

May 15, 2023 Snow2Flow Update for Lochsa & Selway Rivers

For complete Snow to Flow Relationships see

Snow Melt / Peak Streamflow

Relationships (PDF; 146 KB) - Report by Kara
Ferguson (2017) summarizing the relationship
between snowmelt and peak streamflow timing
on rivers throughout Idaho.

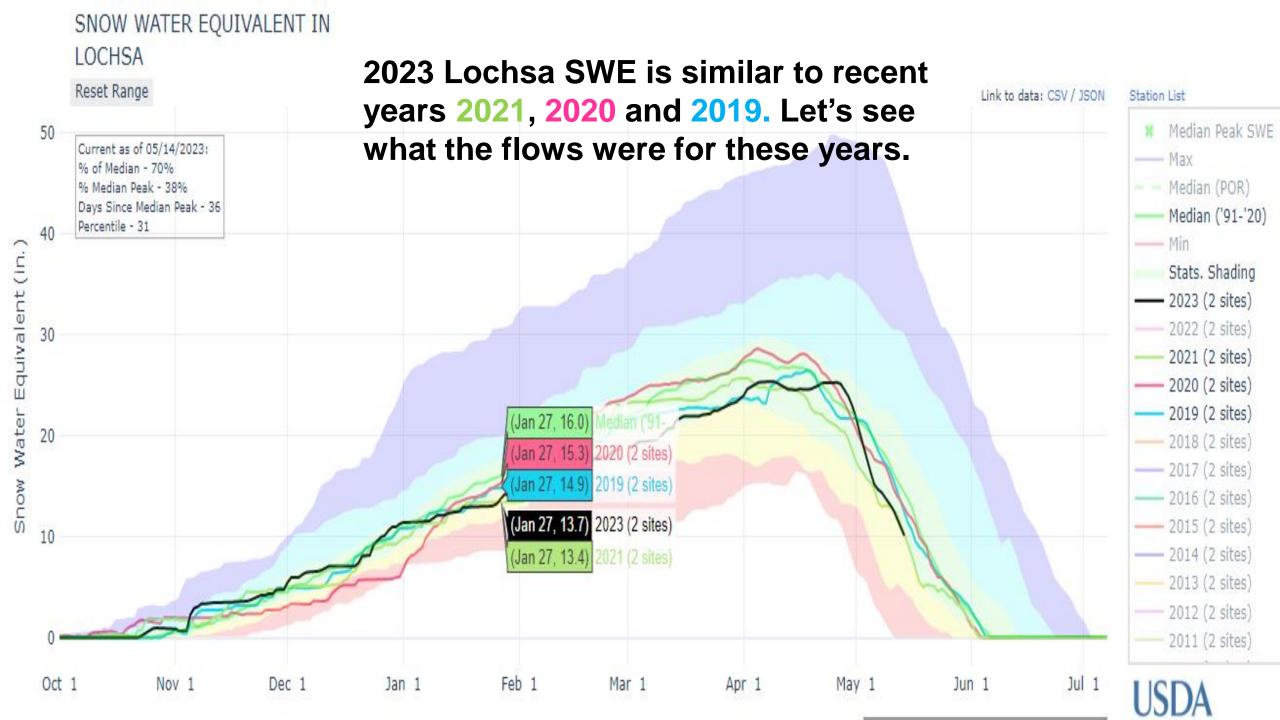
From:

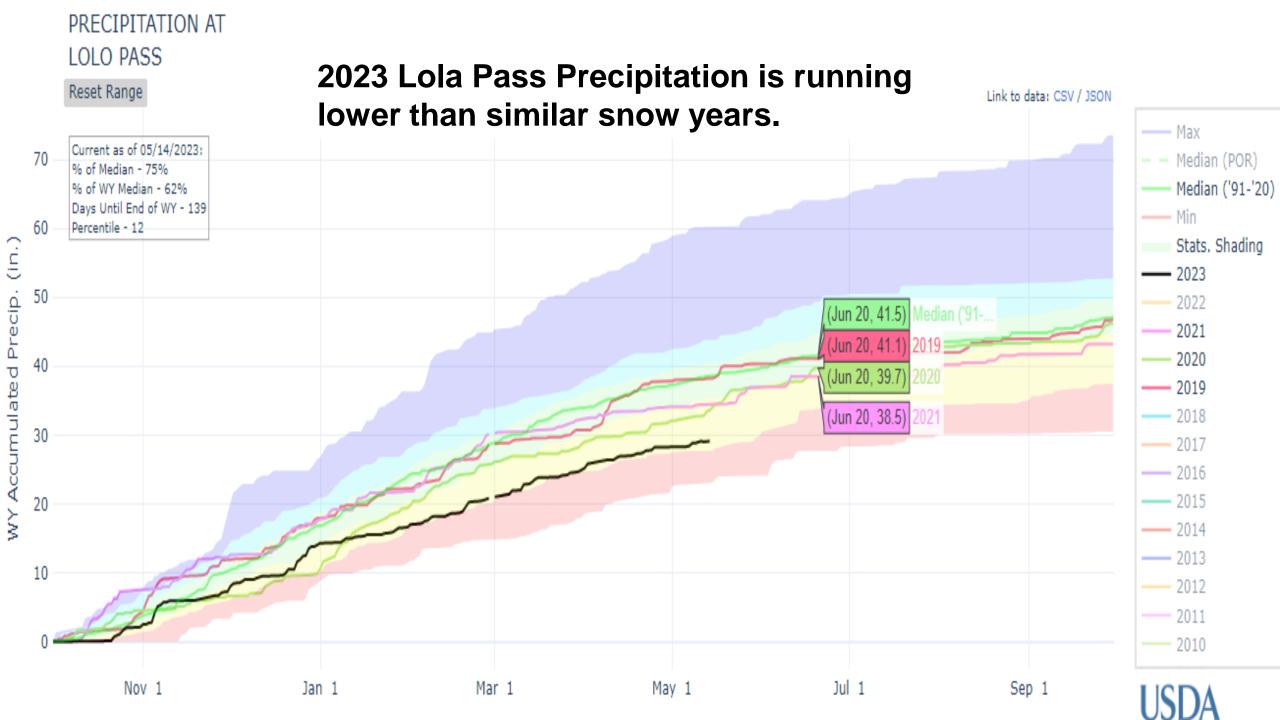
https://www.nrcs.usda.gov/wps/portal/wcc/home/quicklinks/states/idaho/watersupply/peak

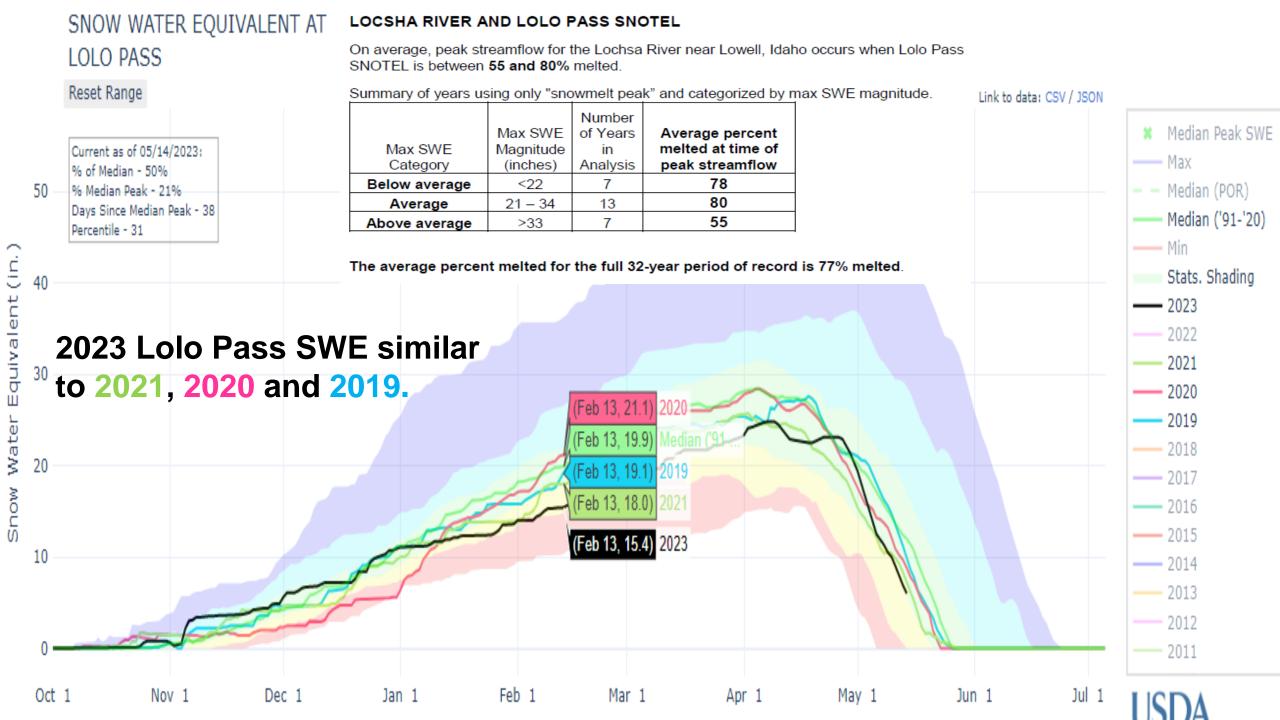
And NWS peak flow products and forecasts:

Peak Flow and Stage Forecasts from NWS

Watch the weather and know your boating limits as rivers will be high for an extended period.



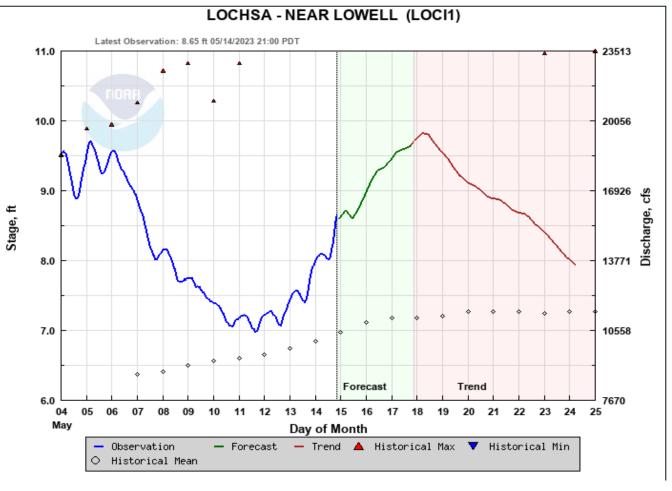




Based on Lola Snow2Flow relationship – peak flows occurs around 80% melted. May 16 Lola will be at 5" of SWE, 80% melted. Hot temps will melt remaining snow at above normal rates to push the peak out as shown in NWS Forecast & Trend outlook.

May 1 Lochsa Volume Forecasts range from 805 to 1270 KAF with 50% chance exceedance forecast at 1040 KAF.

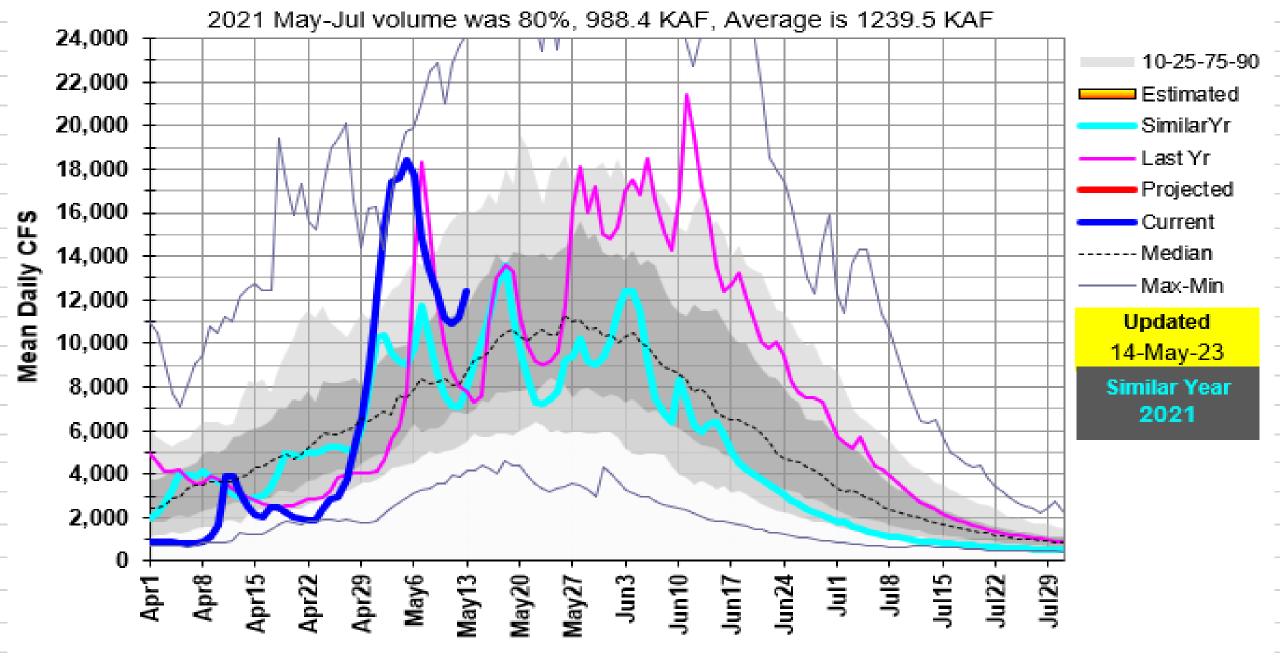
May - July runoff volumes in these similar years ranged from 988 to 1362 KAF.



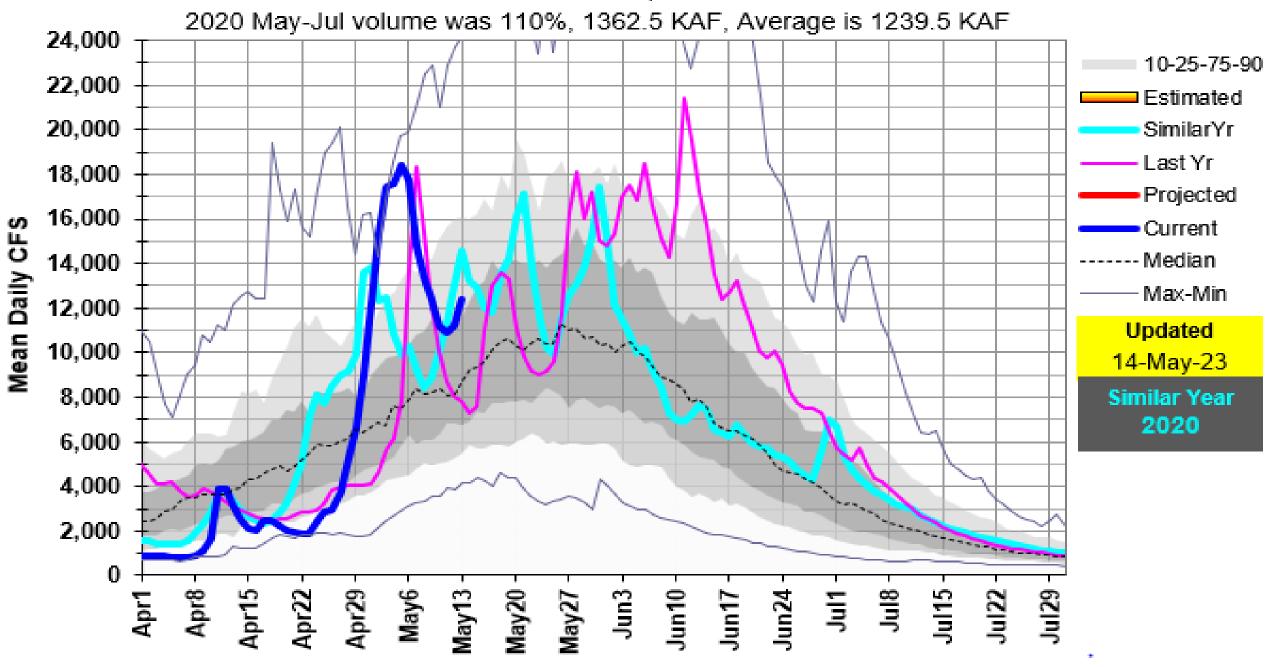
Clearwater River Basin Streamflow Forecasts - May 1, 2023

	Forecast Exceedance Probabilities for Risk Assessment									
		<drierwetter></drierwetter>								
Forecast Point	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Med (KAF)		
Selway R nr Lowell	MAY-JUL	1190	1370	1490	94%	1610	1790	1580		
	MAY-SEP	1260	1450	1580	95%	1710	1910	1670		
Lochsa R nr Lowell	MAY-JUL	805	945	1040	94%	1130	1270	1110		
	MAY-SEP	855	1000	1100	94%	1200	1350	1170		
Barrer barb Barrer Schaffere S	K4 8 5 2 10 10	4000	4500	4050	area.	4000	and the second	477.40		

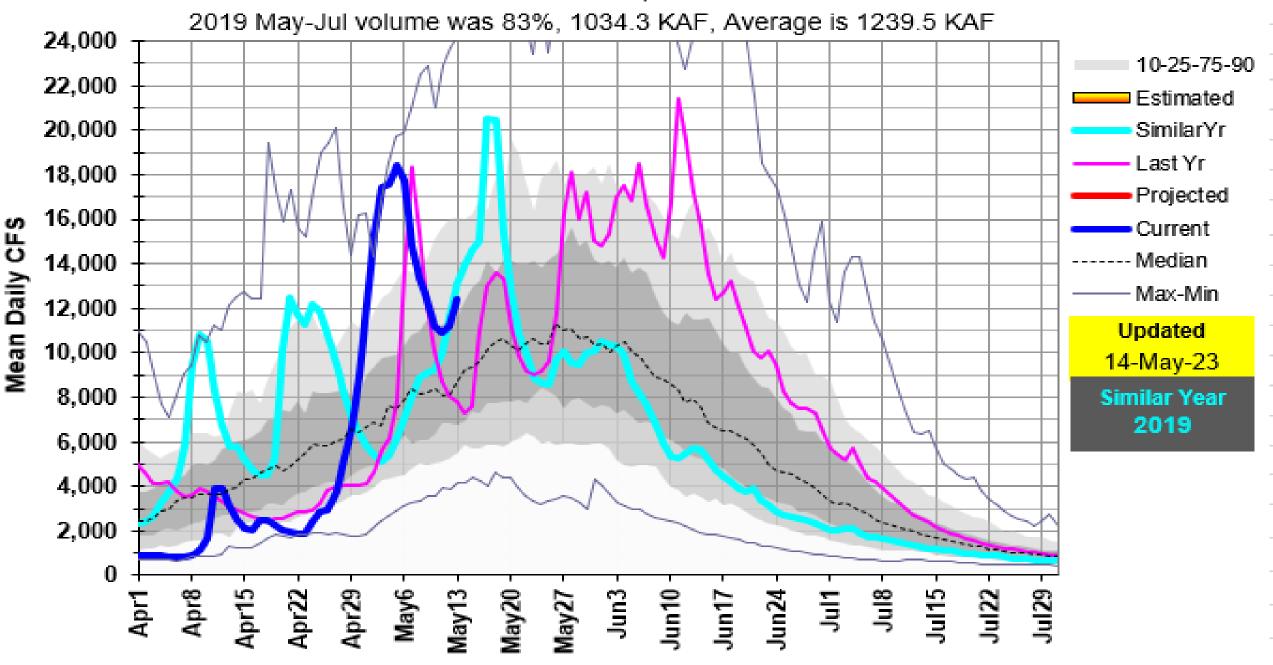
13337000: Lochsa R near Lowell, ID

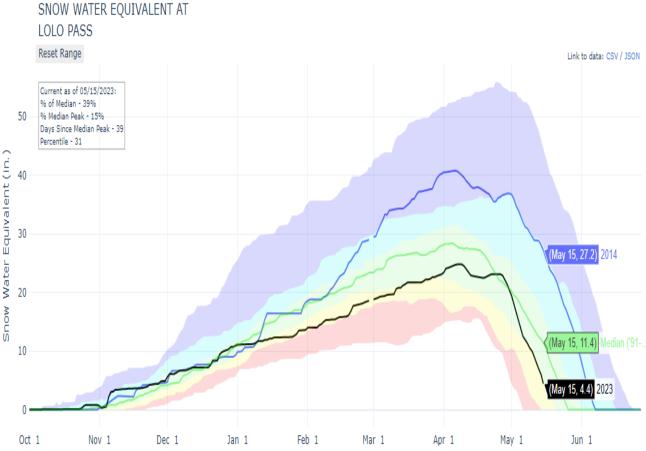


13337000: Lochsa R near Lowell, ID

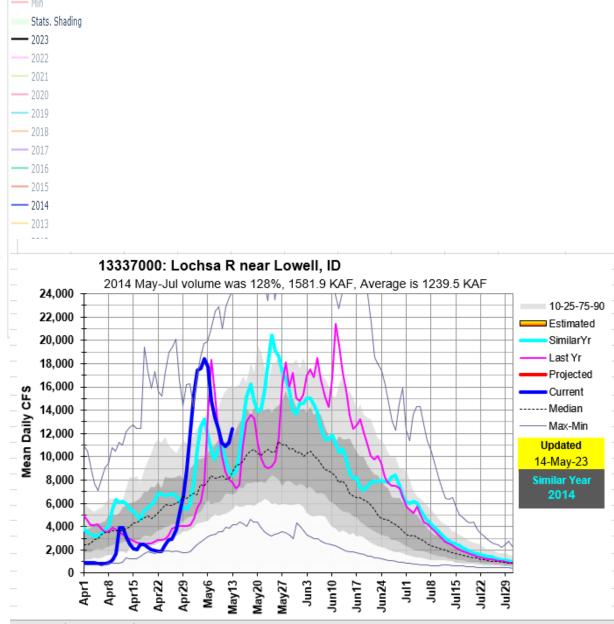


13337000: Lochsa R near Lowell, ID





2014 had more snow than 2023 but similar flow pattern is occurring as this year just. Recession flows will be less than in 2014 without spring rains.



Median ('91-'20)



Lochsa Falls June 14, 2022, around 16,000 cfs

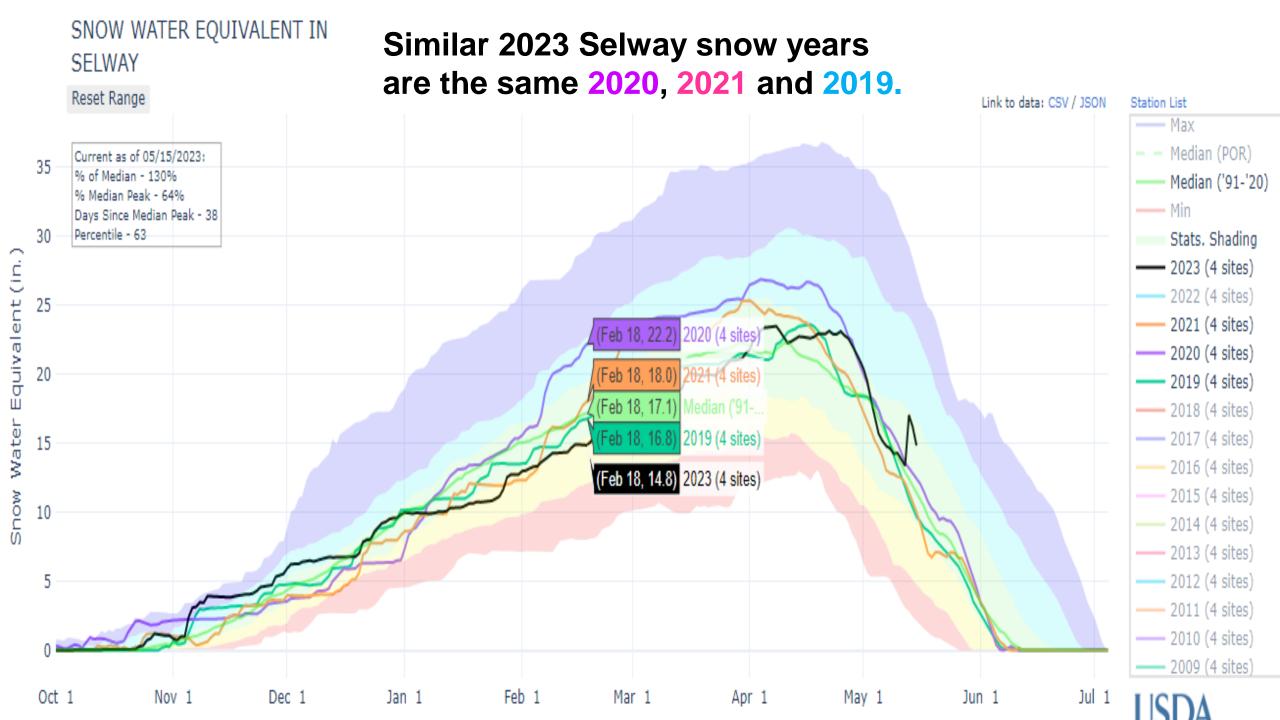


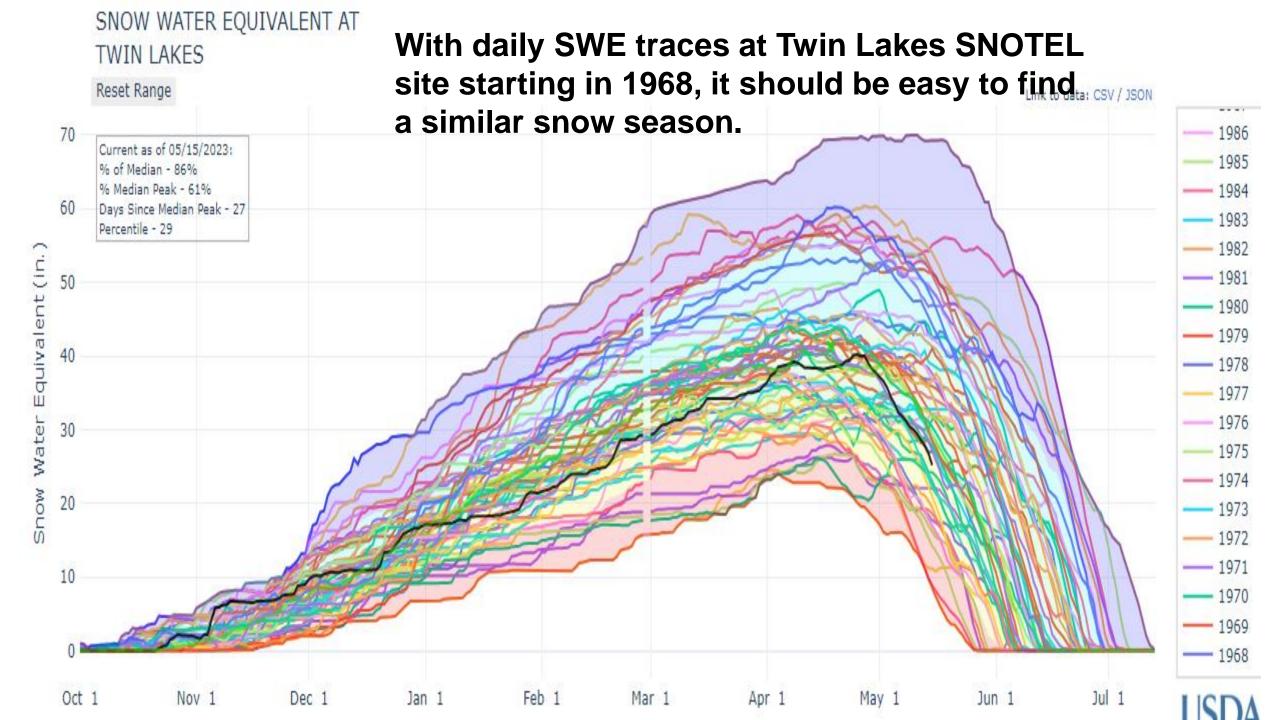
Selway Falls June 13, 2022, around 23,000 cfs

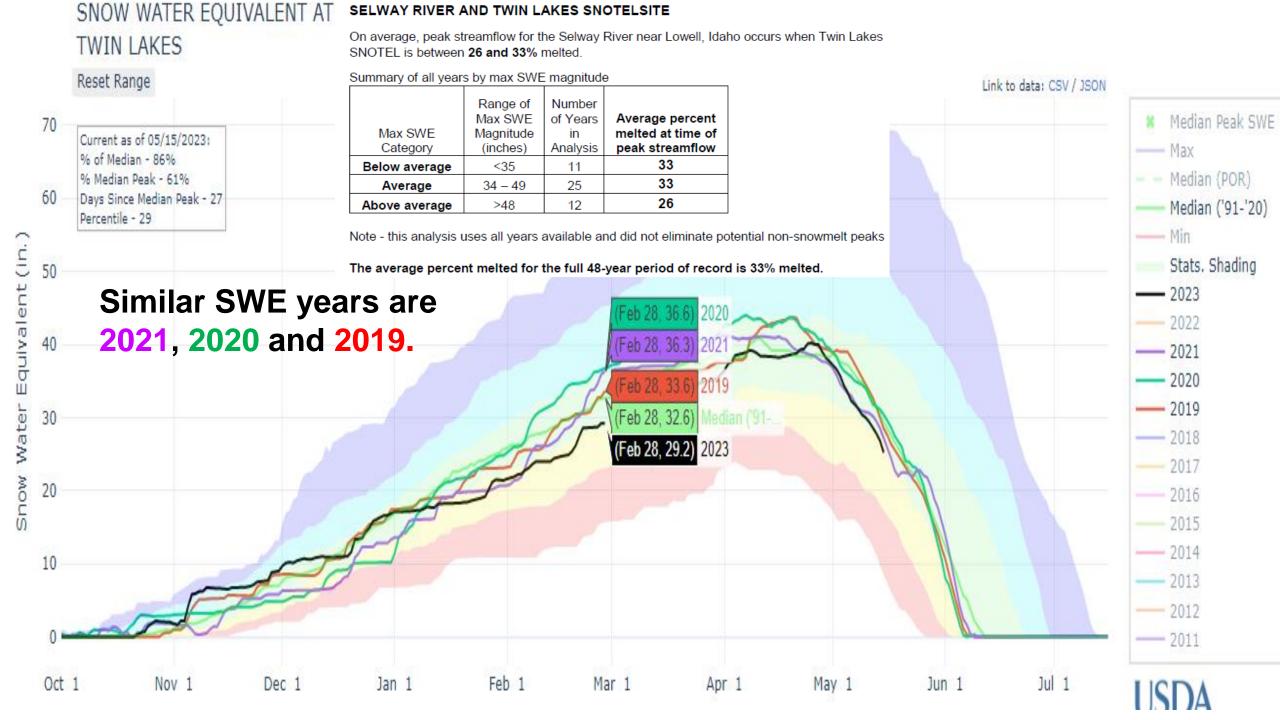












Based on Twin Lakes Snow2Flow relationship – peak flows occurs around 33% melted, which is happening today. Hot temps will push melt out a bit as NWS model shows flow topping off because of snow running that feeds the streams OR will hot temps produce greater melt and flow increase.

May 1 Lochsa Volume Forecasts range from 1190 to 1790 KAF with 50% chance exceedance forecast at 1490 KAF.

May - July runoff volumes in these similar years ranged from 1506 to 1970 KAF.

37042 12.0 31340 11.0 26080 Stage, ft 10.0 21268 9.0 16820 8.0 12430 Trend Trend 🛕 Historical Max 🔻 Historical Min Historical Mean

SELWAY - NEAR LOWELL (SELI1)

Clearwater River Basin Streamflow Forecasts - May 1, 2023

	Forecast Exceedance Probabilities for Risk Assessment									
		<drierwetter></drierwetter>								
Forecast Point	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Med (KAF)		
Selway R nr Lowell	MAY-JUL	1190	1370	1490	94%	1610	1790	1580		
	MAY-SEP	1260	1450	1580	95%	1710	1910	1670		
Lochsa R nr Lowell	MAY-JUL	805	945	1040	94%	1130	1270	1110		
D	MAY-SEP	855	1000	1100	94%	1200	1350	1170		

