

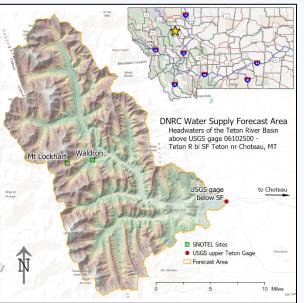
through the summer months.



Disclaimer: The DNRC snowmelt runoff forecast follows NRCS methodology using statistical best practices and professional judgment. Like any forecast it contains uncertainty. Please consider the stated error and documentation associated with each model when using the predicted flow in your decision-making process.

Forecast

Area



Runoff Forecast

DNRC's April 1 water supply forecast predicts a below normal volume of 20,986 acre-feet (Figure 3) of water from snowmelt, or 57% of normal. **This is the estimated flow only from snowmelt**. Current information indicates that the 2025 runoff from accumulated snowpack is predicted to be like conditions observed in 2005, one of driest years on record. For this site, the April forecast still has relatively high uncertainty. Based on the uncertainty of the prediction, there is a 90% chance snowmelt runoff will exceed 11,924 acre-feet (33% of normal) and a 10% chance snowmelt runoff will exceed 35,625 acre-feet (97% of normal).

If there is a normal amount (7.7 inches) of rain from April 1 – July 31, the total flow is predicted to be 34,345 acre-feet. This is 15,563 acrefeet less than normal. Any excess rain (more than 7.7 inches) could increase the volume substantially (Figure 4). If it rains 11.5 or more inches during the forecast period, 2025 could be like 2021 or 2022. For reference, 2019 had more than 12 inches of rain from April 1 – July 31. The effects of excess rain are visualized in Figure 4 as inches above normal.

Forecast Period is April 1 – July 31

All predicted and displayed values are calculated for this period.

On a normal year, 49,908 acre-feet of water flows by the TRSF gage from April 1 – July 31 (based on the median of the total annual flow from 1999 to 2021). Approximately 36,660 acre-feet (or 73%) of this flow is from snowmelt built up at high elevations during the winter and spring. The remainder of flow is from rain events between April 1 and July 31. The normal rainfall in the forecast area during this period is 7.7 inches but can vary considerably. The median rainfall (7.7 in) produces about 13,359 acre-feet of flow based on DNRC rainfall runoff model estimates.

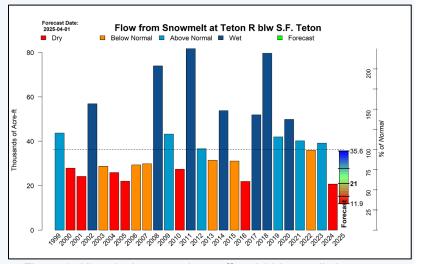
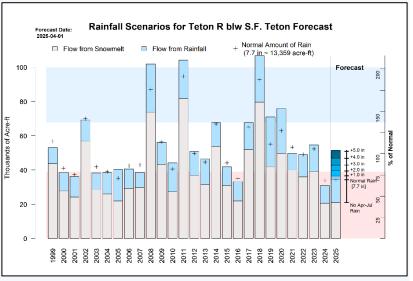


Figure 3: Historical snowmelt runoff and 2025 prediction.



<u>Figure 4:</u> Proportion of flow from snowmelt vs. rain and the effects of April 1 - July 31 rain on predicted flow.



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