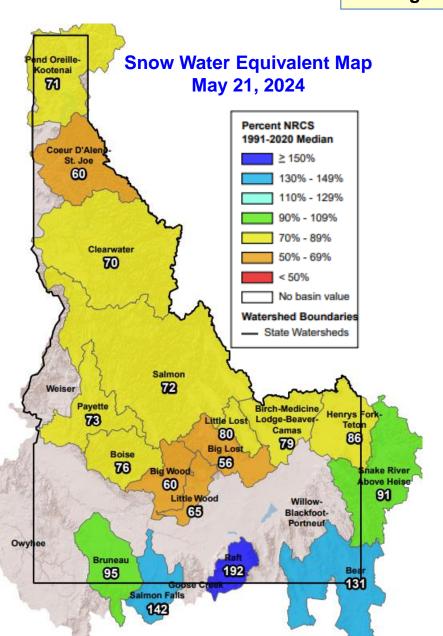
# May 24, 2024 Snow2Flow Update for 4 Rivers Big Wood & Bog Lost Rivers



May 1-23 precipitation ranges from 53 to 76% of the normal Pct of Monthly Total with a week to go in May.

### Idaho SNOTEL Precipitation Summary Update Report

Based on Mountain Data from NRCS SNOTEL Sites

\*\*Provisional data, subject to revision\*\*

Data based on the first reading of the day (typically 00:00) for Thursday, May 23, 2024

Basin Elev Site Name (ft)	Month to Date Precipitation (in)	Median			er Year to Date Precipitation (in)	Median
NORTHERN PANHANDLE REGION						
Basin Index (%)			56			73
COEUR D'ALENE-ST. JOE RIVER BASI						
Basin Index (%)			55			66
CLEARWATER BA	SIN					
Basin Index (%)			92			68
SALMON BASIN						
Basin Index (%)			80			71
WEISER BASIN						
Basin Index (%)			65			75
PAYETTE BASIN						
Basin Index (%)			78			76
BOISE BASIN						
Basin Index (%)			86			80
BIG WOOD BASI	V					
Basin Index (%)			71			73
LITTLE WOOD BA	SIN					
Basin Index (%)			53			71
BIG LOST BASIN						
Basin Index (%)			61			72
LITTLE LOST						
Basin Index (%)			76			68
BIRCH, MEDICIN	E LODGE, BE	AVER, (	AMAS	BAS	INS	
Basin Index (%)			65			66



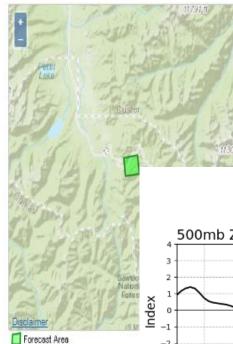
It's always helpful to look at future weather to better understand what may happen.

NWS Forecast from May 24 for Galena Summit shows moisture (snow & rain) clearing by next week. Nighttime Temps gradually increase from below freezing to above nighttime freezing temps next week.

PNA is still tracking to the positive which usually means nicer, calmer, high pressure is moving in.

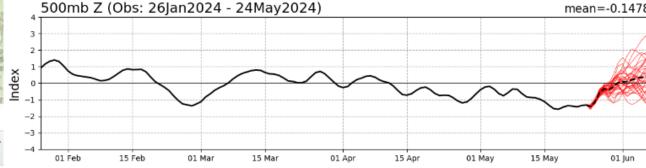
A sign of summer's arrival?

# Topographic V Click Map For Forecast



ABOUT THIS FORECAST

## PNA Index: Observed & GEFS Forecasts



# **Detailed Forecast**

ay Increasing clouds, with a high near 48. Southwest wind 5 to 9 mph, with gusts as high as 20 mph.

A 30 percent chance of snow, mainly after 4am. Mostly cloudy, with a low around 31. South wind 5 to 8 mph, with gusts as high as 20 mph. New snow accumulation of less than a half inch possible.

Saturday A 50 percent chance of snow, mainly after noon. Mostly cloudy, with a high near 42. West wind 5 to 13 mph, with gusts as high as 26 mph. New snow accumulation of less than a half inch possible.

Saturday Night Partly cloudy, with a low around 25. Northwest wind 6 to 13 mph, with gusts as high as 28 mph.

Sunday Sunny, with a high near 49. West wind 6 to 8 mph.

unday Night Mostly clear, with a low around 32.

ATTENDED FOR FOR A TORONTO CONTRACTOR OF STREET, AND A STREET

Memorial Day Sunny, with a high near 58.

Monday Night Mostly clear, with a low around 38.

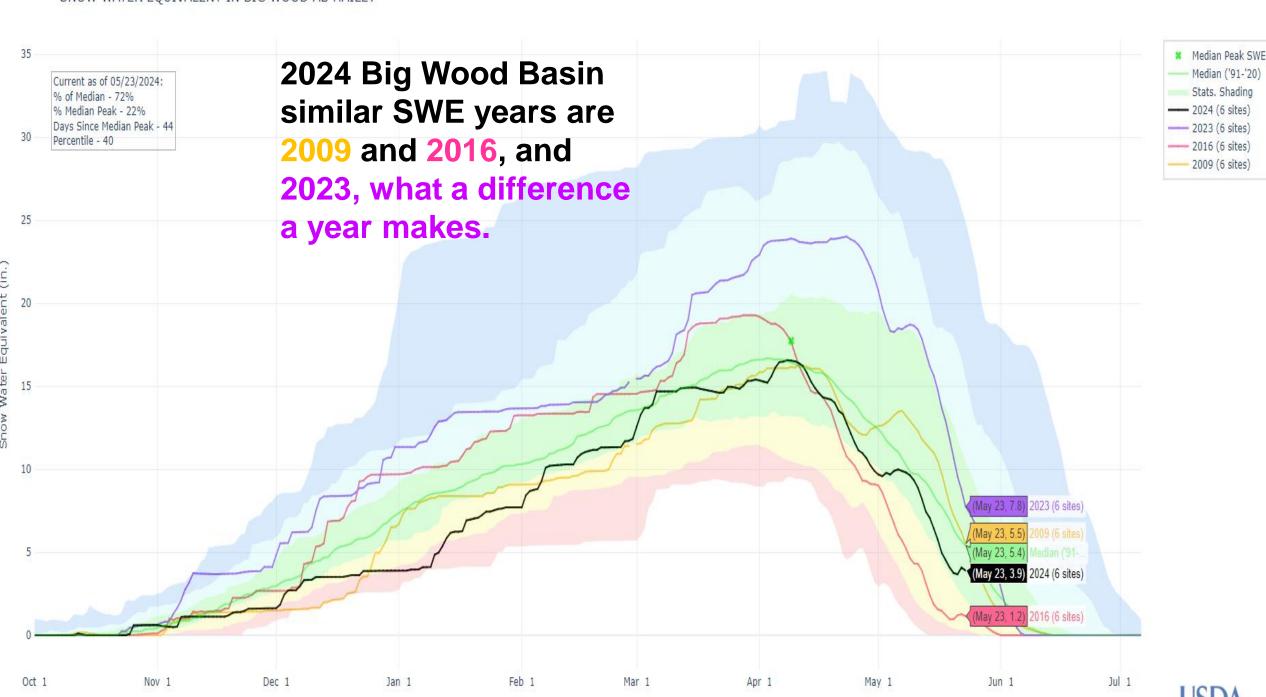
Tuesday A 20 percent chance of showers and thunderstorms after noon. Snow level 10300 feet rising to 11100 feet in the afternoon. Mostly sunny, with a high near 62.

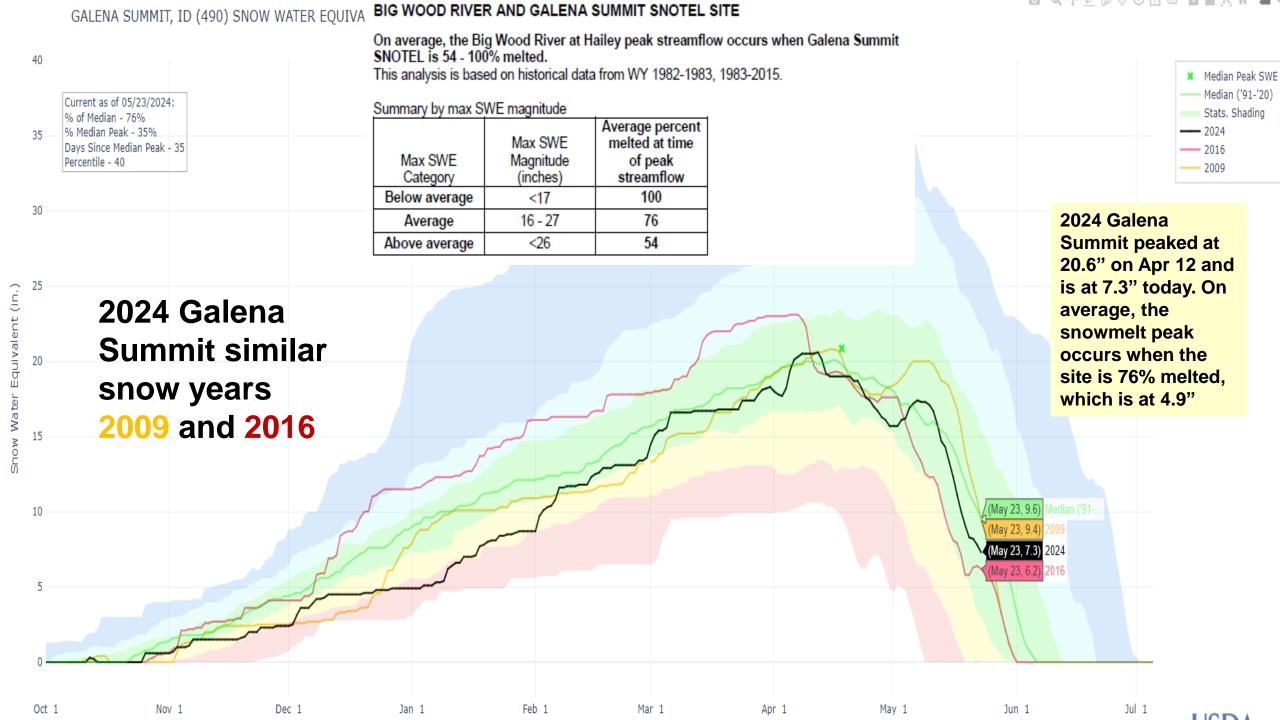
Tuesday Night A 20 percent chance of rain before midnight. Snow level 11300 feet lowering to 10800 feet after midnight. Mostly cloudy, with a low around 40.

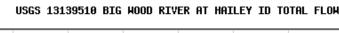
Wednesday Mostly sunny, with a high near 56.

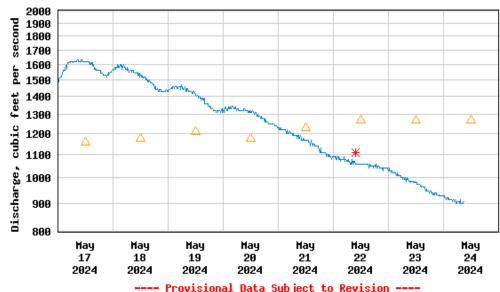
Wednesday Night Mostly clear, with a low around 35.

Thursday A 20 percent chance of rain. Snow level 8600 feet. Sunny, with a high near 53.









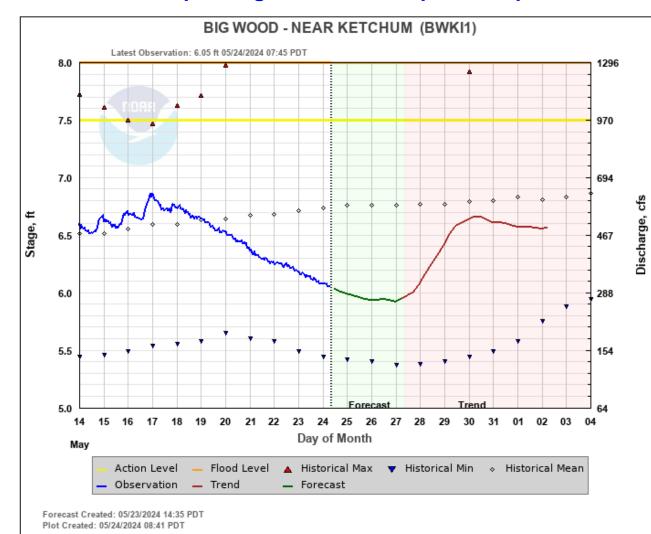
△ Median daily statistic (108 years) \* Measured discharge — Discharge

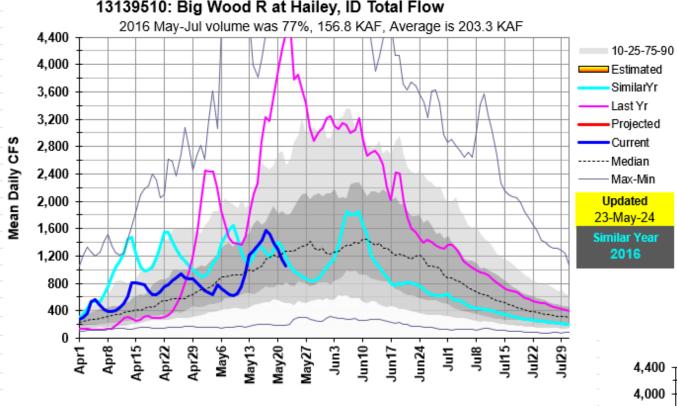
Keep in mind the Snow2Flow Relationship is based on snowmelt relationship with snowmelt peak flows.

Any given day with rain or hot temps can generate additional peaks or a higher peak for the season.

NWS Forecast & Trend shows another peak with return of warmer temps.

There is enough remaining snow to generate another peak. The question is – will next increase be less, equal or greater than the previous peak...

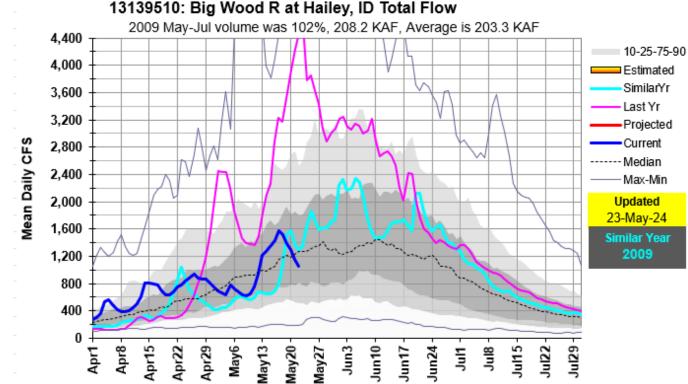


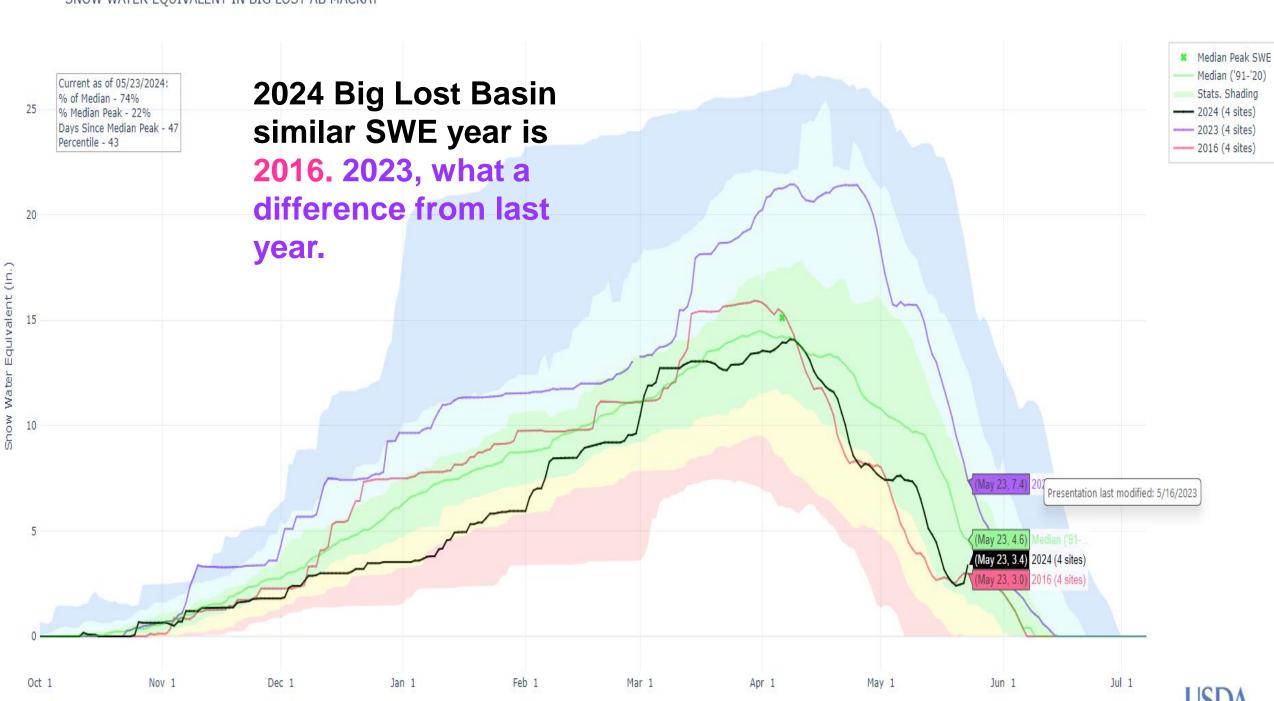


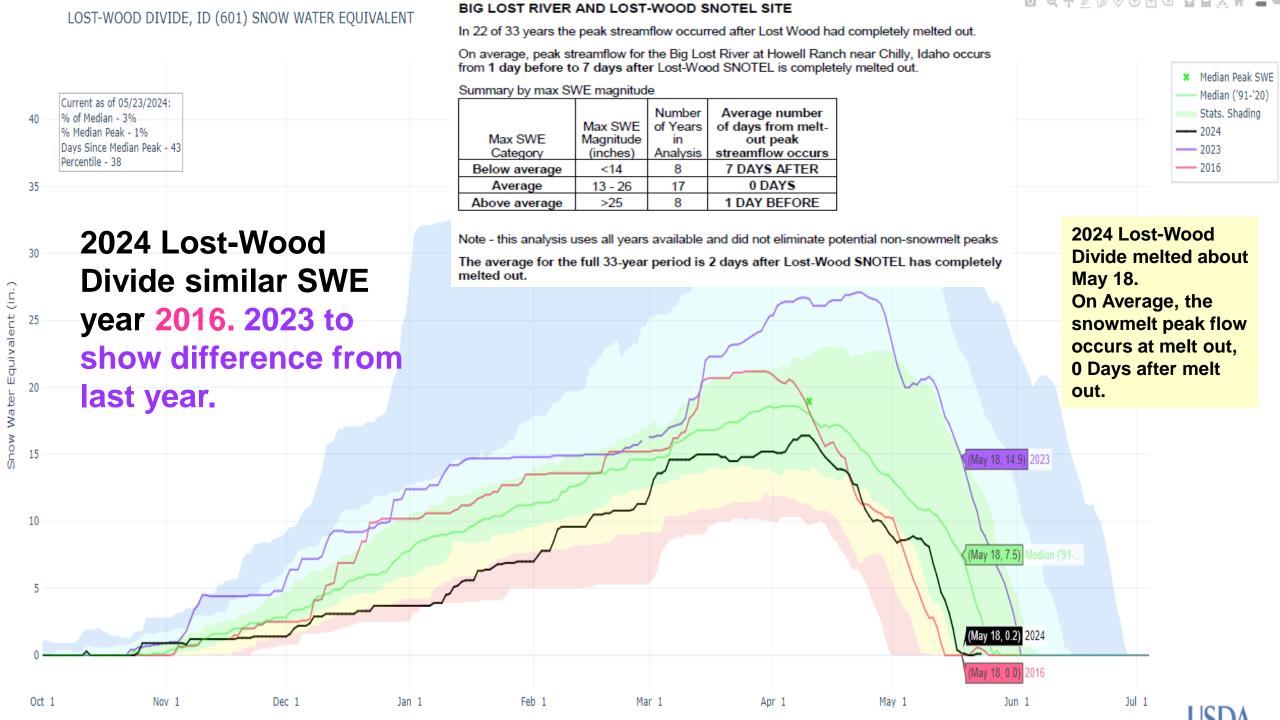
Big wood River Runoff for similar snow years:

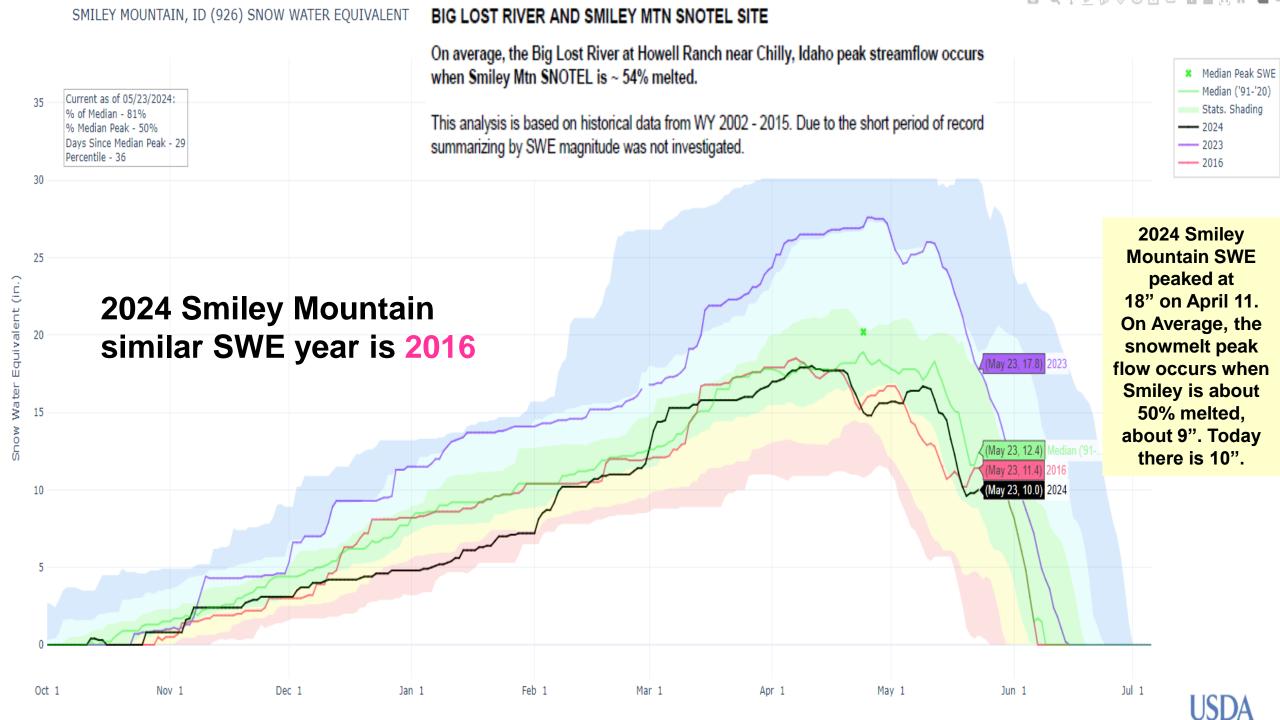
With another peak likely, 2016 may be a good similar flow pattern year to watch.



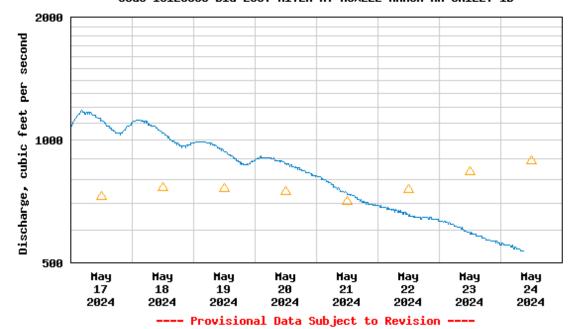








### USGS 13120500 BIG LOST RIVER AT HOWELL RANCH NR CHILLY ID

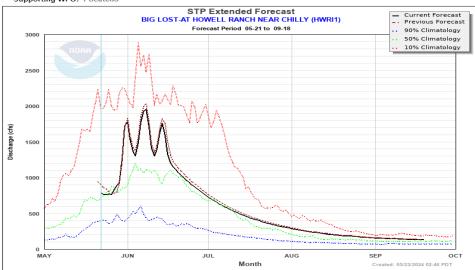


△ Median daily statistic (112 years) — Discharge

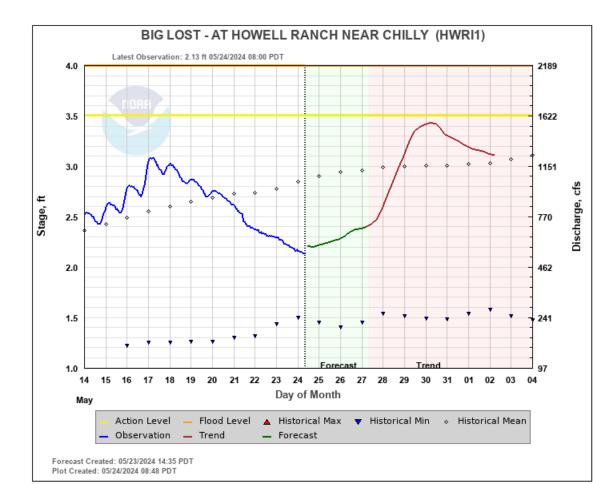
### **BIG LOST--AT HOWELL RANCH NEAR CHILLY**

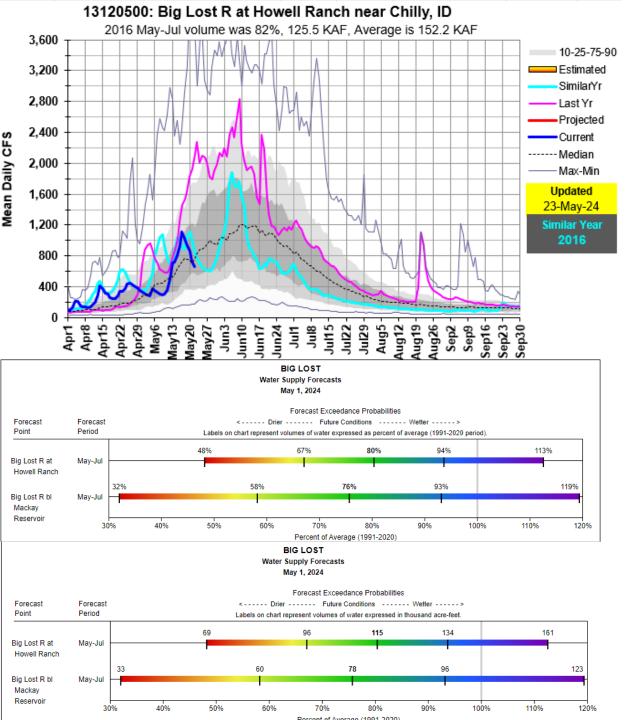
State: Idaho County: CUSTER Latitude: 43 59' 54" North Longitude: 114 1' 16" West

Supporting WFO: Pocatello



**NWS** Big Lost Forecast & Trend shows another peak similar in magnitude as first peak. The STP Extended Forecast shows several peaks in earlier June which seems optimistic.





Big Lost River Runoff for similar snow year.

2024 May-Jul Runoff Volume Forecast is 80% of avg, 115
KAF.

2016 May-Jul Runoff Volume was 125 KAF which is similar to forecast volume.

Time will tell how high the next increase is in the Big Lost River. Lost-Wood Divide is melted out and shows peak occurred, but cold spell slowed the melt.

Smiley Mnt is a much higher site and shows another peak likely when warm temps return. Looks like similar weather pattern happened in 2016 with a cold/wet front bringing more snow as seen in Lost-W00d Divide 2016 SWE graph.

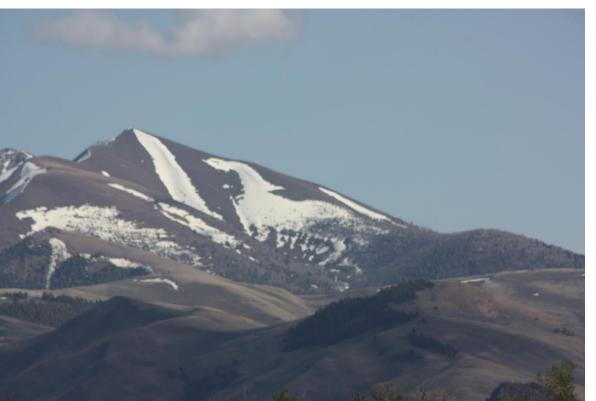
Trust the Smiley Mnt relationship and 10-day NWS Forecast & Trend that show another peak is likely.

It's always to nice use 2 SNOTEL sites with the Snow2Flow peak flow relationships while comparing to NWS projections.

Here's another tool – has anyone seen the Big Lost White Stallion this year? When you do it usually means the peak is happening. Let me know if you did and the date. Time for a road trip to some of the prettiest mountains in Idaho! Ski ya there!

## Picture taken June 8, 2006

- Lost-Wood Divide had SWE of 0.0" first day melted out
- SNOTEL analysis shows Big Lost peak flow occurs about around Lost-Wood Divide melt out



# The Big Lost White Stallion When you see it, means the snow melt peak flow is occurring.

