

Introducing!

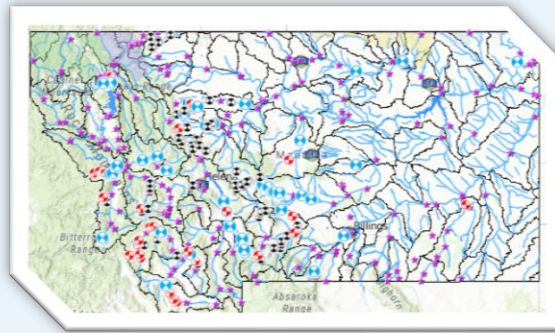
StAGE - Stream and Gage Explorer

Real-Time Stream Gage Data from Montana DNRC's Gages

The Montana Department of Natural Resources and Conservation (DNRC) Water Resources Division is rolling out a new web application, [StAGE \(Stream and Gage Explorer\)](#). The application dynamically displays surface water data collected by the DNRC Real-time Stream Gage Program and includes enhanced features for optimal user accessibility.

Background

In 2015, the stakeholder-driven State Water Plan recognized that effective water management and distribution depends on accurate real-time measurements of streamflow, snowpack and soil moisture. To improve the ability of water managers and water users to adjust to seasonal supply and demand imbalances, the State Water Plan recommended developing a network of 100 state operated, permanent, year-round stream gages to gather and distribute real-time streamflow information on smaller streams and tributaries not monitored through the USGS National Stream Gage Program. Since then, the DNRC Stream Gage program has installed and is operating 29 real-time stream gages across Montana - approximately 30% of the way toward the 100-gage recommendation.



Stream gage data is used daily across Montana in many ways, including and not limited to:

1. Water rights administration - Showing physical water available for new water use permitting.
2. Supporting water commissioners in the distribution of water associated with enforceable court decrees.
3. Supporting public awareness of Montana's water resources for recreation, tourism, irrigation, fisheries management, drought and flooding management and other uses.

StAGE hosts data from:

- Gages that the DNRC Stream Gage Program operates;
- Numerous seasonal and historical gages maintained for the public from current and past DNRC projects; and
- DNRC State Water Projects Bureau existing surface water measurement sites at state dams and canals, along with historical data from past State Water projects.

The data DNRC collects is also posted on the Montana Bureau of Mines and Geology (MBMG) [Surface Water Assessment and Monitoring Program \(SWAMP\)](#) website. The partnership with MBMG will continue and accessing DNRC gages from the SWAMP website will automatically redirect users to StAGE.

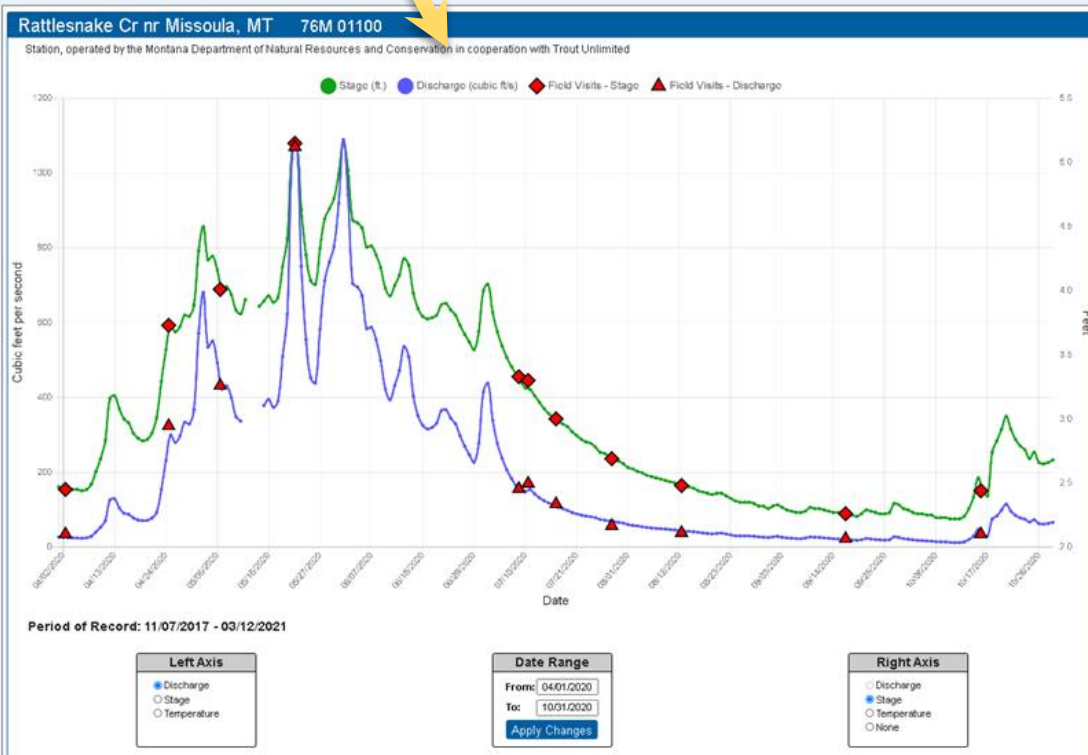
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FEATURES

- Enhanced quality assurance and control.
- Optimized filter capabilities to improve searches.
- Access to water rights information.
- Access to USGS stream gages.
- Robust data download tool.

Cooperator funding information



County	Lon/Lat	Elevation
Missoula	-113.974, 46.879	3272 ft.

Most Recent Readings		
Sensor	Value	Time
Discharge	94.20 ft ³	02/18/2021, 9:15 AM
Stage	2.41 ft	03/10/2021, 11:15 PM
Temperature	2.22 °C	03/10/2021, 11:15 PM

Period of Record: 11/07/2017 - 03/12/2021

Data Download

Date Range: From: 03/12/2020, To: 03/12/2021, Generate CSV

Site Sensors: Stage - Daily Average, Discharge - Daily Average, Water Temp - Daily Average, Discharge, Water Temp, Stage - working

Site Summary: [Shift Report 1.10](#), [2018 Station Analysis](#), [Discharge Measurements](#), [RT 1.10 11-30-2020](#)

- Station metadata
- Field measurements
 - Station analysis
 - Rating tables

- Available data includes:
- Real-time (stage, discharge, and water temperature)
 - Seasonal data (stage, discharge, water temperature)
 - Historic data (discharge)
- Ground water elevation and water quality parameters will also display if the gage collects this data.

