



AGENDA

IDAHO WATER RESOURCE BOARD

Upper Snake River Advisory Committee Meeting No. 4-24

Thursday, April 11, 2024

10:00 a.m. (MST)

Meeting Location(s):

BOISE
Water Center
Conf. Room 602B
322 E. Front St.

IDAHO FALLS
Eastern Regional Office
Main Conference Room
900 N. Skyline Dr.

or

VIDEO conference via Zoom is available upon registration, contact
cooper.fritz@idwr.idaho.gov for registration information

Brad Little
Governor

Jeff Raybould
Chairman
St. Anthony
At Large

Jo Ann Cole-Hansen
Vice Chair
Lewiston
At Large

Dean Stevenson
Secretary
Paul
District 3

Dale Van Stone
Hope
District 1

Albert Barker
Boise
District 2

Brian Olmstead
Twin Falls
At Large

Marcus Gibbs
Grace
District 4

Patrick McMahon
Sun Valley
At Large

1. Introductions and Attendance
2. Weather Forecast (NOAA)
3. Snow Pack / Streamflow Forecasts (NRCS)
4. Water Supply / Operations Update (USBR)
5. Idaho Power Company
 - a. Operations Update
 - b. Cloud Seeding Update
6. Water District 01 Briefing
7. IWRB Managed Recharge Operations
8. New Business
9. Adjourn

Committee Member: Brian Olmstead

Americans with Disabilities

The meeting will be held in person and online. If you require special accommodations to attend, participate in, or understand the meeting, please make advance arrangements by contacting Department staff by email jennifer.strange@idwr.idaho.gov or by phone at (208) 287-4800.



Watch later

Snowpack & Water Supply Forecasts

*Upper Snake River Advisory Committee
April 11, 2024*



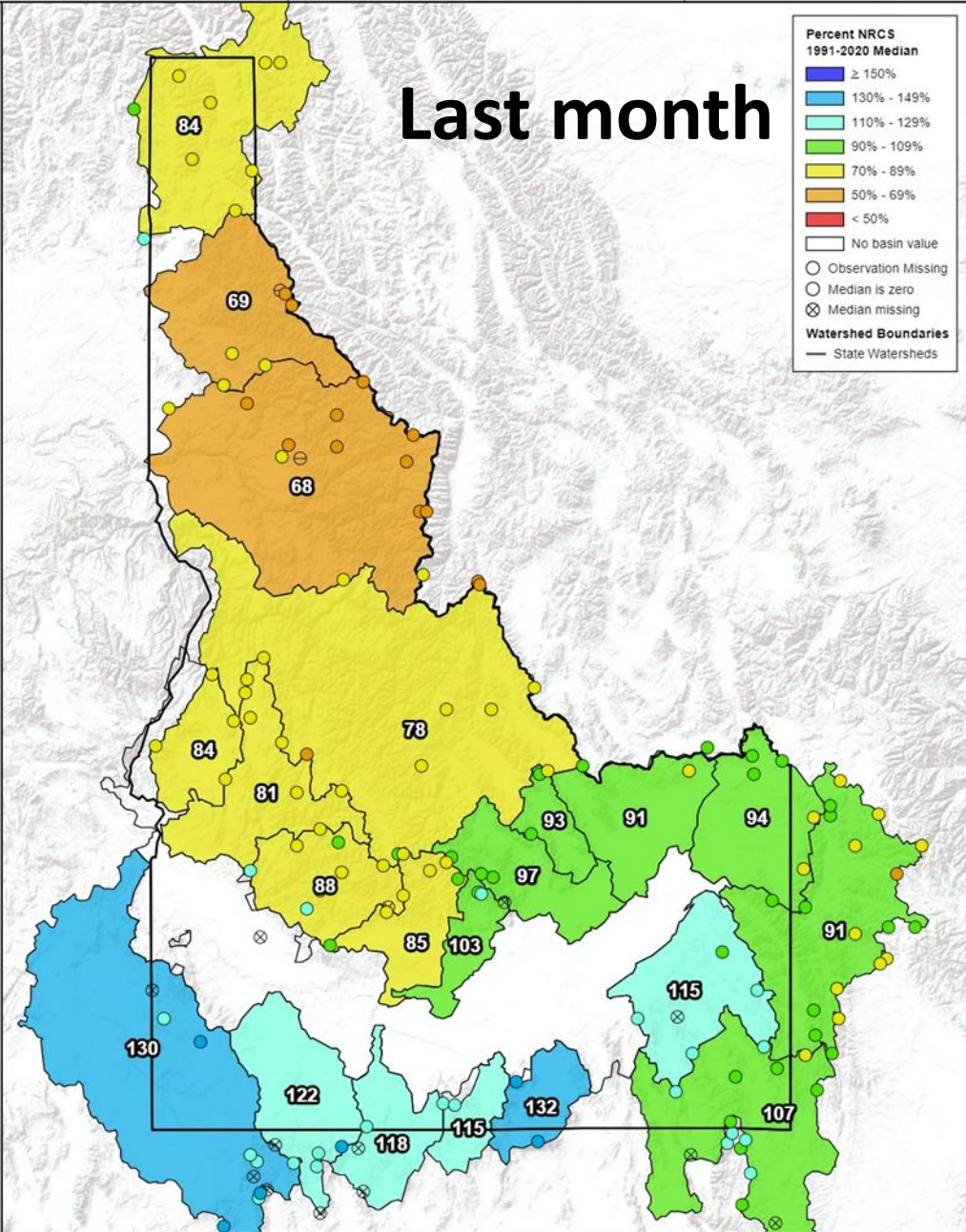
Presented by Erin Whorton

Water Year to Date Precipitation

Percent NRCS 1991-2020 Median

October 1, 2023 - February 6, 2024

Last month

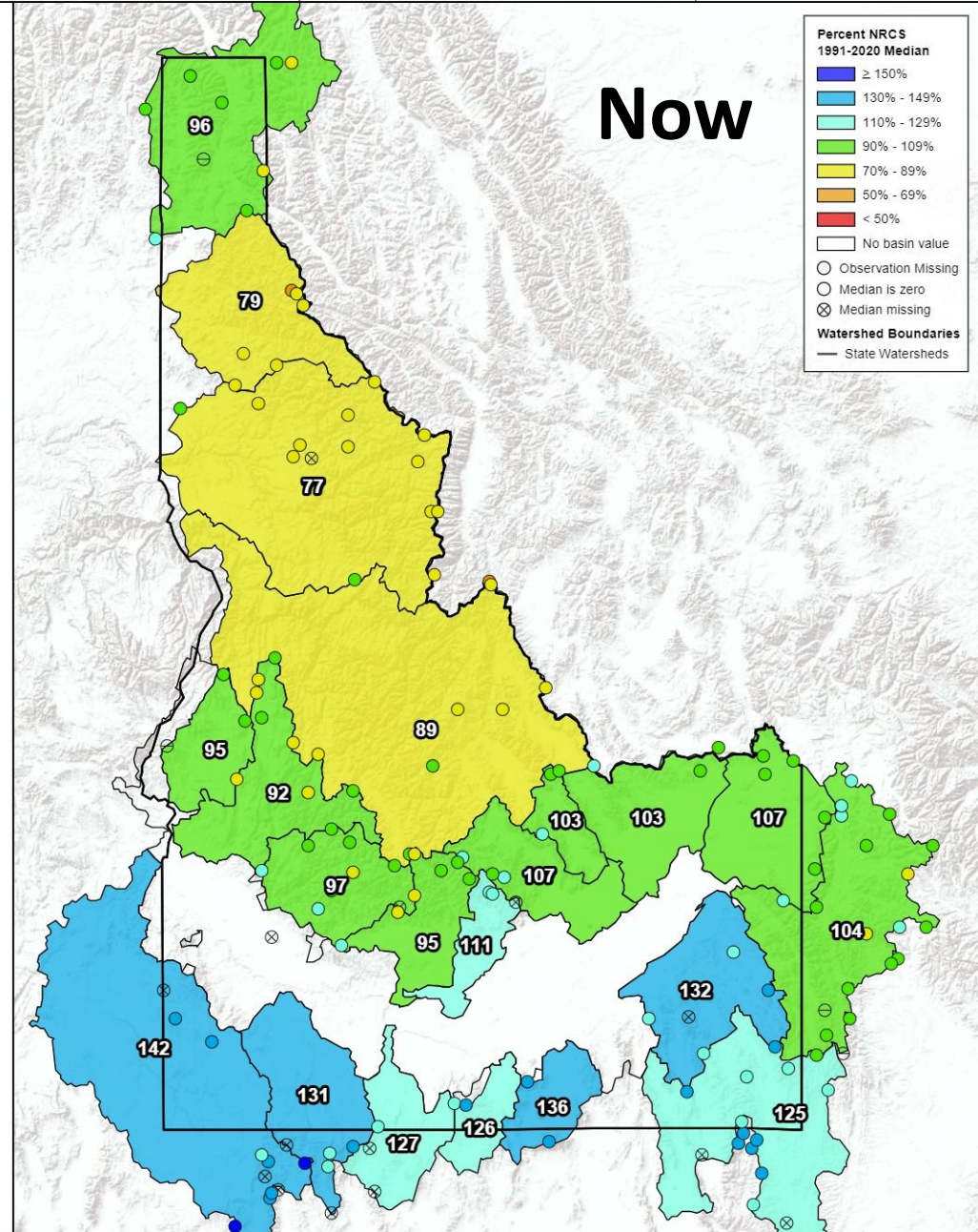
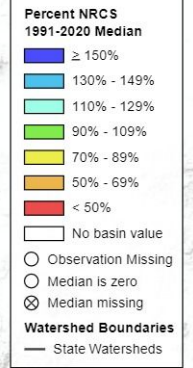


Water Year to Date Precipitation

Percent NRCS 1991-2020 Median

October 1, 2023 - March 12, 2024

Now

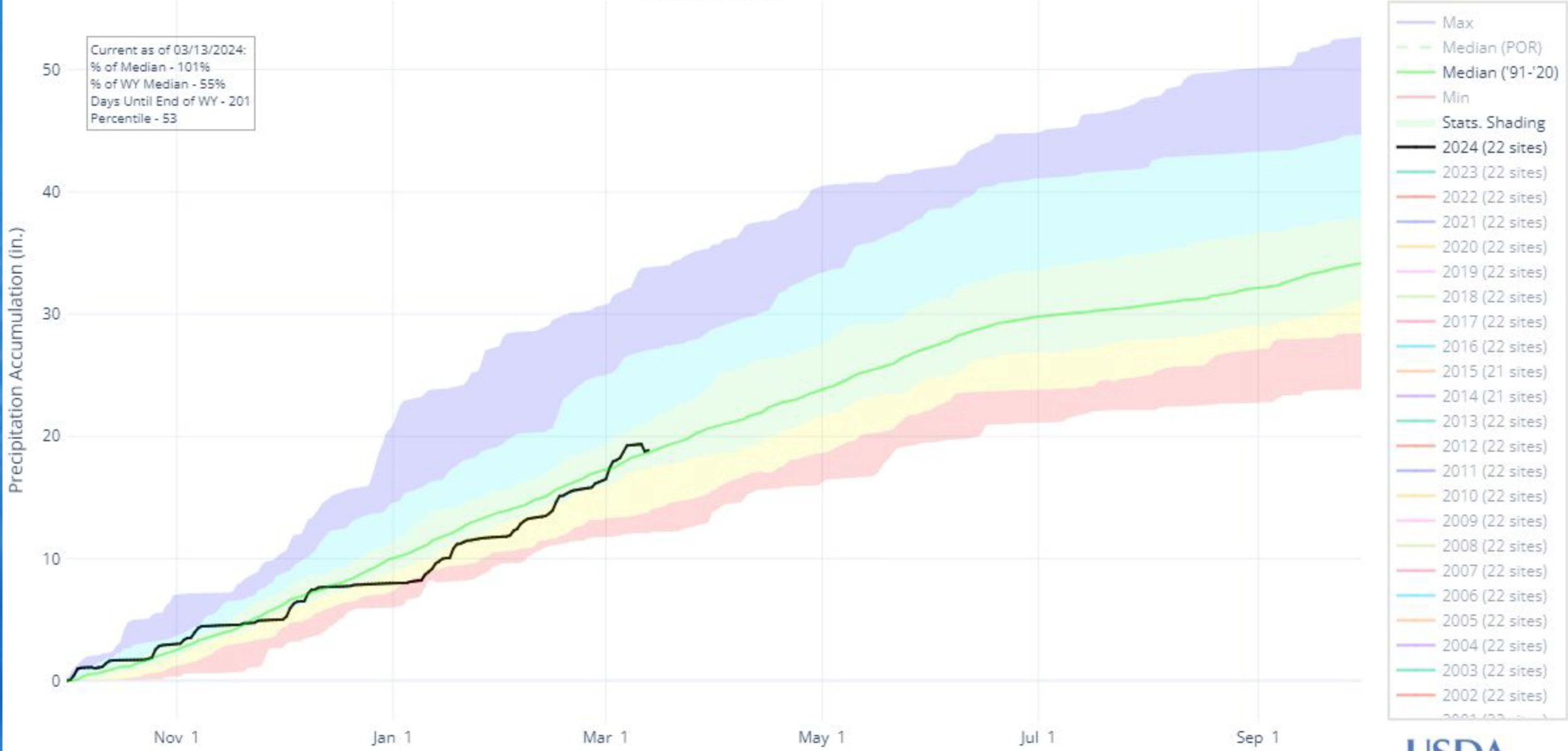


PRECIPITATION ACCUMULATION IN SNAKE RIVER ABOVE HEISE

Reset Range

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

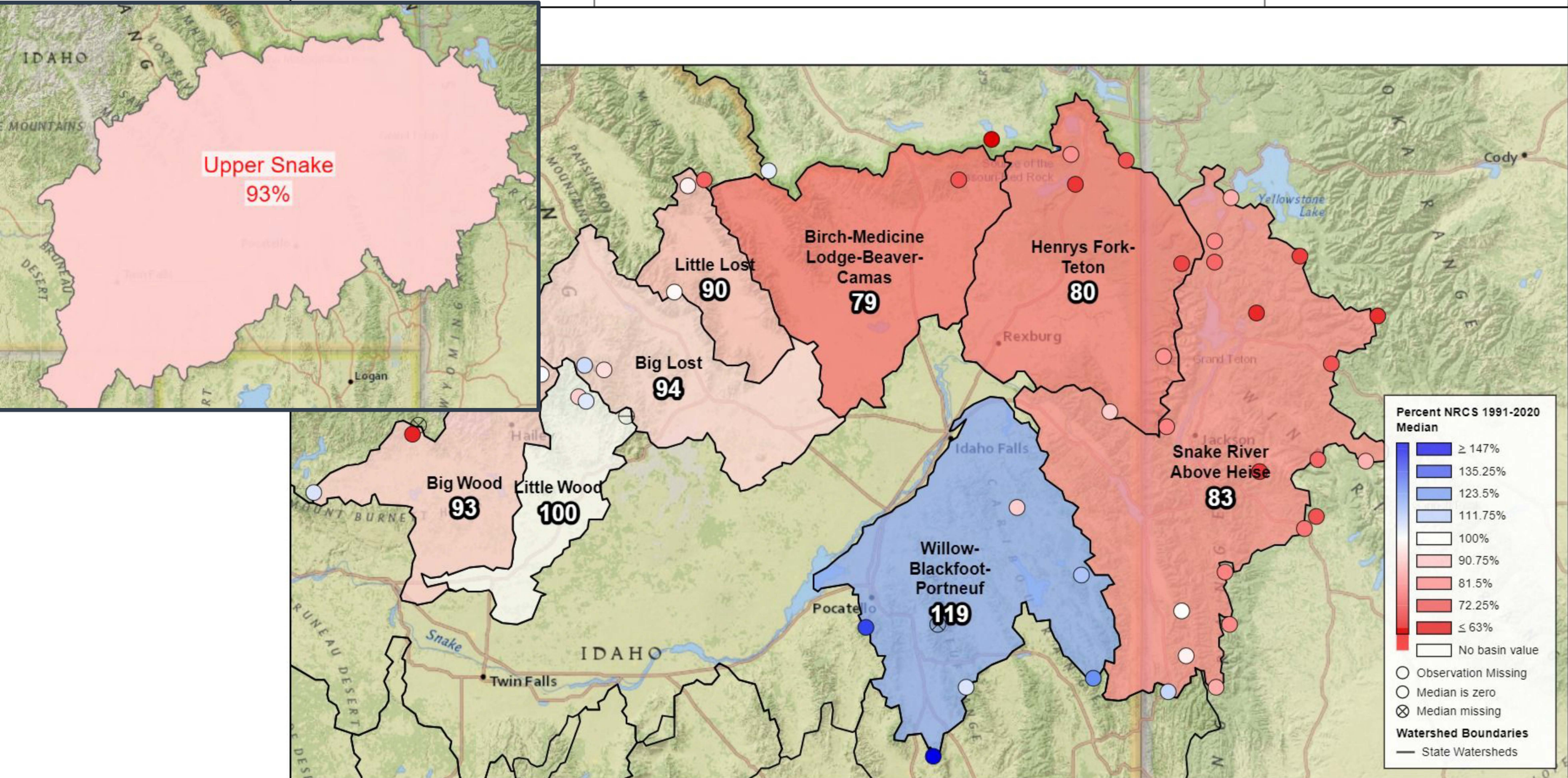
Station List



Snow Water Equivalent

Percent NRCS 1991-2020 Median

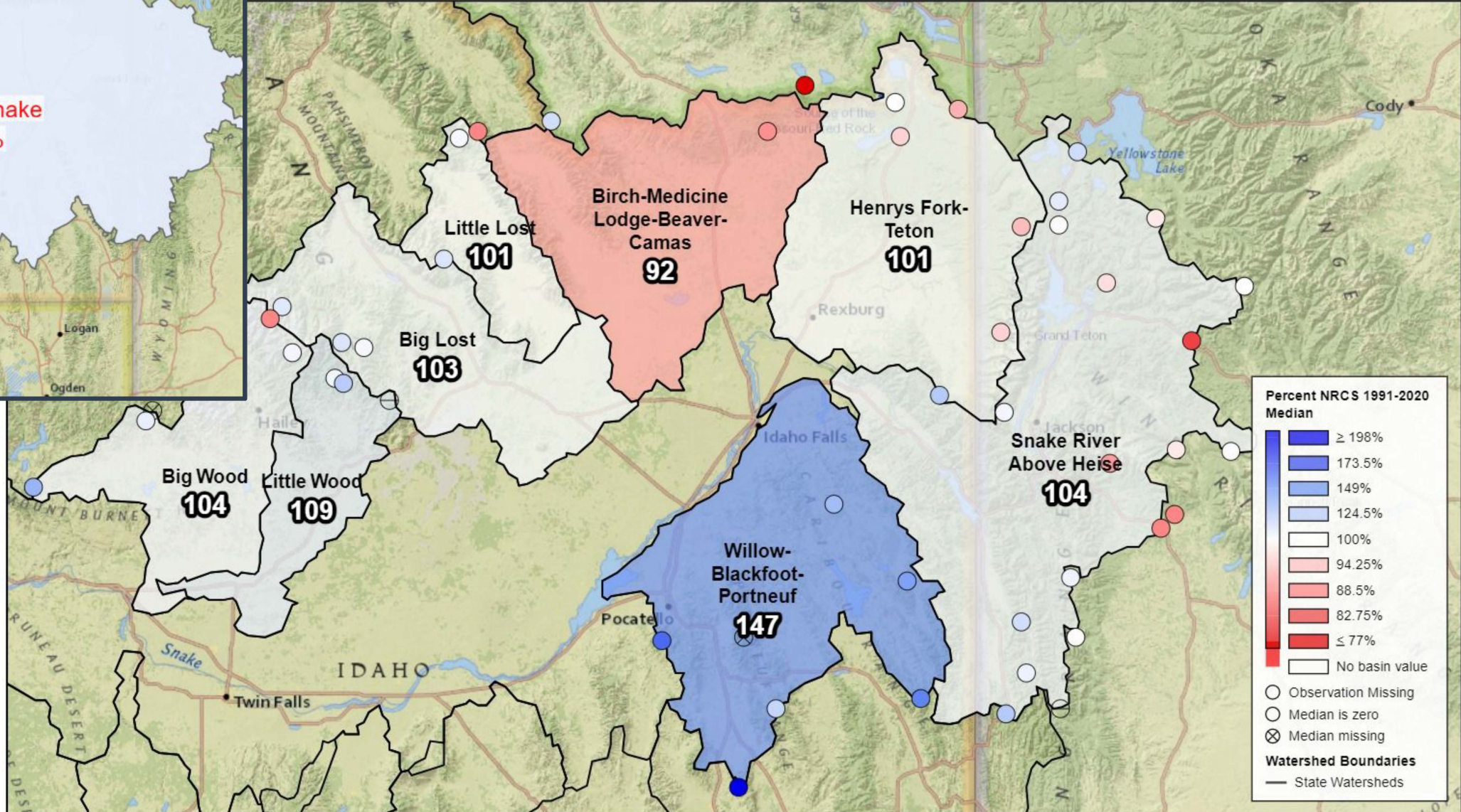
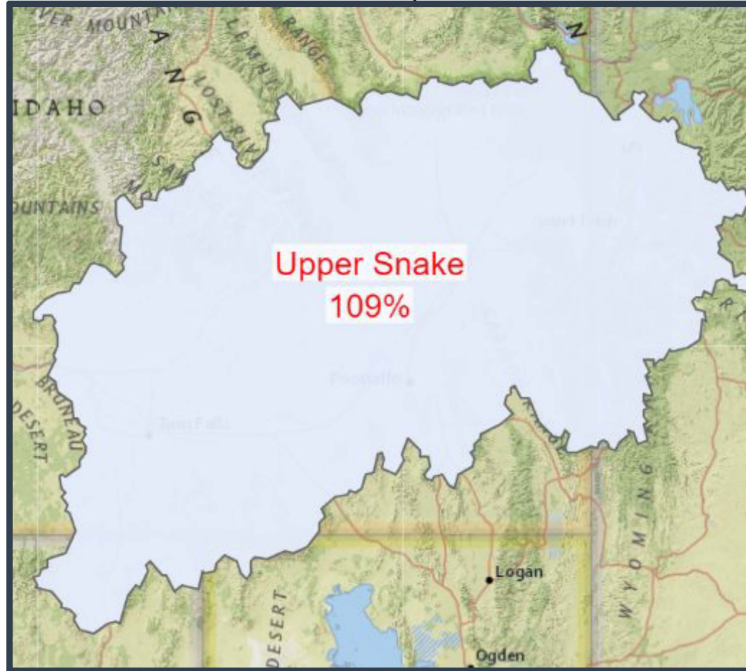
February 7, 2024, first of day



Snow Water Equivalent

Percent NRCS 1991-2020 Median

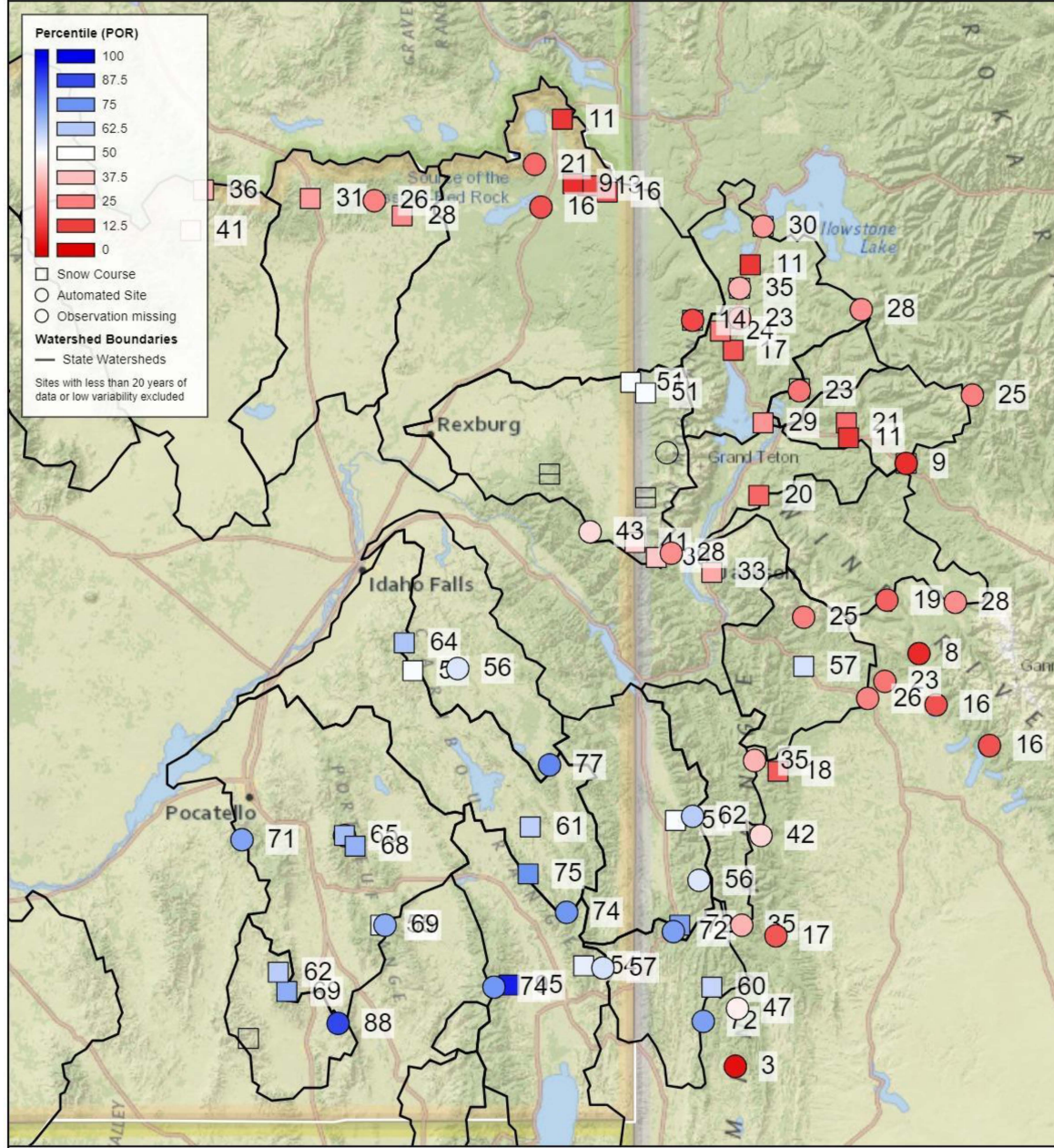
March 13, 2024, first of day



Snow Water Equivalent

Percentile (POR)

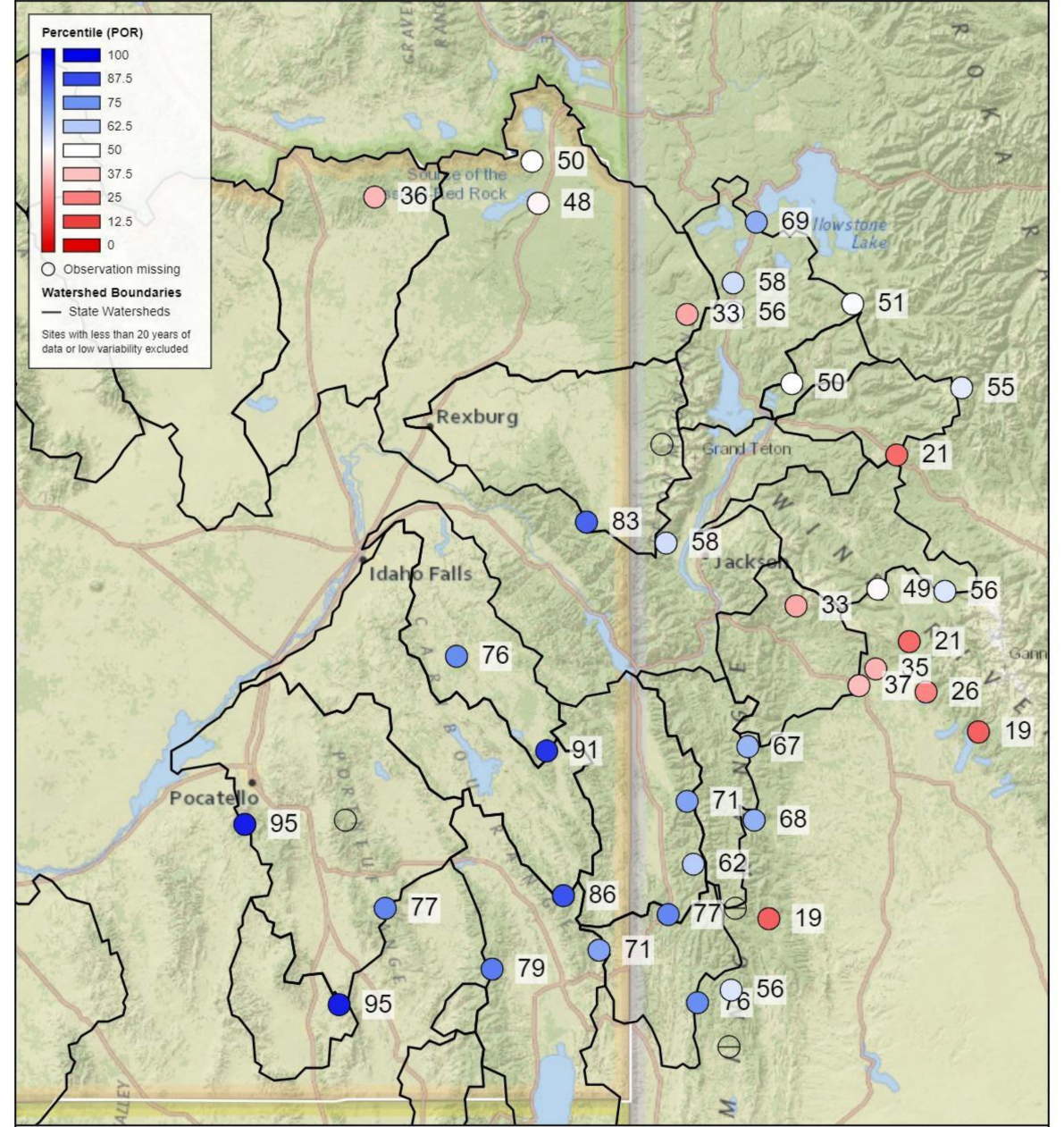
March 1st, 2024



Snow Water Equivalent

Percentile (POR)

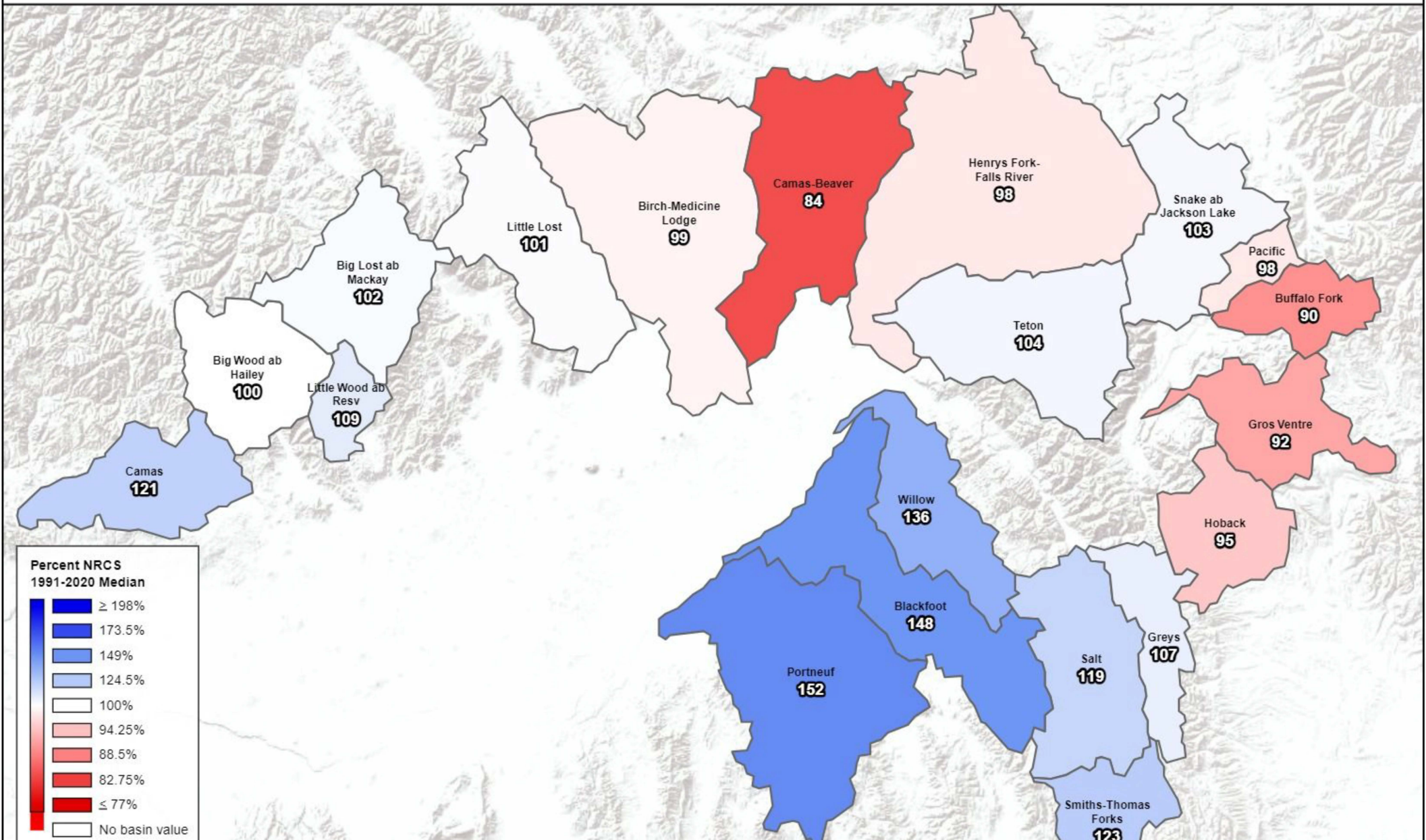
March 13, 2024, first of day



Snow Water Equivalent

Percent NRCS 1991-2020 Median

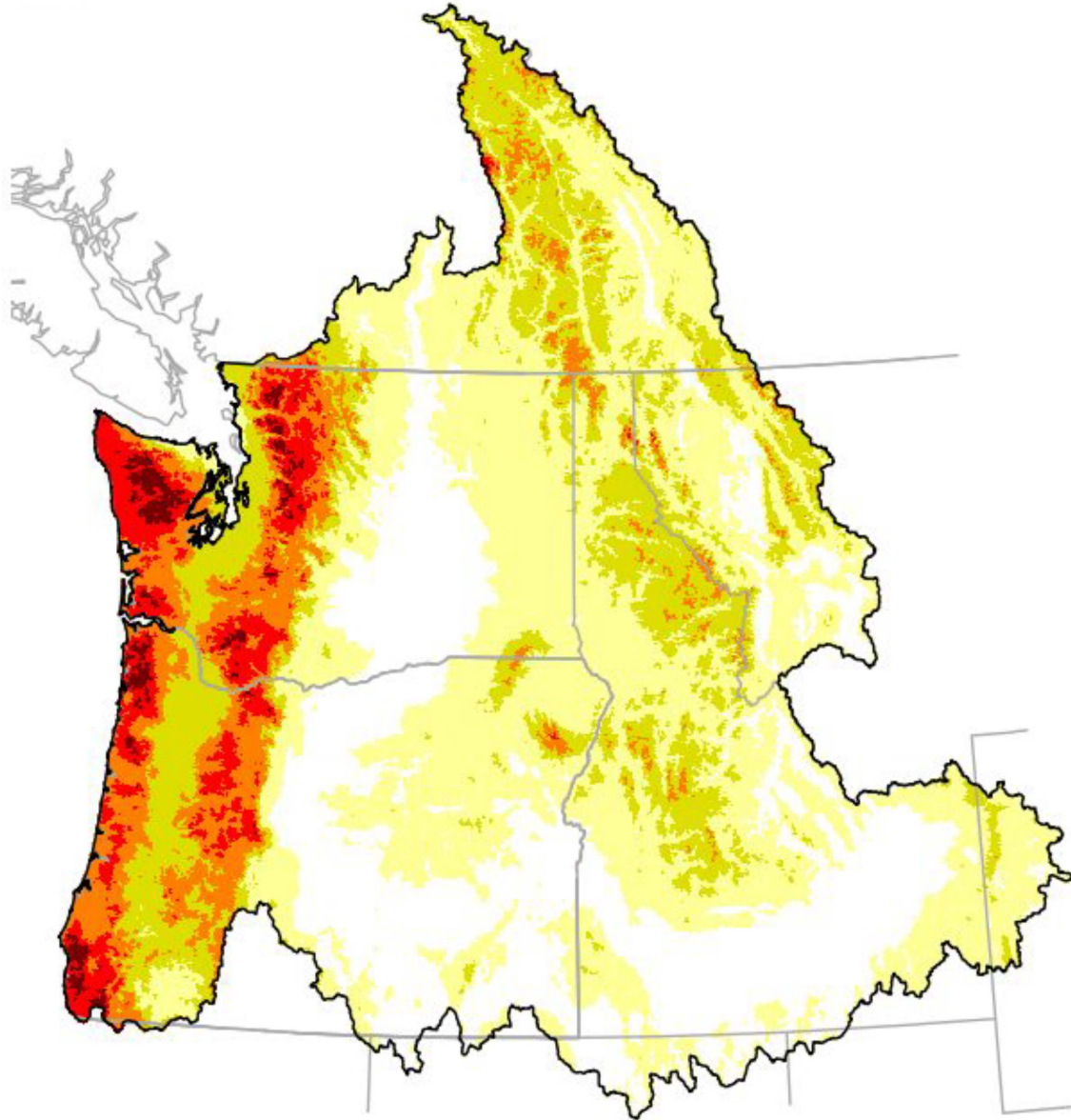
March 13, 2024, first of day





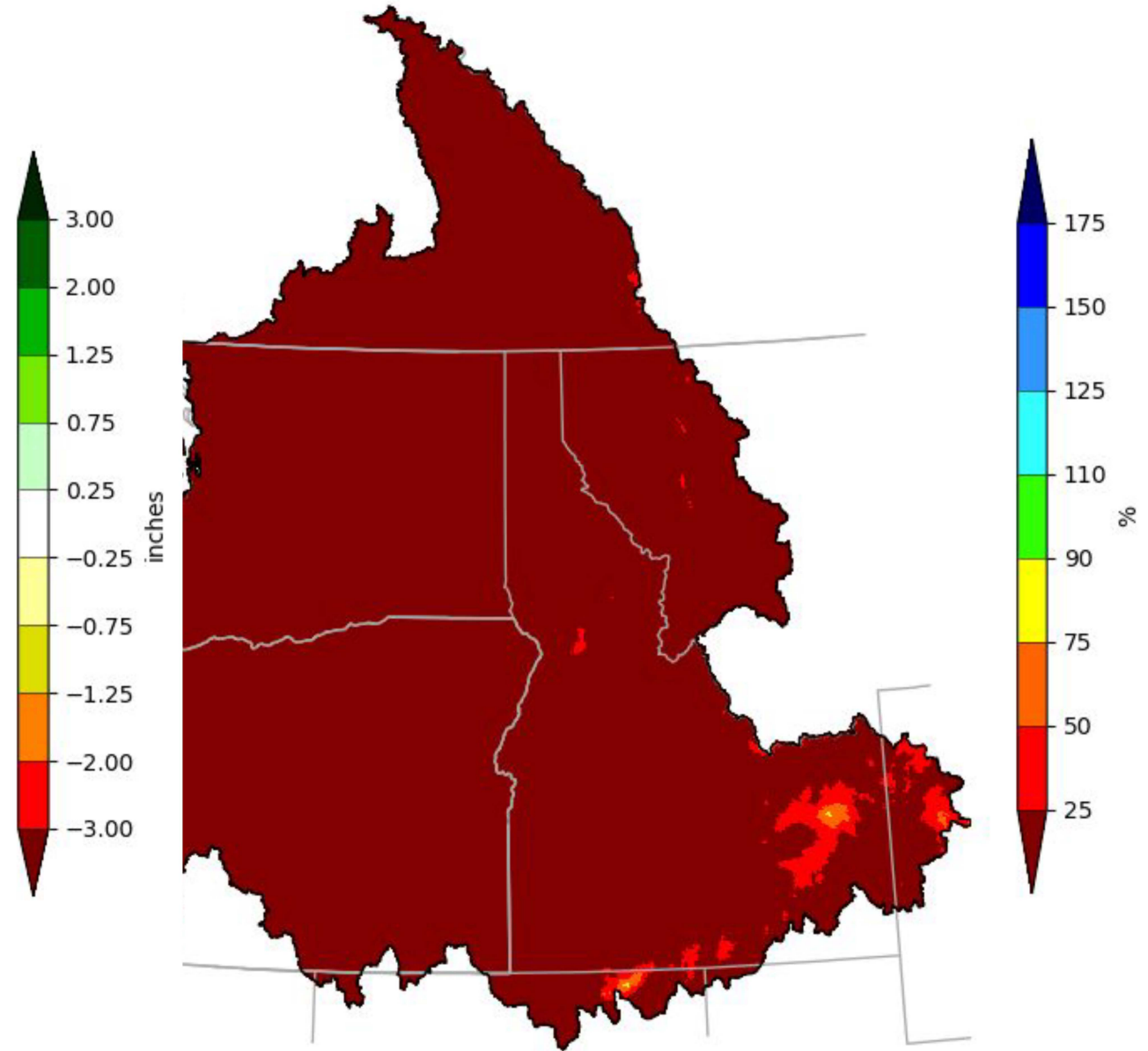
Northwest River Forecast Center

5 Day QPF (Deviation from Climatology), Ending 12Z, 03/18/24



west River Forecast Center

QPF (Percent of Climatology), Ending 12Z, 03/18/24



SNOW WATER EQUIVALENT PROJECTION IN SNAKE RIVER ABOVE HEISE

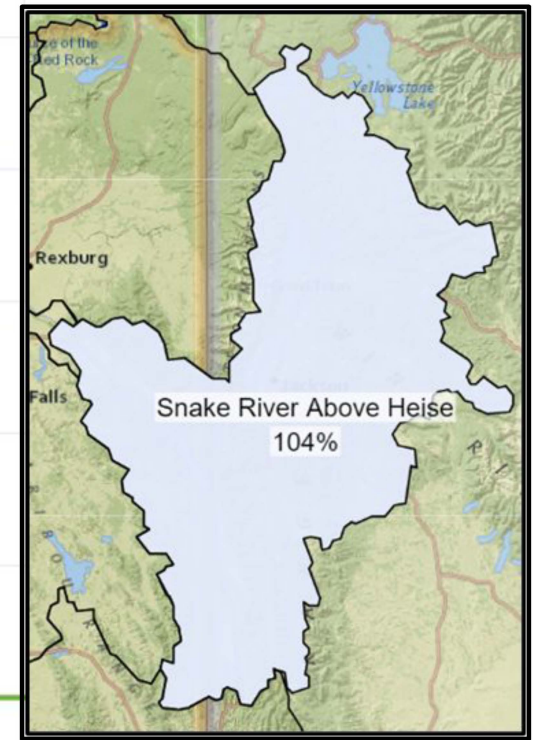
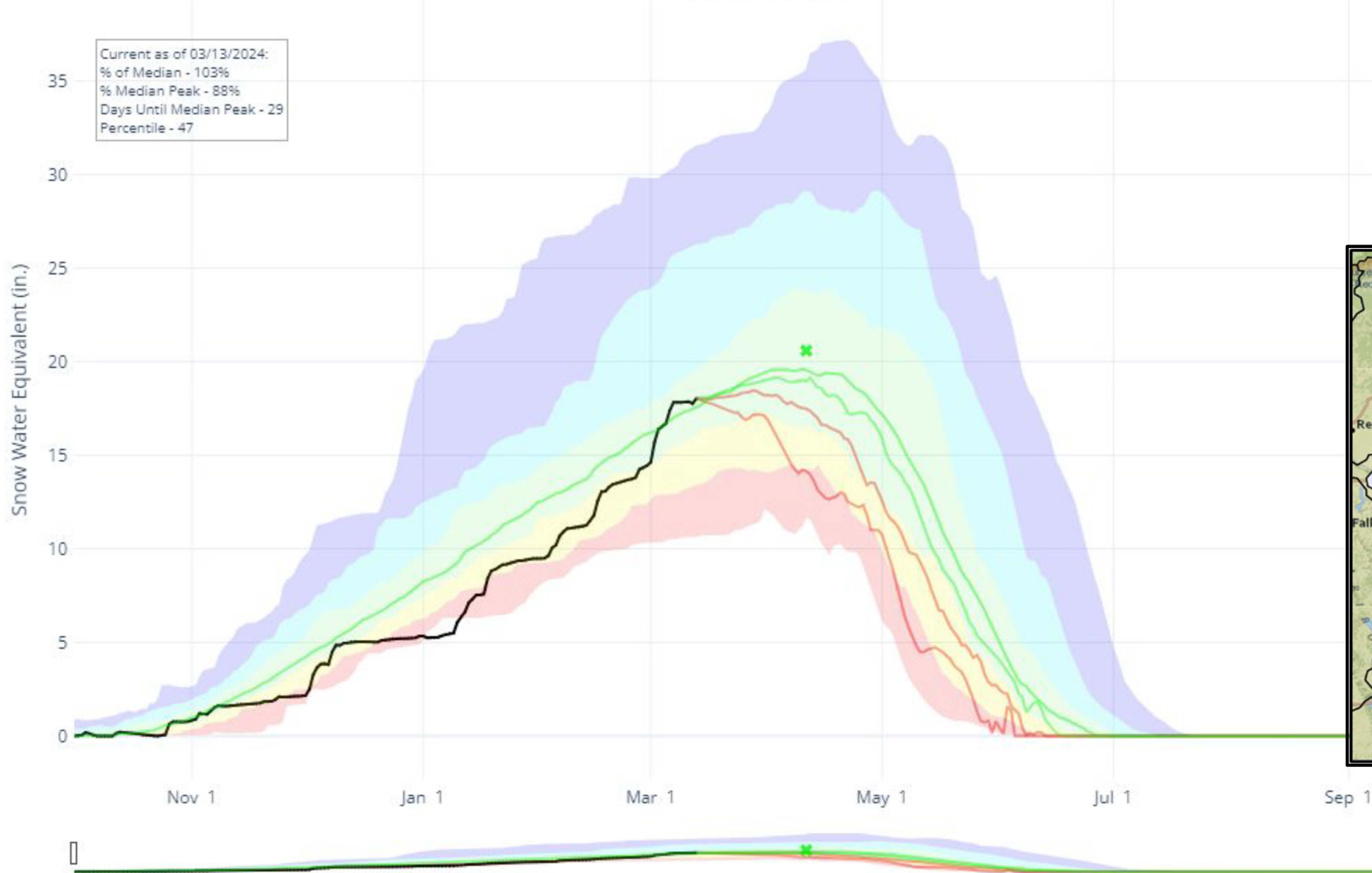
Reset Range

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

Station List

Current as of 03/13/2024:
% of Median - 103%
% Median Peak - 88%
Days Until Median Peak - 29
Percentile - 47

- ✱ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 30% Proj
- 10% Proj
- Min Proj
- 2024 (22 sites)



SNOW WATER EQUIVALENT PROJECTION IN HENRYS FORK-TETON

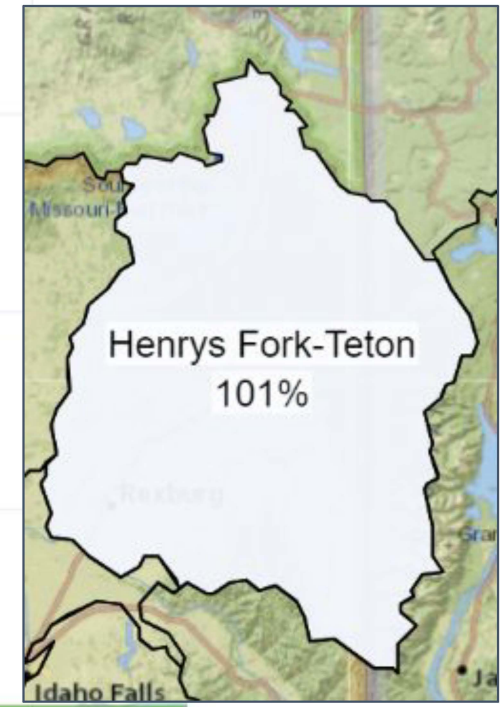
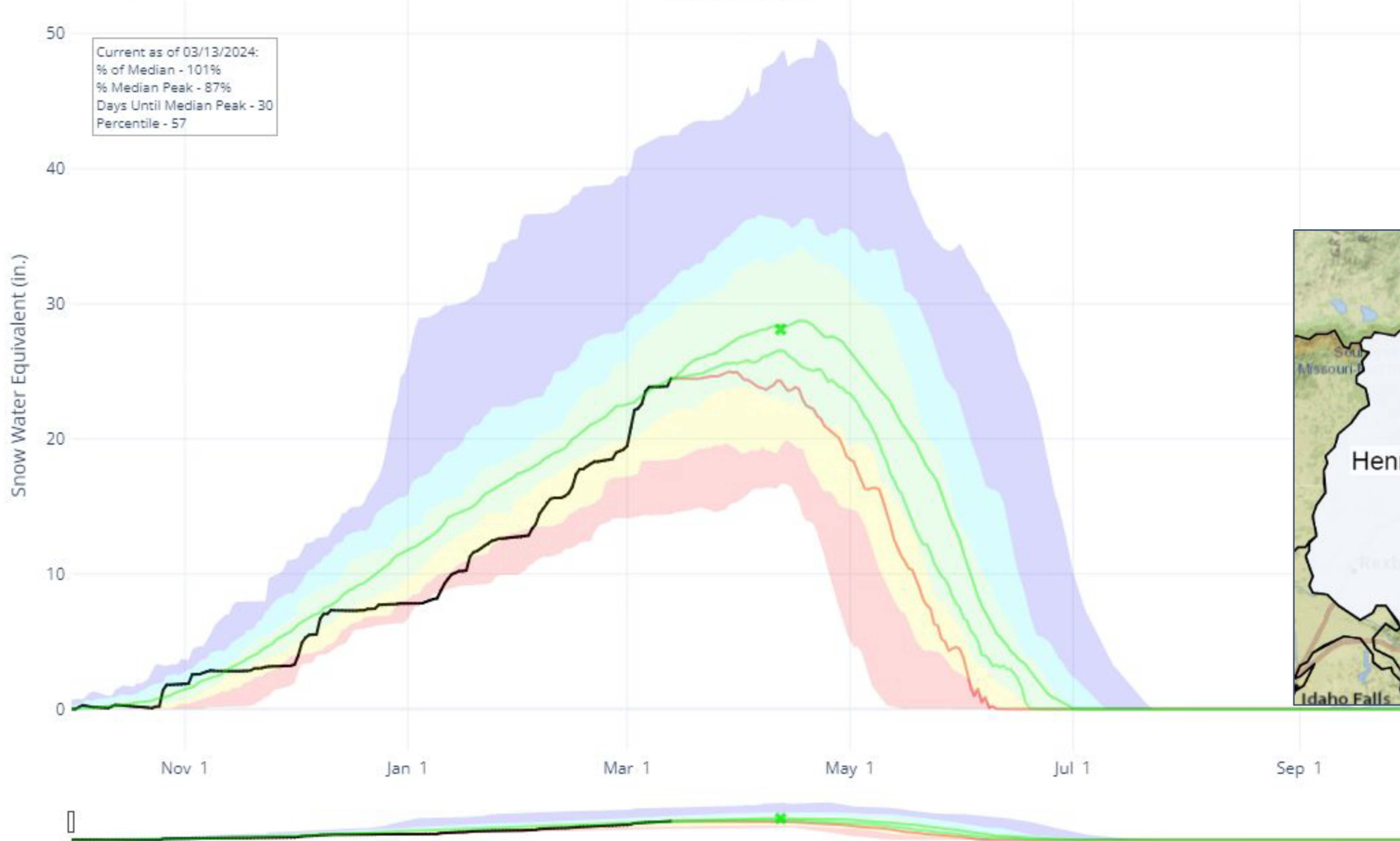
Reset Range

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

Station List

Current as of 03/13/2024:
% of Median - 101%
% Median Peak - 87%
Days Until Median Peak - 30
Percentile - 57

- ✱ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 30% Proj
- 10% Proj
- 2024 (8 sites)



SNOW WATER EQUIVALENT PROJECTION IN WILLOW-BLACKFOOT-PORTNEUF

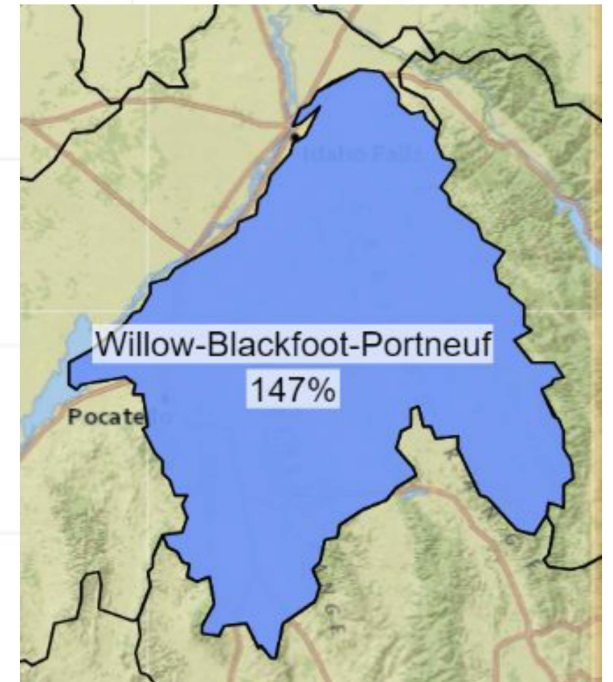
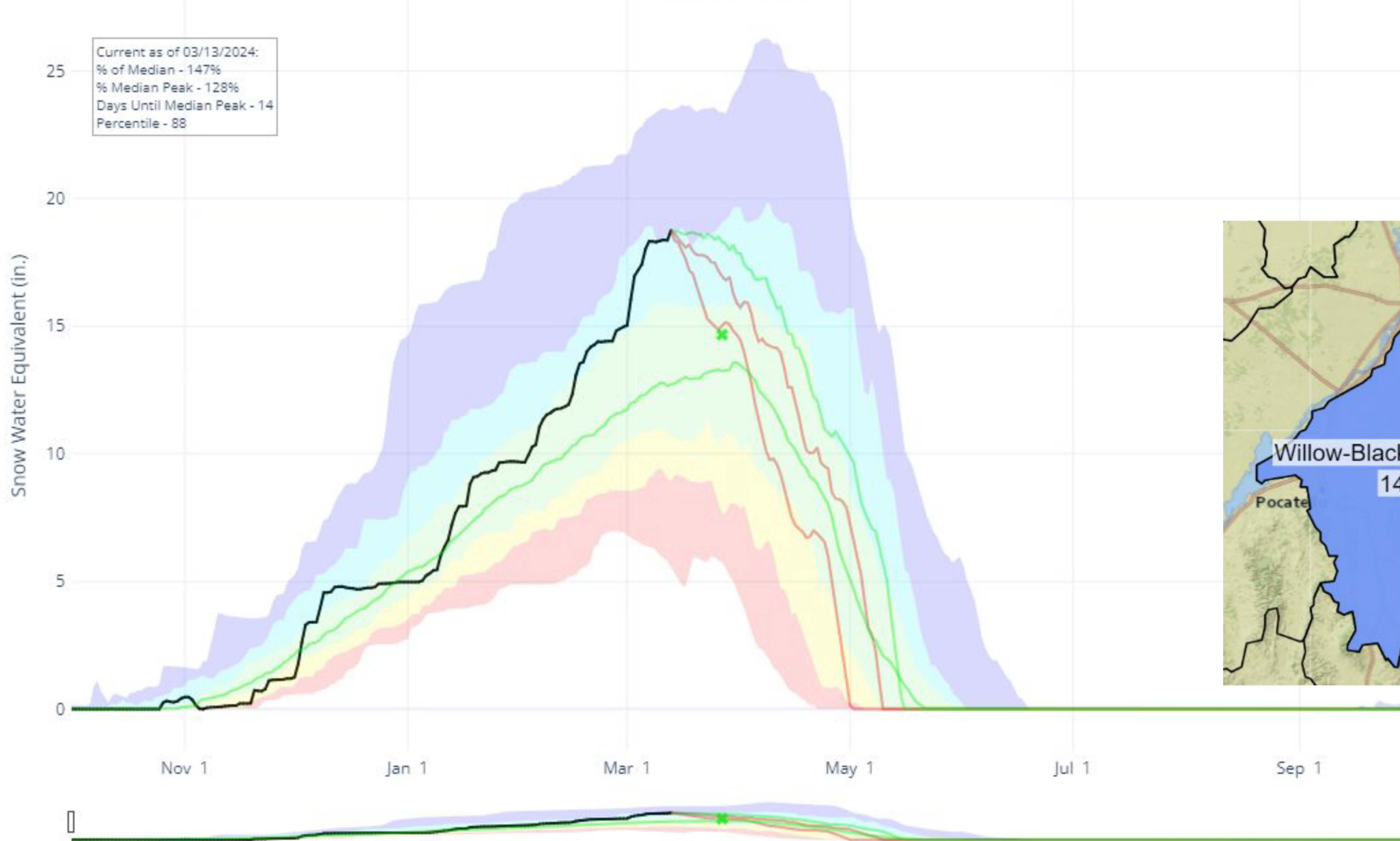
Reset Range

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

Station List

Current as of 03/13/2024:
% of Median - 147%
% Median Peak - 128%
Days Until Median Peak - 14
Percentile - 88

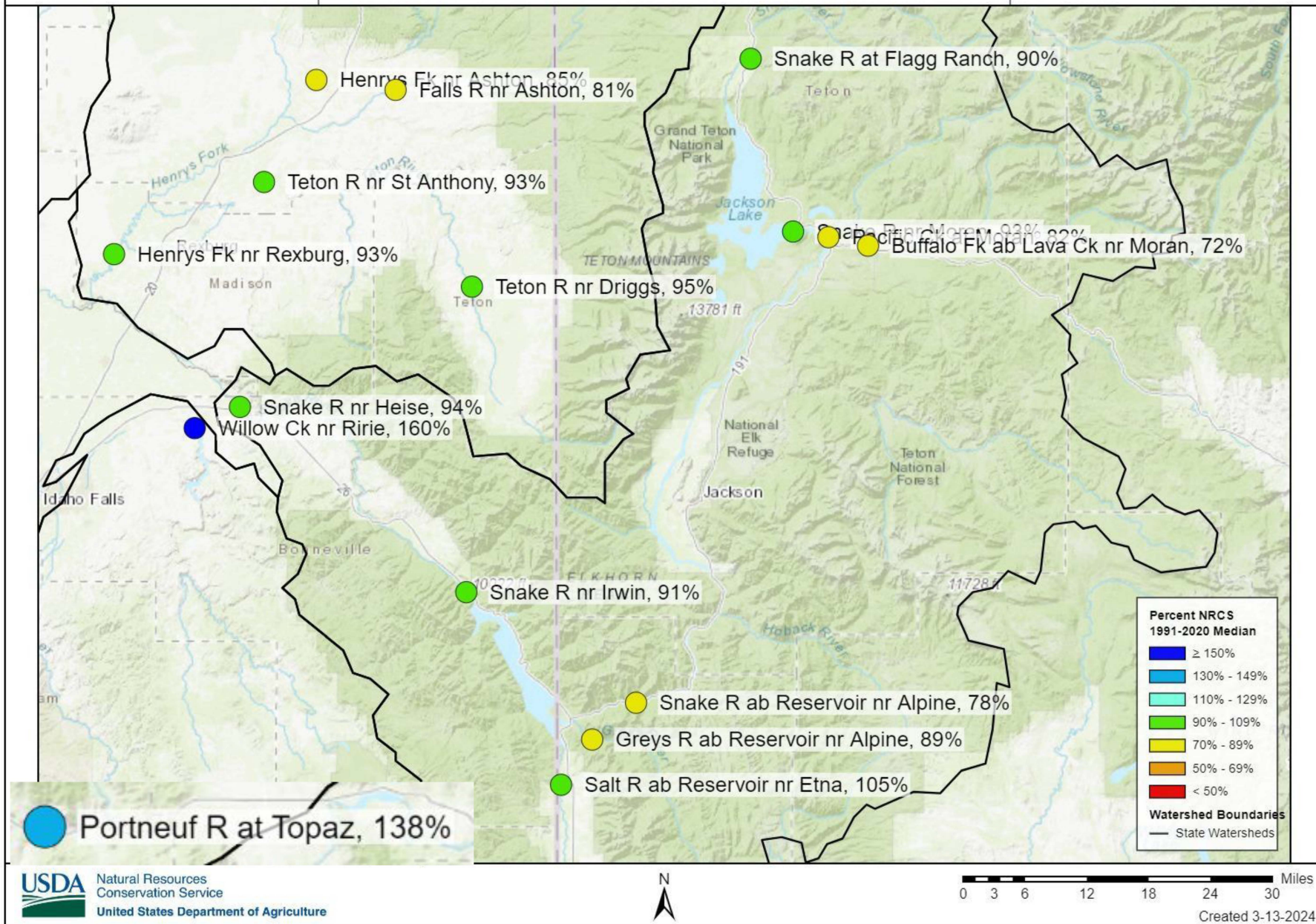
- ✱ Median Peak SWE
- Median ('91-'20)
- Stats. Shading
- 30% Proj
- 10% Proj
- Min Proj
- 2024 (6 sites)



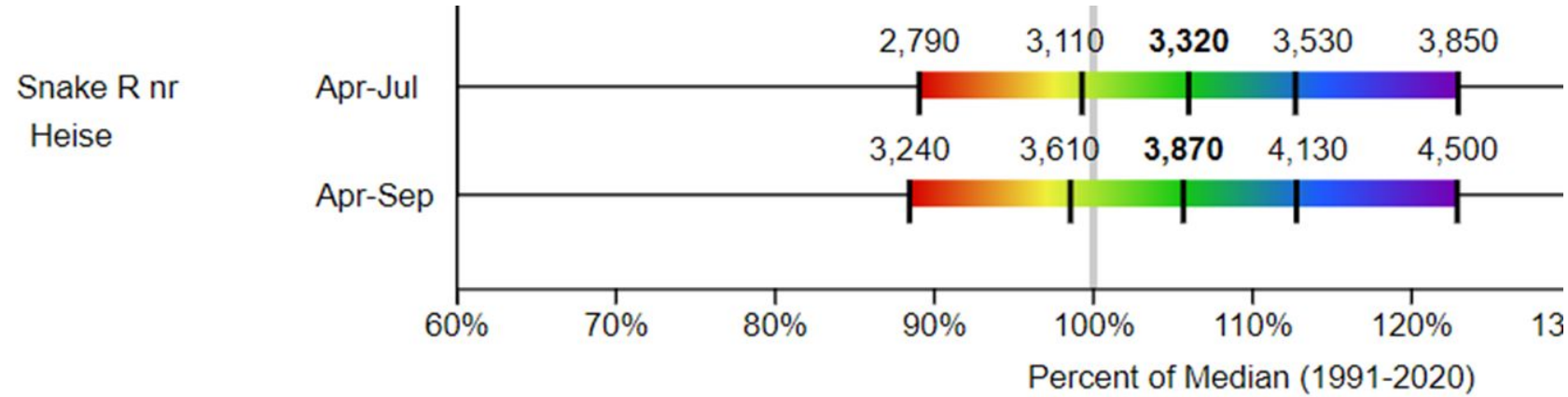
Forecast Volume,
50% Exceedance Probability

Percent NRCS 1991-2020 Median

Primary Period, March 1, 2024

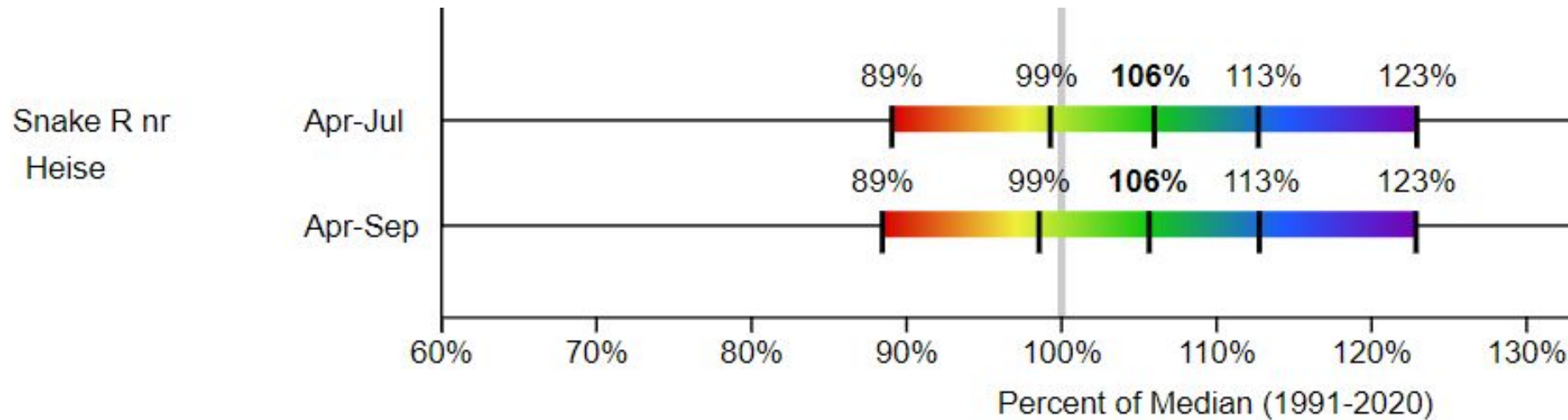


Streamflow Forecasts for April 1 at Heise



KAF (median)
)

Legend



Percent of 30-year normal median

AWS Plots | Air, Water, and Soil Plots

- NWCC Home
- Site Plots ▾
- Basin Plots ▾
- Interactive Map
- Report Generator
- Update Reports
- Forecast Plots ▾**
- Webservices ▾
- Contact Us

Snake River Above Heise

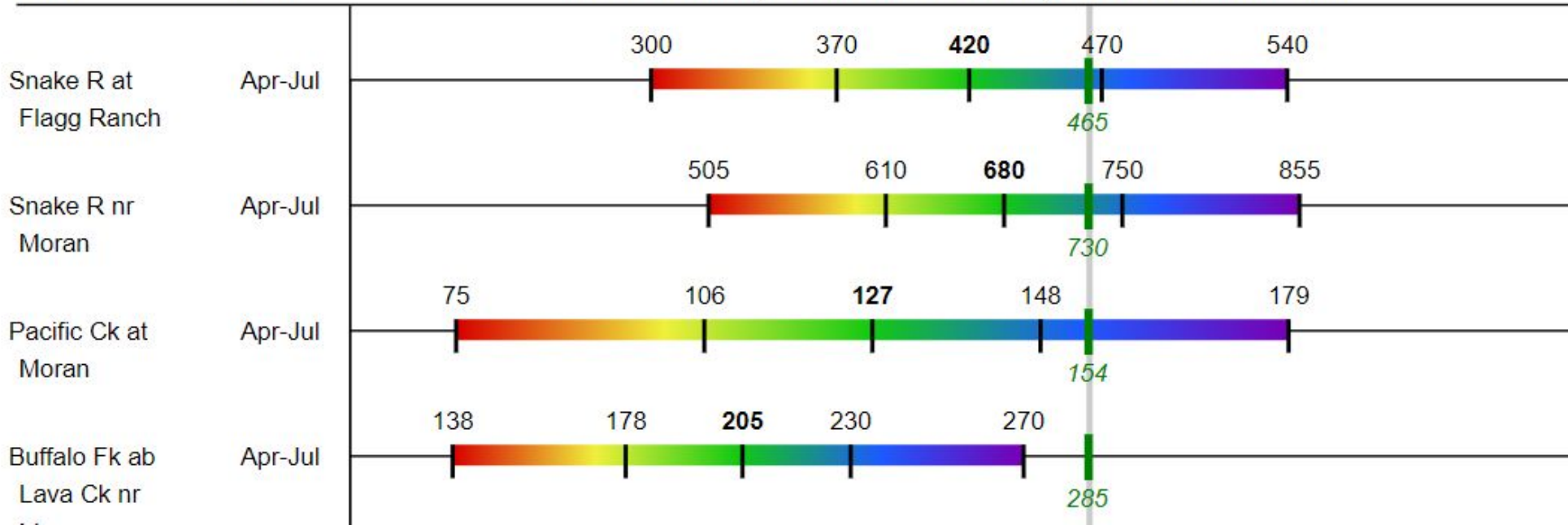
Water Supply Forecasts

March 1, 2024

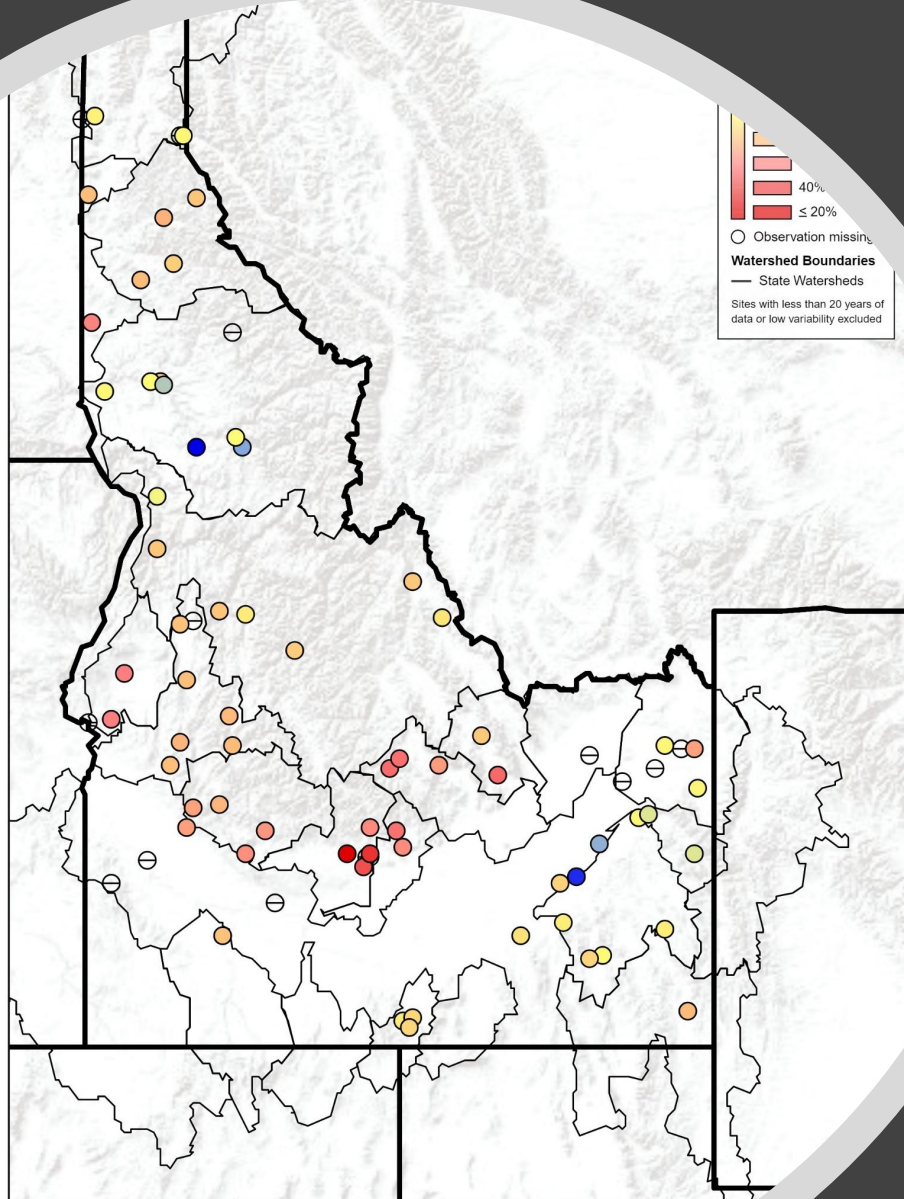
Forecast Exceedance Probabilities

<----- Drier ----- Future Conditions ----- Wetter ----->

Labels on chart represent volumes of water expressed in thousand acre-feet.



Thank you!



<https://www.nrcs.usda.gov/idaho/snow-survey>



Erin Whorton



erin.whorton@usda.gov

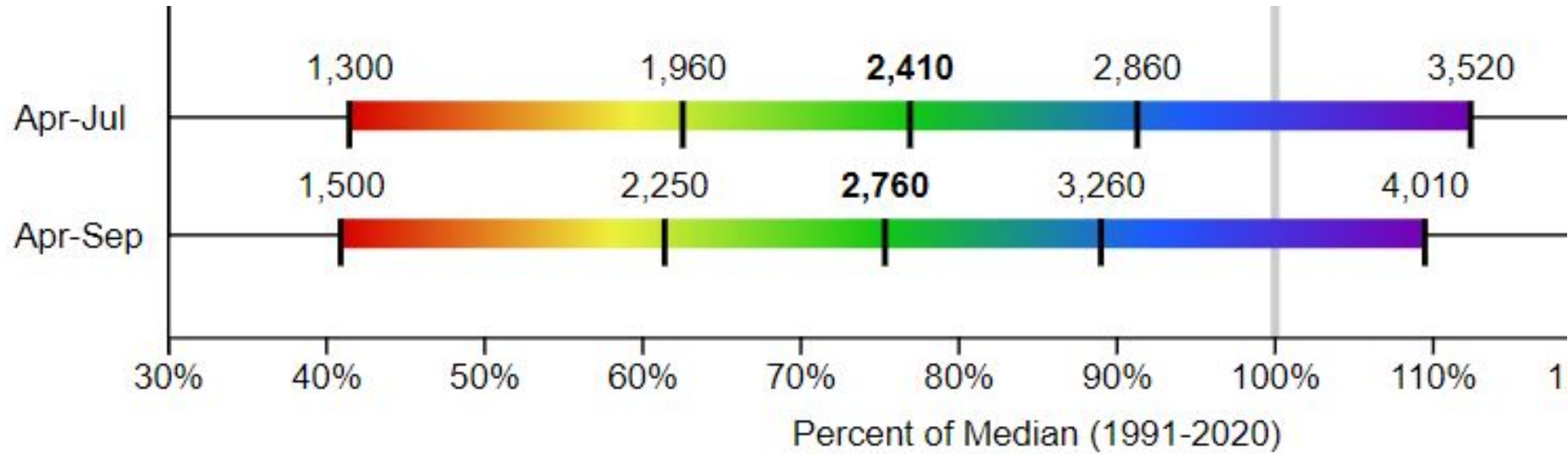


208-685-6983

Streamflow Forecasts at Heise: Jan. 1 versus Feb. 1

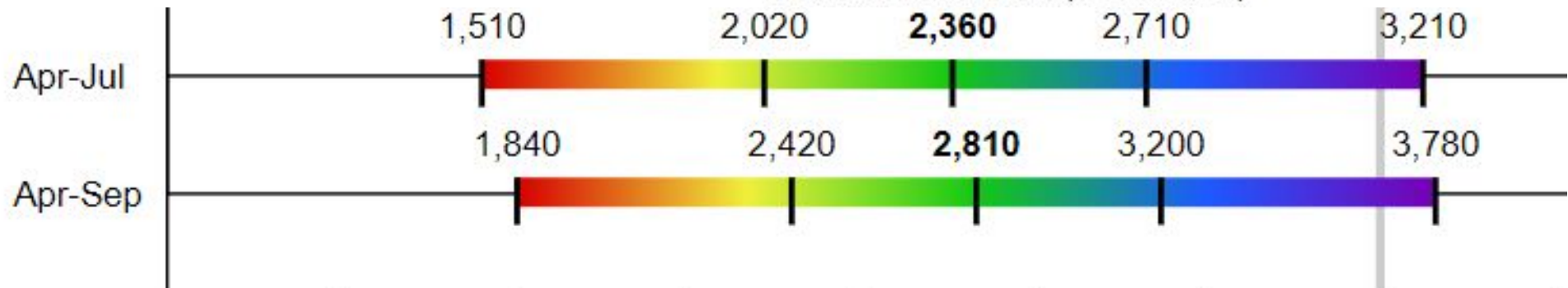
Snake R nr
Heise

Jan. 1



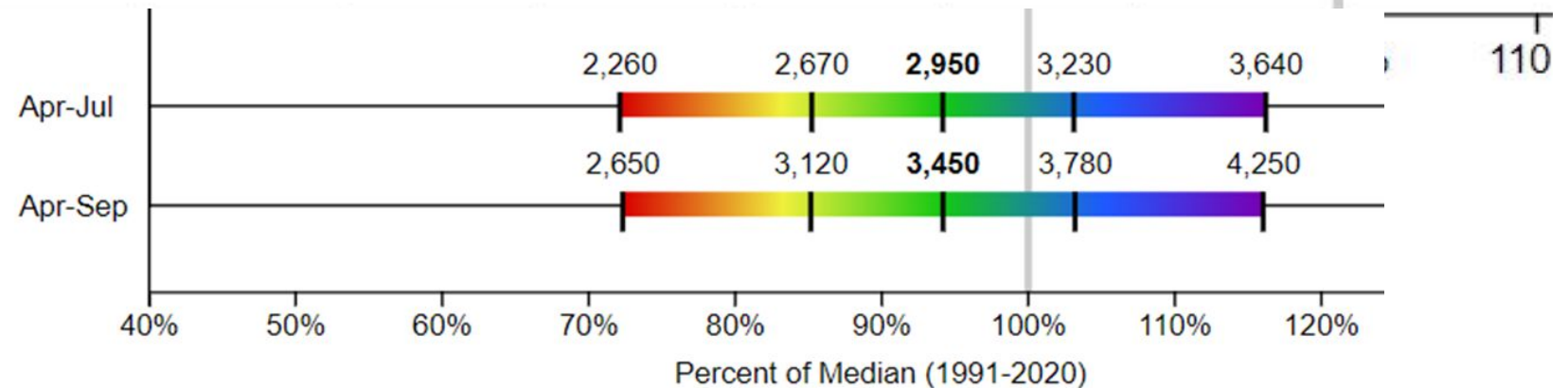
Snake R nr
Heise

Feb. 1



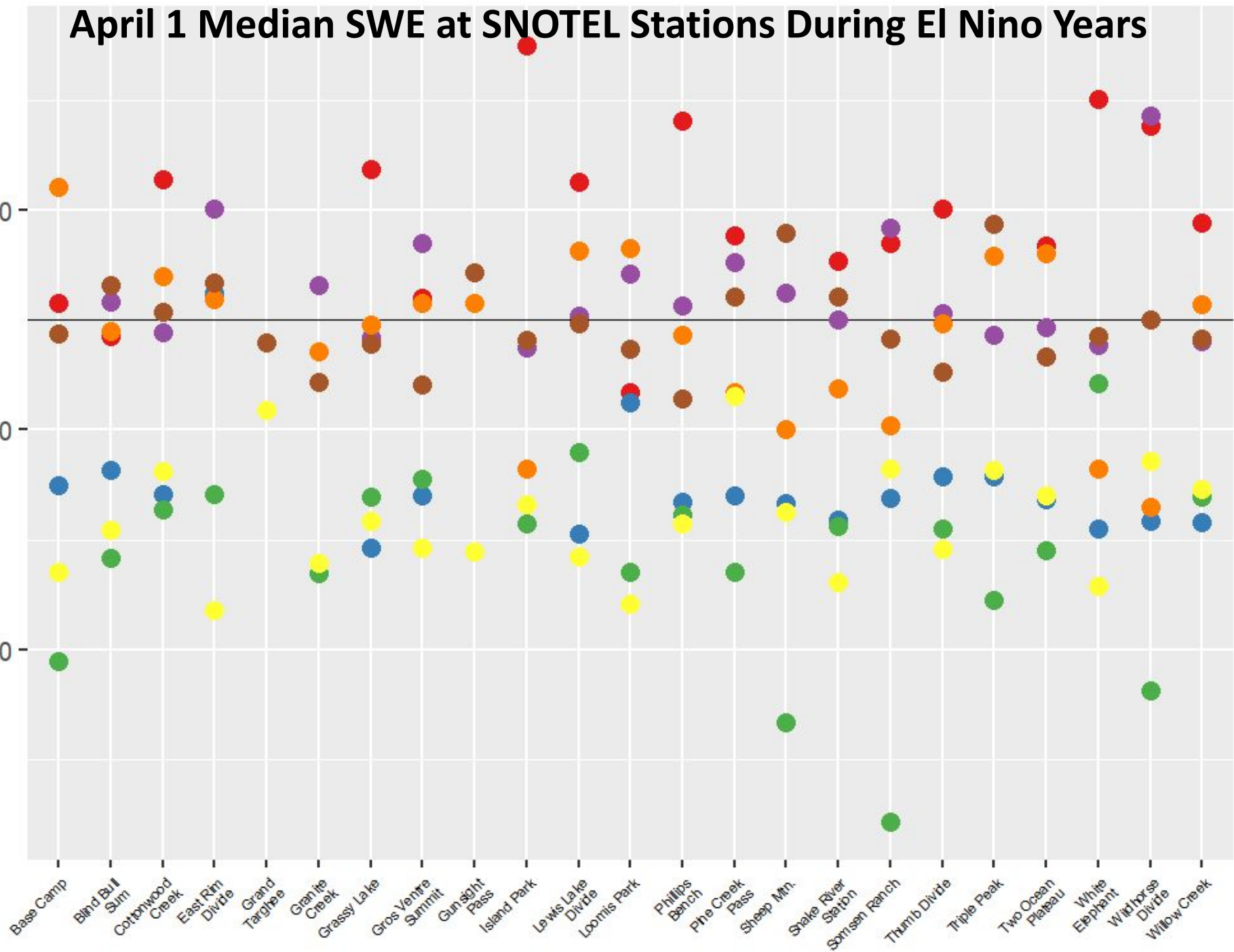
March 1

Snake R nr
Heise

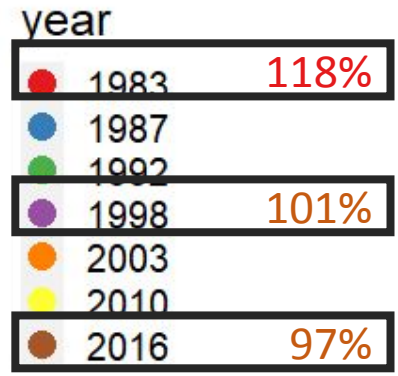


April 1 Median SWE at SNOTEL Stations During El Nino Years

Percent of Median SWE (1991-2020)



Strong El Niño years had near or above normal SWE



1983, 1998, 2016 median = 103%



— BUREAU OF —
RECLAMATION

Upper Snake Advisory Committee Meeting

Upper Snake Operations Update

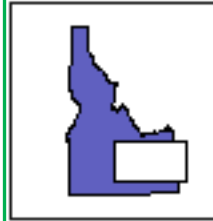
April 11, 2024

Presenter: Brian Stevens



Reservoir System Conditions

04/09/2024



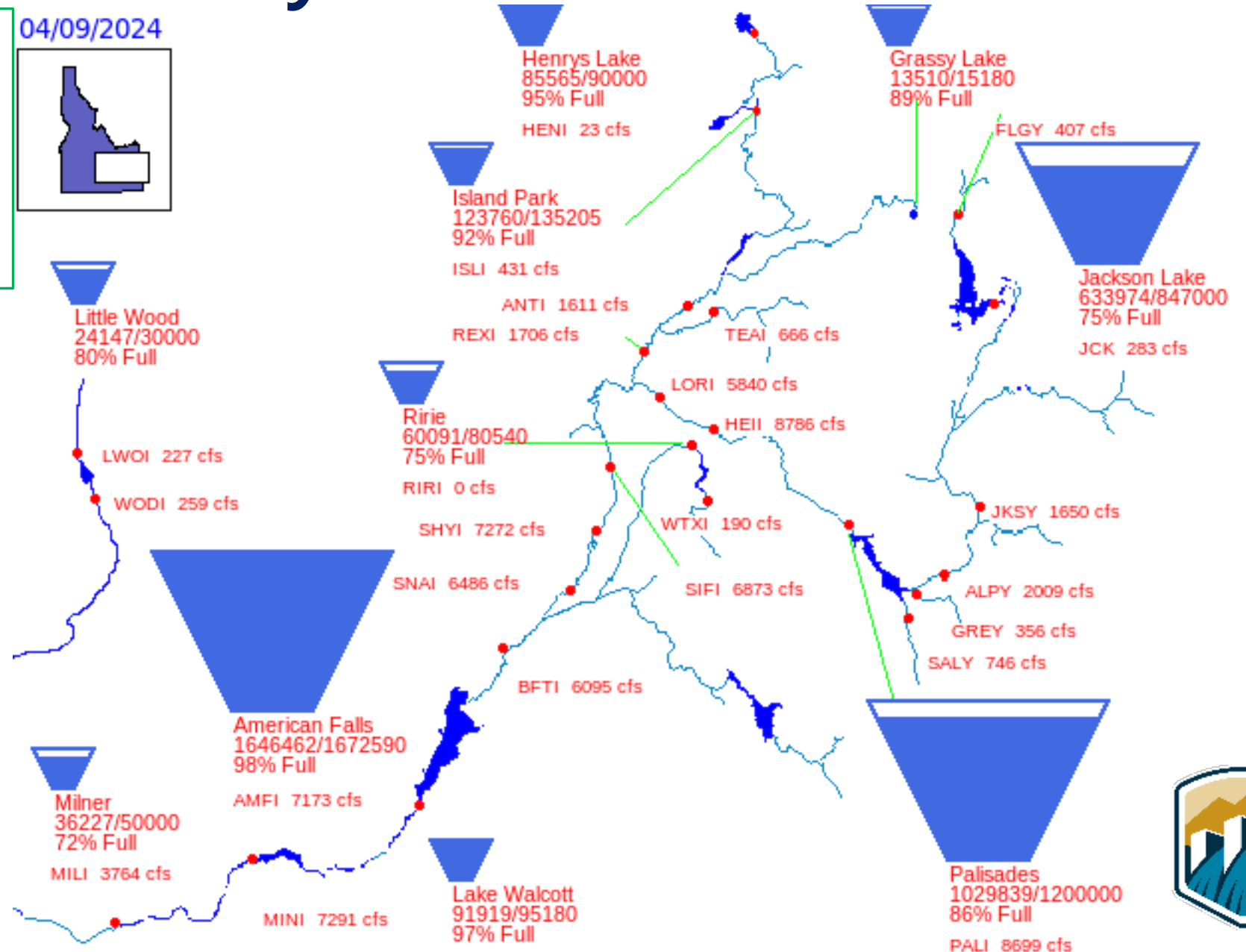
Summary

3.6 MAF Currently in Storage

89% Full

1.35 MAF more than 2023

122% Average



Updated Runoff Forecasts

CURRENT MONTHLY FORECAST SUMMARY

APR 1, 2024

(Coordinated with the Corps on 4/4/2024)

FORECAST POINT	FORECAST PERIOD	1991-2020 AVERAGE (KAF)	FORECAST (KAF)	PERCENT NORMAL
*** HEISE	APR-JUL	3304	3370	102%
JACKSON LAKE	APR-JUL	770	734	95%
ISLAND PARK	APR-JUL	200	190	95%
TETON	APR-JUL	347	344	99%
*** RIRIE	APR-JUN	55	79	145%
*** LITTLE WOOD	APR-JUL	72	72	100%

* Coordinated with USACE

CURRENT MONTHLY FORECAST SUMMARY

MAR 1, 2024

FORECAST POINT	FORECAST PERIOD	1991-2020 AVERAGE (KAF)	FORECAST (KAF)	PERCENT NORMAL
*** HEISE	MAR-JUL	3517	3300	94%
JACKSON LAKE	MAR-JUL	804	725	90%
ISLAND PARK	MAR-JUL	230	203	88%
TETON	MAR-JUL	379	372	98%
*** RIRIE	MAR-JUN	60	74	122%
*** LITTLE WOOD	MAR-JUL	82	81	99%

* Coordinated with USACE



Refresh

initial year 2024 comparison year

Ops Menu

initial data jck qu,jck qd comparison data

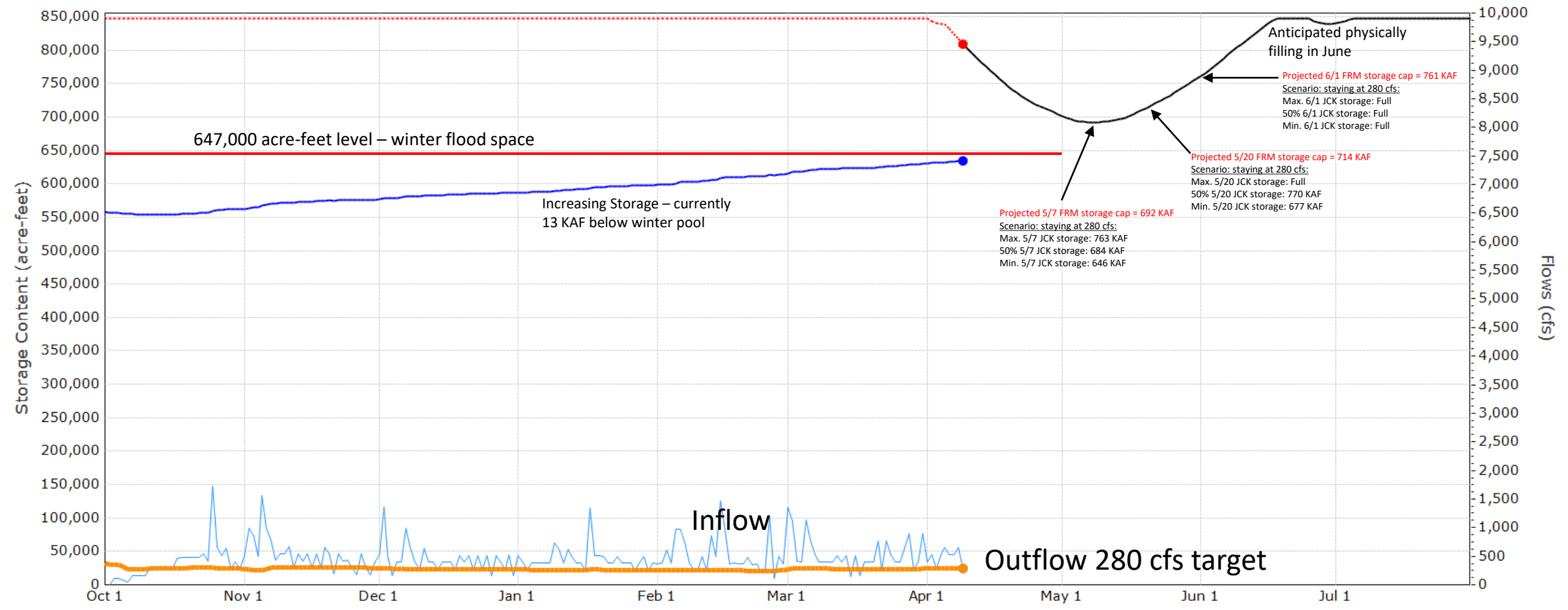
- Show Instant on Left Axis
- Show Elevation
- Override Forecast
- Show Target
- Show Rule Curve
- SRD - dashed

Chart Table

edit

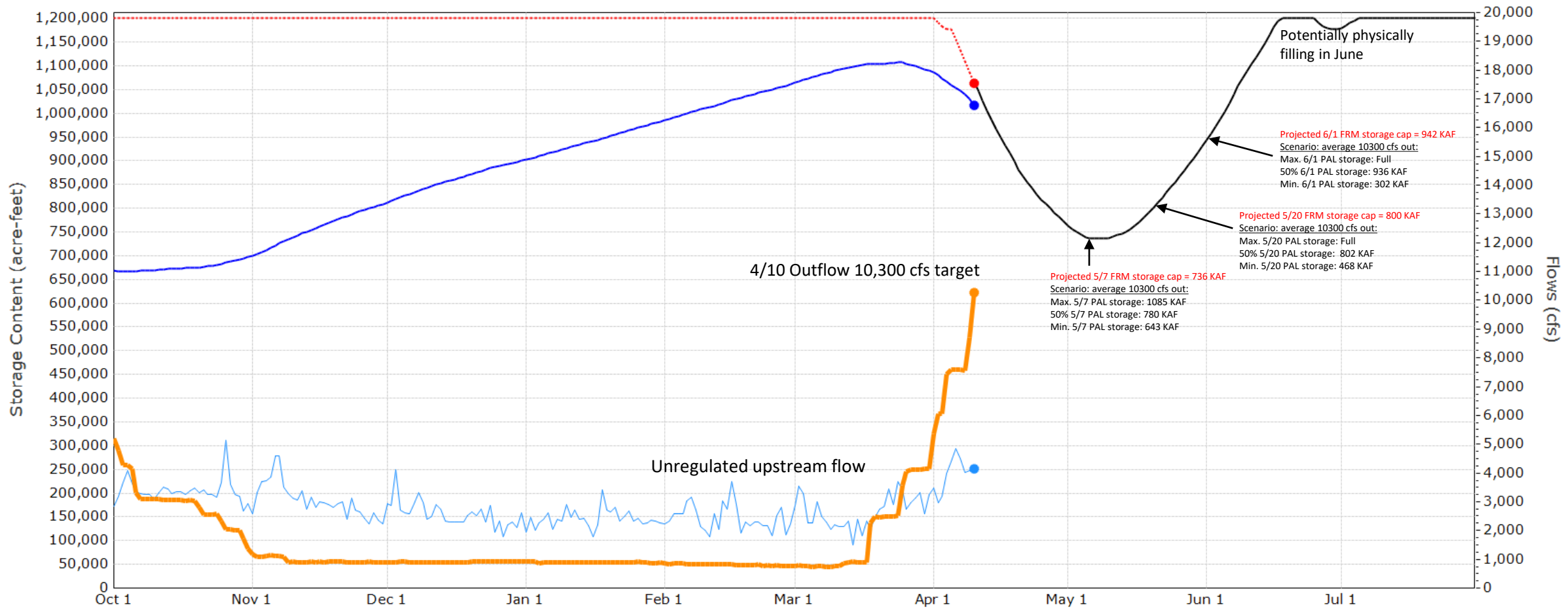
JCK - Jackson Lake

2024 JCK QU
 2024 JCK QD
 2024 Required
 2024 Actual Storage
 Forecast (101%)3370



PAL - Palisades

2024 PALI QU 2024 PALI QD 2024 Required 2024 Actual Storage Forecast (101%)3370



Select... >

Use List

Show Tooltip Use Instant Data

Apply Deltas to 1st Year

Sum List

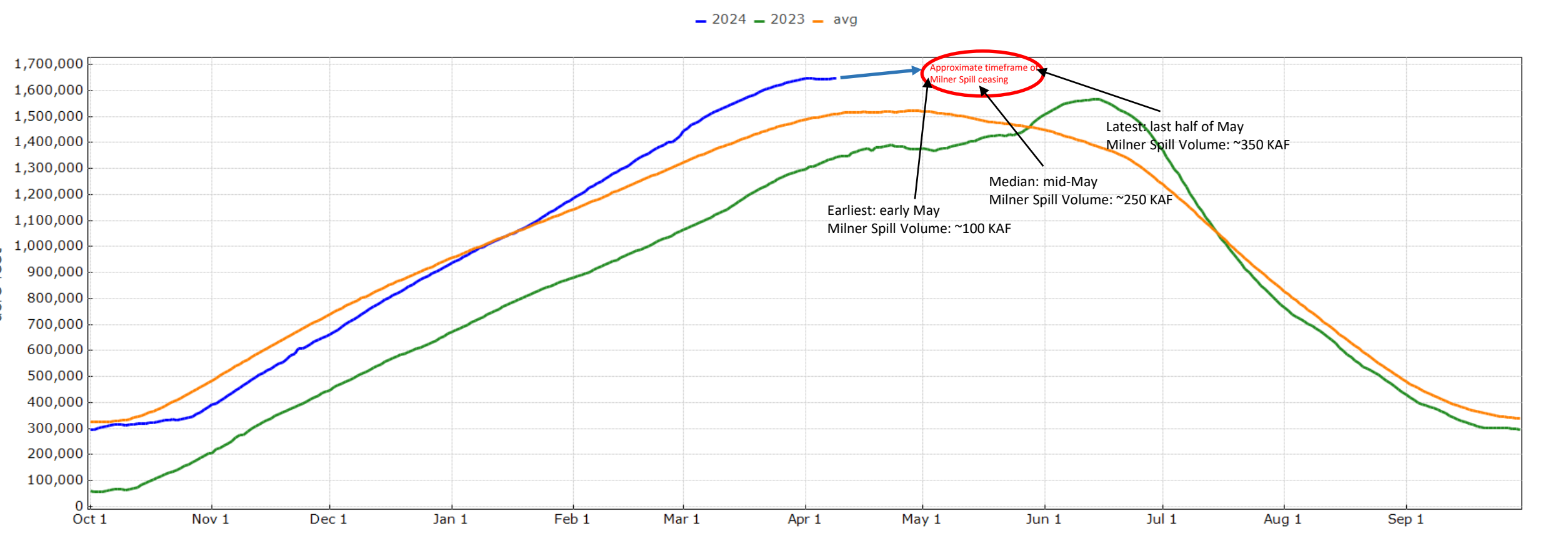
Statistics

Use to data

Avg Max Min Percentiles

Chart Zoom: Drag Points:

American Falls Reservoir at American Falls, ID, Elevation: 4370 ft



Upper Snake Flow Augmentation Outlook

- Average Apr-Sep Runoff: 3,851 KAF
- 2024 Apr-Sep Runoff: 3,928 KAF
- 2024 Rainbow Chart Rental: 150 KAF
- Approximately 20 KAF uncontracted space to be utilized
- Total of approximately 170 KAF in 2024 to be delivered downstream of Milner Dam sometime in the spring

WY 2024 →

October 31st Midnight Carryover 1000s AF	April 1 to Sept 30 Heise Forecast (1000s AF)				
	0	2,920	3,450	4,208	5,042
	to	to	to	to	or
	2,919	3,449	4,207	5,041	greater
0 - 599	0	0	0	150000	185000
600 - 899	0	0	60000	150000	185000
900 - 1499	0	60000	60000	150000	185000
1500 - 2099	0	100000	150000	185000	185000
2100 - 2599	0	100000	150000	205000	205000
2600 - 2999	0	185000	185000	205000	205000
3000 - 3199	60000	185000	185000	205000	205000
> 3199	100000	185000	185000	205000	205000



For More Information

Snake River Area Office

Lanie Paquin (Mike Hilliard Acting) -
Area Manager
208-383-2246
mpaquin@usbr.gov

Upper Snake Field Office

Mike Hilliard (Ben Cano Acting) – Assistant Area Manager
208-678-0461 (x34)
mhilliard@usbr.gov
David Child – Natural Resources Manager (x15)
dchild@usbr.gov
Brian Stevens – Water Operations Supervisory Civil Engineer (x24)
bstevens@usbr.gov
Jeremy Dalling - Water Operations Civil Engineer (x25)
jdalling@usbr.gov
Darrin Fredrickson - Staff Assistant (x17)
dfredrickson@usbr.gov

Snake River Operations Web Sites

Upper Snake water information site -

<http://www.usbr.gov/pn/hydromet/uppersnake/index.html>

USBR HydroMet - <http://www.usbr.gov/pn/hydromet/>

Northwest River Forecast Center - <http://www.nwrfc.noaa.gov/rfc/>

NRCS SNOTEL Data - <http://www.id.nrcs.usda.gov/snow/>





IWRB Managed Recharge Program

Upper Snake River Advisory Committee Meeting

Neal Farmer

Recharge Program

April 11, 2024

Total Natural Flow Water Recharged 258,625 af (provisional)

IWRB Recharge - Oct 28 to April 10th

Lower Valley Diversion Rate

Current: 2352 cfs

Max: 2934 cfs

*Spill data not subtracted for NSCC

Lower Valley Volume = 197,641 af

BWCC

3,251 AF

AFRD2

25,042 AF

NSCC

143,510* AF

Twin Falls

TFCC

14,208 AF

SWID

14,882 AF



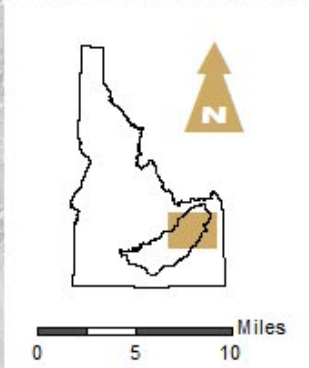
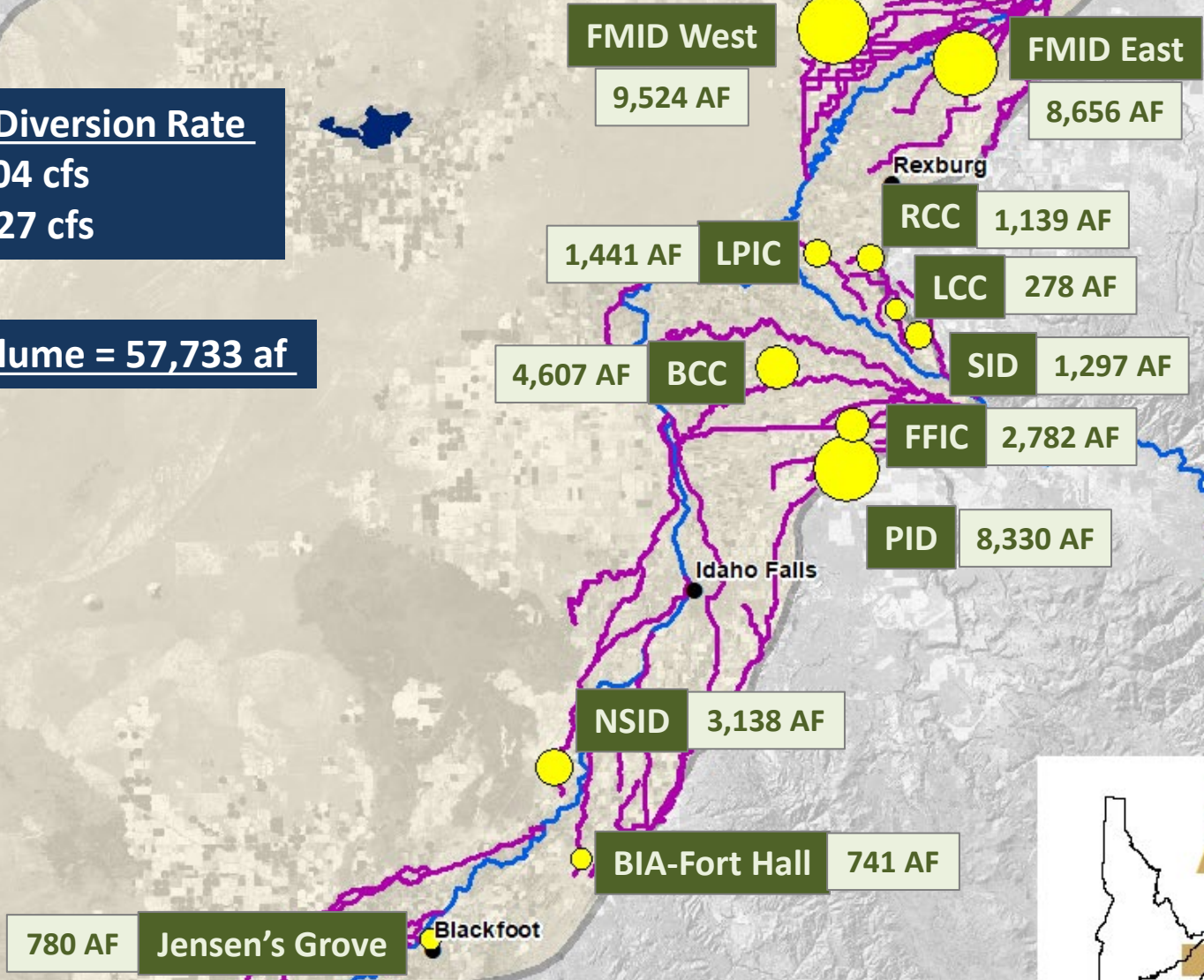
0 5 10 Miles

Total Natural Flow Water Recharged 258,625 af (provisional)

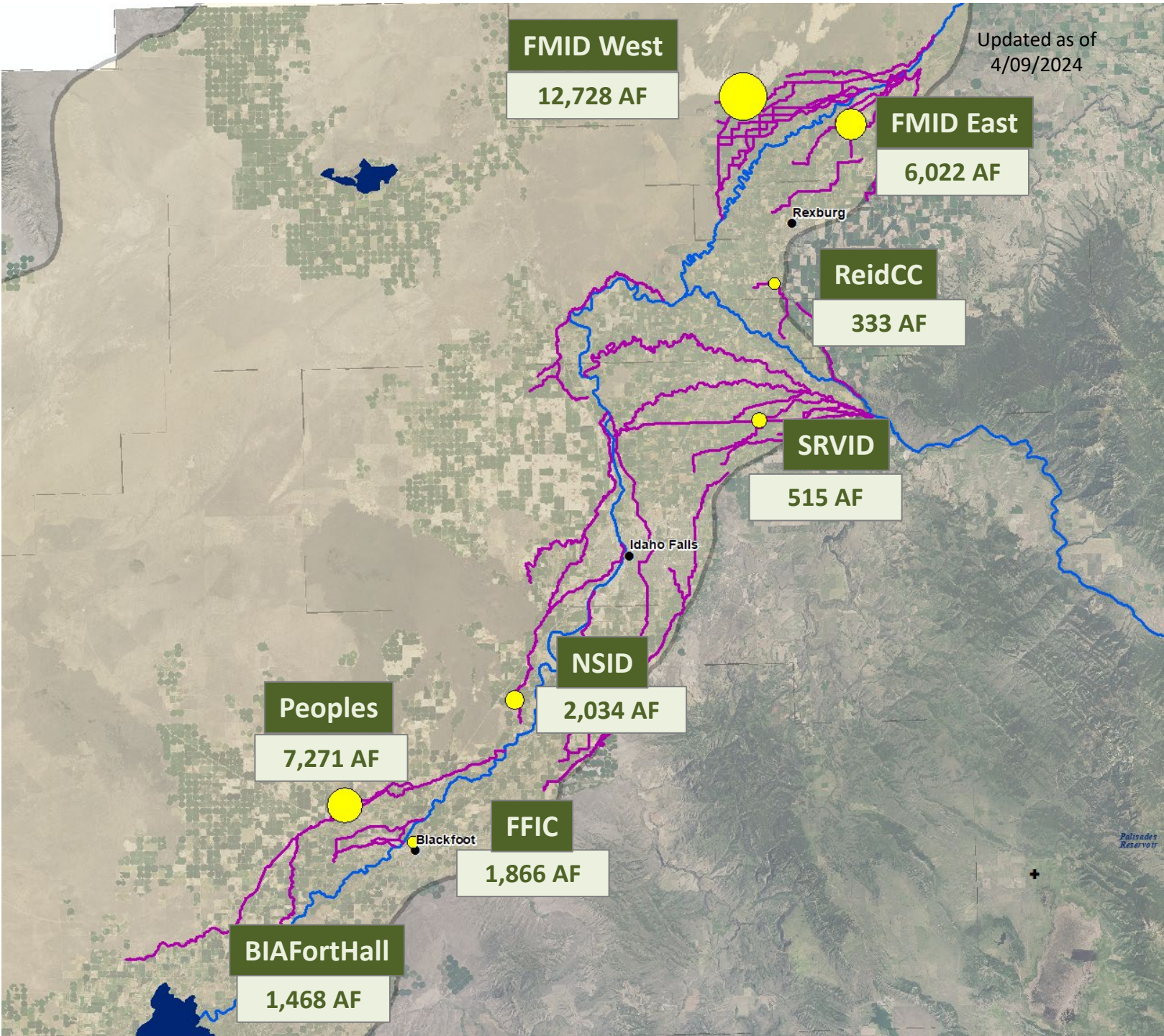
IWRB Recharge – Mar 20th to April 10th

Upper Valley Diversion Rate
Current: 804 cfs
Max: 1927 cfs

Upper Valley Volume = 57,733 af



Updated as of
4/09/2024



FMID West

12,728 AF

FMID East

6,022 AF

ReidCC

333 AF

SRVID

515 AF

NSID

2,034 AF

Peoples

7,271 AF

FFIC

1,866 AF

BIAFortHall

1,468 AF

Rexburg

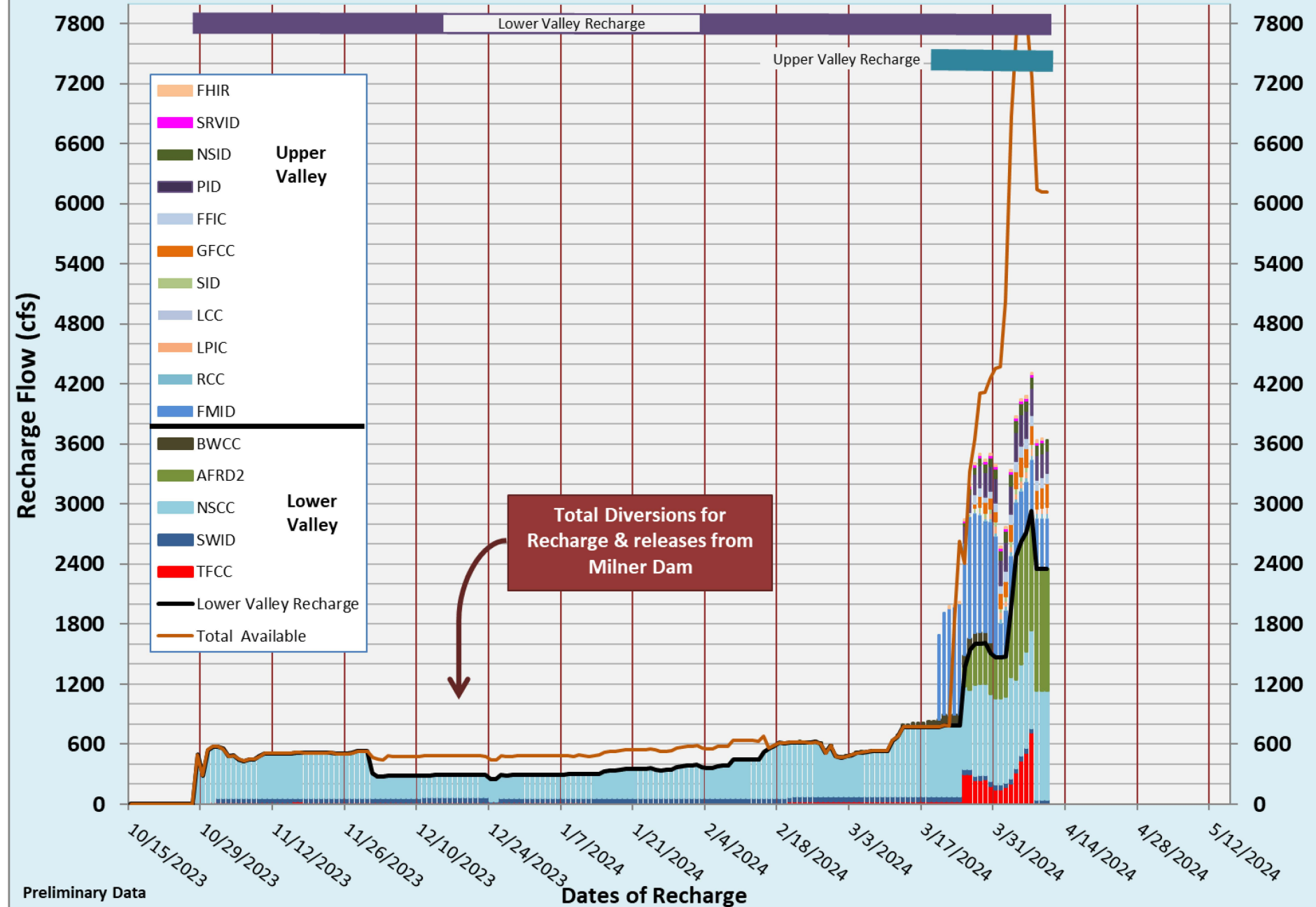
Idaho Falls

Blackfoot

Palisades Reservoir

IWRB Natural Flow Recharge - 2023/2024 Season

Total Volume of Recharge = 258,625 af (October 28, 2023 - April 10, 2024)



Questions

