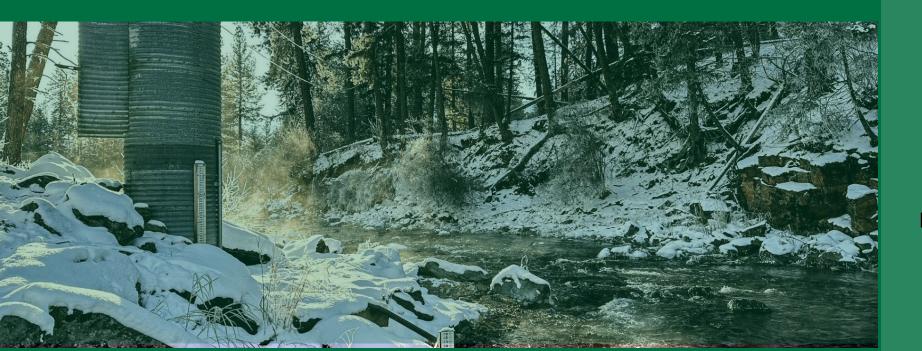


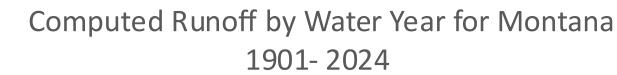
U.S. Department of Interior
U.S. Geological Survey
Wyoming –Montana Water Science Center

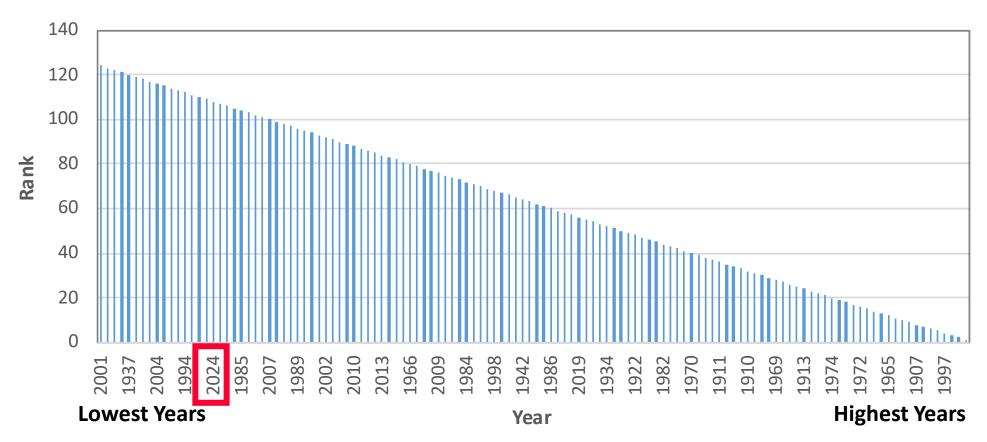
This information is preliminary and is subject to revision. It is being provided to meet the n for timely best science. The information is provided on the condition that neither the U.S. Geological Survey nor the U.S. Government shall be held liable for any damages resulting from the authorized or unauthorized use of the information

A LOOK BACK AT 2024

- Computed Runoff: Ranked 108 of 124
- Low Flows (7– Day Averages)
 - 6 Sites-Records Set*
 - 10 Sites-Record Tied*
 - * Filtered for sites w/ 10 or more years of record.







Preliminary Information-Subject to Revision. Not for Citation or Distribution.

Source: USGS WaterWatch. Annual Summary by

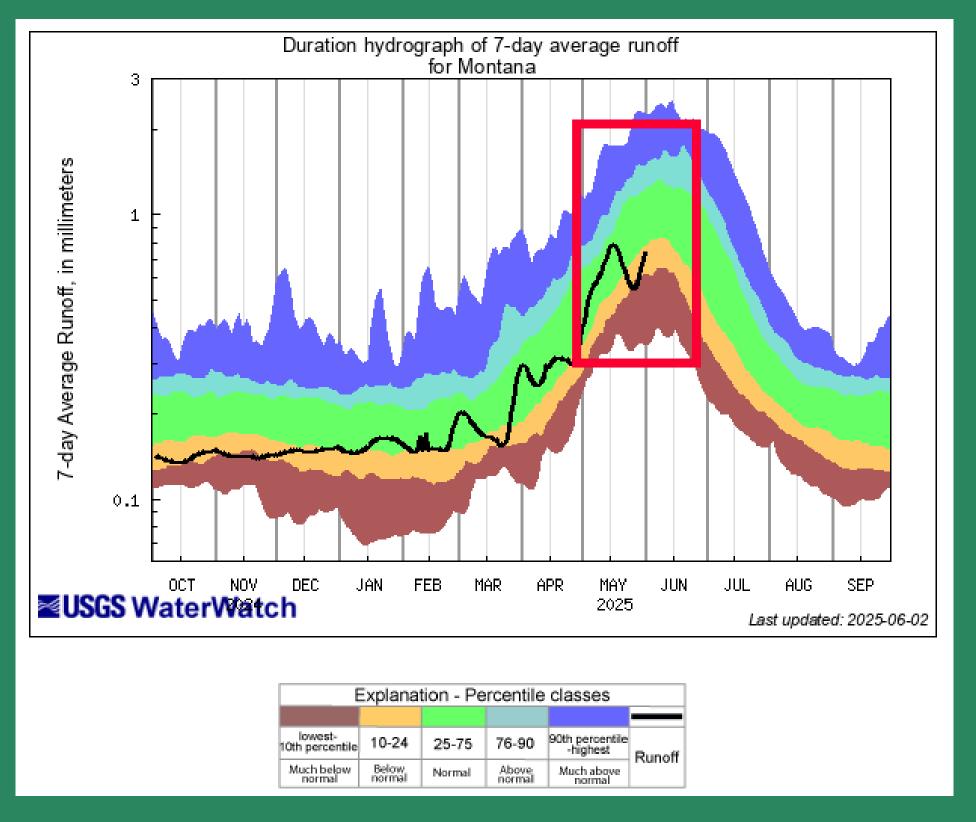
State and 7-day below Normal Streamflow

https://waterwatch.usgs.gov/

WHERE WE ARE IN THE WATER YEAR

- At the peak or past the peak?
- Widespread rain could increase flows.
- Time of "good" water supply.



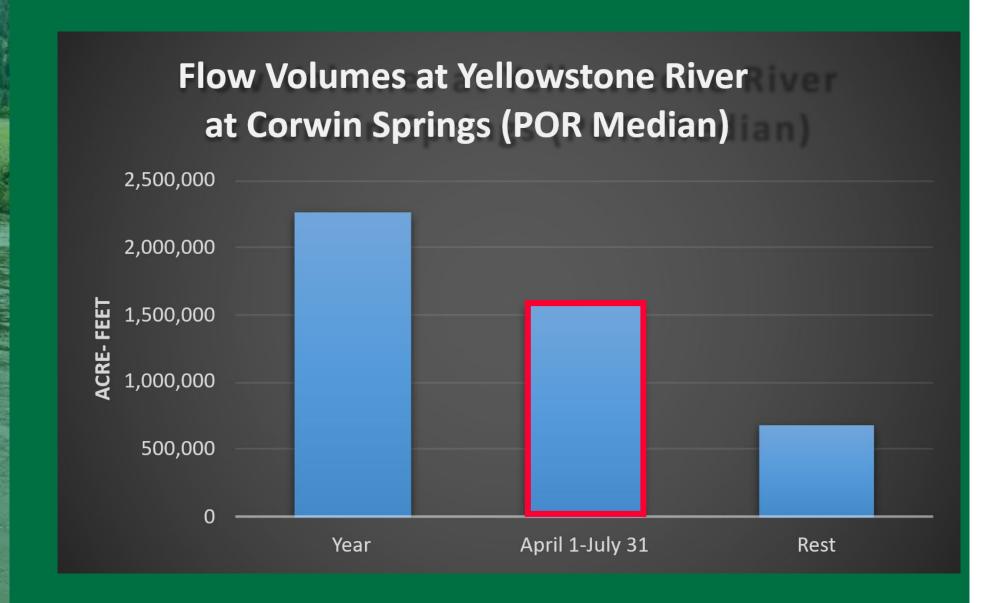


Preliminary Information-Subject to Revision. Not for Citation or Distribution.

Source: USGS WaterWatch Area-Based Runoff Duration Hydrograph http://waterwatch.usgs.gov/

SIGNIFICANCE OF RUNOFF

- Most of year's water accumulation
- Cumulative April 1 July 31 flow as a % of the year (POR Median)
 - o Yellowstone at Corwin-69%
 - o Gallatin at Gateway- 67%
 - o Blackfoot at Bonner 71 %
 - o MF Flathead nr W. Glacier- 80%



Preliminary Information-Subject to Revision. Not for Citation or Distribution.

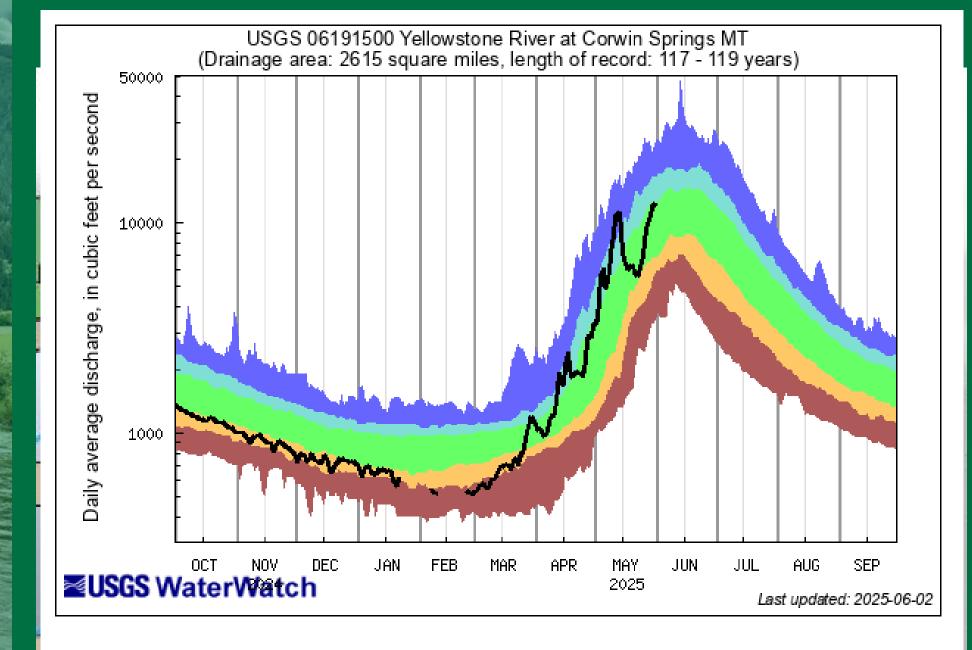
Source: USGS Water Data for the Nation

https://waterdata.usgs.gov/



PROLONGED DROUGHT

- Last Year's Drought Can affect this year's water supply.
 - Baseflow is precipitation that fell days, weeks, years ago.
- How long and how much are not easily answered.



Explanation - Percentile classes					
lowest- 10th percentile	10-24	25-75	76-90	90th percentile -highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

Preliminary Information-Subject to Revision. Not for Citation or Distribution.

Source: USGS Public Domain./ Water Watch

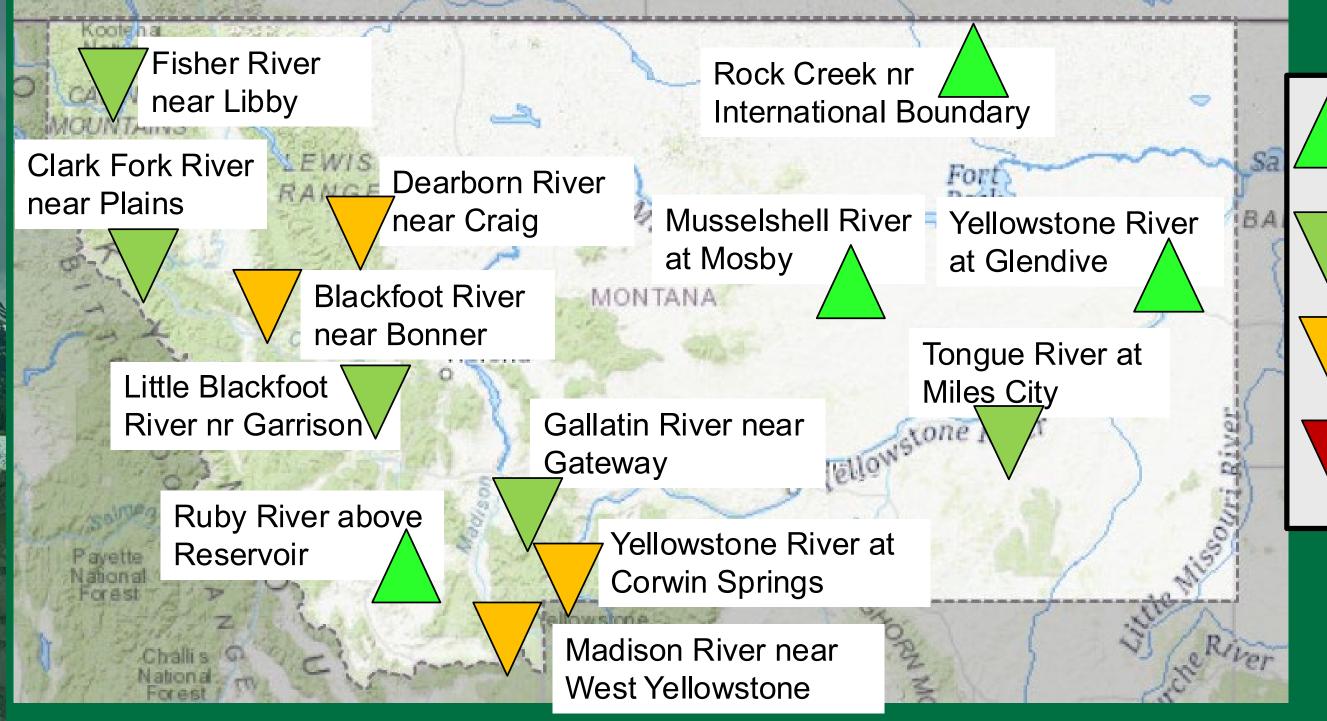
https://www.usgs.gov/media/images/conceptual-groundwater-flow-diagram

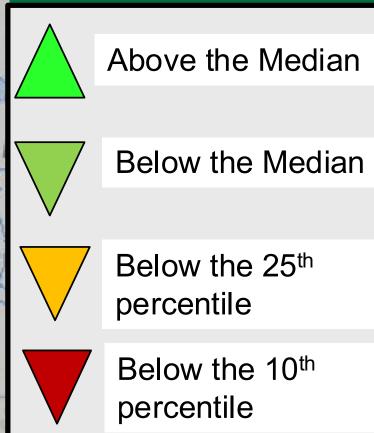
https://waterwatch.usgs.gov/



OCT 1, 2024- MAR 31, 2025: STREAMFLOW

(Cumulative flow, compared to period of record statistics)





Preliminary Information-Subject to Revision. Not for Citation or Distribution.

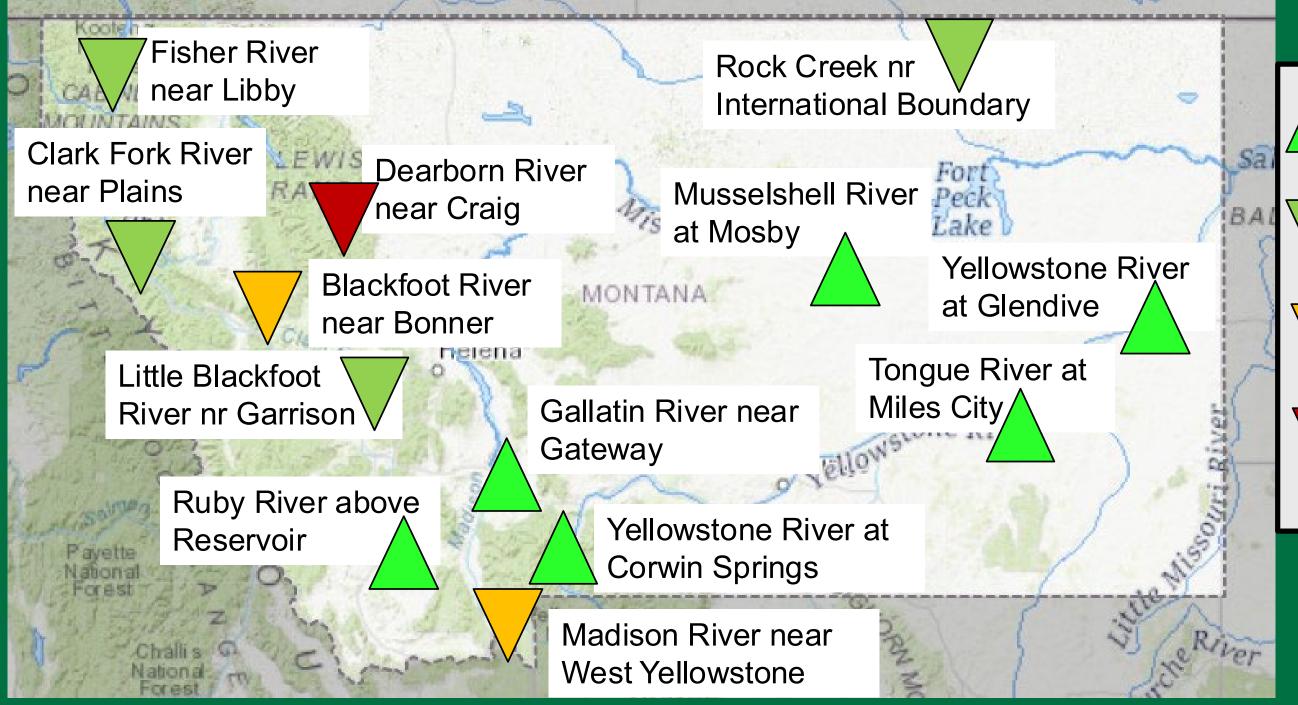
Source: USGS Water Data for the Nation

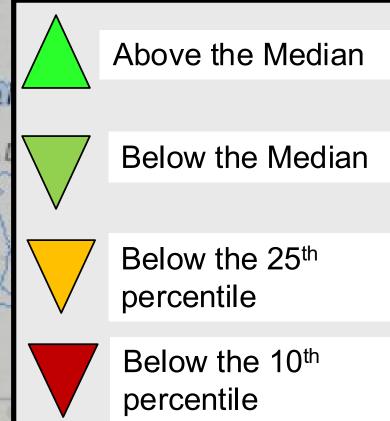
https://waterdata.usgs.gov/



APR 1, 2025- JUNE 1, 2025: STREAMFLOW

(Cumulative flow, compared to period of record statistics)







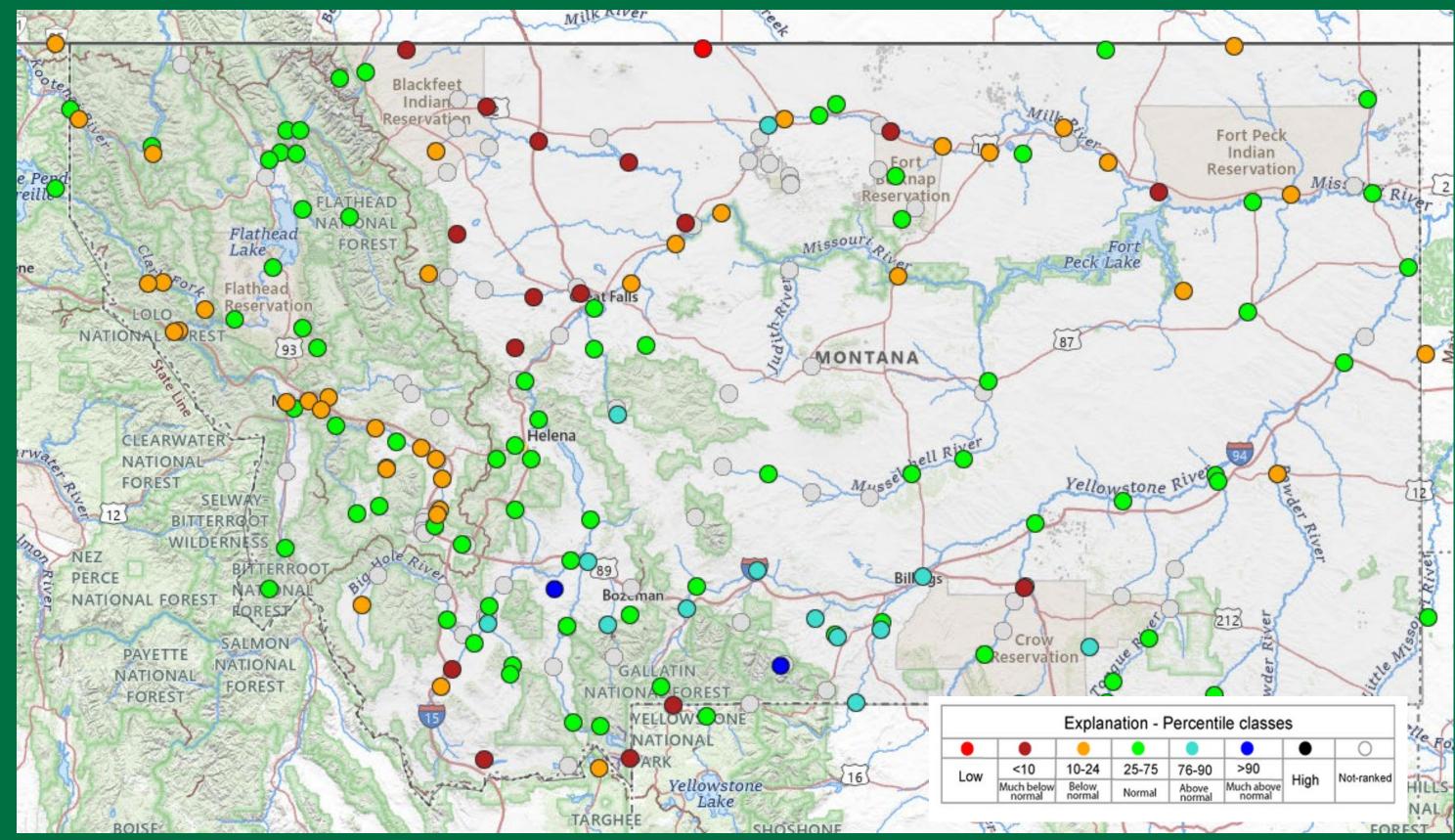
Source: USGS Water Data for the Nation

https://waterdata.usgs.gov/



28 DAY AVERAGE STREAMFLOW FOR JUNE 01, 2025

Average of near peak flows



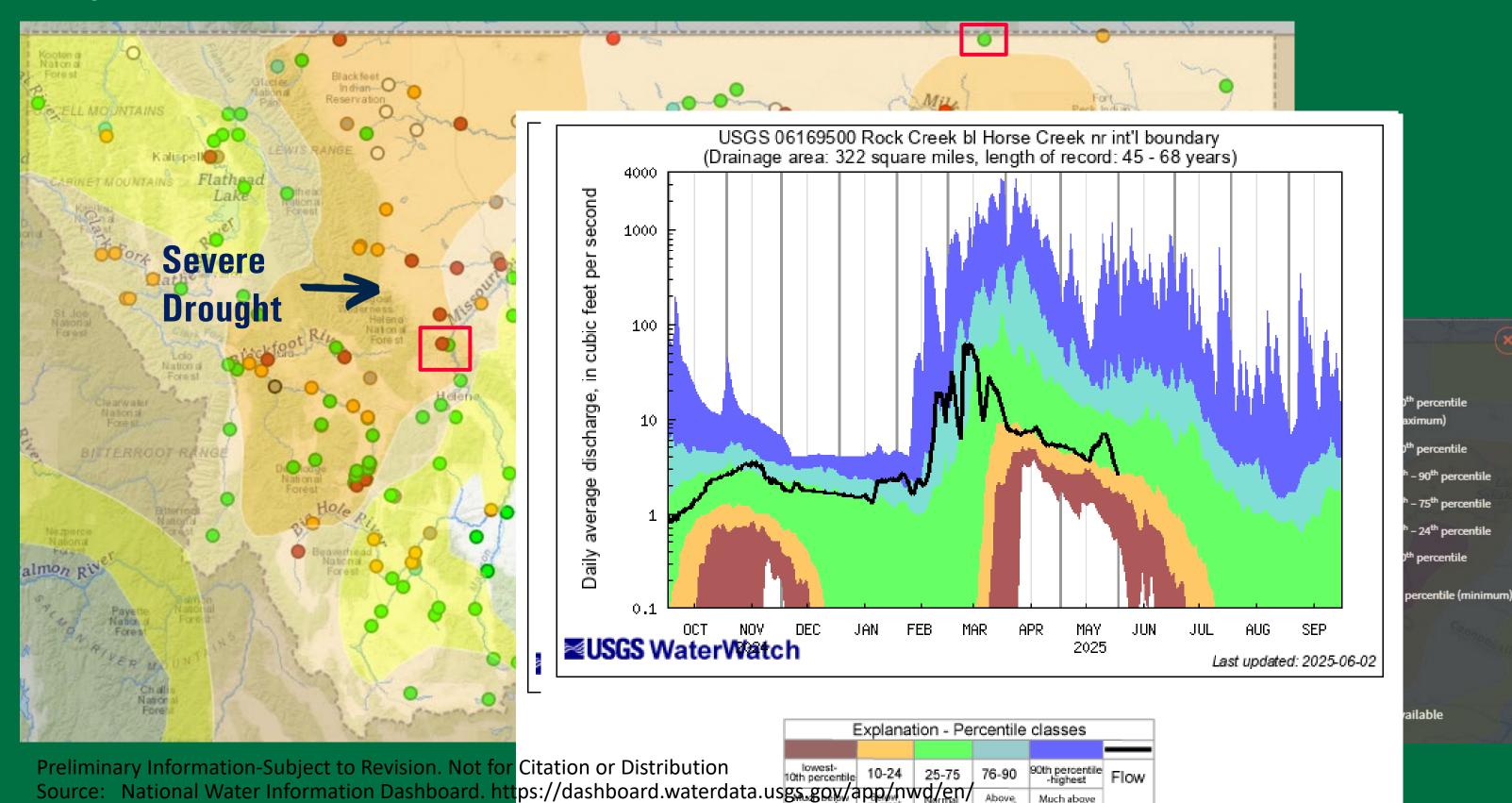
Preliminary Information-Subject to Revision. Not for Citation or Distribution. Source: USGS WaterWatch 28 Day Average Flow



SELECT GAGES WITHIN DROUGHT AREAS

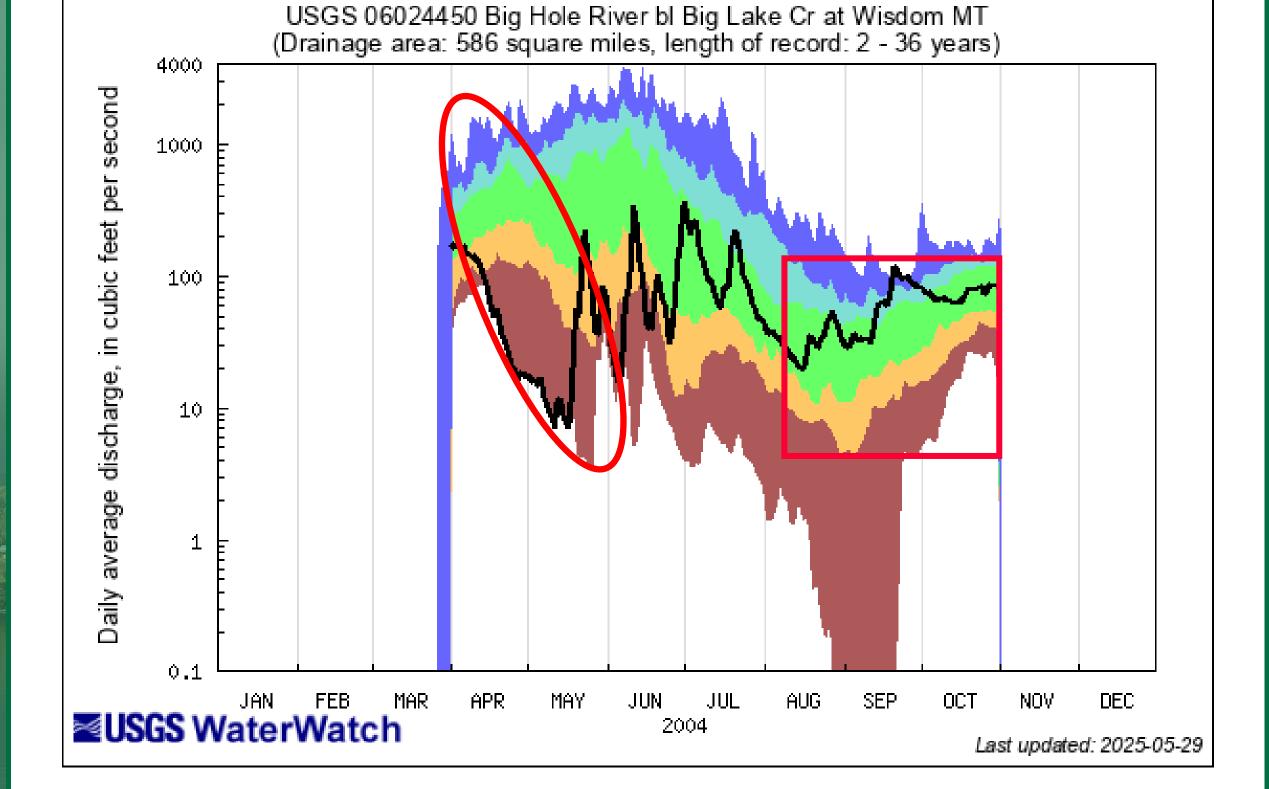
Drought Classification as of May 29, 2025

USGS WaterWatch Site Duration Hydrograph waterwatch.usgs.gov/



GLASS HALF FULL

- Reasonable Snowpack.
 - Except the Rocky Mountain Front.
- May and June rains.
- There's always a chance.



ource:

Explanation - Percentile classes Preliminary Information-Subject to Revision. Not for Citation or Distribution



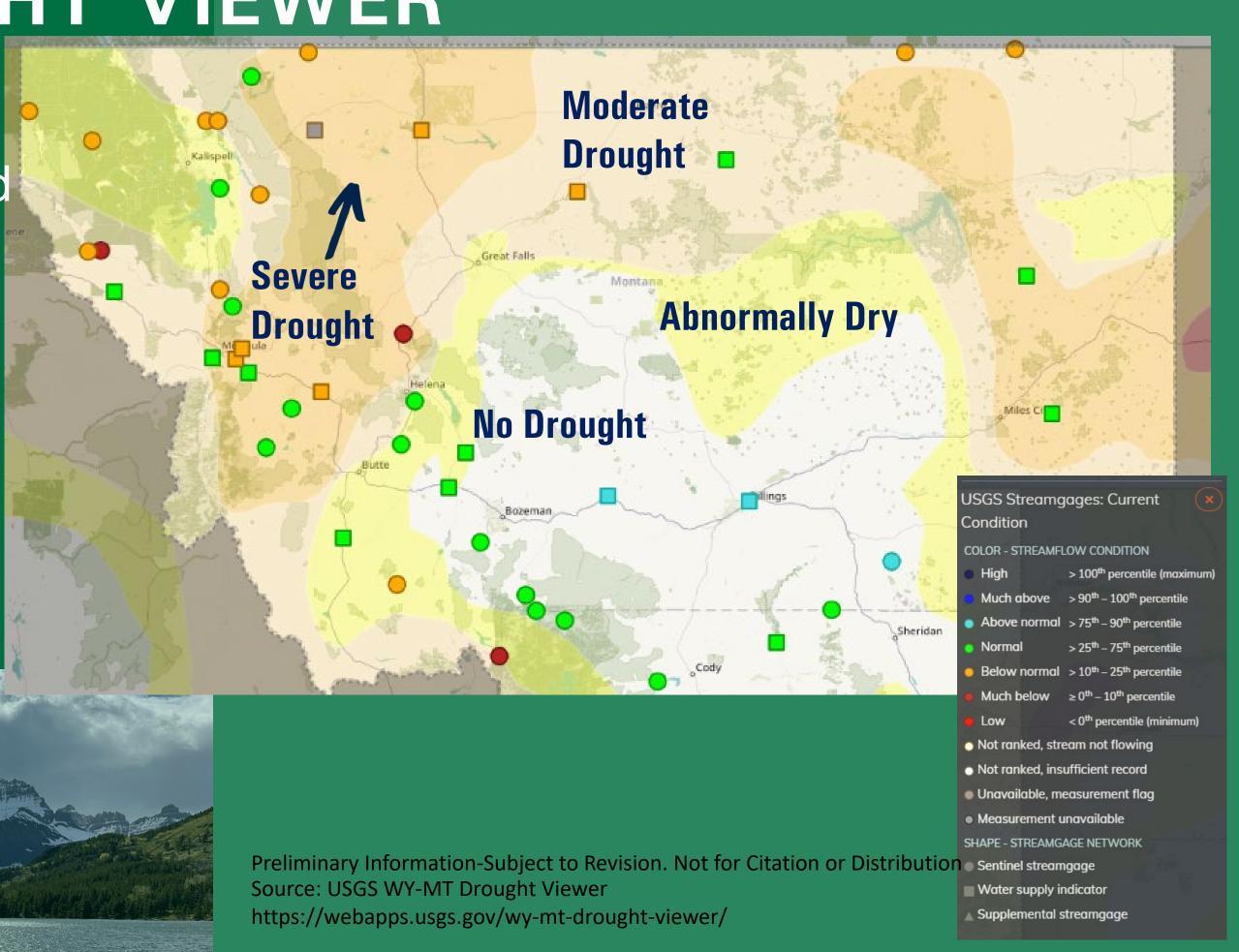
WY-MT DROUGHT VIEWER

Common Period of Record

• 1991-2020

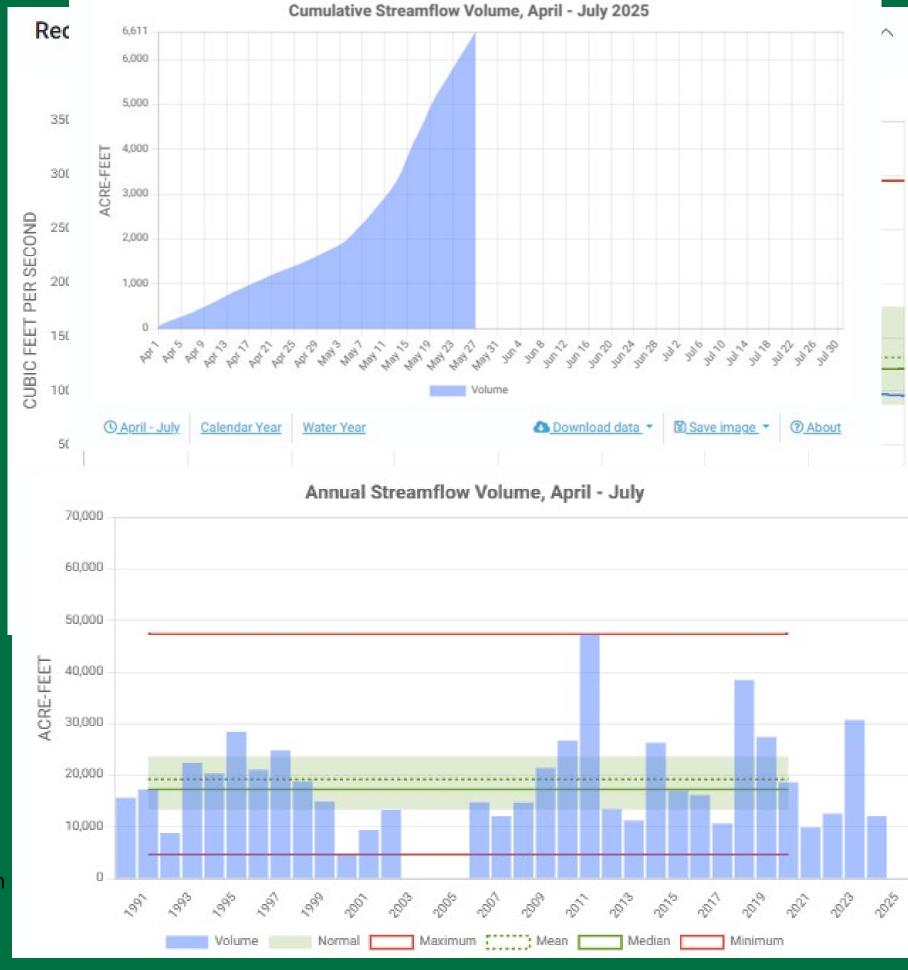
Sentinel Gages

Water Supply Indicator
 Gages



WY-MT DROUGHT VIEWER

- Streamflow Visualization.
- Cumulative Volume
 - (April 1- July 31)
 - Current year
 - Historic

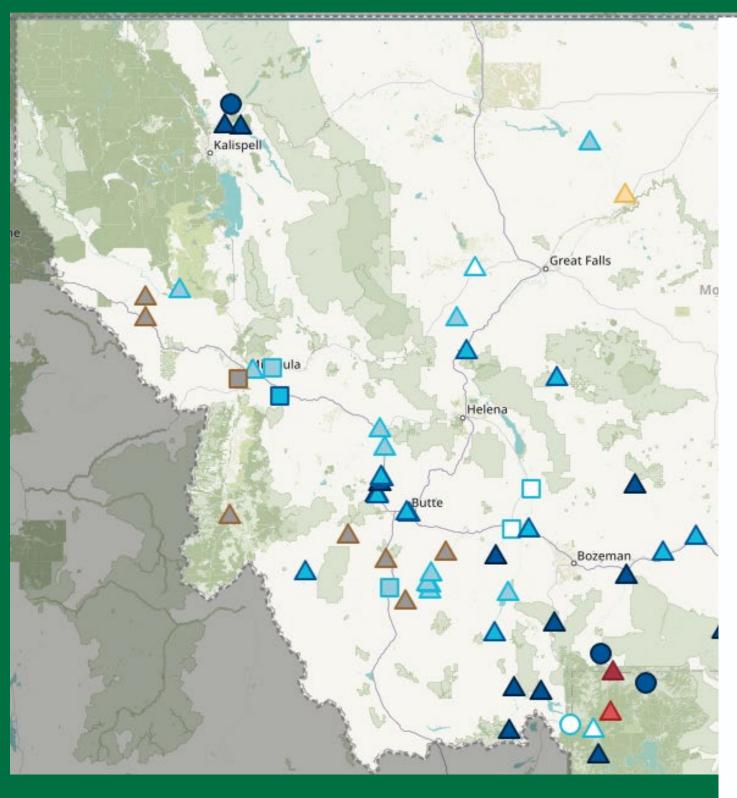


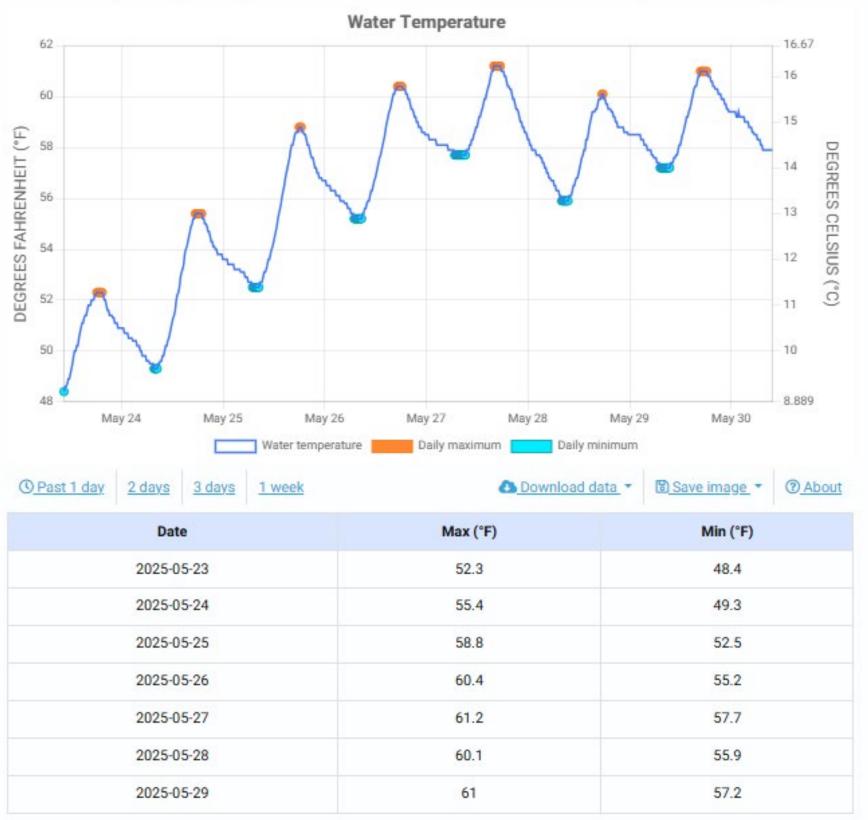
Streamflow Volume



Preliminary Information-Subject to Revision. Not for Citation or Distribution Source: USGS WY-MT Drought Vieser https://webapps.usgs.gov/wy-mt-drought-viewer/

WY-MT DROUGHT VIEWER - Temperature





67 sites collecting water temperature data





Contact/Links

Wyoming-Montana Water Science Center

- Aaron Fiaschetti- Hydrologist (afiaschetti@usgs.gov)
- (406) 4575927

Photos by Brett Price, Kannon Welhouse, and Joshua Donnelly, U.S. Geological Survey Kayak Measurement of Clark Fork River near Plains
ADCP measurement Clark Fork River by Missoula
Swiftcurrent Gage House
Flathead Polson Cableway
Milk River at Eastern Crossing

https://webapps.usgs.gov/wy-mt-drought-viewer/



https://www.usgs.gov/centers/wy-mt-water

