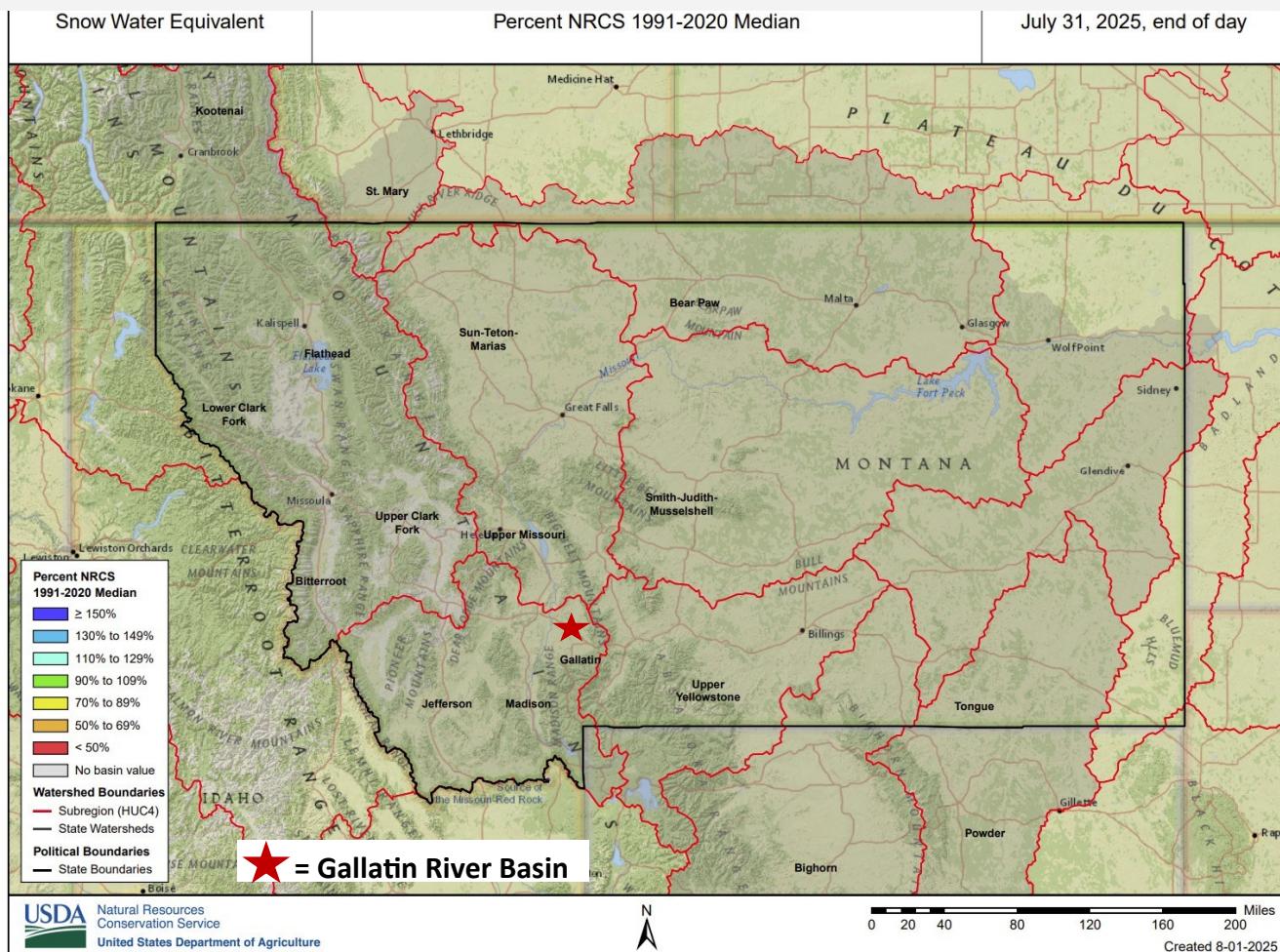
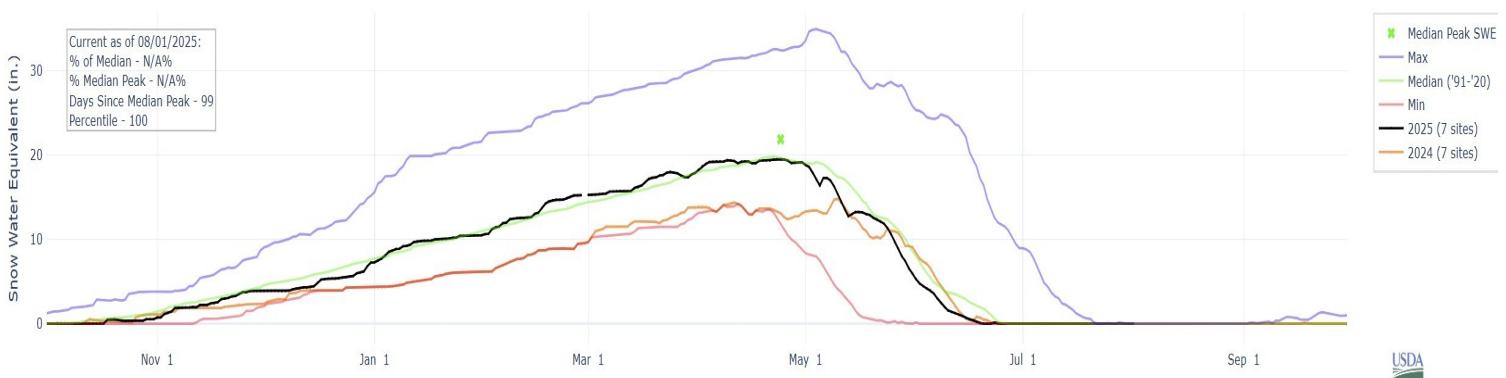


Gallatin Water Supply Outlook

July 2025



SNOW WATER EQUIVALENT IN GALLATIN



SNOWPACK SUMMARY (Water Year (WY) = October 1st—September 30)

*Data current as of August 1st

We are currently in Water Year 2025 (black line). The Snow Water Equivalent (SWE) was at normal (median) within the Gallatin River Basin on July 31st, 2025 at 0.0 inches (no change since last month). Last year on July 31st, 2024, the SWE was at 0.0 inches (orange line). Detailed end-of-month SNOTEL site information follows.

Snowpack Data

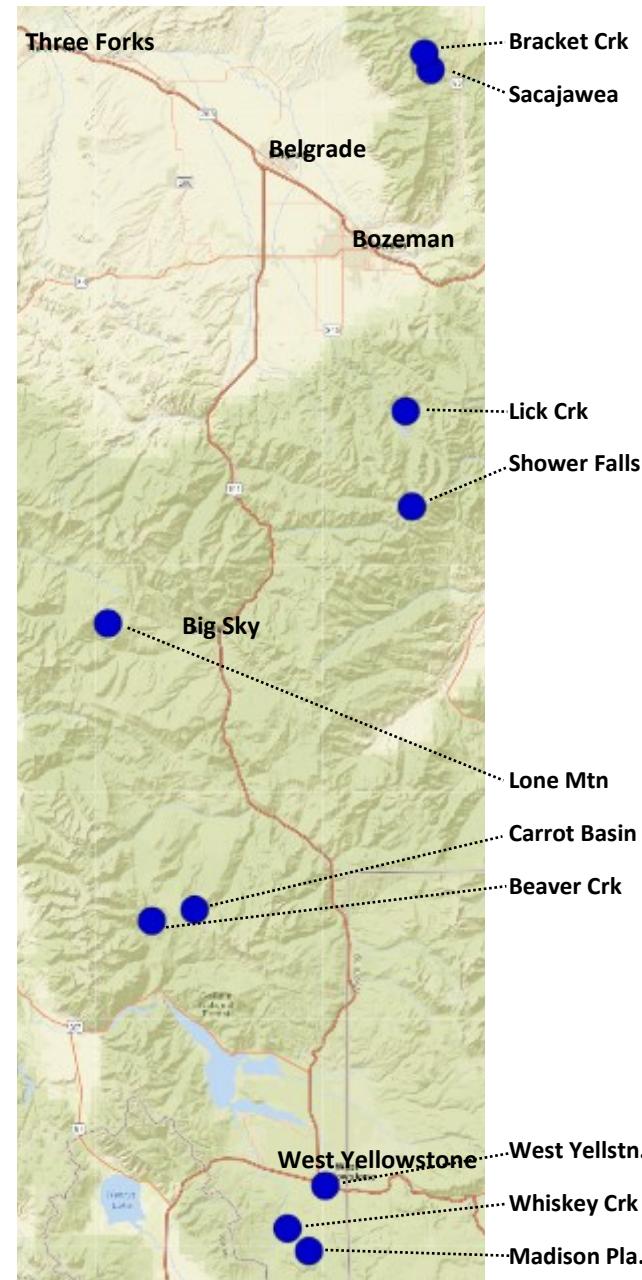
Gallatin River Basin—July 2025

Gallatin Valley Region (Bozeman-Belgrade-Four Corners)					
Station Name	Date	Snow Depth (in)	SWE (in)	SWE % Normal	Normal SWE 1971-2000 (in)
Brackett Creek	July 2024	-	0.0	-	0.0
	July 2025	0	0.0	-	
Sacajawea	July 2024	0	0.0	-	0.0
	July 2025	-	0.0	-	

Hyalite Region (Gallatin Gateway)					
Station Name	Date	Snow Depth (in)	SWE (in)	SWE % Normal	Normal SWE 1971-2000 (in)
Lick Creek	July 2024	0	0.0	-	0.0
	July 2025	0	0.0	-	
Shower Falls	July 2024	0	0.0	-	0.0
	July 2025	0	0.0	-	

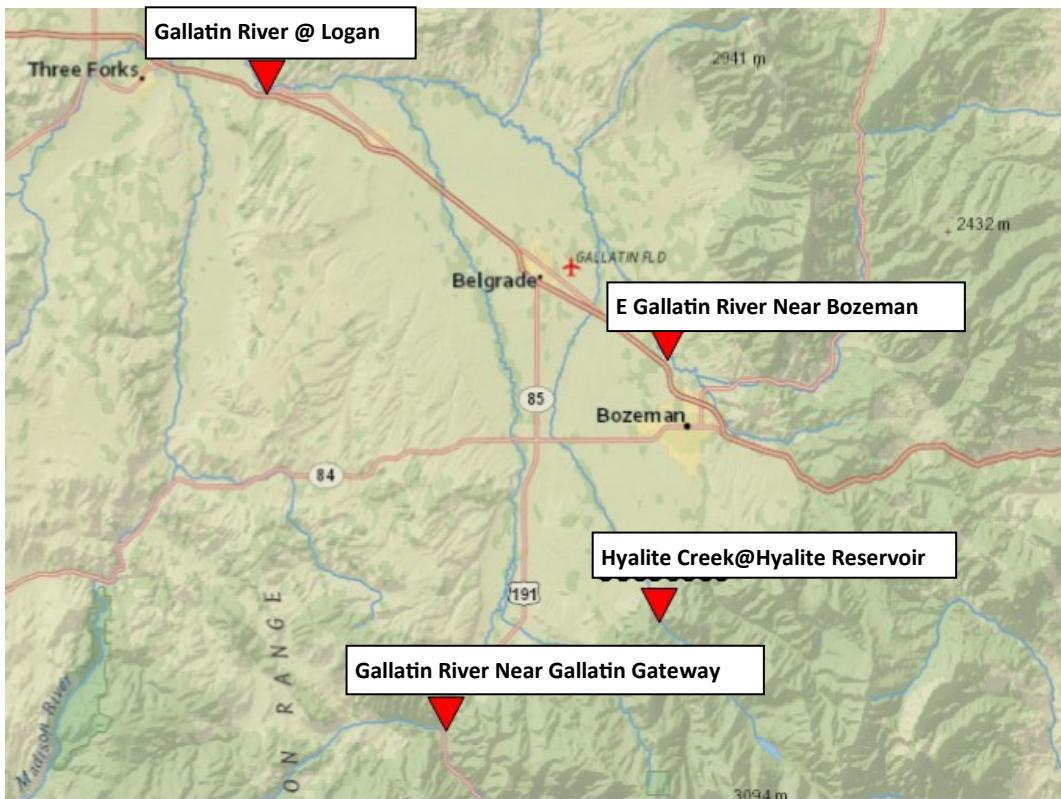
Lee Metcalf Wilderness Region (Big Sky)					
Station Name	Date	Snow Depth (in)	SWE (in)	SWE % Normal	Normal SWE 1971-2000 (in)
Beaver Creek	July 2024	0	0.0	-	0.0
	July 2025	1	0.0	-	
Carrot Basin	July 2024	0	-	-	0.0
	July 2025	1	0.0	-	
Lone Mountain	July 2024	0	0.0	-	0.0
	July 2025	0	0.0	-	

West Yellowstone Region					
Station Name	Date	Snow Depth (in)	SWE (in)	SWE % Normal	Normal SWE 1971-2000 (in)
Madison Plateau	July 2024	0	0.0	-	0.0
	July 2025	1	0.0	-	
West Yellowstone	July 2024	0	0.0	-	0.0
	July 2025	0	0.0	-	
Whiskey Creek	July 2024	0	0.0	-	0.0
	July 2025	0	0.1	-	



Streamflow Data

Gallatin River Basin—July 2025



August 1st Gallatin Watershed Streamflow

Station Name	2025 Discharge (cfs)	% Normal	Normal Discharge (cfs)	2024 Discharge (cfs)	Period Of Record (Yrs)
Gallatin at Logan	350.0	85%	412	358	109
E Gallatin near Bozeman	49.8	119%	42	40	10
Hyalite Creek at Hyalite Reservoir	83.5	116%	72	78.2	77
Gallatin near Gallatin Gateway	532.0	94%	565	631	96

STREAMFLOW SUMMARY

*Data current as of August 1st

The Gallatin at Logan and Gallatin near Gallatin Gateway sites have below normal discharge values for this time of year, while the Gallatin near Bozeman and Hyalite Creek have above normal discharge.

The Gallatin at Logan and Gallatin near Gallatin Gateway sites have discharge values below what they were this time last year, while values are above what they were last year at the Gallatin near Bozeman and Hyalite Creek sites.

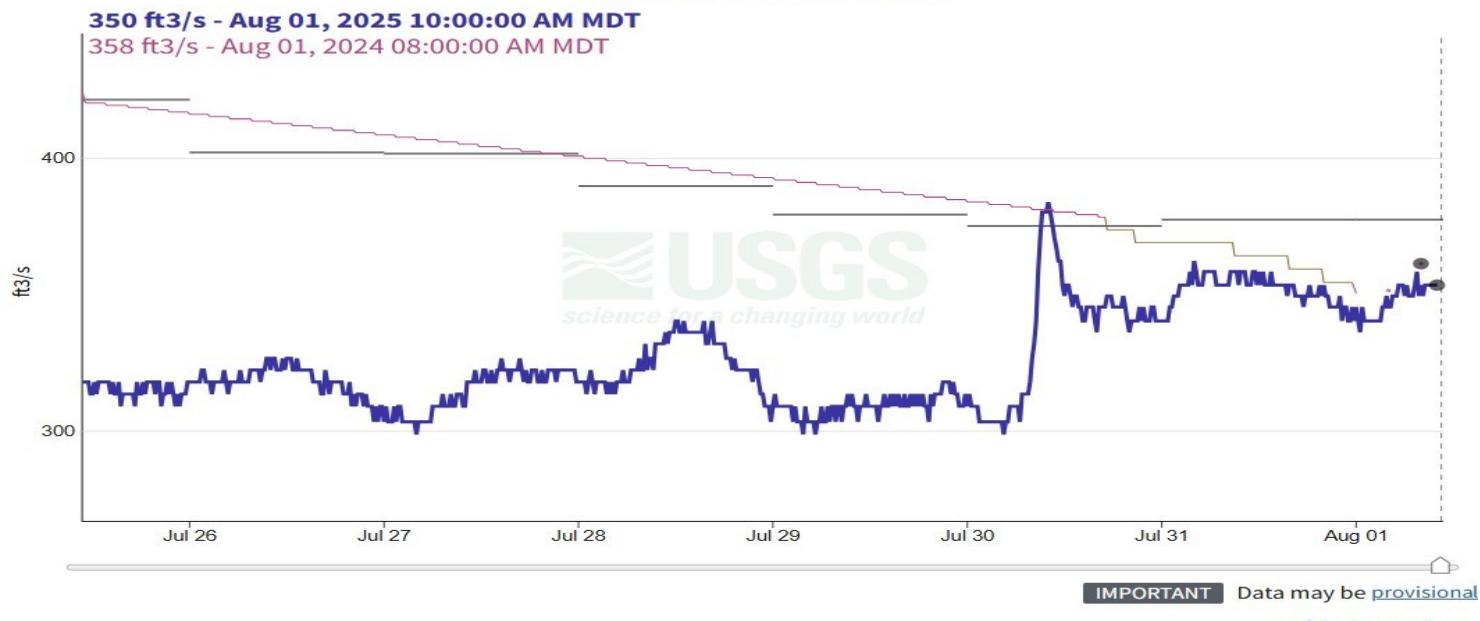
Streamflow Data

Gallatin River Basin—July 2025

Gallatin River at Logan MT - USGS-06052500

[Subscribe to WaterAlert](#)

July 25, 2025 - August 1, 2025
Discharge, cubic feet per second



Discharge, cubic feet per second
This year

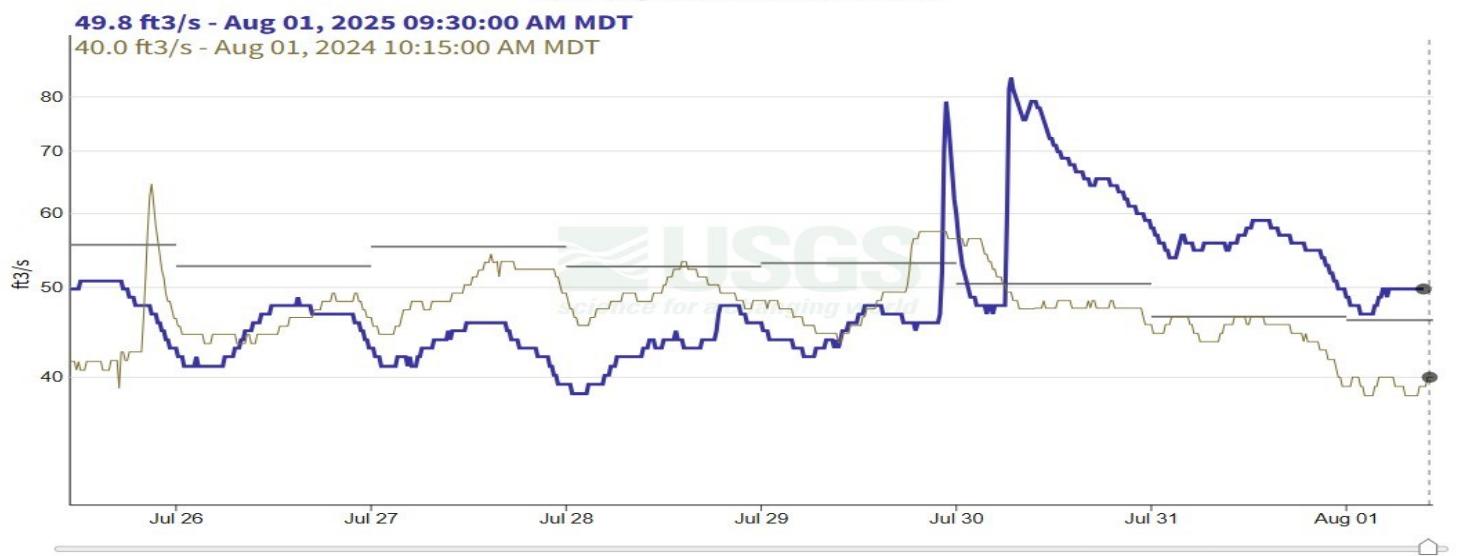
Recorded
prior year
Estimated
Recorded
Median 1893 - 2025

Discharge data is below normal.

E Gallatin R ab Water Reclamation Fa nr Bozeman MT - USGS-06048650

[Subscribe to WaterAlert](#)

- using graph zoom -
July 25, 2025 - August 1, 2025
Discharge, cubic feet per second



Discharge, cubic feet per second
This year

Recorded
prior year
Recorded
Median 2014 - 2025

Discharge data is above normal.

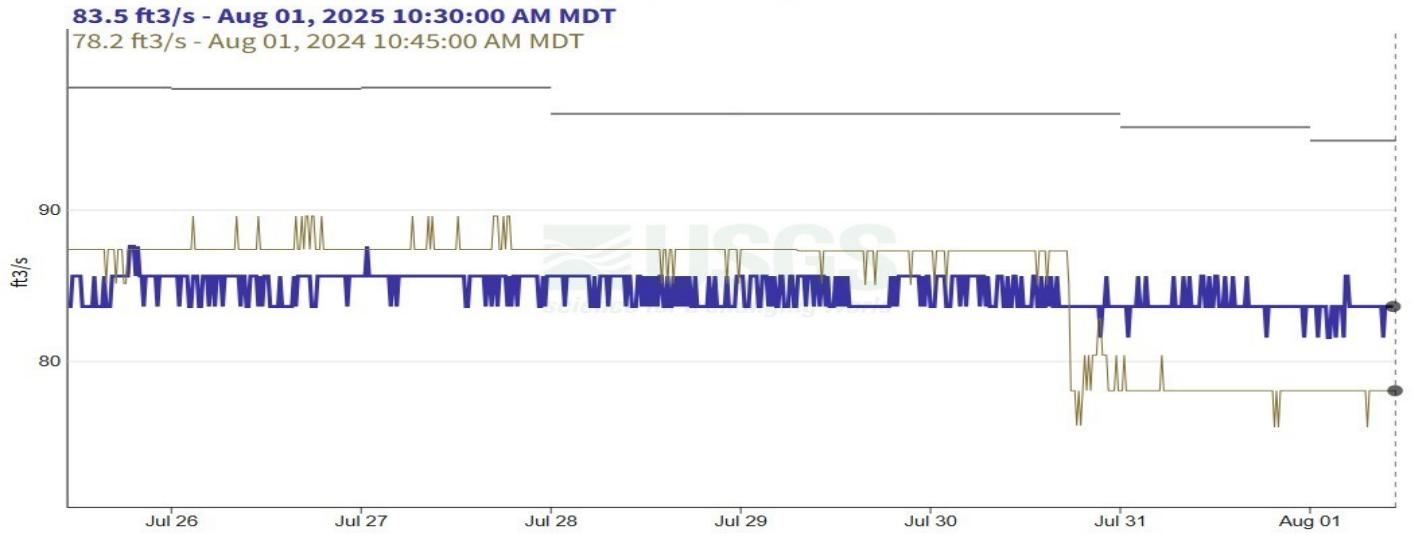
Streamflow Data

Gallatin River Basin—July 2025

Hyalite C at Hyalite R S nr Bozeman MT - USGS-06050000

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July 25, 2025 - August 1, 2025
Discharge, cubic feet per second



IMPORTANT Data may be [provisional](#)

[Hide legend ^](#)

Discharge, cubic feet per second
This year

Recorded

prior year

Recorded

Median 1895 - 2025

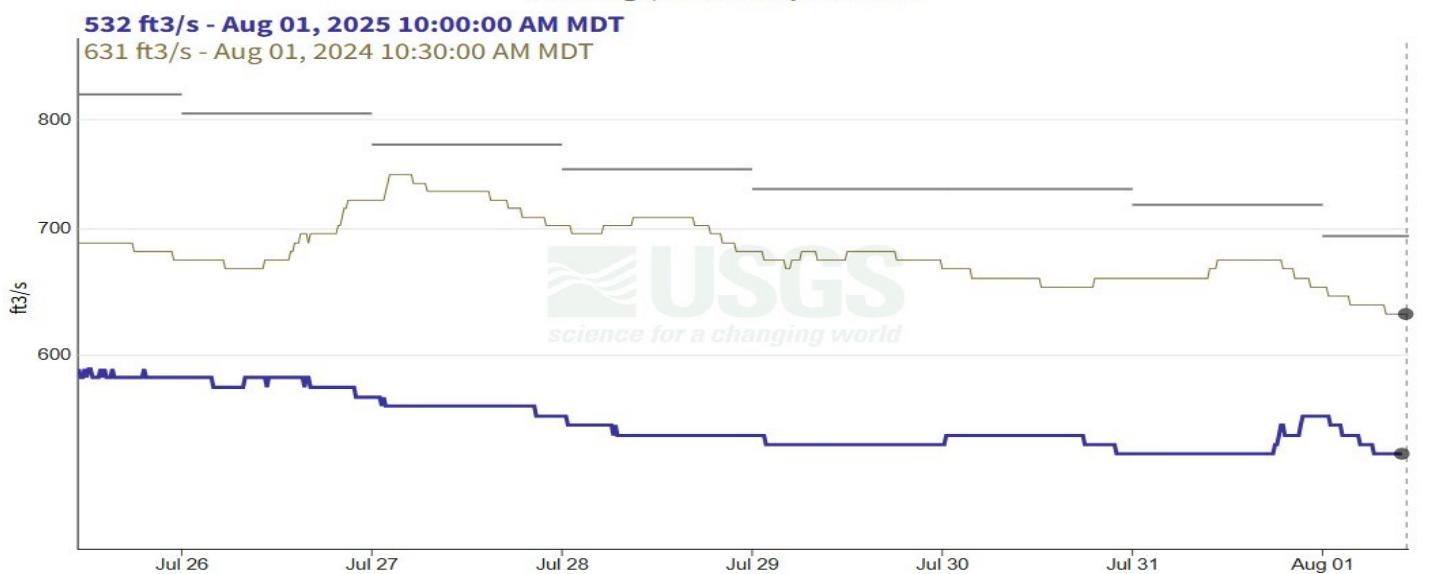
Discharge data is above normal.

Graphed data does not match statistical data.

Gallatin River near Gallatin Gateway, MT - USGS-06043500

[Subscribe to WaterAlert](#)

July 25, 2025 - August 1, 2025
Discharge, cubic feet per second



IMPORTANT Data may be [provisional](#)

[Hide legend ^](#)

Discharge, cubic feet per second
This year

Recorded

prior year

Recorded

Median 1889 - 2025

Discharge data is below normal.

Water Storage Data

Middle Creek Dam, Hyalite Reservoir—July 2025



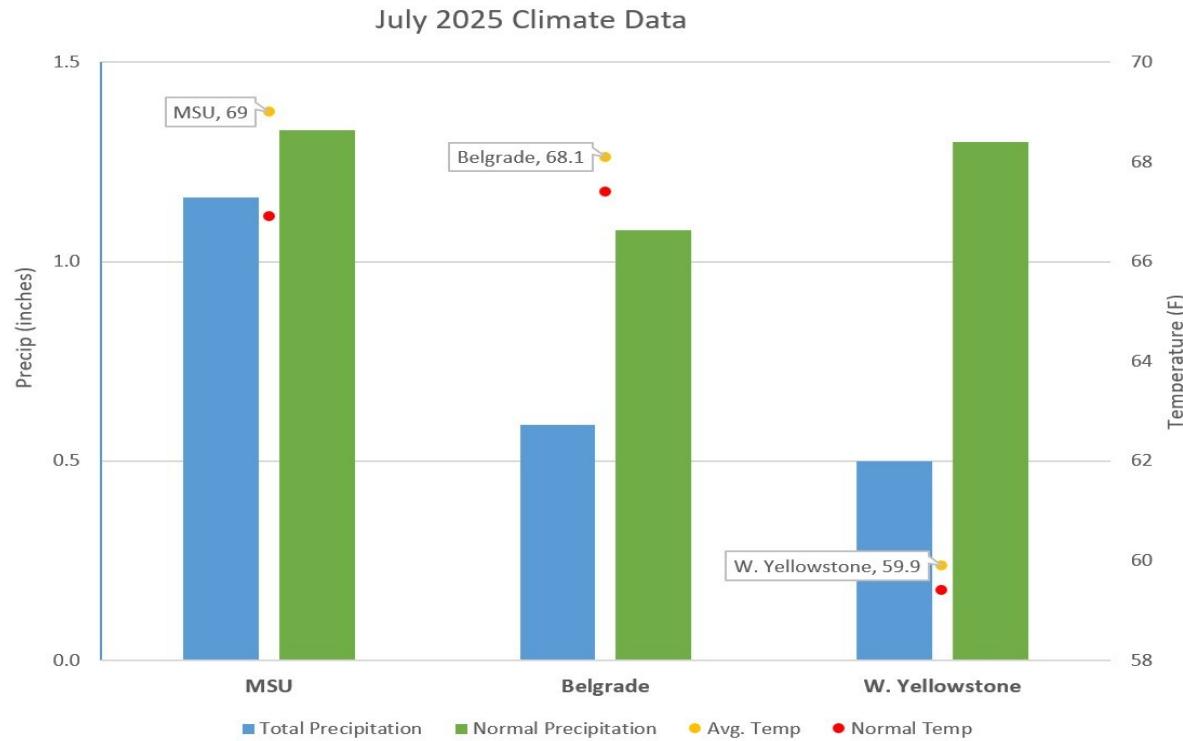
RESERVOIR SUMMARY

*Data current as of August 1st

Middle Creek Dam Reservoir elevation is 6,715.3 ft, which is 5.7 ft below the principal spillway crest (6,721 ft). The reservoir elevation has decreased by 5.6 ft since July 1st, 2025 (date of last relevant WSO report). Reservoir volume is 8,816 acre-ft; which is 1,350 acre-ft less than July 1st, 2025.

Climate Data

Gallatin County—July 2025



Above graph depicting ACIS climate data representing the entire month of July 2025.

PRECIPITATION ACCUMULATION IN GALLATIN



TEMP & PRECIP SUMMARY (Water Year (WY) = October 1st—September 30)

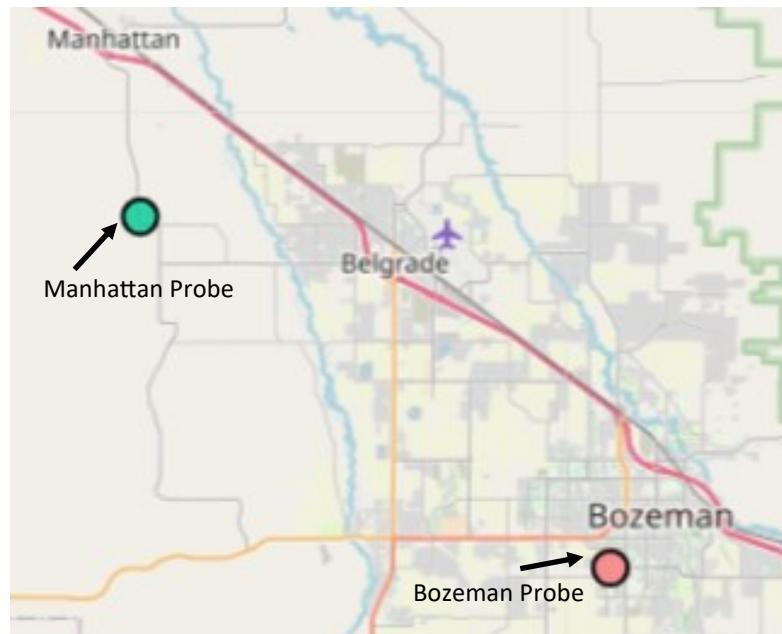
*Data is current as of August 1st

Average temperatures have increased at the MSU, Belgrade, and West Yellowstone sites since June 2025. All sites also had an average that was above the normal temperature for this time of year (ACIS graph). The MSU, Belgrade, and West Yellowstone sites also experienced below normal precipitation in July 2025.

We are currently in Water Year 2025 (black line). The total accrued precipitation for the Gallatin River Basin as of July 31st, 2025 is below average (median) at 31.7 inches (USDA graph). The total accrued precipitation for WY 2024 on July 31st, 2024 was 31.5 inches (orange line).

Soil Moisture Data

Mesonet Stations—July 2025



Manhattan Soil Probe Depth (in)	Soil Temp (°F)	Soil Water Content (%)
8" - Surface	66.02	19.30%
20" - Shallow rooting	62.24	9.00%
36" - Deep Rooting	57.73	26.10%

Bozeman Soil Probe Depth (in)	Soil Temp (°F)	Soil Water Content (%)
4" - Surface	74.75	14.45%
8" - Shallow rooting	68.63	14.85%
20" - Deep Rooting	64.67	19.55%

SOIL MOISTURE SUMMARY *Data current as of July 31st

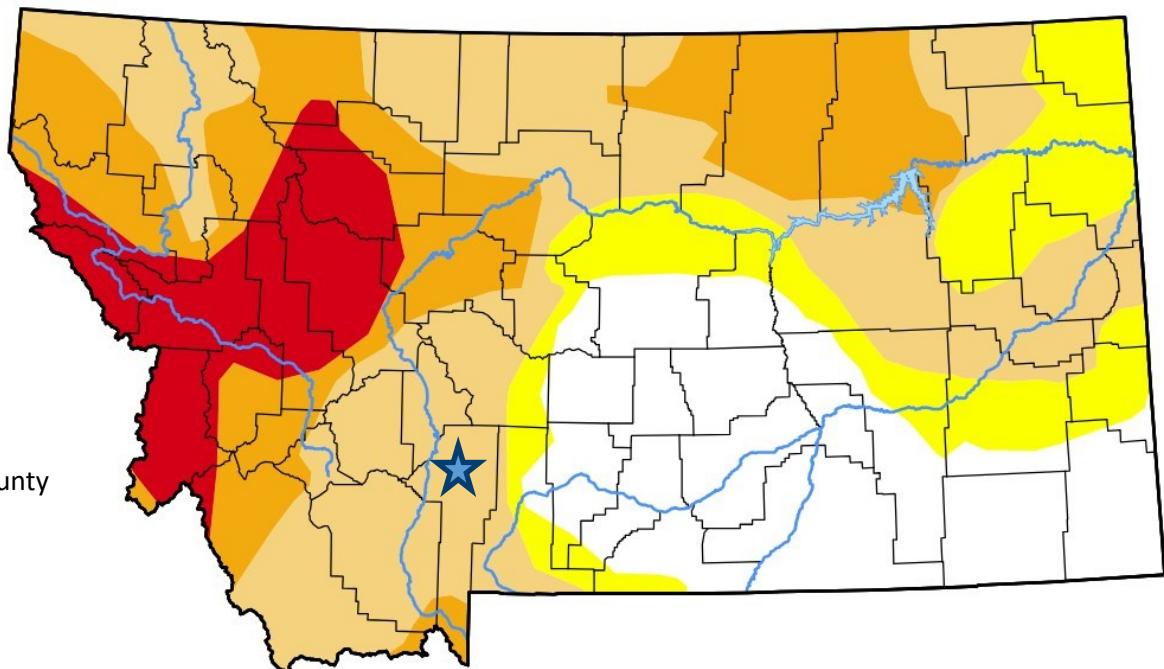
At the Manhattan and Bozeman stations, the soil temperature has increased at all depths since June 2025.

Since June 2025, the soil water content has decreased at both stations at all depths.

Drought Index Data

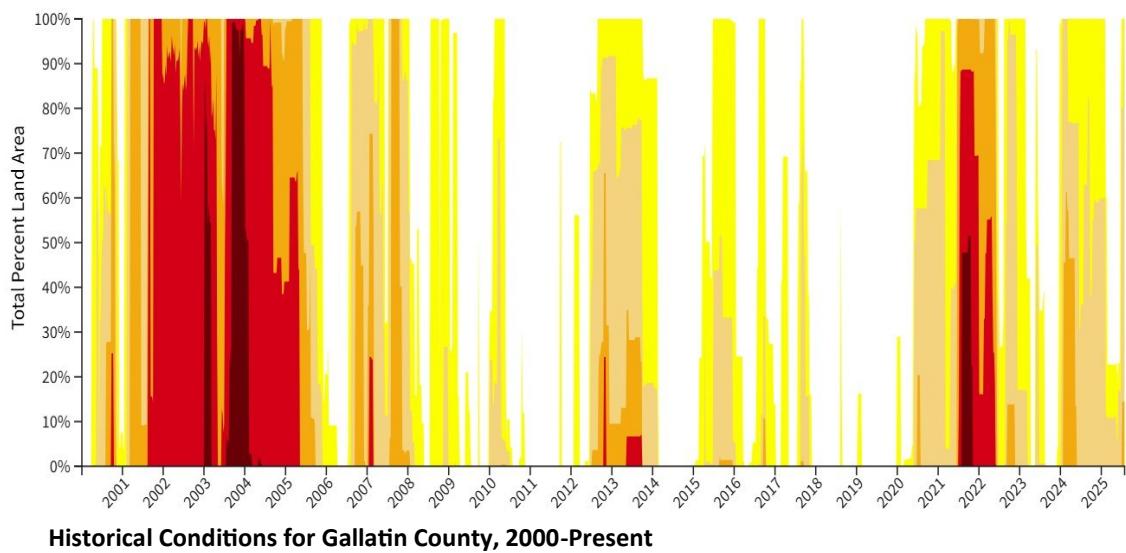
Gallatin County— July 2025

★ = Gallatin County



Intensity:

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data



DROUGHT INDEX SUMMARY

*Data is current as of July 31st

85.53% of Gallatin County is experiencing moderate drought conditions. Impacts include feeding livestock supplemental hay, crops are stressed and growth is poor. Fire restrictions may be implemented.

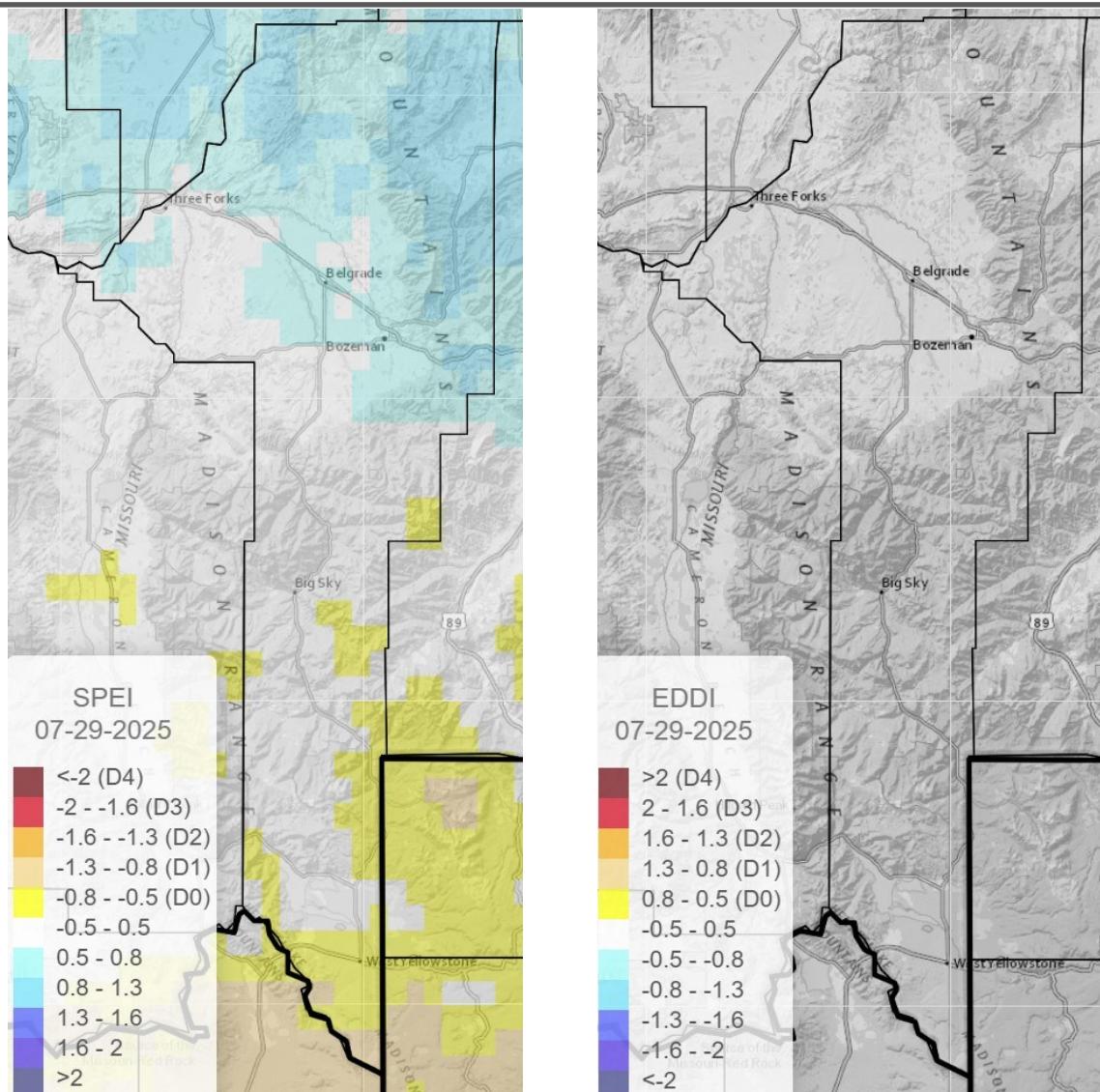
14.47% of Gallatin County is experiencing Severe Drought conditions at this time. Impacts include lower hay and crop yields, lower hay quality, non-existent subsoil moisture, high danger and fire count, poor air quality, low to dry livestock ponds and stressed water wells.

Standardized Precipitation

Evapotranspiration Index

Evaporative Demand

Drought Index



SPEI & EDDI Overview

*Data is current as of July 29th

The maps above show the current Standardized Precipitation Evapotranspiration Index (SPEI, Left) and Evaporative Demand Drought Index (EDDI, Right) for July 2025.

SPEI takes into account both precipitation and potential evapotranspiration to describe the wetness (positive blue values) or dryness (negative red values) of a time period. SPEI has been calculated for July 2025 to represent drought impacts on hydrological conditions for the past 30 days. SPEI incorporates the important effect of atmospheric demand on drought.

EDDI has examined how deviated from normal the atmospheric evaporative demand is for Gallatin County for July 2025. EDDI is an experimental drought monitoring and early warning guidance tool. EDDI can offer early warning of agricultural drought, hydrologic drought, and fire-weather risk. Positive (red) values represent dryness categories while negative (blue) values represent wetness categories.

Gallatin County Water Supply Outlook

Source Information & Helpful Links

Gallatin Conservation District:

- [Archive of Water Supply Outlook Reports](#)
- [Living by the Water](#)
- [310 Permit Forms & Info](#)

Snowpack:

- [USDA / NRCS Interactive Map](#)
- [Montana Snow Survey Homepage](#)
- [NRCS / NWCC National Water & Climate Center](#)
- [Standardized Snow Water Equivalent \(SWE from SNODAS & Hypsometer –SWE\)](#)

Streamflow:

- [USGS Real Time Streamflow](#)
- [State of Montana Gaging Stations](#)
- [DNRC Water Right Query System](#)

Water Storage:

- [DNRC Water Projects—Middle Creek Real Time Data](#)
- [Middle Creek Early Warning System](#)
- [BOR—Montana Lakes and Reservoirs](#)

Climate:

- [ACIS Database](#)
- [NRCS Montana Current Conditions](#)
- [Montana Snow Survey Homepage](#)
- [US Climate Data](#)

Soil Moisture:

- [Montana Mesonet](#)
- [DNRC Drought Status by County](#)

Drought:

- [US Drought Portal](#)
- [US Drought Monitor](#)

SPEI & EDDI:

- [Standardized Precipitation Evapotranspiration Index](#)
- [Evaporative Demand Drought Index](#)

Helpful Partner Websites:

- [Department of Natural Resources & Conservation](#)
- [Gallatin County MSU Extension Office](#)
- [Gallatin Local Water Quality District](#)
- [Gallatin River Task Force](#)
- [Gallatin Watershed Council](#)
- [Montana Fish, Wildlife, & Parks](#)
- [Montana Natural Resource Conservation Services](#)
- [Association of Gallatin Agricultural Irrigators](#)