

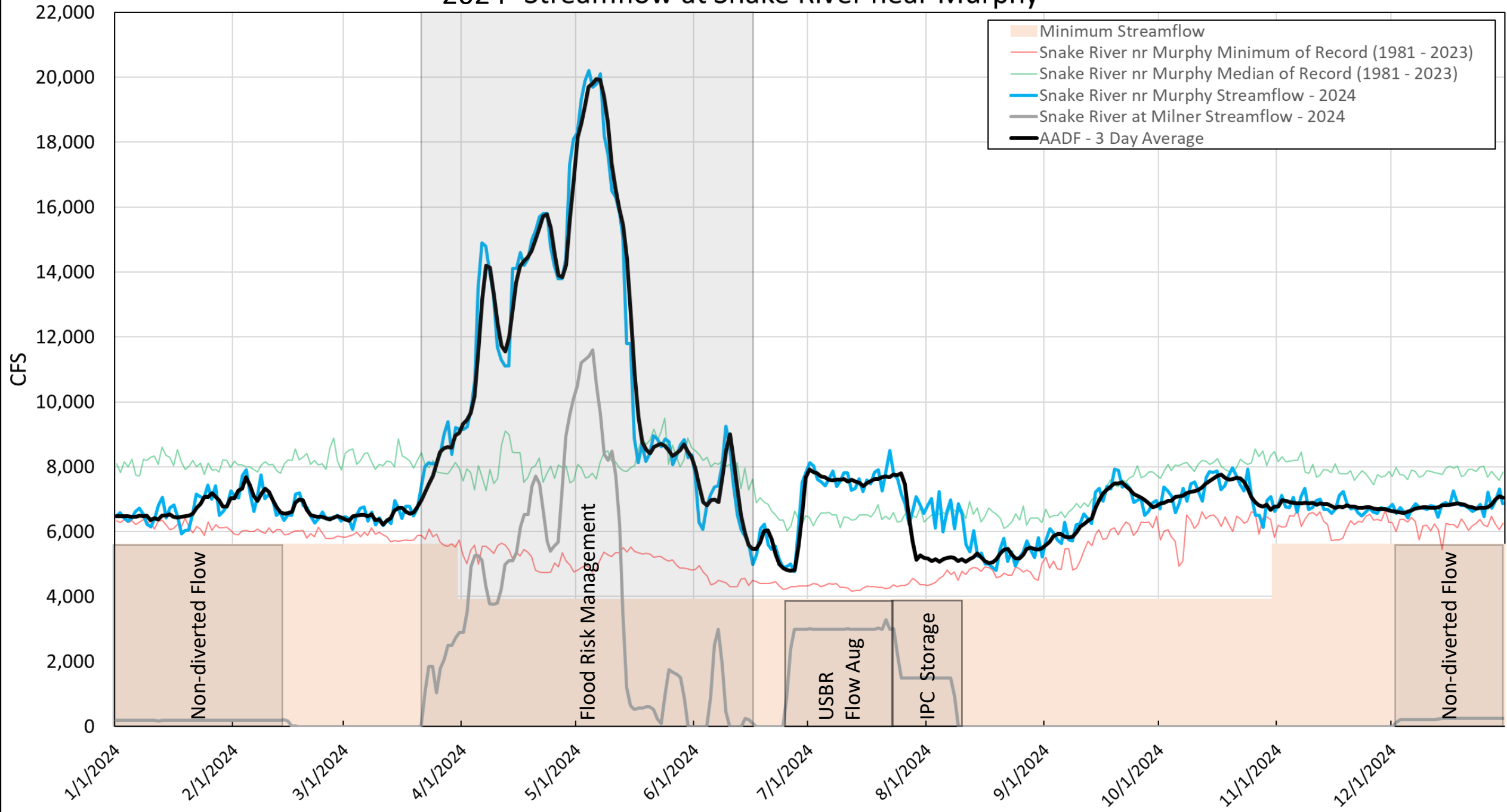
Swan Falls AADF Update

Presented by Ethan Geisler

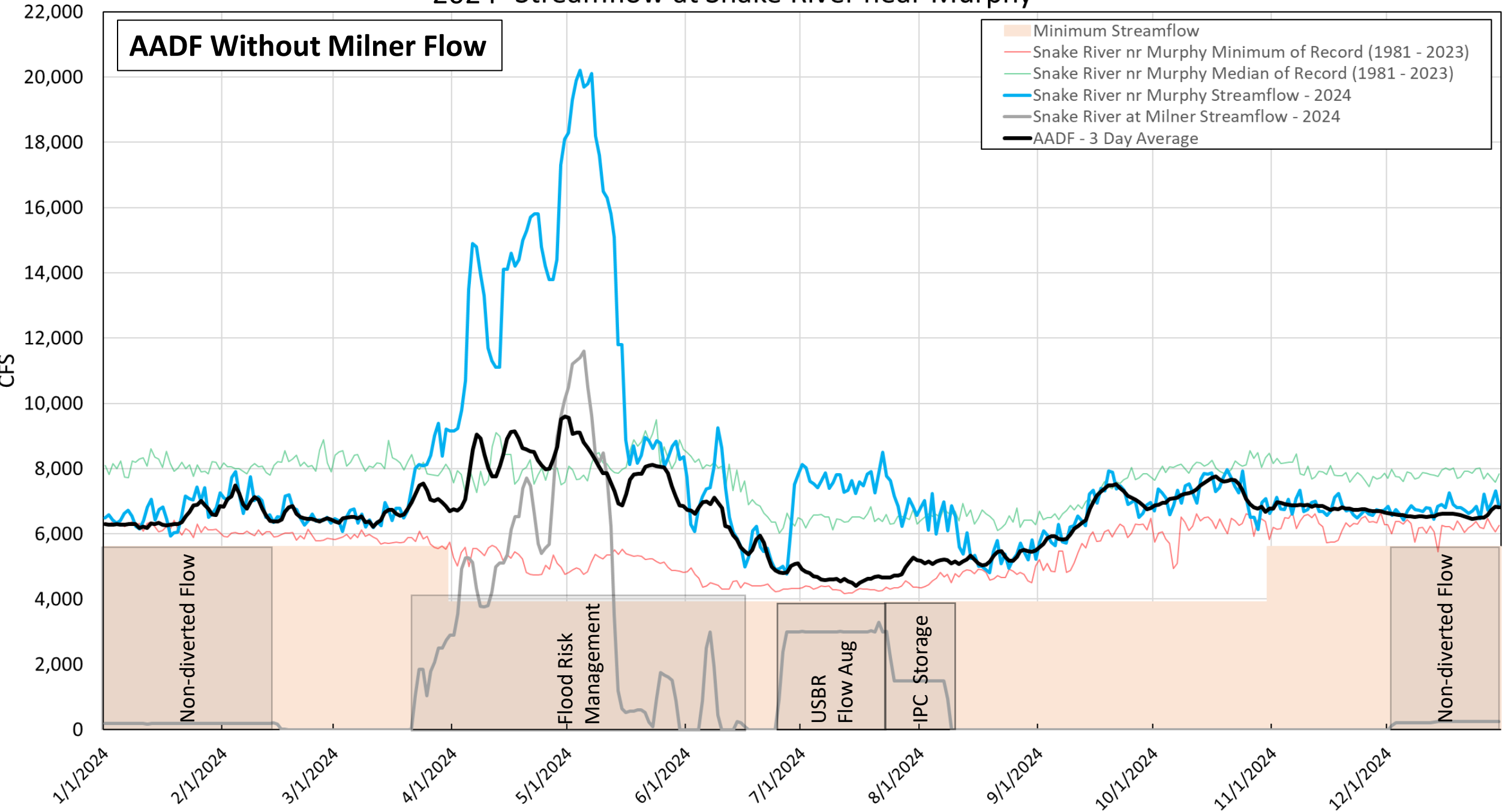
February 19th, 2025



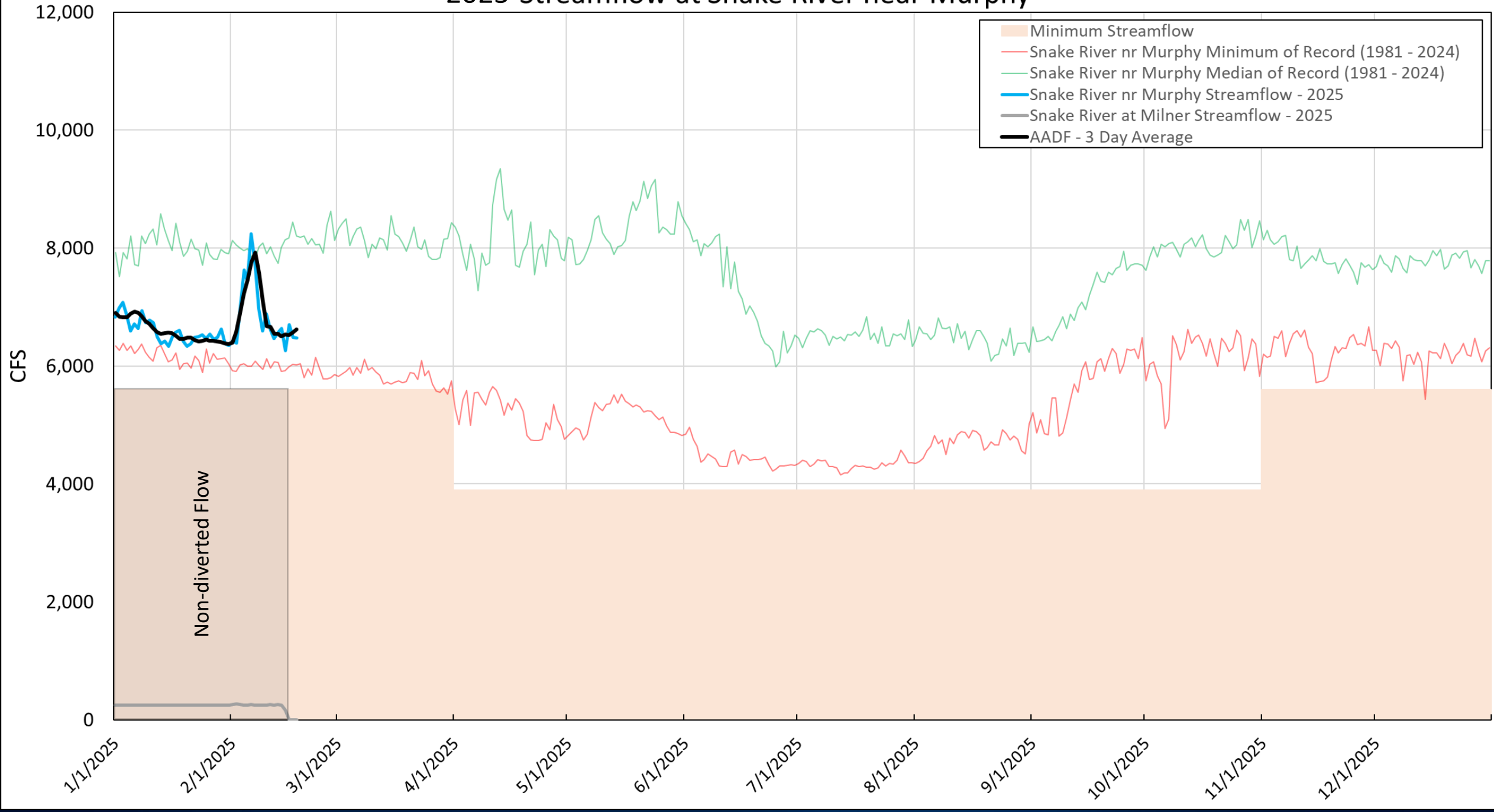
2024 Streamflow at Snake River near Murphy



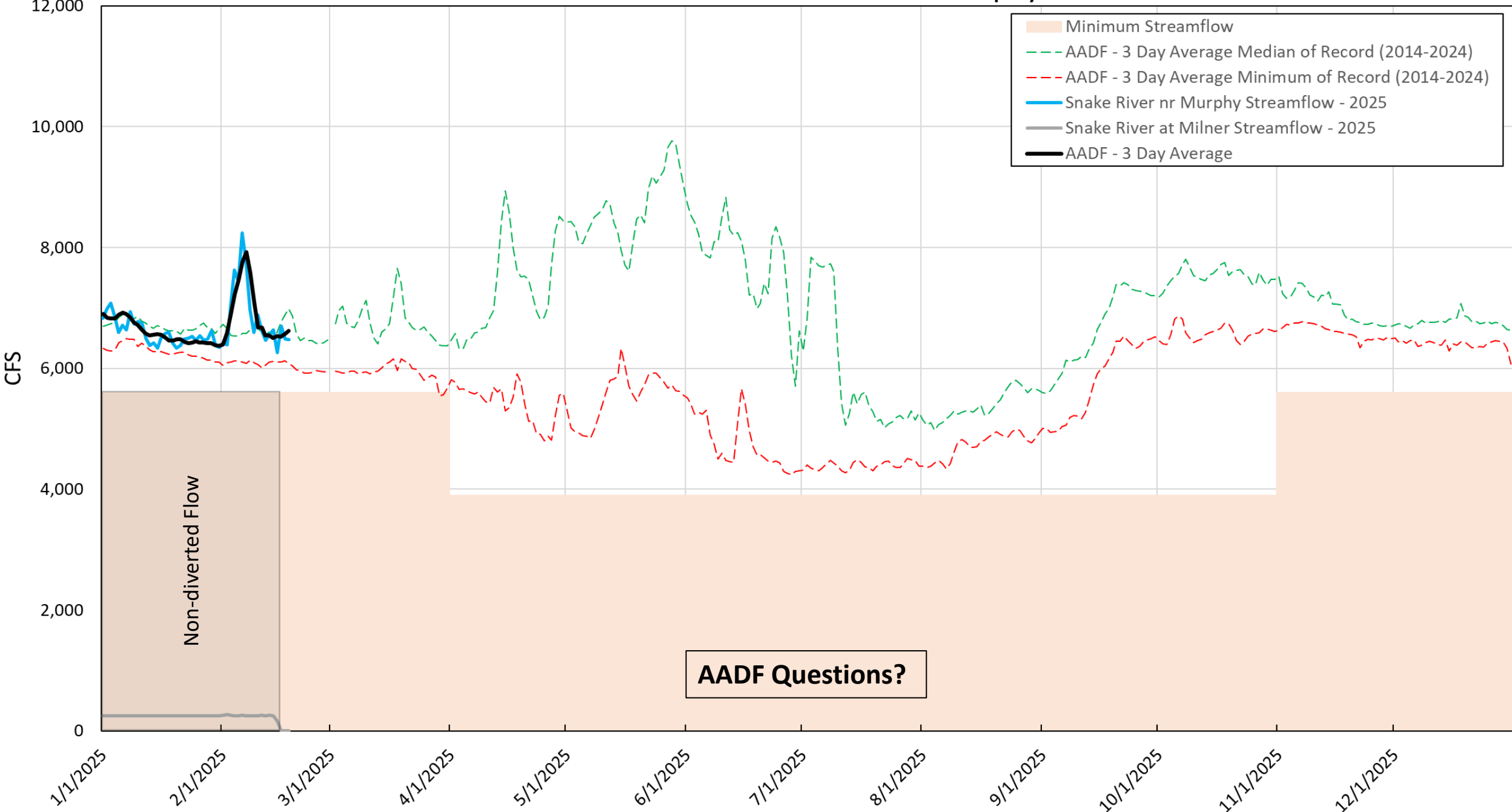
2024 Streamflow at Snake River near Murphy



2025 Streamflow at Snake River near Murphy



2025 Streamflow at Snake River near Murphy



Swan Falls Forecast Tool

Presented by Ethan Geisler

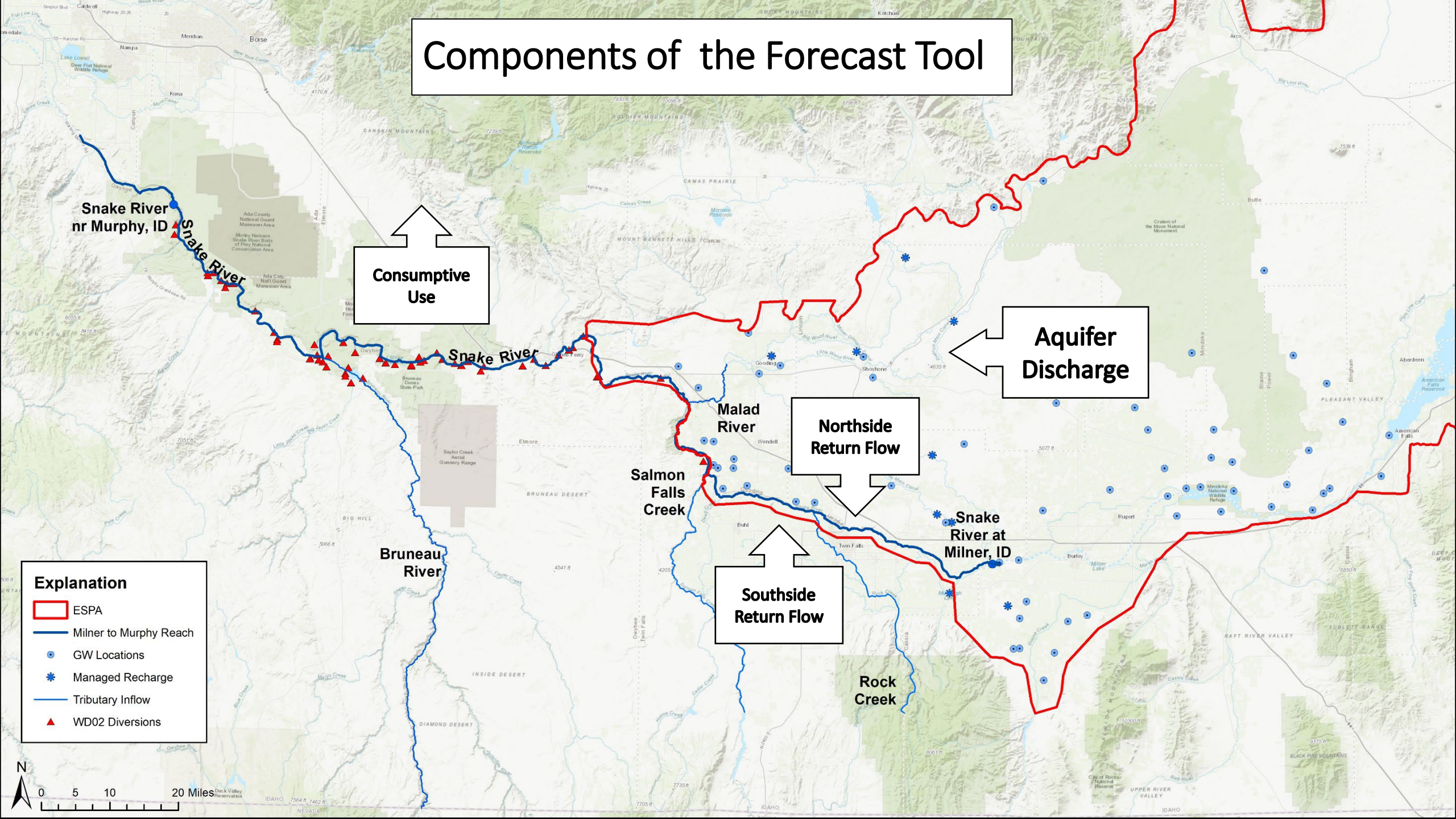
February 19th, 2025



Swan Falls Forecast Tool

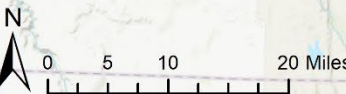
- Spreadsheet-based tool developed by CH2M Hill (Jacobs Engineering) in cooperation with IDWR and stakeholders
- Tool is used to forecast the reach gain for the Milner to Murphy reach during the low flow period in the summer
 - June through August
 - ESPA discharge is the main contributor to the reach during this time of year
- Winter and Spring forecasts – run twice a year

Components of the Forecast Tool

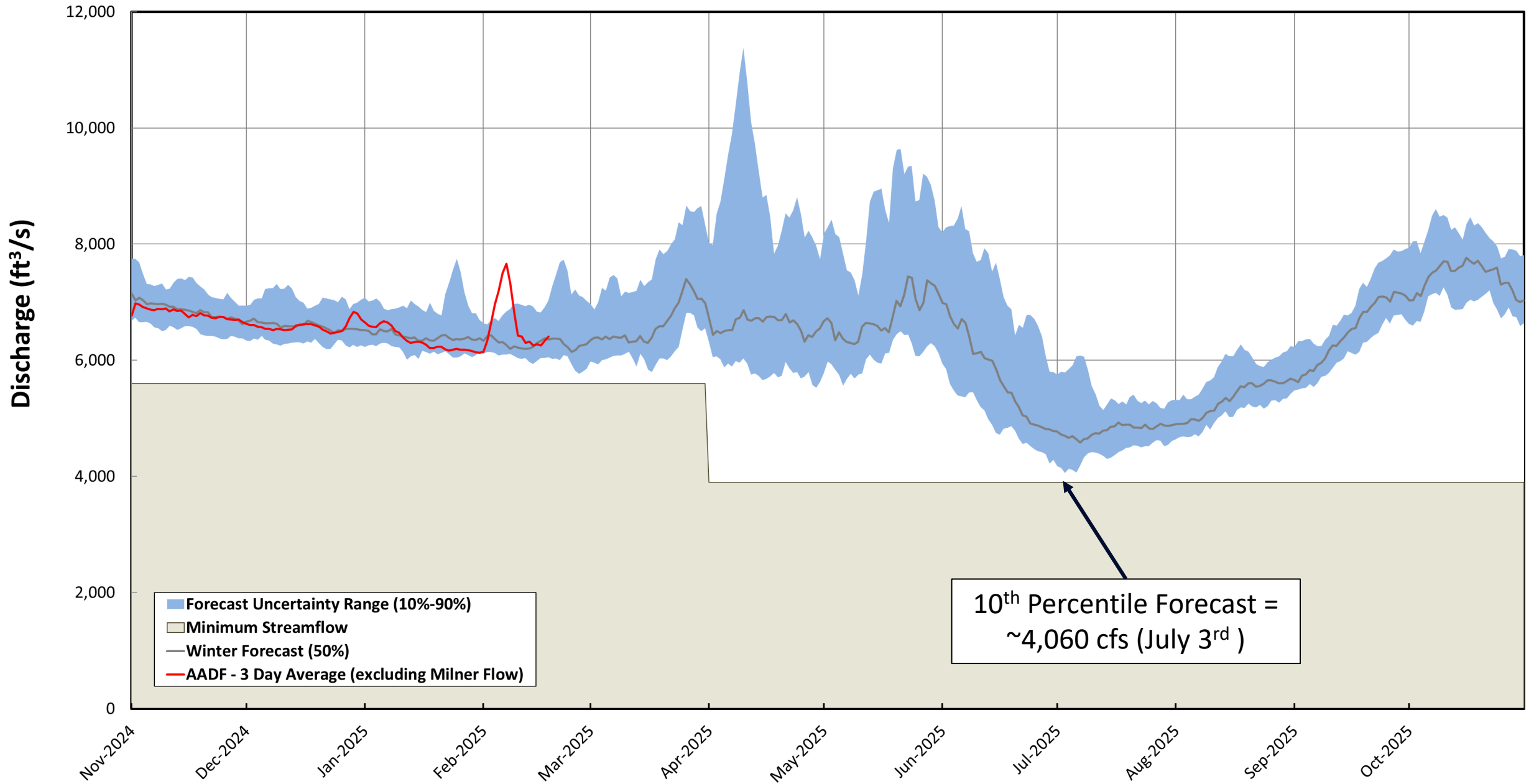


Explanation

- ESPA
- Milner to Murphy Reach
- GW Locations
- Managed Recharge
- Tributary Inflow
- WD02 Diversions



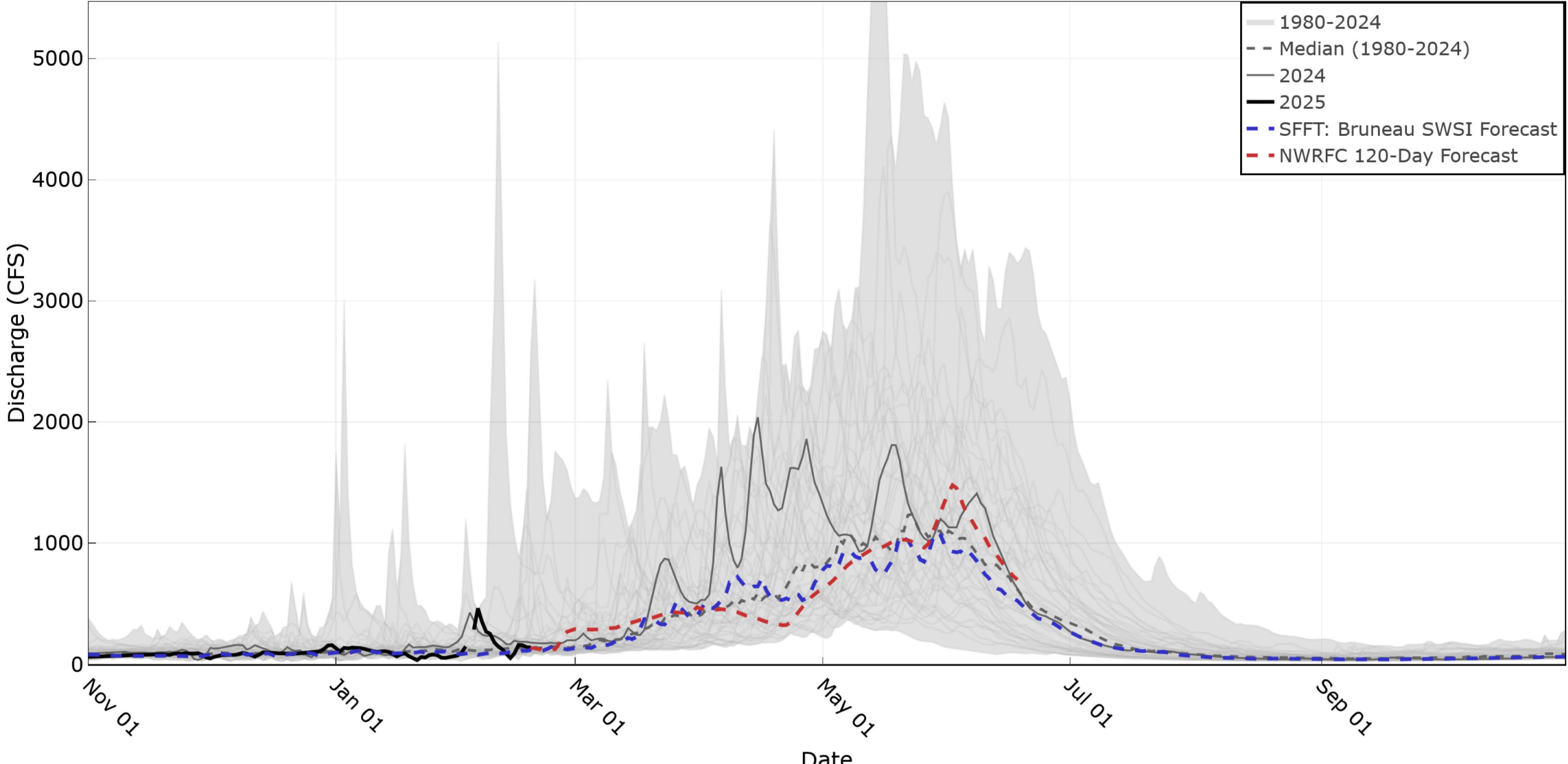
2025 Winter Forecast



10th Percentile Forecast =
~4,060 cfs (July 3rd)

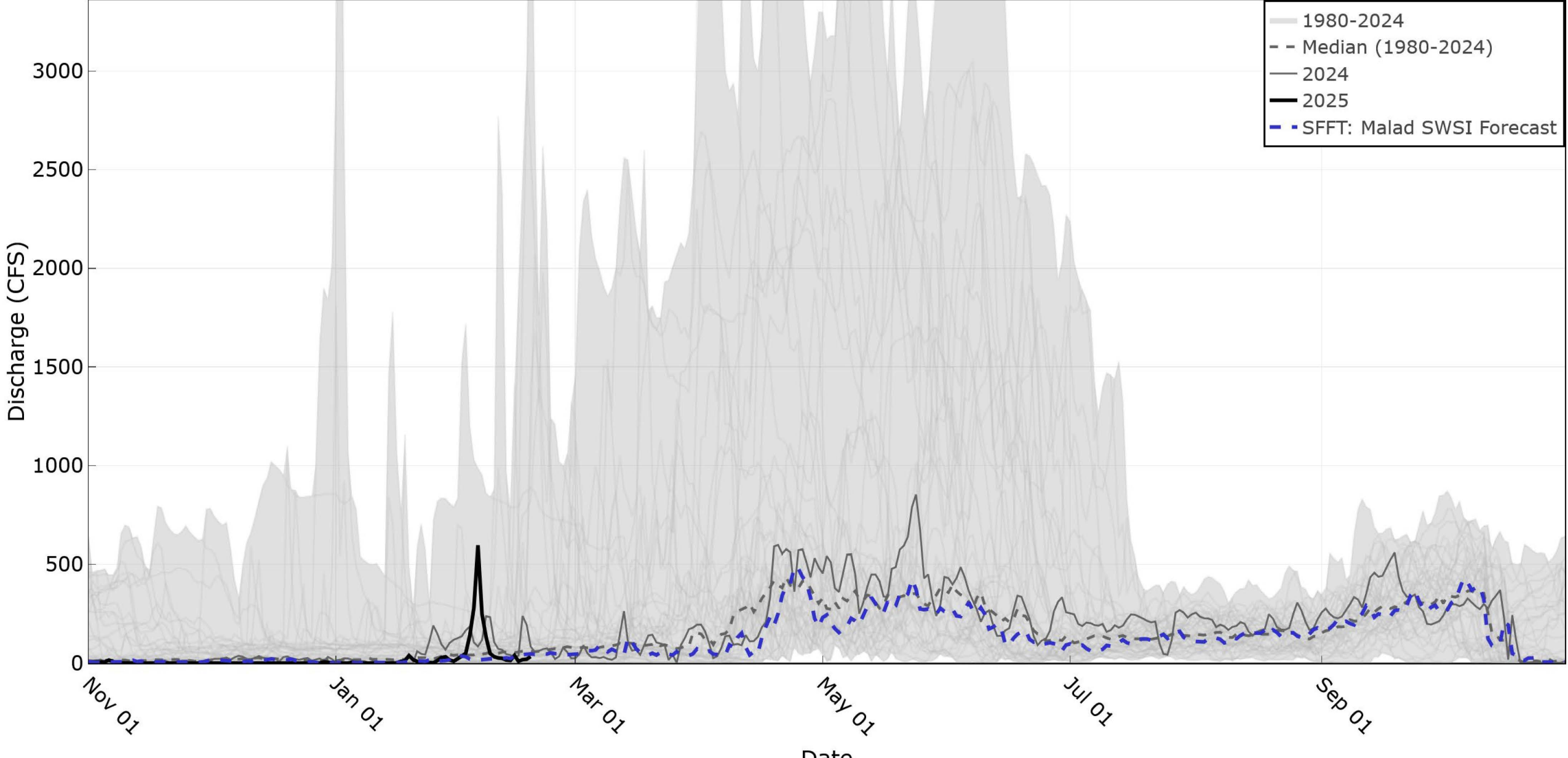


Bruneau River nr Hot Springs





Malad River nr Gooding

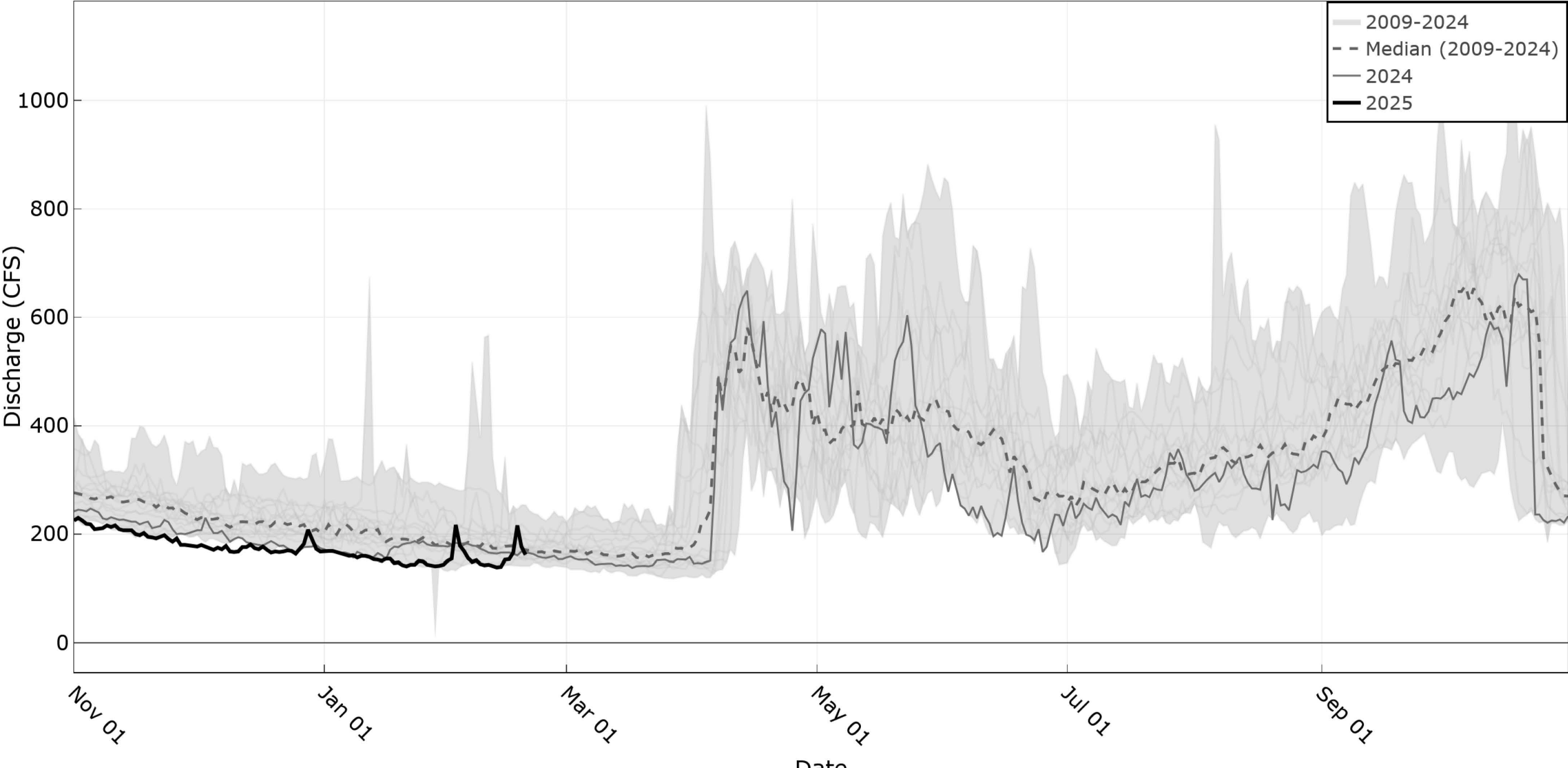




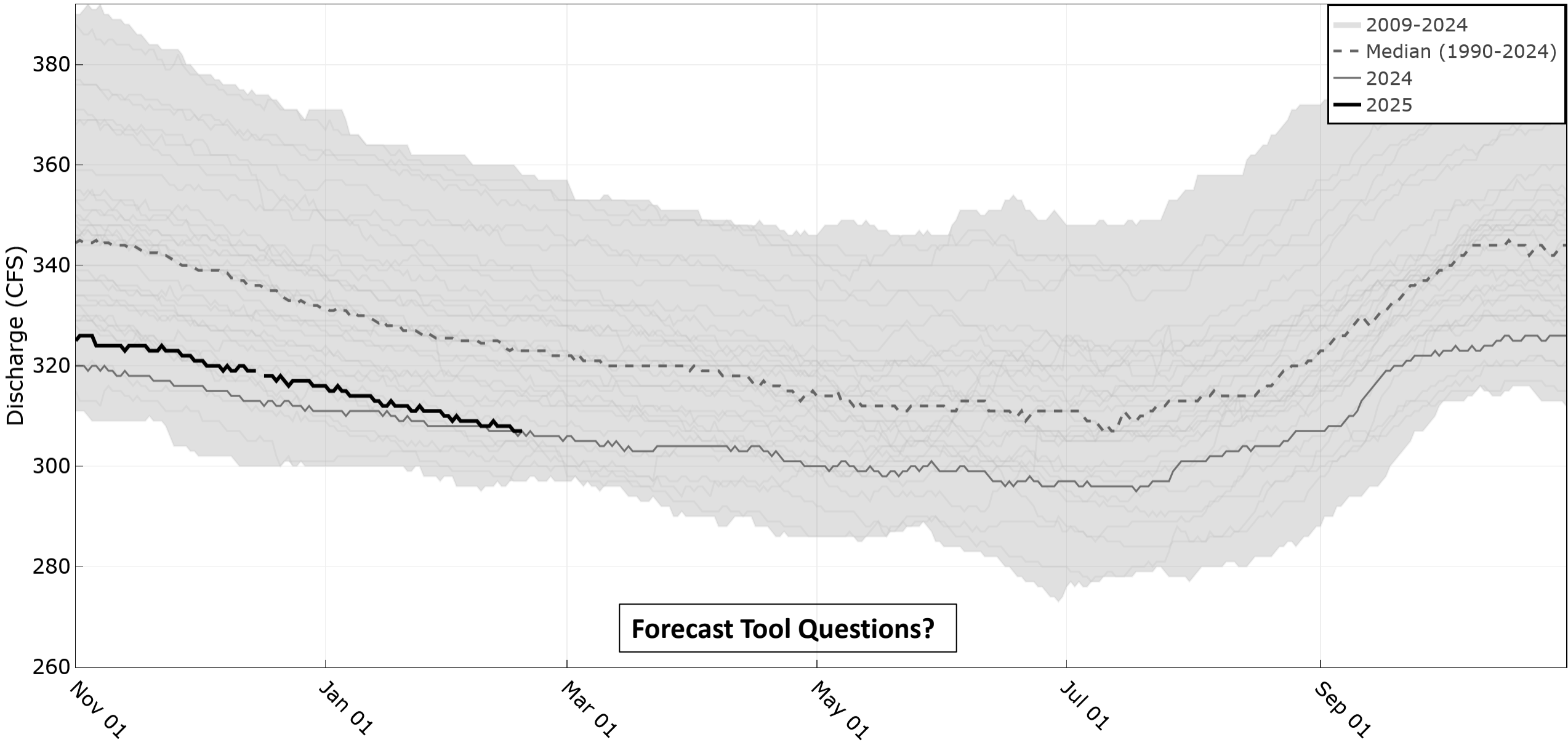
Snake River Southside Return Flows

Navigation icons for the chart interface.

- 2009-2024
- Median (2009-2024)
- 2024
- 2025



Box Canyon Spring nr Wendell



Forecast Tool Questions?

Swan Falls Technical Working Group Updates

- *Question 5: “Analysis of the necessary ESPA levels required to maintain the minimum flow rate at the Snake River nr Murphy Gage during the low flow period”*
- Proposed method: Subset of groundwater wells to produce a regression-based model to analyze necessary ESPA levels to maintain minimum flow at the Snake River nr Murphy gage
- Draft Memo is complete and was sent out to TWG:
 - Nov 1st, 2024 – IDWR provided a draft memo and updated files to the Technical Working Group (TWG) for review and comments.
 - January 2025 – IDWR received comments/edit from Sophia Sigstedt (IGWA) and Idaho Power.
 - Feb 11th, 2025 – IDWR presented some responses to comments/edits but more discussion is needed with the TWG.
- Next TWG meetings are set for:
 - March 11th, 2025
 - May 2025 – (not schedule yet)

