

March 15, 2023

Seasonal water supply forecast for the Owyhee river below dam

Figure 1. Basin snowpack (SWE)

owyhee_r_bl_owyhee_dam , issue date: 2023-03-15

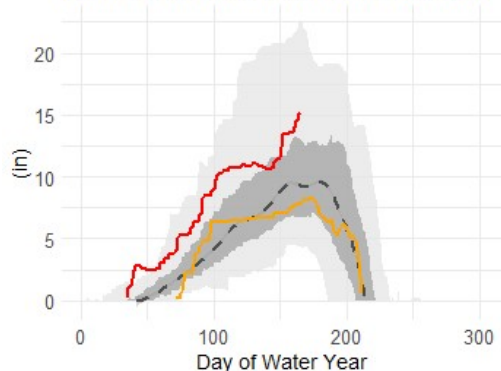


Figure 2. Accumulated precipitation

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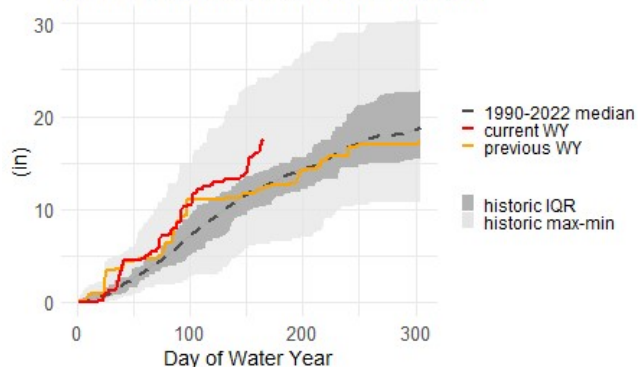


Figure 3. Antecedent flow (red) vs historic monthly flow (boxplots)

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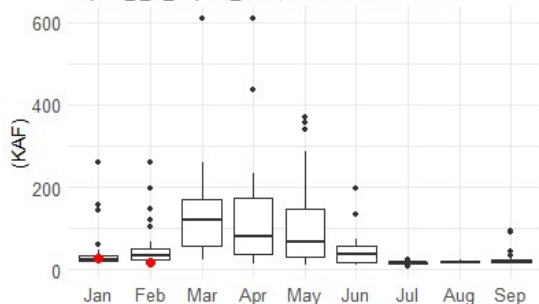
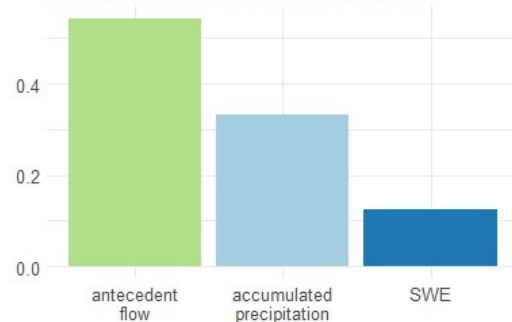


Figure 4. Relative importance of model predictors

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Snowpack

As of 15-03-2023 basin snowpack substantially exceeds climatological normal, being within 4th quartile of observations between 1990 to 2022.

Precipitation

Accumulated precipitation exceeds climatological normal, being of 132% of median for 1990 to 2022.

Seasonal streamflow forecast

For this issue date the underlying forecast model relies more on antecedent flow and accumulated, with a smaller contribution from basin snowpack conditions (see Figure 4). The preliminary forecast for the April through July streamflow in the basin suggests that it may exceed historic median by 68% and constitute around 350 KAF.

90% exceedance forecast	50% exceedance forecast	10% exceedance forecast	Historic mean	Last WY
211.1	350.0	489.0	288.9	207.2