

## Forecast Explanation: owyhee\_r\_bl\_owyhee\_dam 2023-03-15

The model estimates the following range for naturalized seasonal volume (KAF) of owyhee\_r\_bl\_dam on 2023-03-15, {10th quantile: 250, median: 477, 90th quantile: 860} (Fig 1). This prediction is above historical values for each quantile and represents an increase for each quantile from the previous prediction due to an increase in the estimates for accumulated water and precipitation (Fig 2, Fig 5-9). The predictions for each month within the streamflow season are also above historical values (Fig 4). The biggest drivers for this prediction are the SWE estimate (Snotel), which is 1.7 standard deviations above historical, and an increase in the precipitation estimate (Acis), which is 0.43 standard deviations above historical (Fig 10-13).

Fig 1: Quantile Model Ensemble

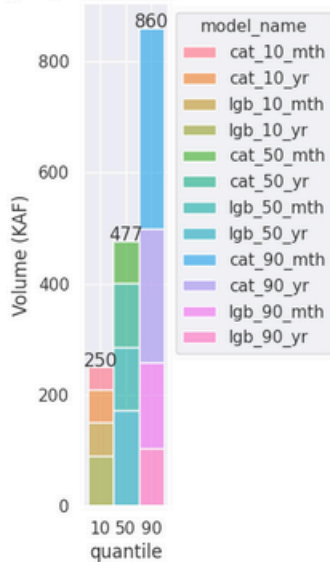


Fig 2: Predicted Volume Quantiles vs Historical Quantiles by Issue Date

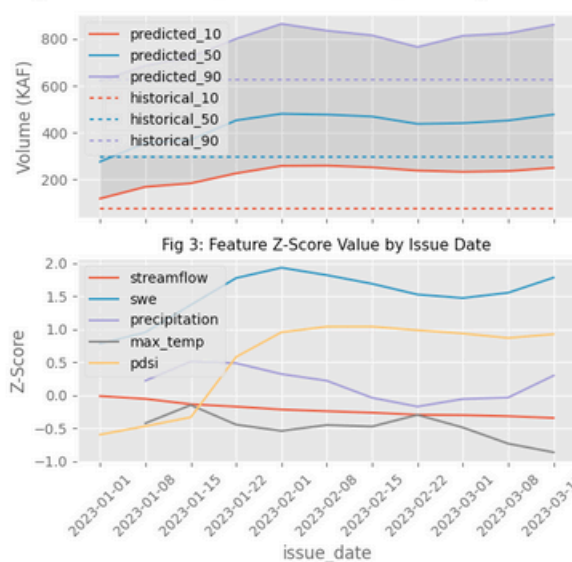


Fig 4: Monthly Predicted Quantiles vs. Historical

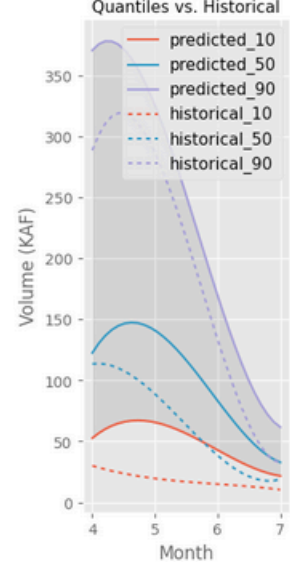


Fig 3: Feature Z-Score Value by Issue Date

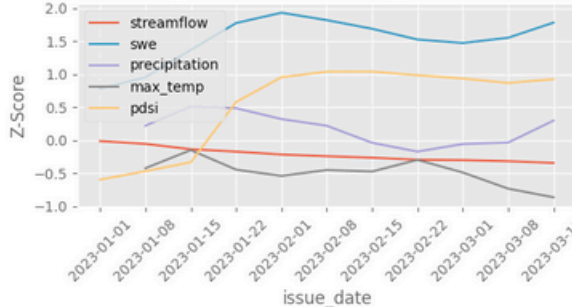


Fig 5: Z-Score Change from Previous Issue Date

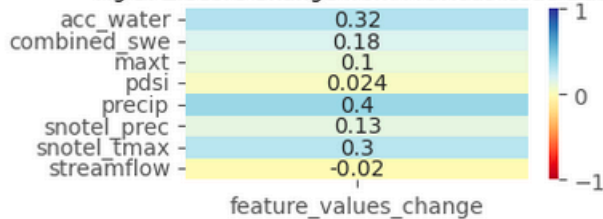


Fig 6: Z-Score Value on Issue Date

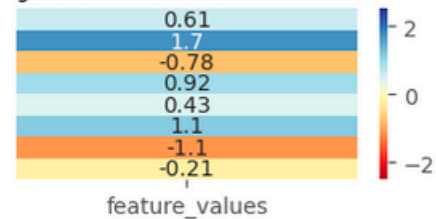
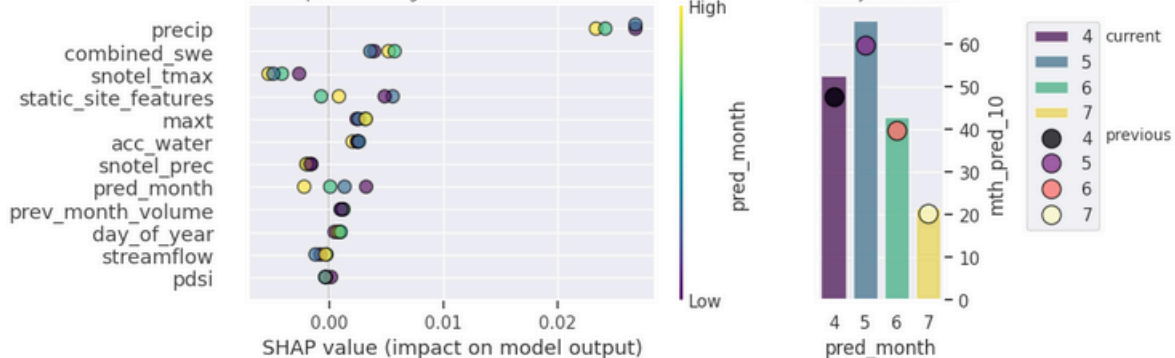


Fig 7: Changes from Previous Issue Date - Monthly Model Ensemble - 10th Quantile



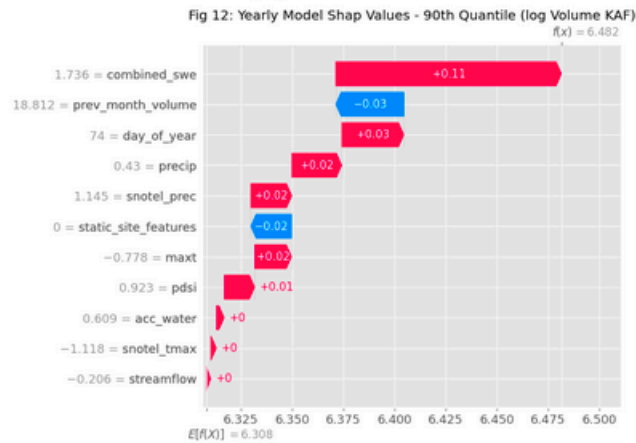
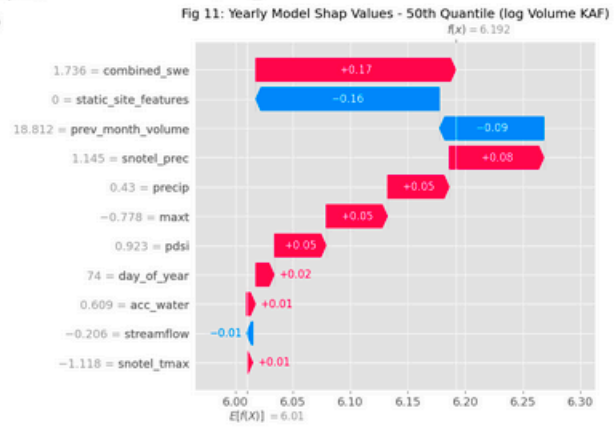
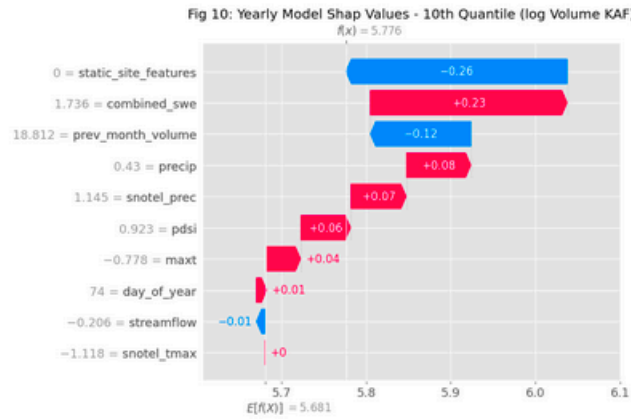
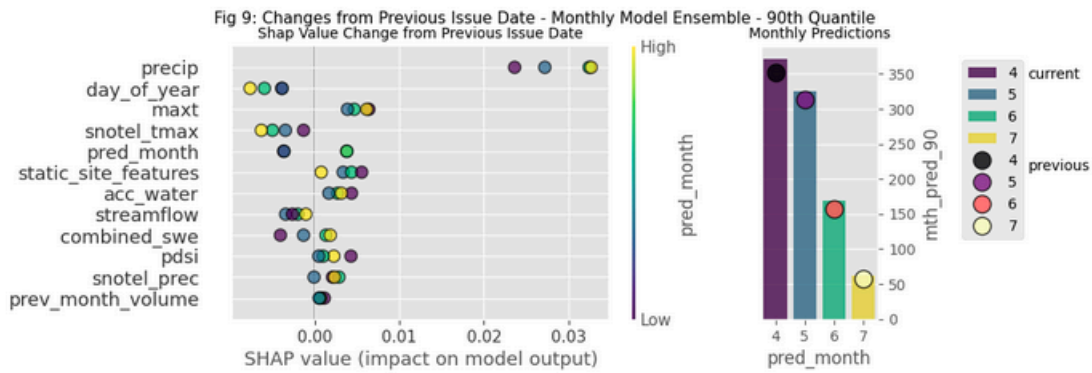
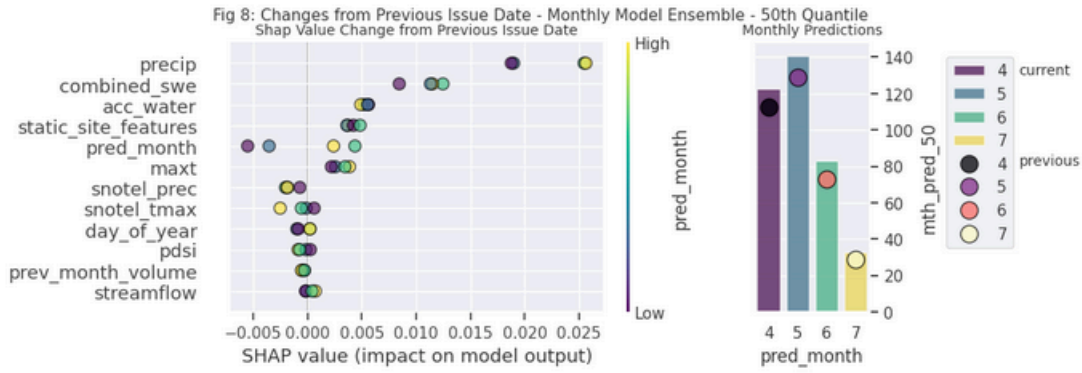


Fig 13: Snotel SWE Deviation (Correlated Stations) on 2023-03-15

