

SNOW WATER EQUIVALENT AT BEAR CREEK

Reset Range

Current as of 05/22/2023:
% of Median - 238%
% Median Peak - 59%
Days Since Median Peak - 40
Percentile - 74

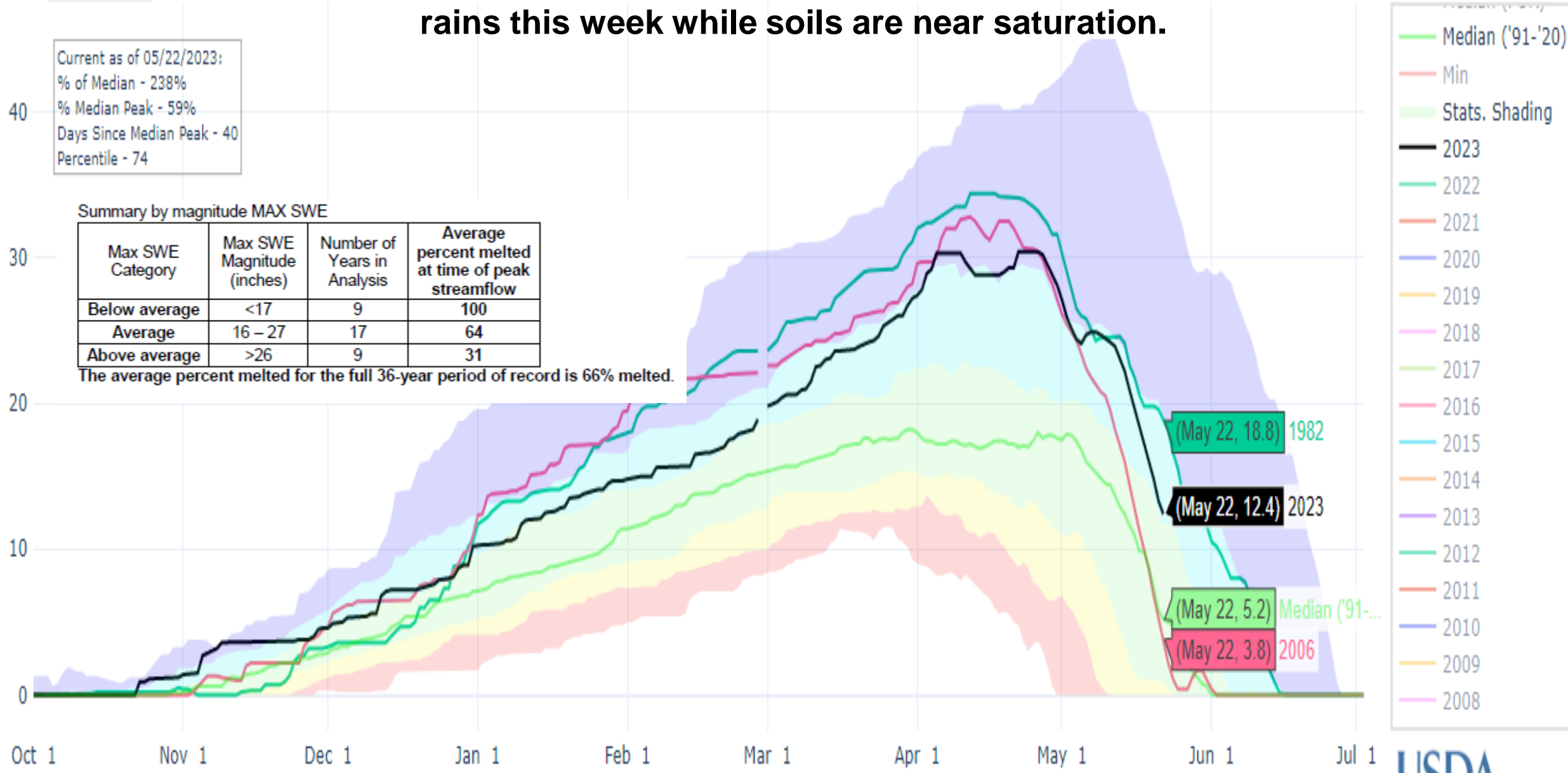
2023 Bear Creek SWE is similar to 2006 and 1982. A snowmelt peak occurs when Bear Ck is 64% melted. That would be 10" of SWE. Today 12.4" SWE remains. Current snow will sustain flows or increase with rains this week while soils are near saturation.

Snow Water Equivalent (in.)

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.



Bear Creek has been melting 1.2 to 1.5” /day since May 15 (Change in SWE column 7) with daily Air Temp Avg (last column) 46 to 51 F. Snow to feed river starts running out when SWE is 64% melted (column 6) which is when 10” SWE remains, currently at 12.4”. Without more input, RAIN, flows will start dropping, but remember Owyhee stayed higher longer than expected this year...

Reporting Frequency: Daily; Date Range: 2023-05-10 to 2023-05-22

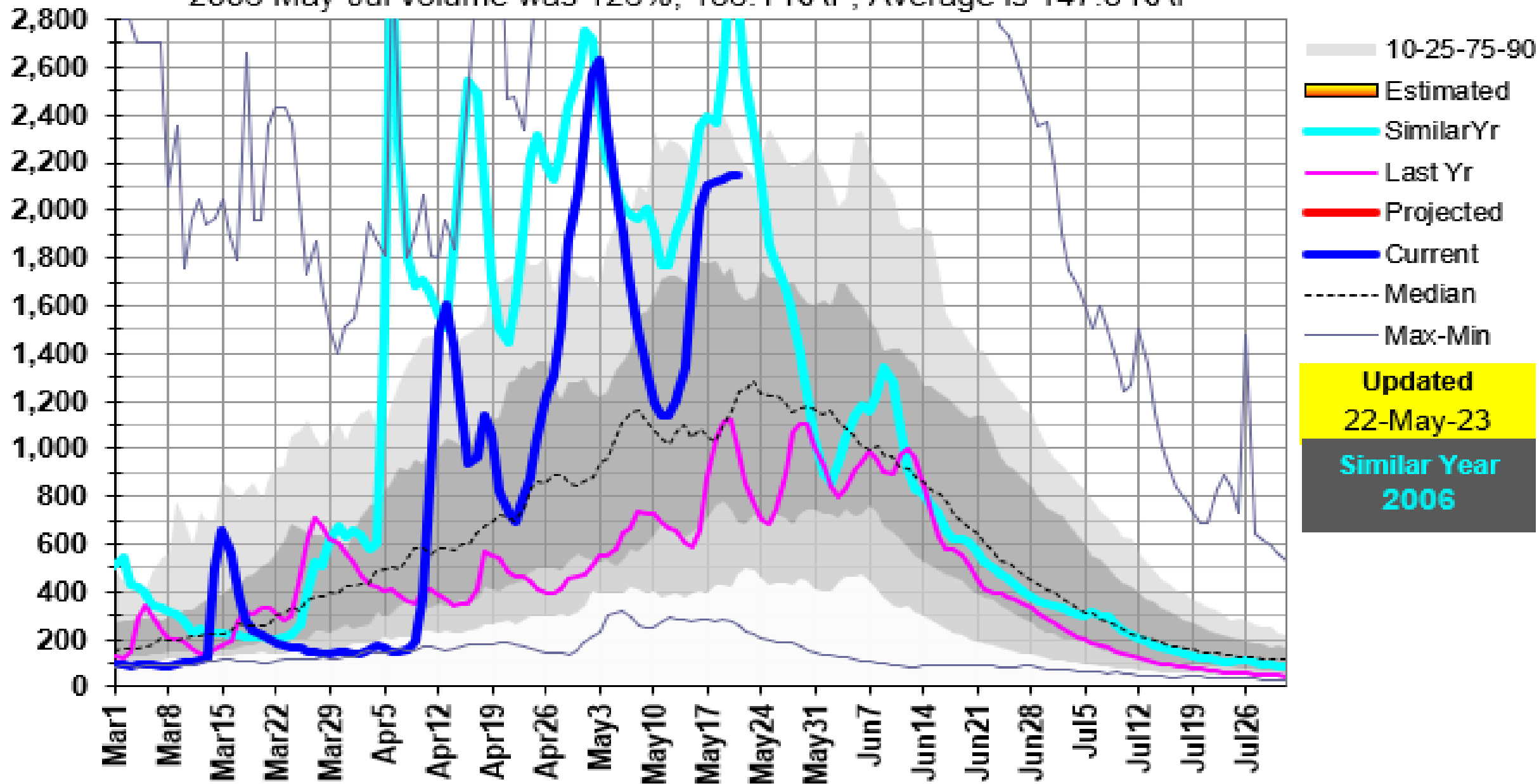
(As of: Mon May 22 08:07:29 GMT-08:00 2023)
Provisional data, subject to revision

Date ↕	Elevation (ft) ↕	Station Name ↕	Snow Depth (in) Start of Day Values ↕	Change In Snow Depth (in) ↕	Snow Water Equivalent (in) Start of Day Values ↕	Change In Snow Water Equivalent (in) ↕	Precipitation Accumulation (in) Start of Day Values ↕	Change In Precipitation Accumulation (in) ↕	Air Temperature Average (degF) ↕
2023-05-10	8040	Bear Creek	53	-2	24.5	-0.2	32.6	0.0	37.6
2023-05-11	8040	Bear Creek	53	0	24.2	-0.3	32.6	0.0	38.8
2023-05-12	8040	Bear Creek	52	-1	23.9	-0.3	32.6	0.0	43.0
2023-05-13	8040	Bear Creek	50	-2	23.1	-0.8	32.6	0.0	43.3
2023-05-14	8040	Bear Creek	48	-2	22.2	-0.9	32.7	0.1	44.8
2023-05-15	8040	Bear Creek	46	-2	20.9	-1.3	33.0	0.3	47.7
2023-05-16	8040	Bear Creek	44	-2	19.7	-1.2	33.0	0.0	47.8
2023-05-17	8040	Bear Creek	41	-3	18.6	-1.1	33.0	0.0	46.0
2023-05-18	8040	Bear Creek	40	-1	17.4	-1.2	33.0	0.0	46.9
2023-05-19	8040	Bear Creek	38	-2	16.2	-1.2	33.0	0.0	50.2
2023-05-20	8040	Bear Creek	36	-2	14.8	-1.4	33.0	0.0	51.4
2023-05-21	8040	Bear Creek	33	-3	13.3	-1.5	33.0	0.0	51.4
2023-05-22	8040	Bear Creek	30	-3	12.4	-0.9	33.1	0.1	

13168500: Bruneau R near Hot Spring, ID

2006 May-Jul volume was 126%, 186.1 KAF, Average is 147.3 KAF

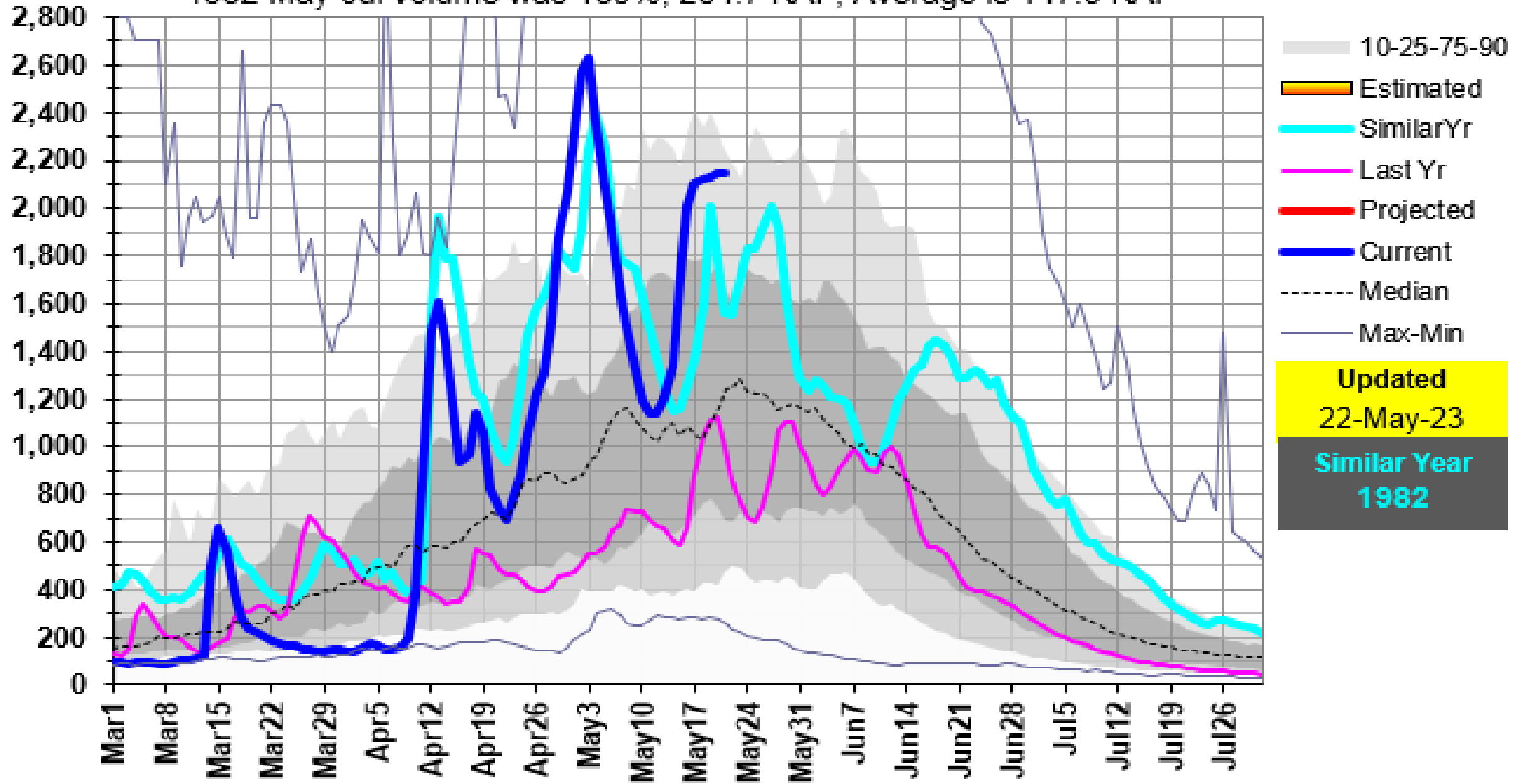
Mean Daily CFS



13168500: Bruneau R near Hot Spring, ID

1982 May-Jul volume was 139%, 204.7 KAF, Average is 147.3 KAF

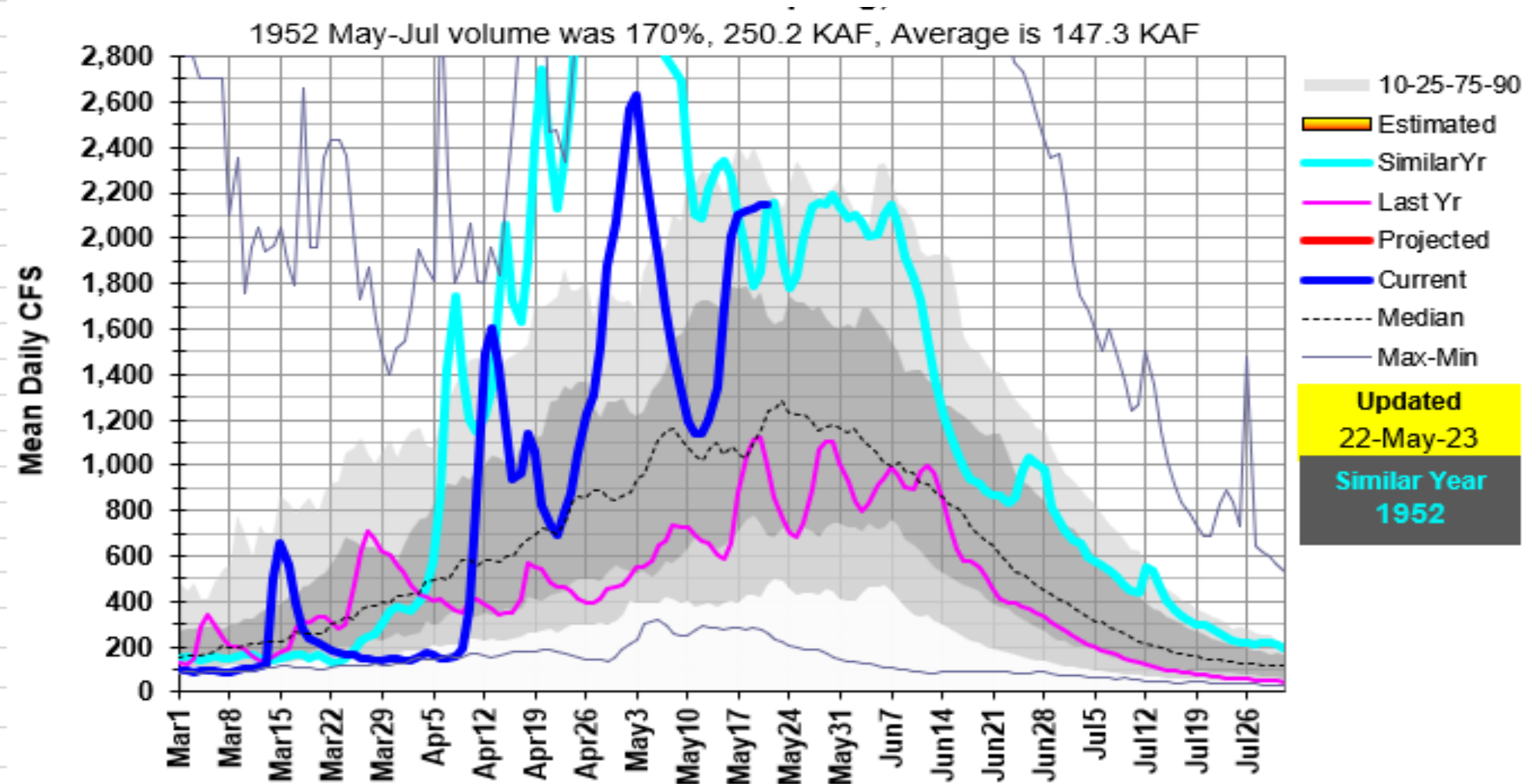
Mean Daily CFS

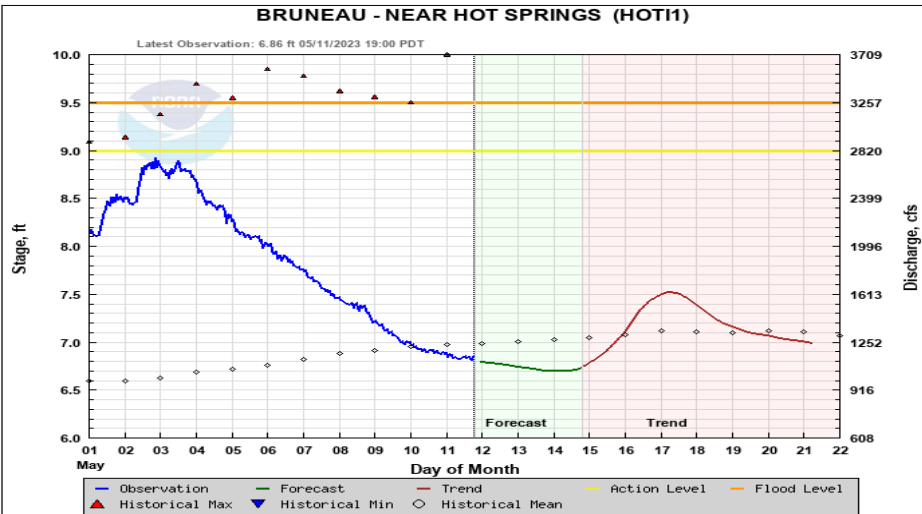


Interesting, similar 2100 cfs flow plateau occurred in 1952. Its all about the watershed and square miles in this 8000 elevation foot band with similar aspect that the Bear Creek SNOTEL site monitors. This is why this Bear Creek SNOTEL is a key site for the Bruneau Watershed.

Link to Bear Creek data.

<https://wcc.sc.egov.usda.gov/nwcc/site?sitenum=321>

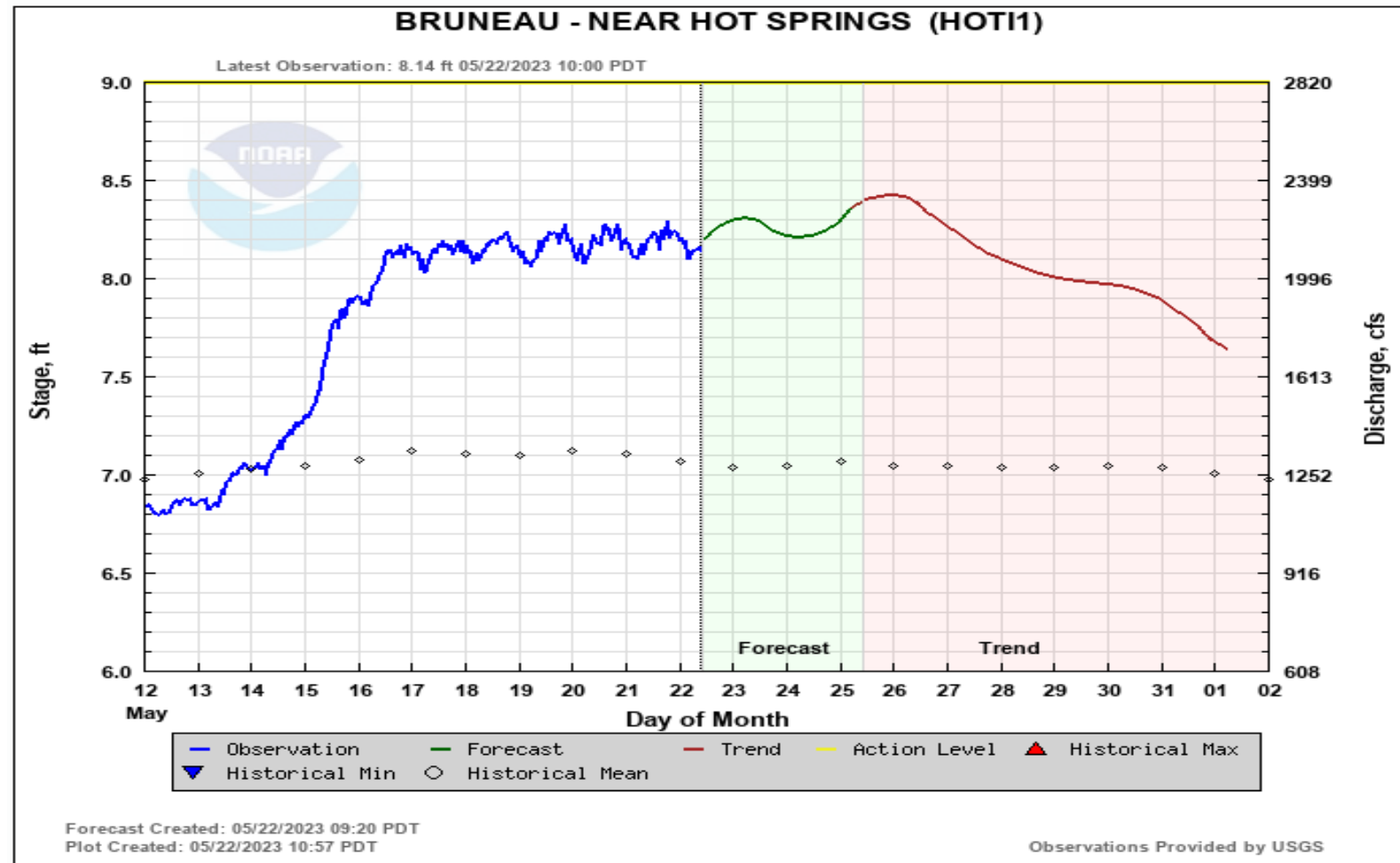
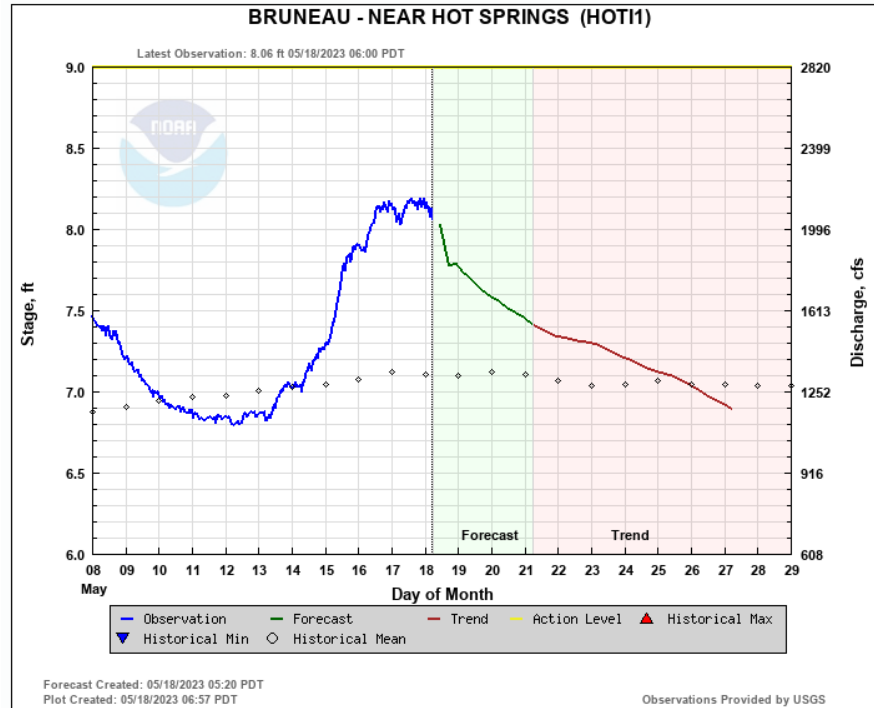


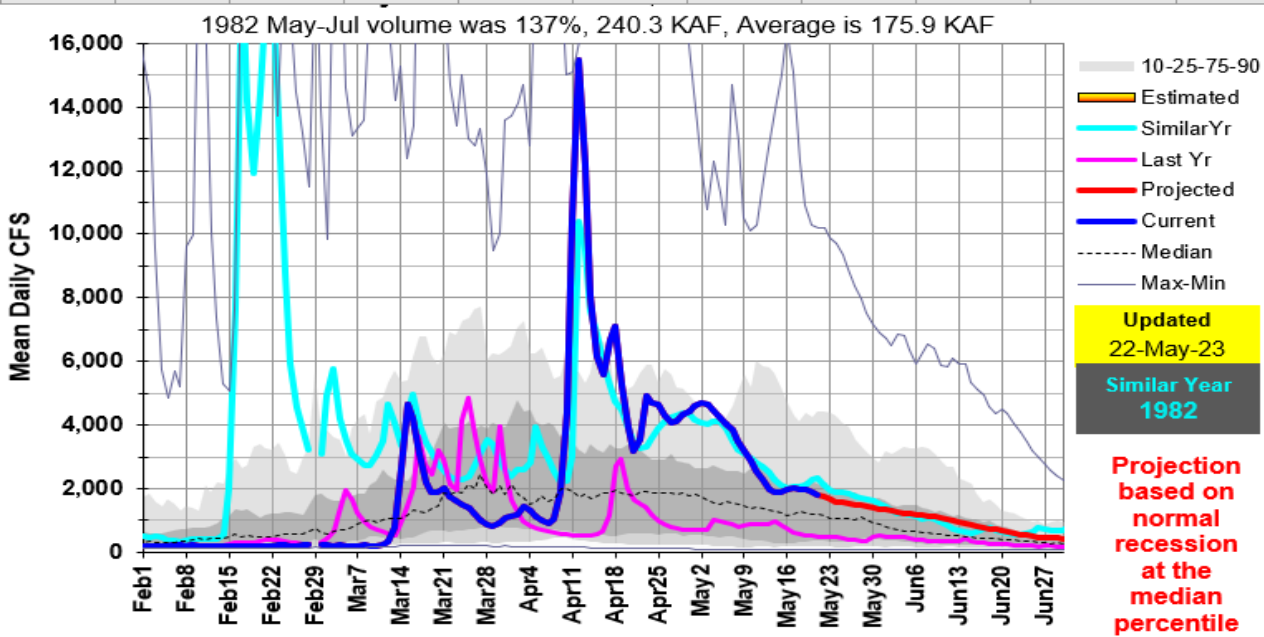


Why its important to understand how much snow remains and snow2flow relationships in watersheds to produce/sustain flows.

Left - May 12 & 18 Forecast & Trend runs.

Below May 22 run showing potential increase, possibly from rain (?), cooler temps arrived with yesterday's cold front.





Owyhee snow & flow tracked 1982 very close.

