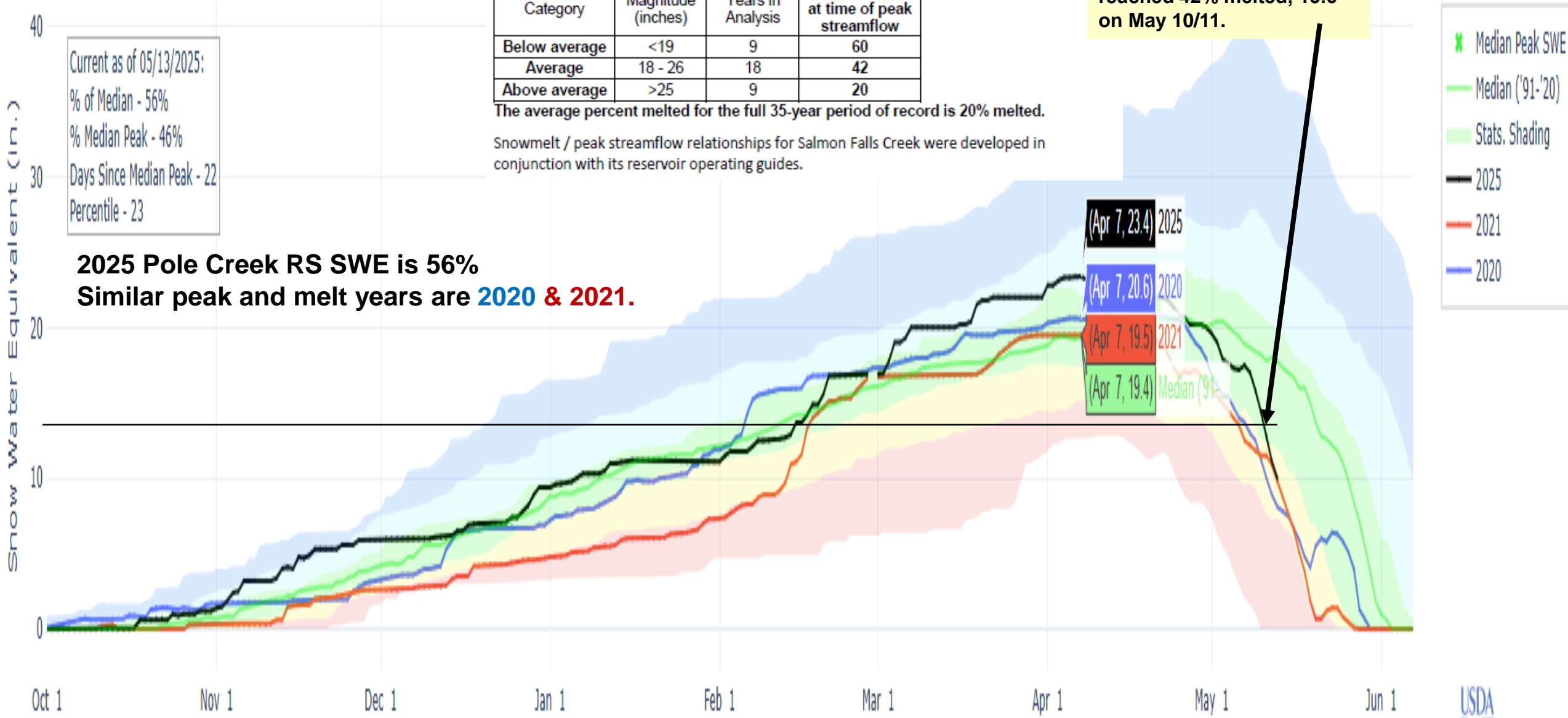
Max SWE Category	Max SWE Magnitude (inches)	Number of Years in Analysis	Average percent melted at time of peak streamflow
Below average	<19	9	60
Average	18 - 26	18	42
Above average	>25	9	20

The average percent melted for the full 35-year period of record is 20% melted.

Snowmelt / peak streamflow relationships for Salmon Falls Creek were developed in conjunction with its reservoir operating guides.

2025 Pole Creek RS SWE peaked at 23.4" and reached 42% melted, 13.6" on May 10/11.

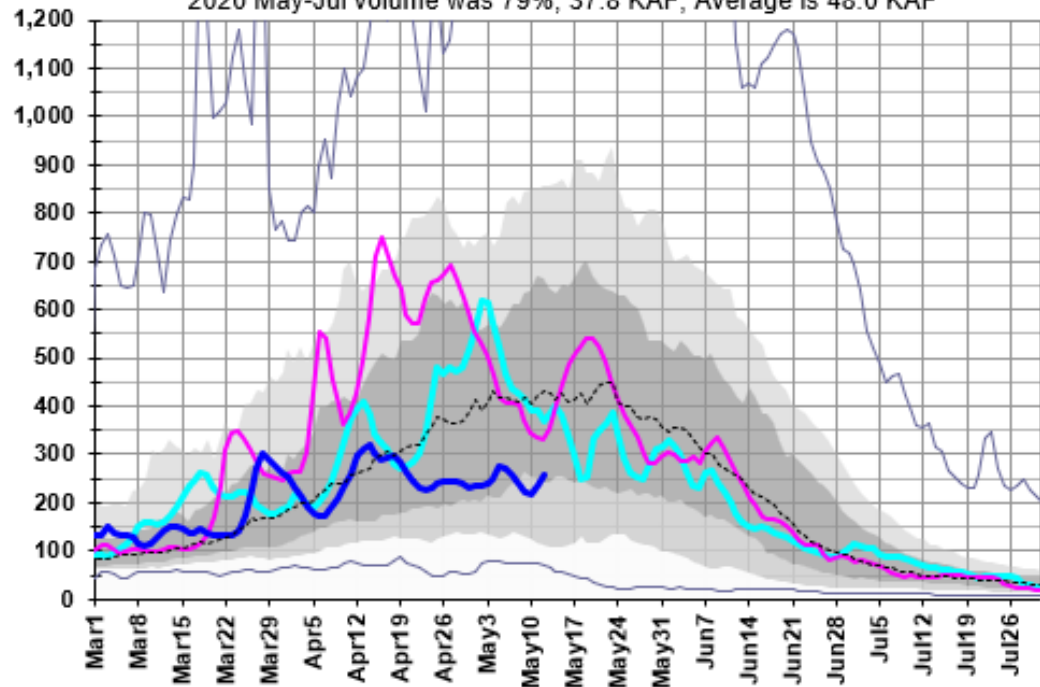
2025 Pole Creek RS SWE is 56%
Similar peak and melt years are 2020 & 2021.



13105000: Salmon Falls Ck near San Jacinto, NV

2020 May-Jul volume was 79%, 37.8 KAF, Average is 48.0 KAF

Mean Daily CFS



10-25-75-90
Estimated
SimilarYr
Last Yr
Projected
Current
Median
Max-Min

Updated
13-May-25
Similar Year
2020

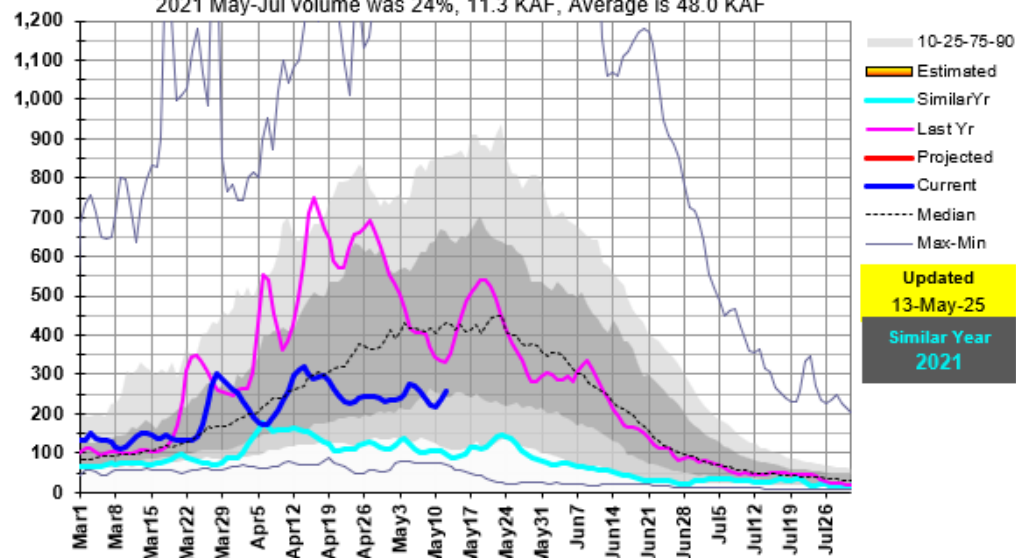
NRCS May 1 May-Jul
Forecast is for 69%
and 31 KAF which
best matches up with
2020 when May-Jul
volume was 37.8 KAF.

NWS Forecast &
Trend shows a bump
in flows from this
week's rain (?).

13105000: Salmon Falls Ck near San Jacinto, NV

2021 May-Jul volume was 24%, 11.3 KAF, Average is 48.0 KAF

Mean Daily CFS

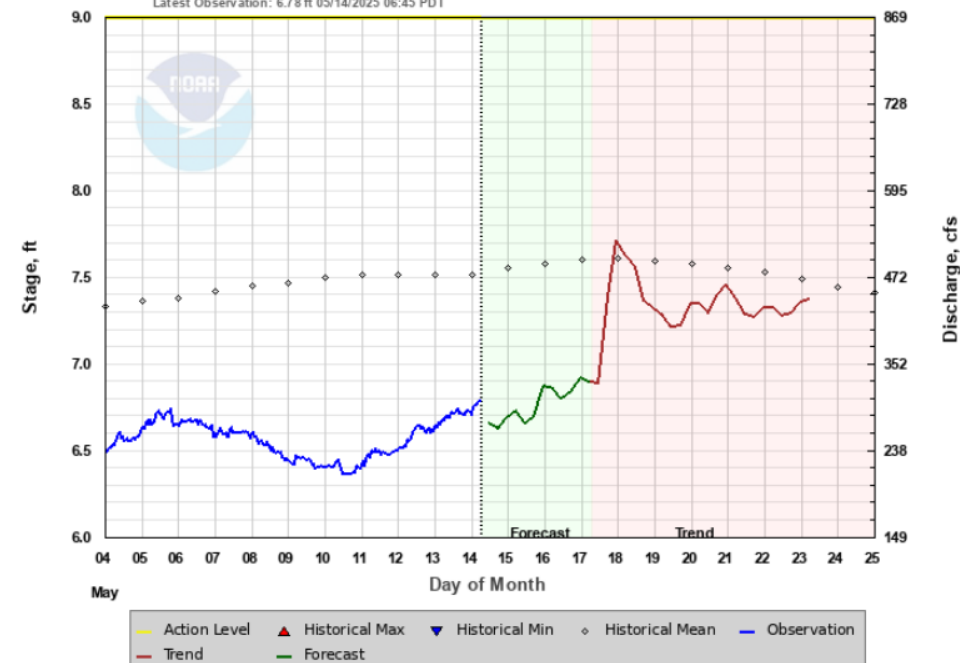


10-25-75-90
Estimated
SimilarYr
Last Yr
Projected
Current
Median
Max-Min

Updated
13-May-25
Similar Year
2021

SALMON FALLS CREEK - NR SAN JACINTO (SFLN2)

Latest Observation: 6.78 ft 05/14/2025 06:45 PDT



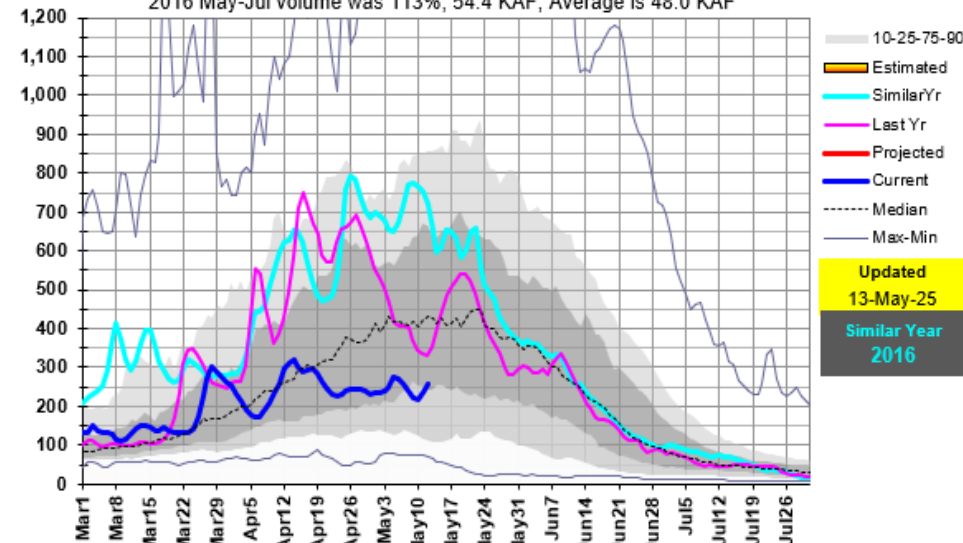
Forecast Created: 05/13/2025 14:09 PDT
Plot Created: 05/14/2025 07:48 PDT

Observations Provided by US Geological Survey

13105000: Salmon Falls Ck near San Jacinto, NV

2016 May-Jul volume was 113%, 54.4 KAF, Average is 48.0 KAF

Mean Daily CFS



10-25-75-90
Estimated
SimilarYr
Last Yr
Projected
Current
Median
Max-Min

Updated
13-May-25
Similar Year
2016

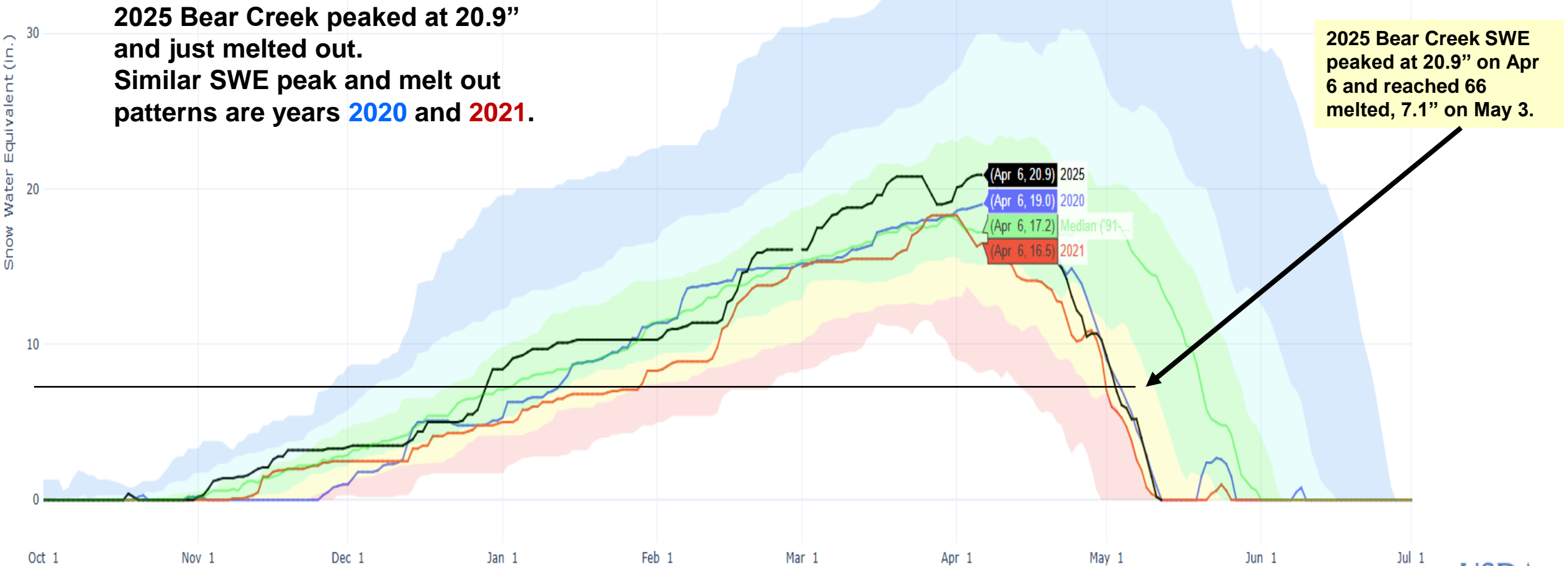
On average, the Bruneau River near Hot Springs, Idaho peak streamflow occurs when Magic Mountain SNOTEL is approximately 66% melted.

Summary by magnitude MAX SWE

Max SWE Category	Max SWE Magnitude (inches)	Number of Years in Analysis	Average percent melted at time of peak streamflow
Below average	<17	9	100
Average	16 – 27	17	64
Above average	>26	9	31

The average percent melted for the full 36-year period of record is 66% melted.

Current as of 05/12/2025:
% of Median - 0%
% Median Peak - 0%
Days Since Median Peak - 30
Percentile - 18



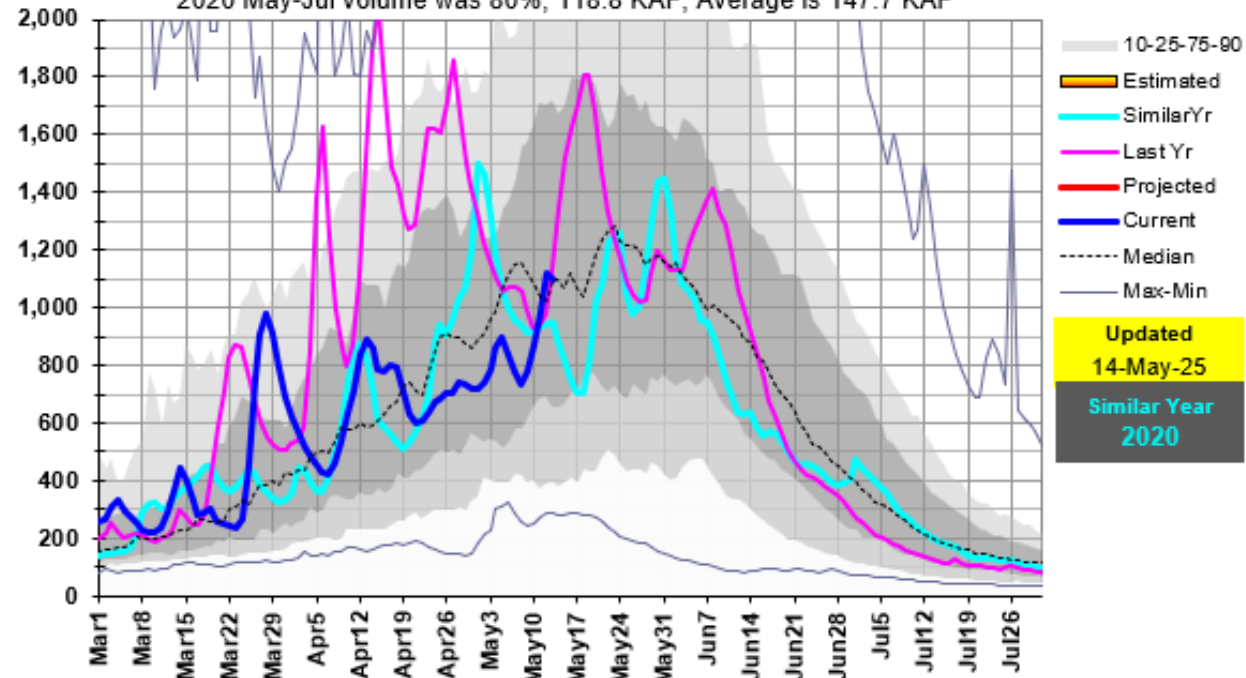
2025 Bear Creek peaked at 20.9'' and just melted out. Similar SWE peak and melt out patterns are years 2020 and 2021.

2025 Bear Creek SWE peaked at 20.9'' on Apr 6 and reached 66% melted, 7.1'' on May 3.

13168500: Bruneau R near Hot Spring, ID

2020 May-Jul volume was 80%, 118.8 KAF, Average is 147.7 KAF

Mean Daily CFS



Similar snow peak and melt in 2020 and 2021 brought a wide range of flows in May and June for these two similar years.

What happened and caused the difference in runoff for these years?

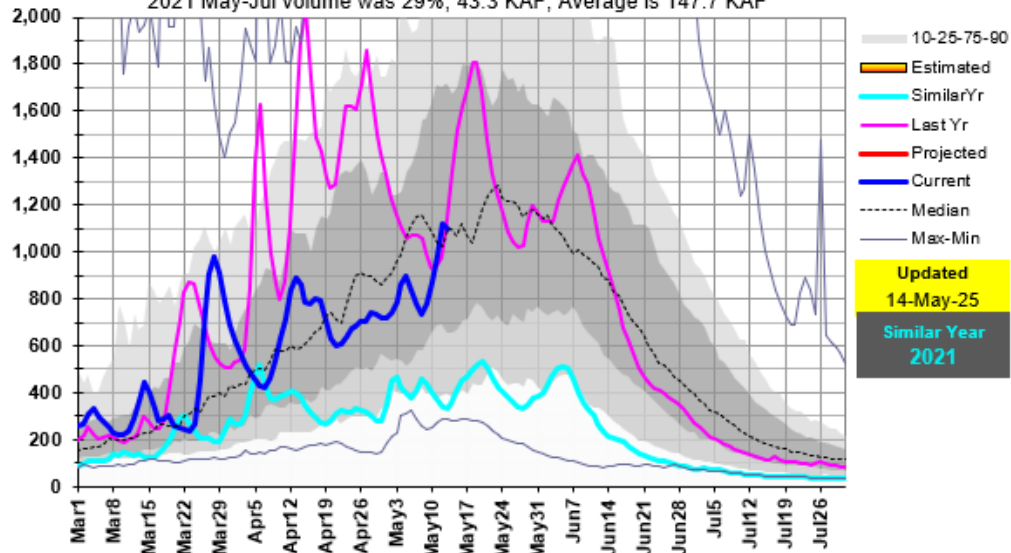
NRCS May 1 May-Jul Forecast is for 73% and 98 KAF which best matches up with 2020 when May-Jul volume was 118.8 KAF.

Best guess – this year's flow will be between these years of 2020 and 2021.

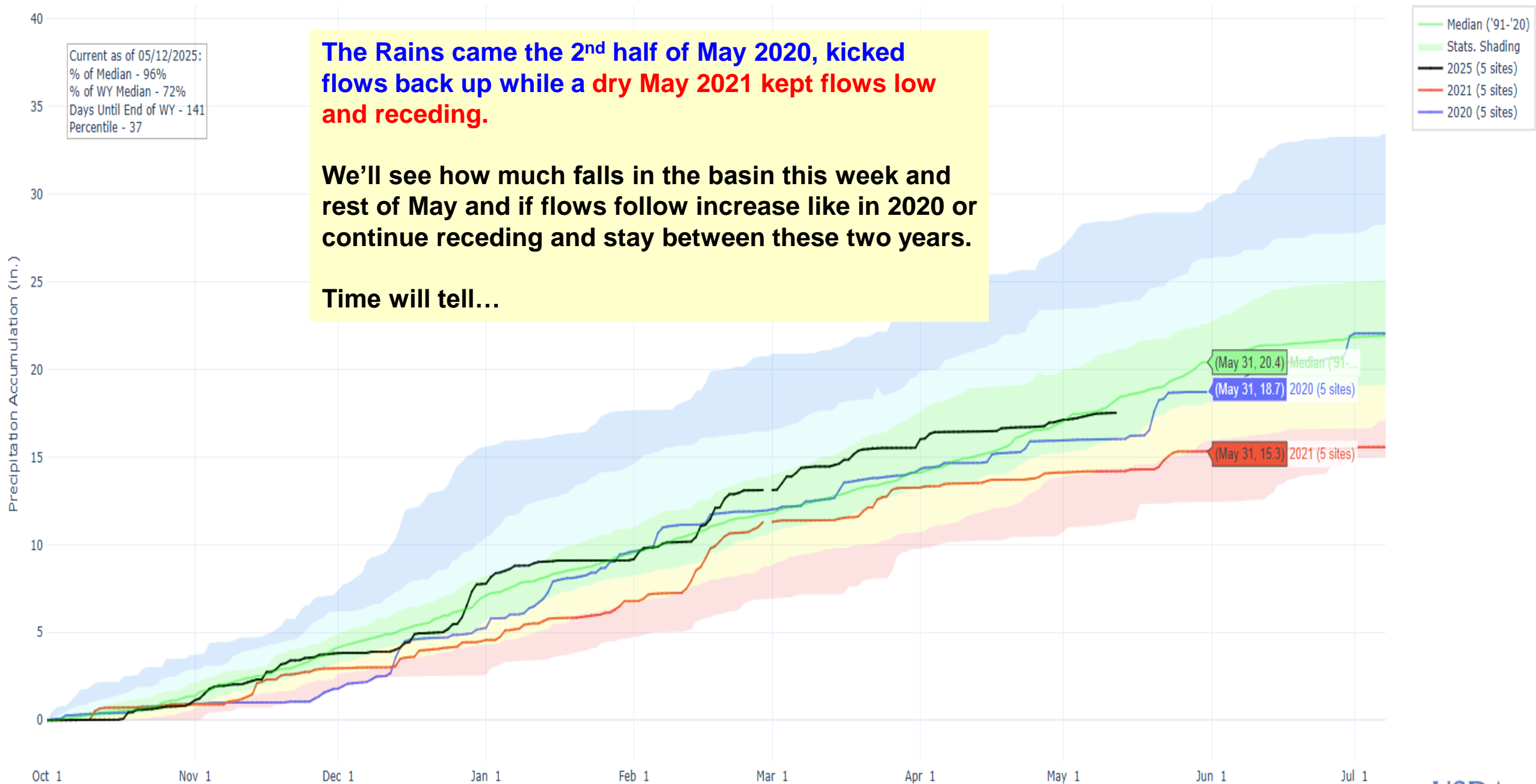
13168500: Bruneau R near Hot Spring, ID

2021 May-Jul volume was 29%, 43.3 KAF, Average is 147.7 KAF

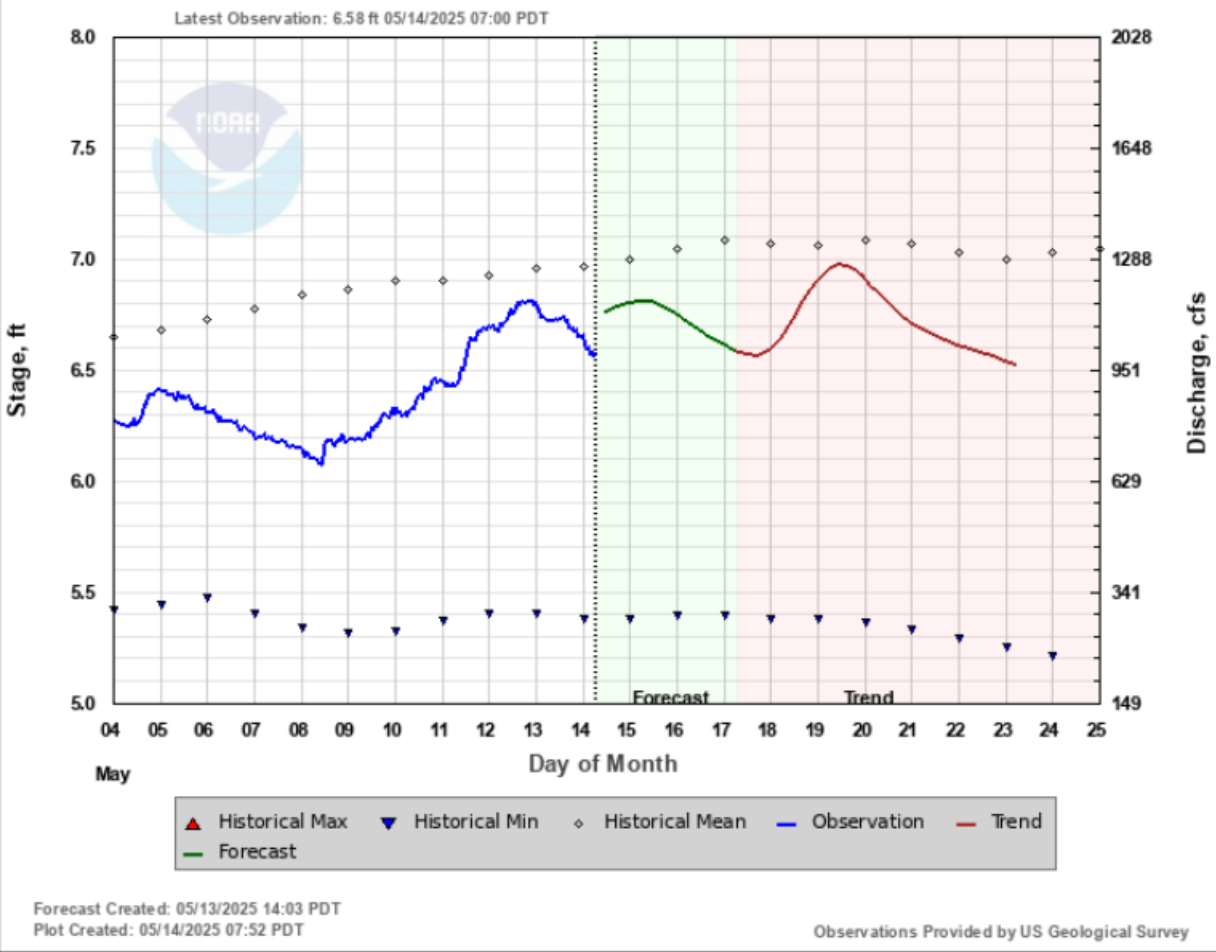
Mean Daily CFS



PRECIPITATION ACCUMULATION IN BRUNEAU



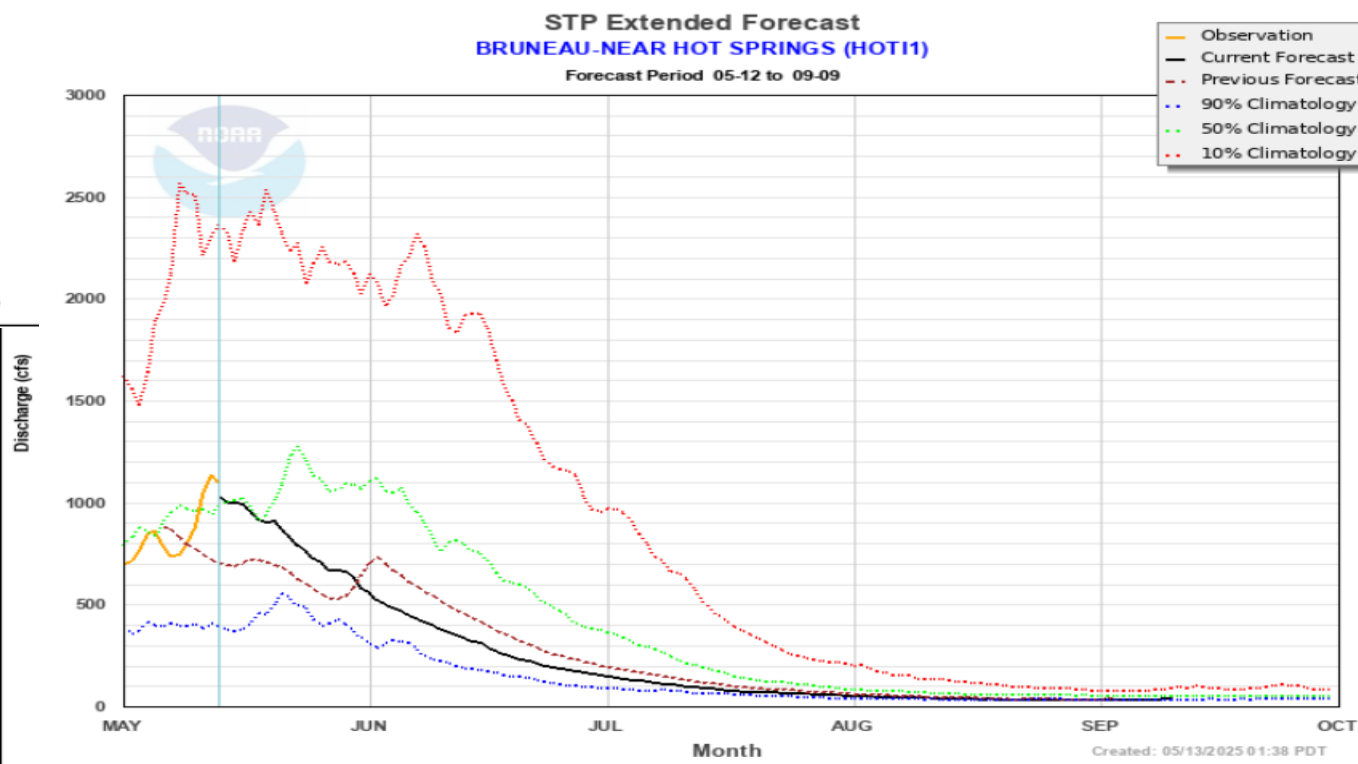
BRUNEAU - NEAR HOT SPRINGS (HOT11)



NWS Forecast & Trend shows also show another flow bump.

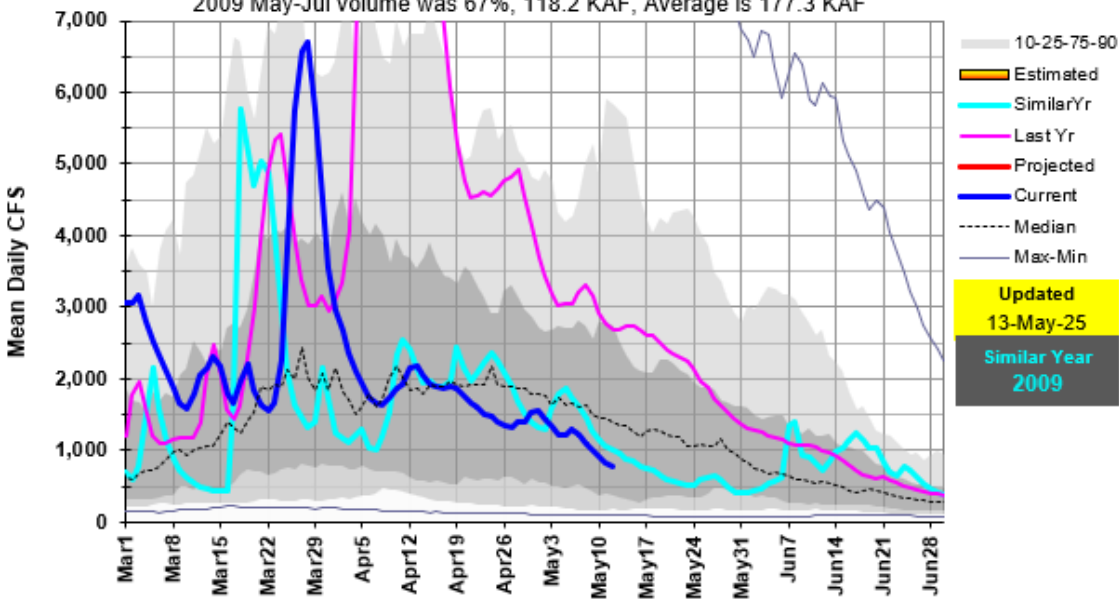
NWS STP Extended Forecast shows gradual decrease from current flow level.

Time and future weather will tell if May's rain in 2nd half of month will bring another flow increase or not.



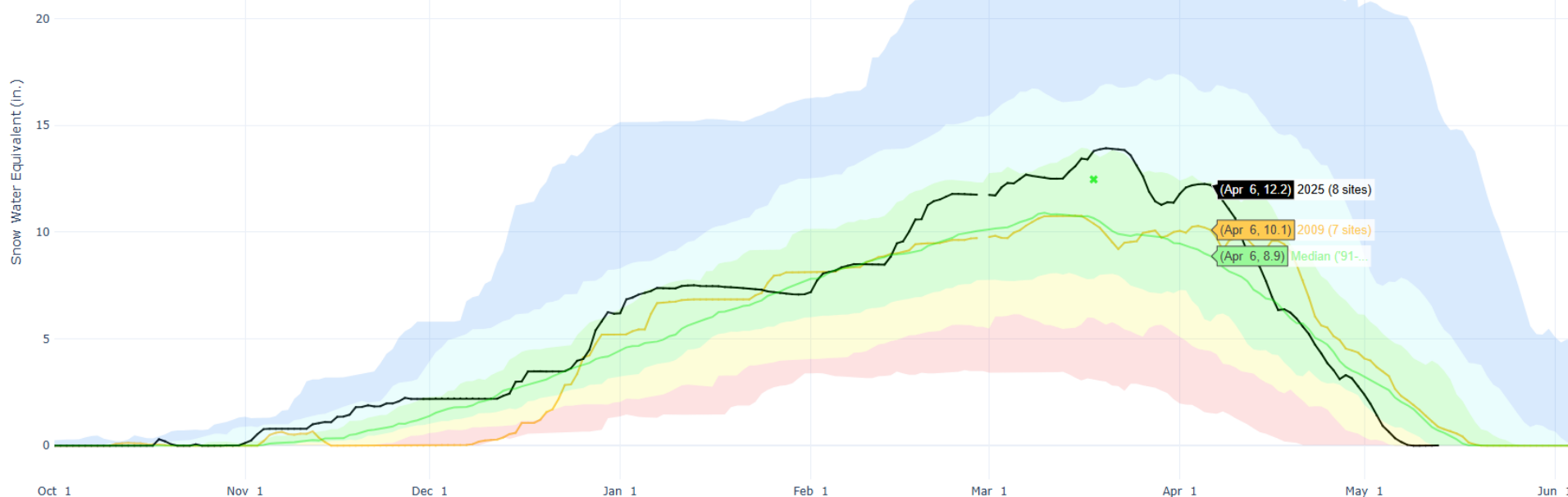
13181000: Owyhee R near Rome, OR

2009 May-Jul volume was 67%, 118.2 KAF, Average is 177.3 KAF



Current as of 05/13/2025:
% of Median - 2%
% Median Peak - 0%
Days Since Median Peak - 56
Percentile - 32

Interesting flow decrease on the Owyhee even as temps were heating up in Boise.



PRECIPITATION ACCUMULATION IN OWYHEE

