



Swan Falls Technical Working Group Update

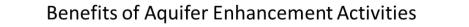
Presented by Ethan Geisler

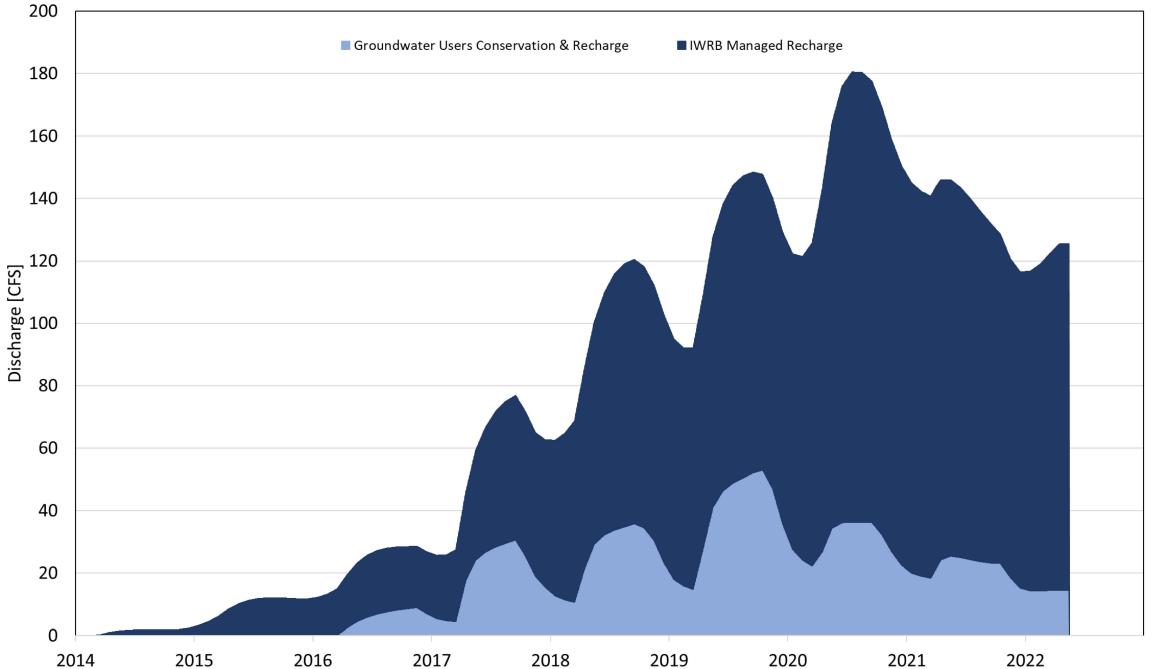
October 13th, 2022

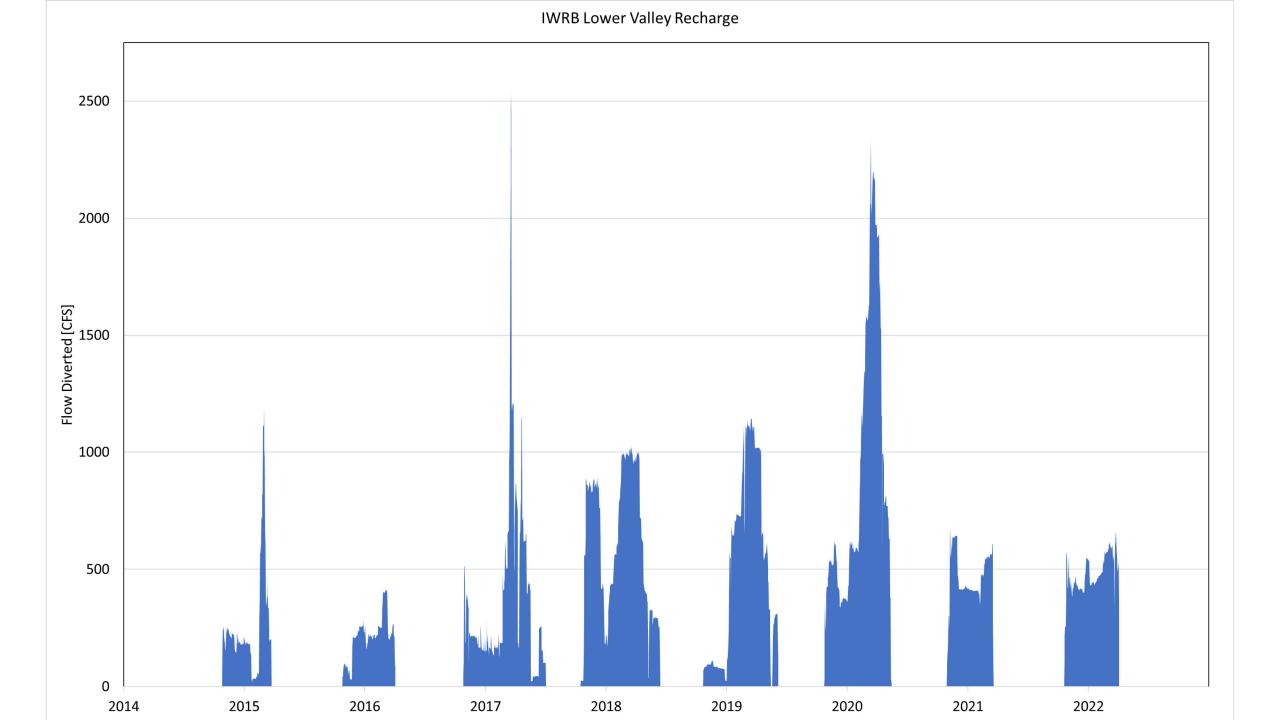
DAHO Department of Water Resources

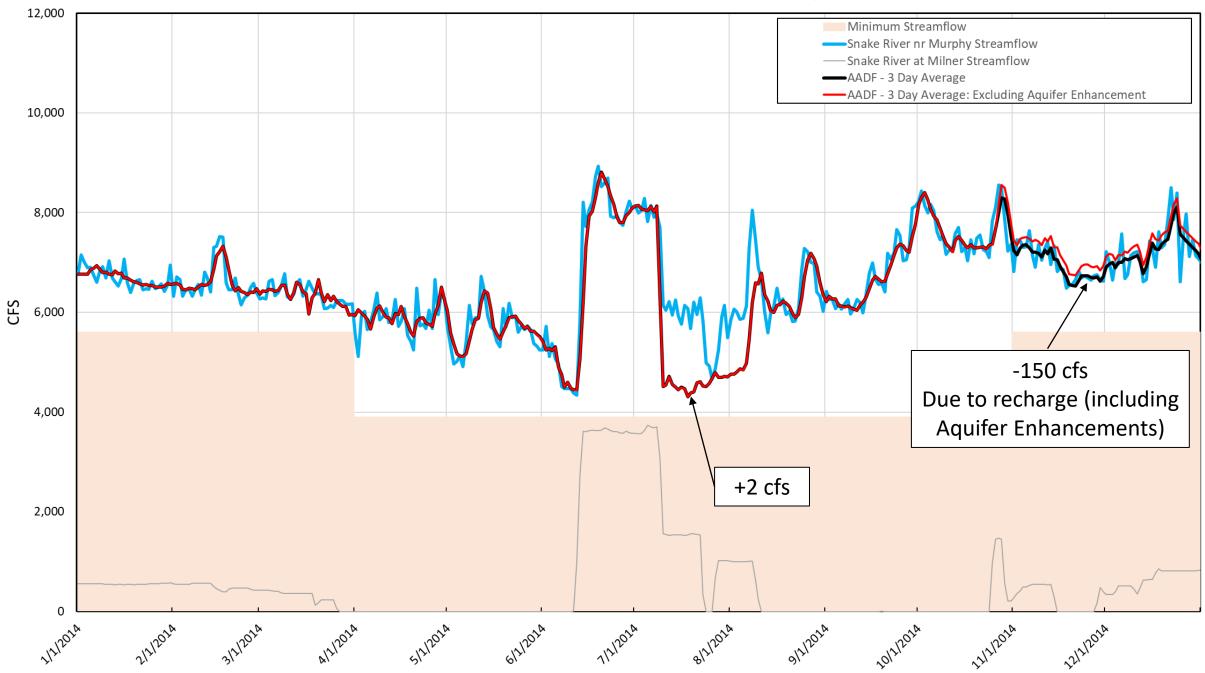


- 1. Technical analysis to determine if the Adjusted Average Daily Flow (AADF) at the Snake River near Murphy gage would have been below the minimums at any time since 2014, but for IGWA-SWC-Cities settlement and IWRB managed recharge activities.
 - ESPAM 2.2 was used to evaluate the benefit to the reach gains in the Milner to King Hill reach of the Snake River for:
 - Idaho Water Resources Board managed recharge program
 - Initiated in 2014
 - Natural Flow Recharge
 - Donated Storage Water Recharge
 - Surface Water Coalition Settlement Agreement
 - Implemented in 2016
 - Managed recharge
 - Reductions in diversions

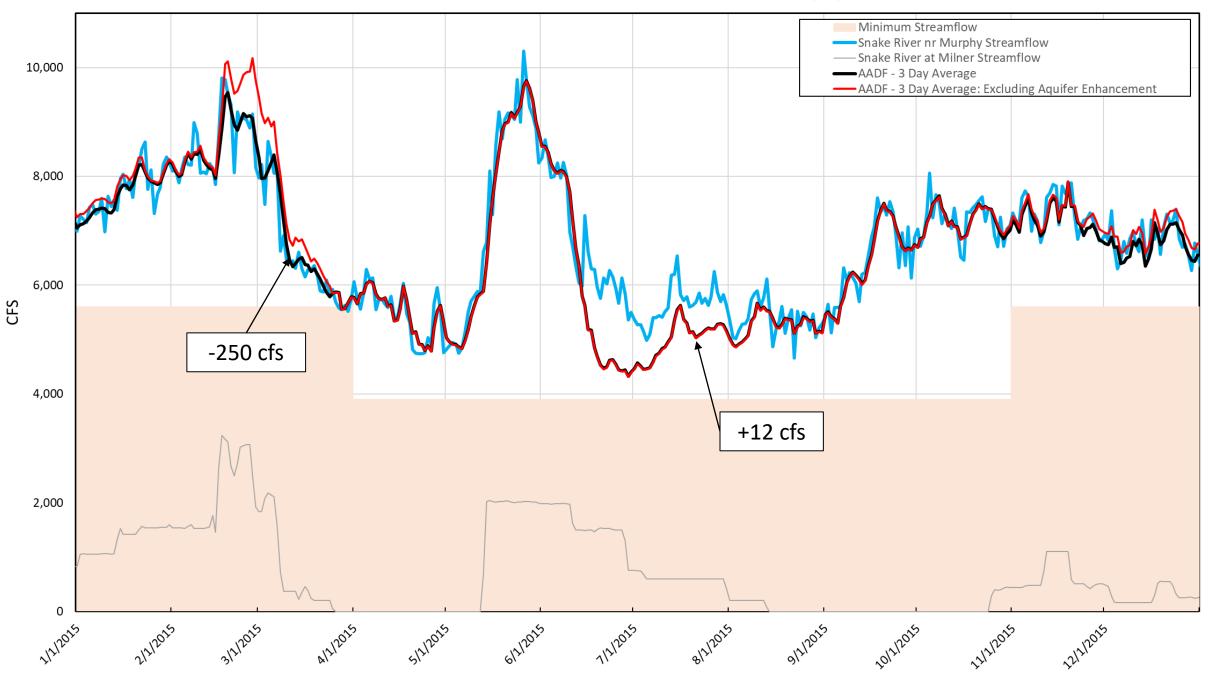


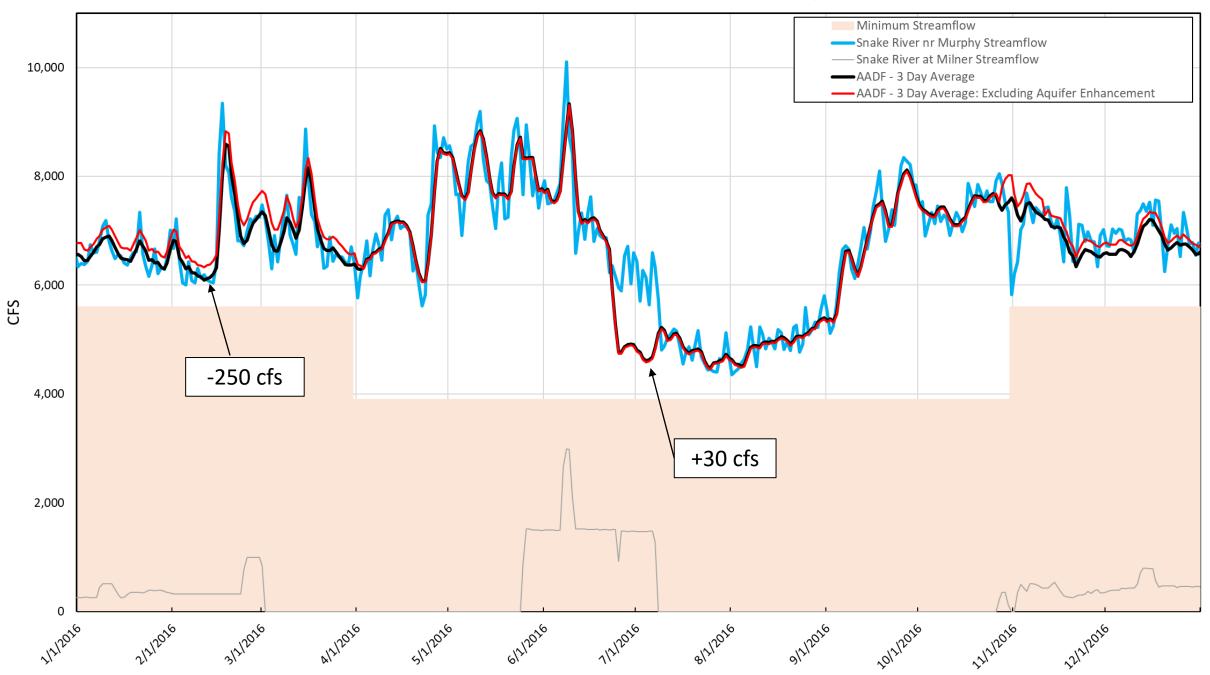




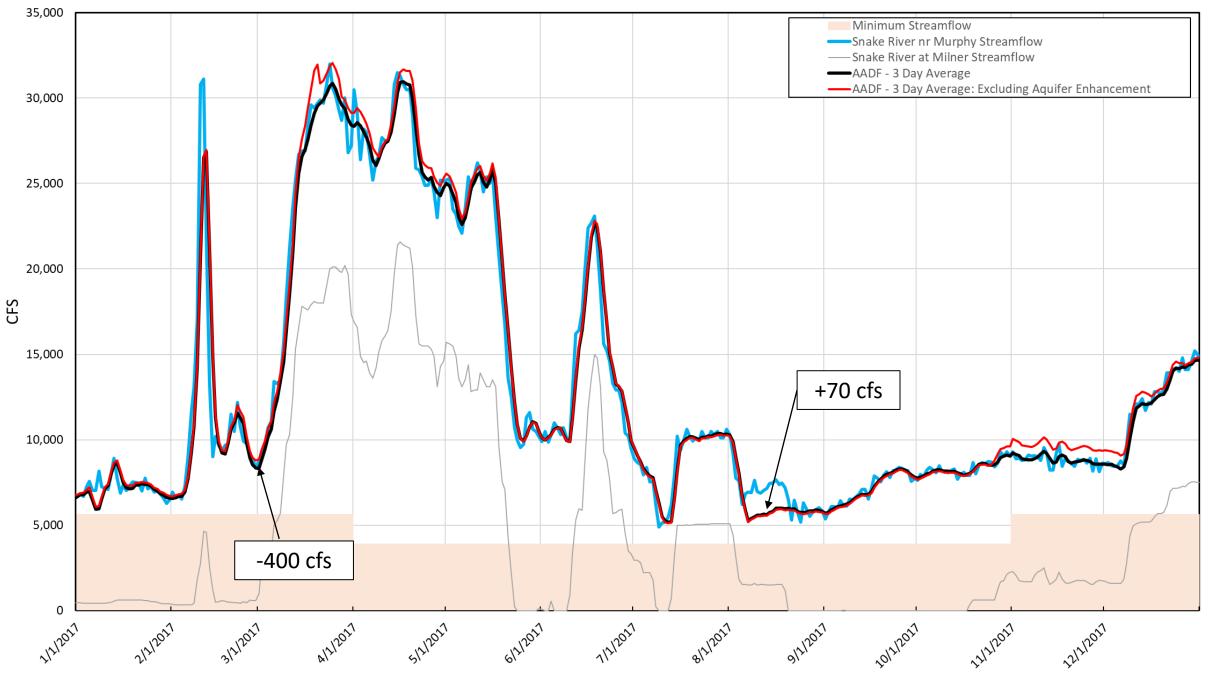


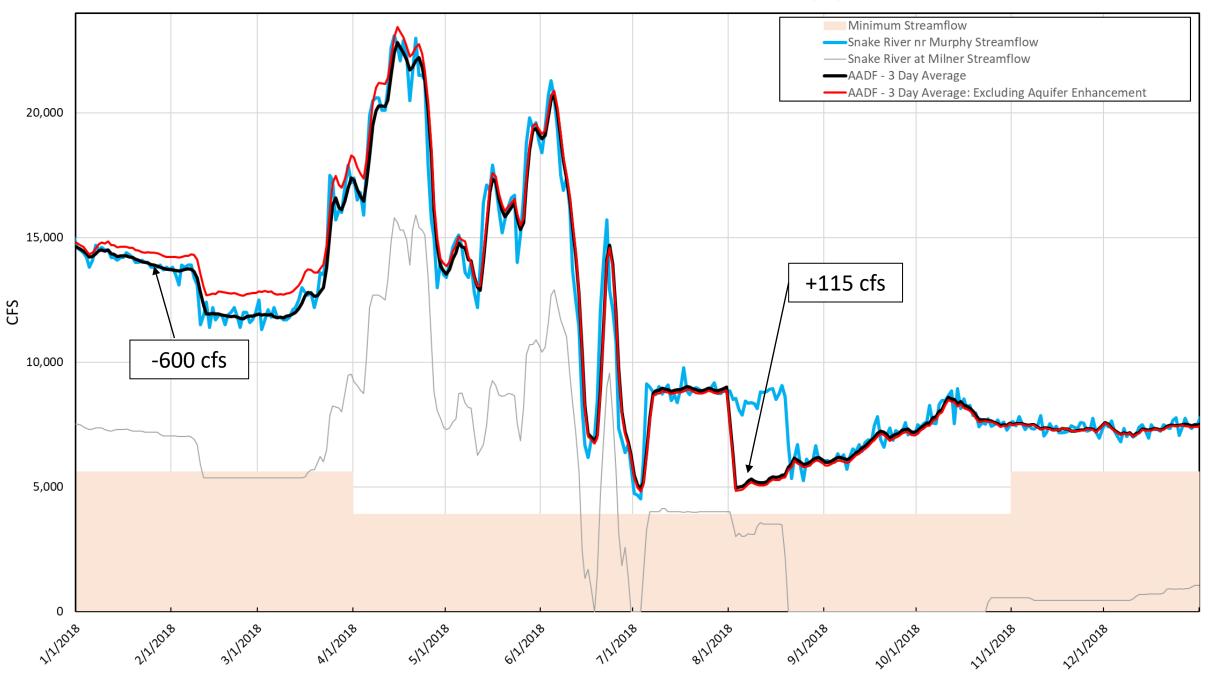
2015: Streamflow at Snake River near Murphy

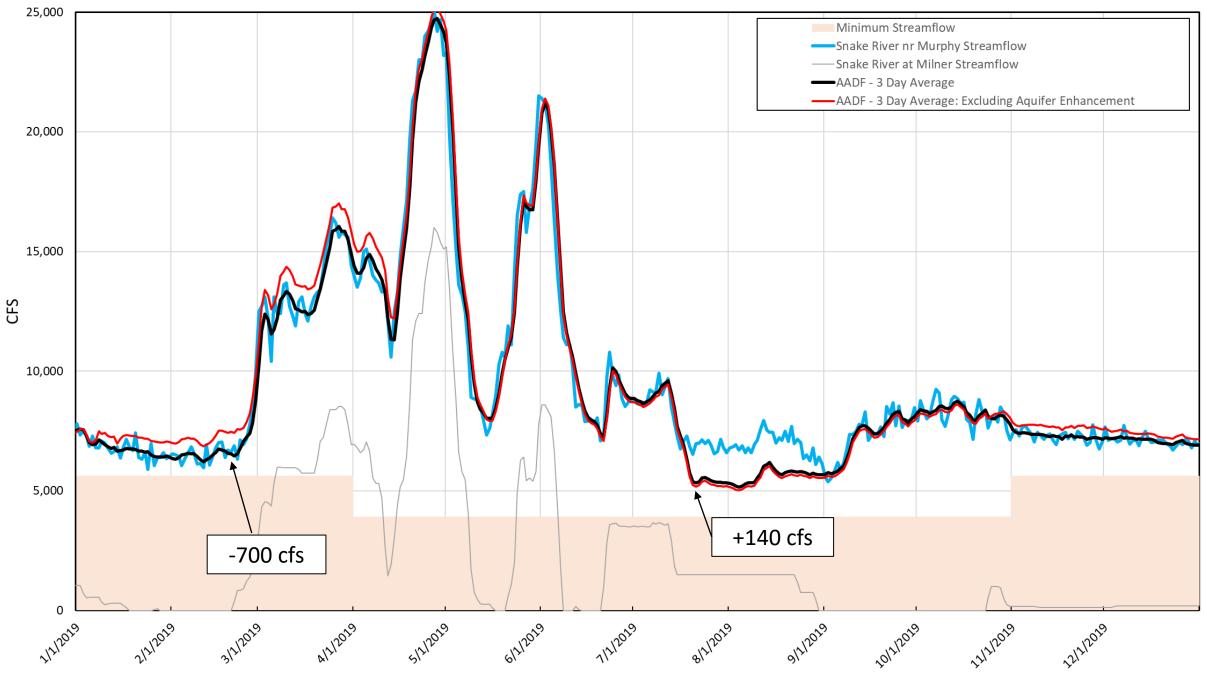


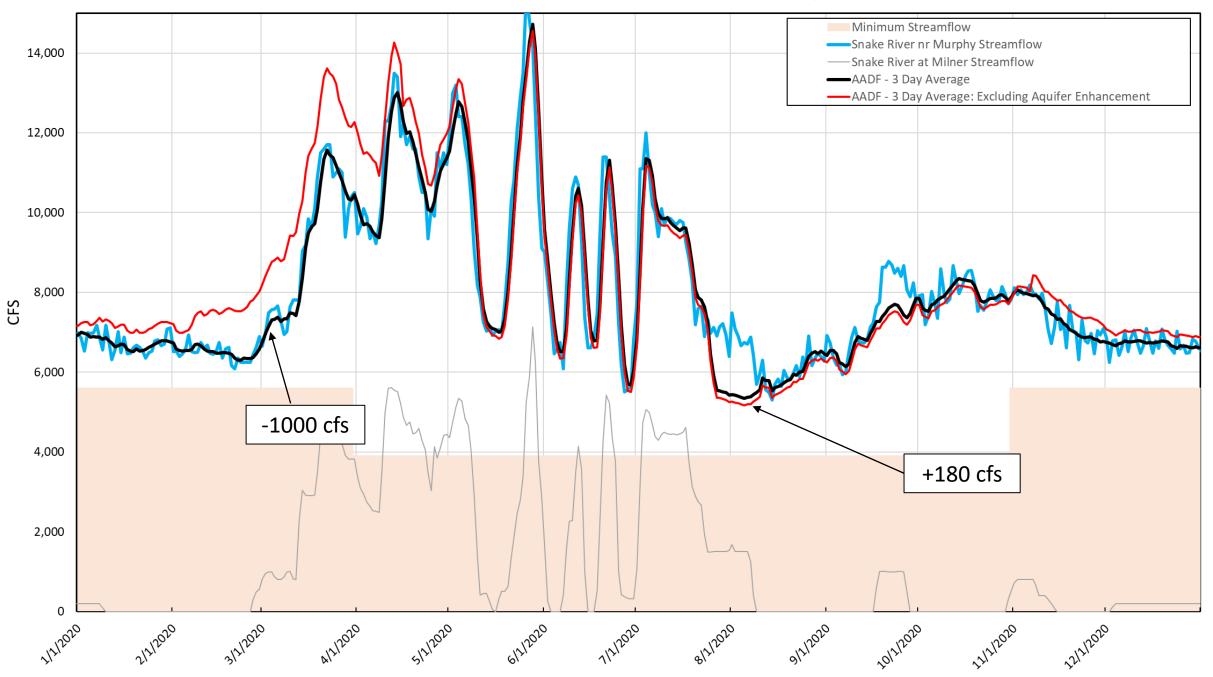


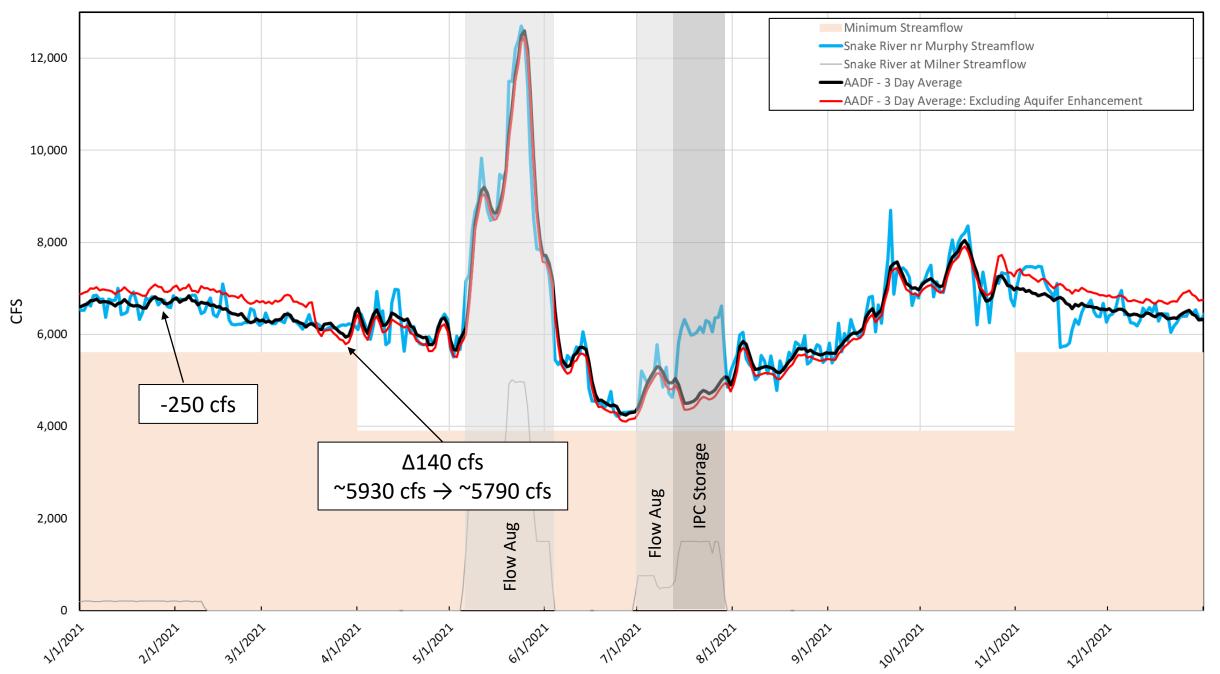
2017: Streamflow at Snake River near Murphy



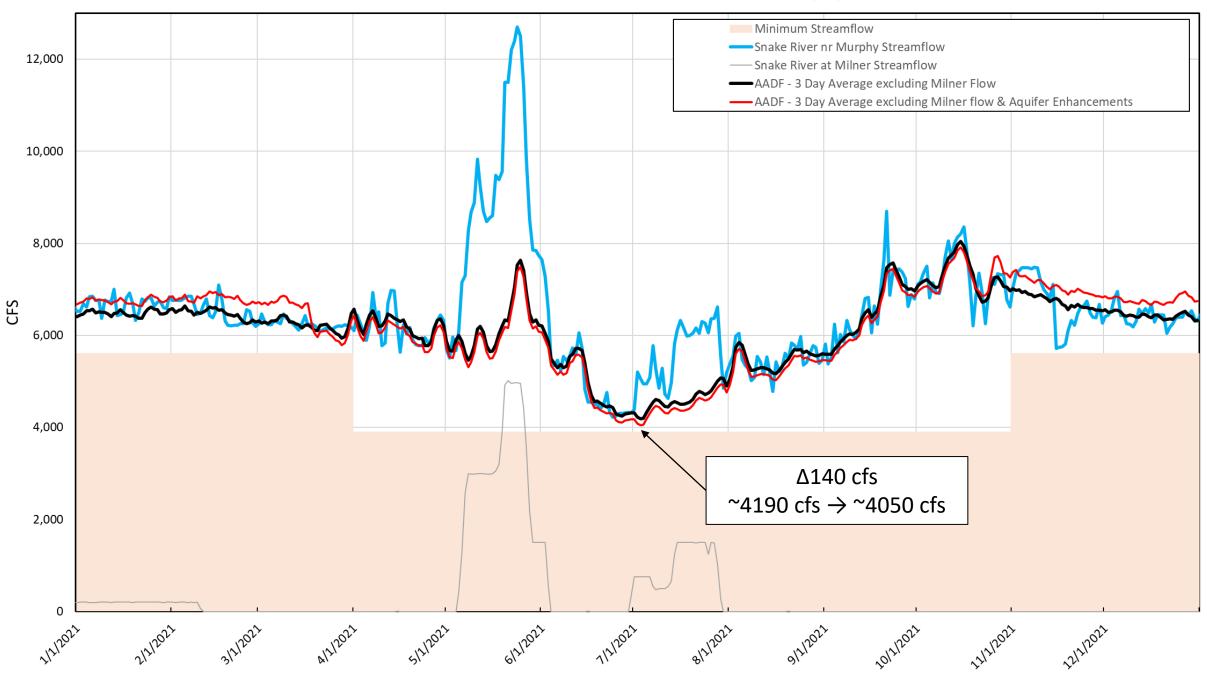








2021: Streamflow at Snake River near Murphy



DAHO Department of Water Resources



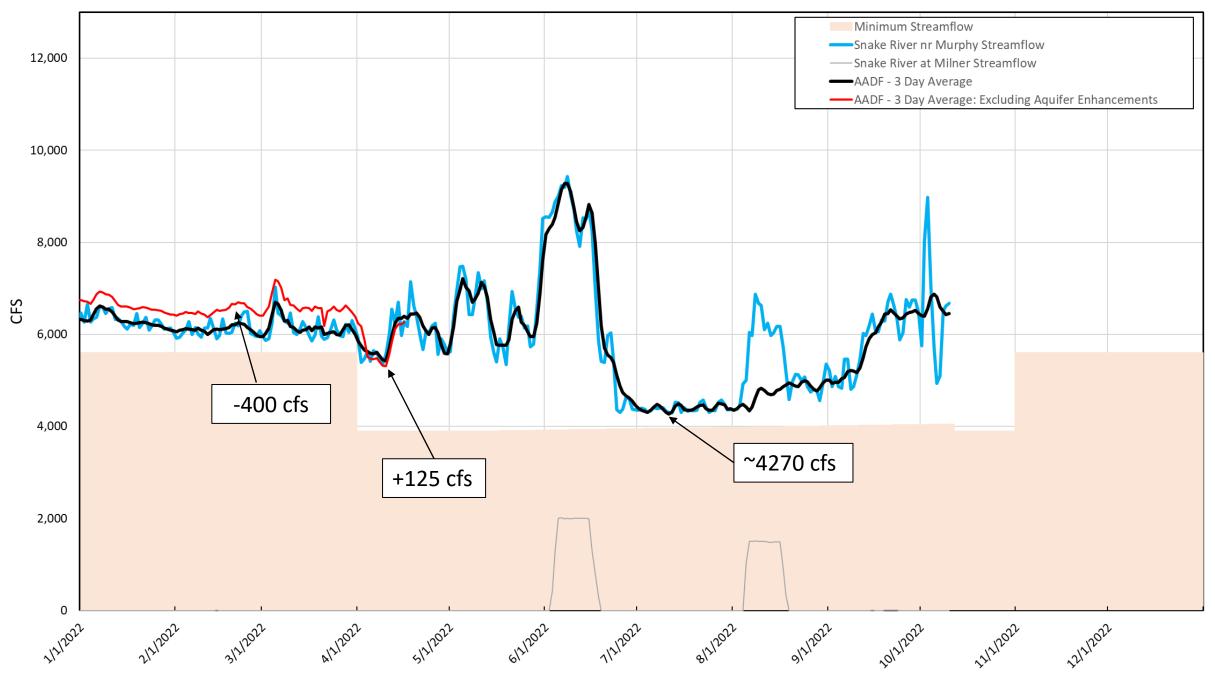
- 1. Technical analysis to determine if the Adjusted Average Daily Flow (AADF) at the Snake River near Murphy gage would have been below the minimums at any time since 2014, but for IGWA-SWC-Cities settlement and IWRB managed recharge activities.
- 2014 2016: Very little benefit to make a difference
- 2017 2019: Good water years & begin to see a noticeable difference.
- 2020 2021: Noticeable difference in low water years
 - March 2021: ~5790 cfs (5600 cfs minimum)
 - July 2021: ~4,050 cfs without flow augmentation (3,900 cfs minimum)

AADF would be above the minimums (5,600 cfs & 3,900 cfs) even without IWRB Managed Recharge and Settlement Activities









AVERAGE JULY (2012-2021)

