



Madison County Montana
Office of Emergency Management and Fire Warden
7 Placer Loop, Virginia City, MT. 59755
Situation Report



From: 0000 hrs. Monday: Through 2359 hrs. Sunday:

Great Falls National Weather Service (NWS) Extended Forecast, Outlooks:

Today	Tonight	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday	Friday Night	Saturday
Slight Chance T-storms then Showers Likely	T-storms Likely then Partly Cloudy	Slight Chance T-storms then Showers	Showers Likely then Mostly Cloudy	Slight Chance Showers then Showers	Showers then Chance T-storms	Showers	Chance Showers then Mostly Cloudy	Slight Chance Showers then Chance T-storms
High: 66 °F	Low: 46 °F	High: 66 °F	Low: 46 °F	High: 63 °F	Low: 48 °F	High: 66 °F	Low: 46 °F	High: 60 °F

Advisories, Watches, Warnings Reference NWS:

Click a location below for detailed forecast.

Last Map Update: Tue, May. 30, 2023 at 8:12:45 am MDT

[Watches, Warnings & Advisories](#)

[Hazardous Weather Outlook](#)

Zoom Out

Northern Rockies Region Map

Fire Danger Indices Reference Northern Rockies Coordination Center (NRCC):

Data Point (Northern Rockies Predictive Services)	Current	Previous
Energy Release Component (ERC) NR 09 – NR 11		
1000 Hour Fuel Moisture NR 09 – NR 11		
100 Hour Fuel Moisture NR 09 – NR 11		
Observed Relative Humidity (RH) NR 09 – NR 11 (est.)		
Burning Index (BI) NR 09 – NR 11 (tracked during active fires only)		

ERC = is a calculated output of the National Fire Danger Rating System (NFDRS), the number is considered a composite fuel moisture index as it reflects the contribution of all live and dead fuels to potential fire intensity.
 1000 HR Fuel = down timbered or dead fuels 3” – 8” diameter and the layer of forest floor 4” below surface.
 100 HR Fuel = dead fuels 1” – 3” diameter, rough estimate of average moisture content of forest floor ¾” – 4” below surface.
 10 HR Fuel = brush, small
 1 HR Fuel = grasses
 Relative Humidity (RH) = the amount of water vapor present in air expressed as a percentage of amount needed for saturation at the same temperature.
 Burning Index (BI) = directly relates to the intensity of head of the fire and is scaled to equal to the flame length (FL) in feet at the head of fire.

Regional / National Preparedness Levels (PL) Reference NRCC:

Location	PL	Previous	PL General Descriptions:
Northern Rockies			1 Personnel can suppress wildfires without requesting additional resources or mutual aid. Fire activity is at or below normal.
			2 Personnel can manage fire activity without requesting additional resources or mutual aid. Fire activity is increasing.
			3 Personnel require some significant resources from other areas. Large incidents are burning for more than two operational periods.
National			4 Personnel are starting to compete for resources from other incidents. Large, complex fire activity is increasing.
			5 Fire resources needs are not being met, with significant competition from other incidents. New incident Initial Attack capability is compromised due to large fire activity.

Snow Water Equivalencies (SWE) Reference USDA National Resource Conservation Services Montana:

Location	% of Median	Previous %
Jefferson Basin (Madison/Beaverhead Counties)		
Madison Basin (Madison/Gallatin Counties)		
Gallatin Basin (Gallatin County/Big Sky)		

Precipitation Water Year-to-Date Reference USDA Natural Resources Conservation Service Montana:

Location	Current Month Precipitation Increment (Inches)	Year To Date (Inches)
Ennis (2793) Cooperator Gauge Site – 4,950 ft. elevation		
Hebgen Dam (4038) Cooperator Gauge Site – 6,490 ft. elevation		
Twin Bridges (8430) Cooperator Gauge Site – 4,620 ft. elevation		
Lone Mountain (Big Sky) SNOTEL - 8,880 ft. as of 07/6/22		

Hydrology in Cubic Feet Per Second (CFS) Reference USGS National Water Information System:

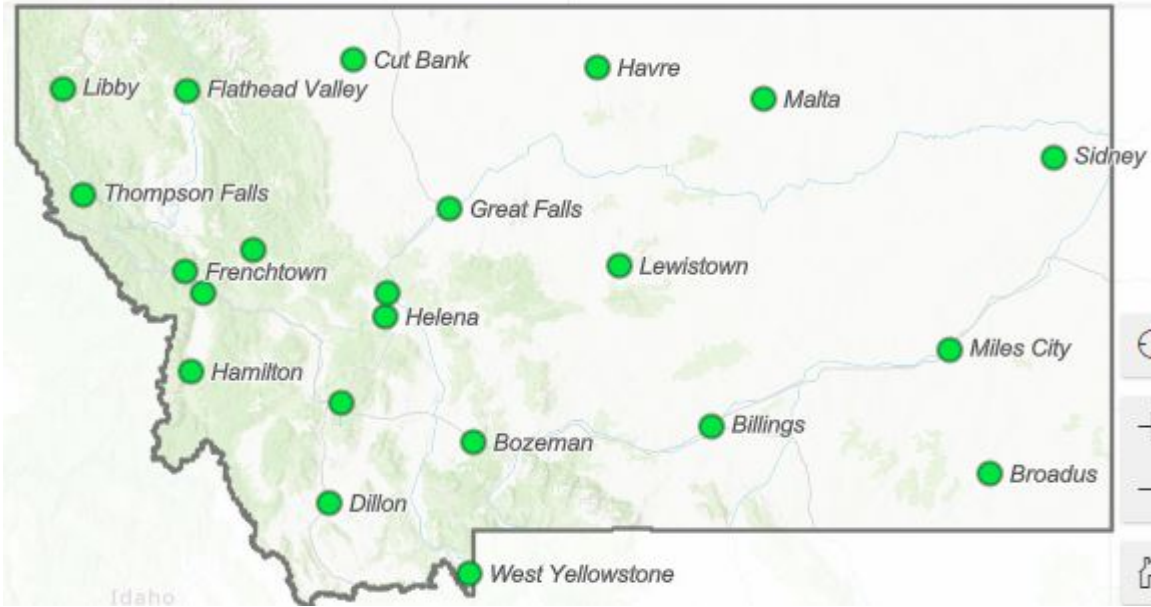
Location	Current Flow as of:	Previous Reported Flow:
Madison River – below Hebgen Lake		
Madison River – below Ennis Lake near McAllister		
Ruby River – below Ruby Reservoir near Alder		
Jefferson River – near Twin Bridges		
Gallatin River – near Gallatin Gateway		

Monthly Reservoir Storage (acre ft). Reference USDA Natural Resources Conservation Service Montana:

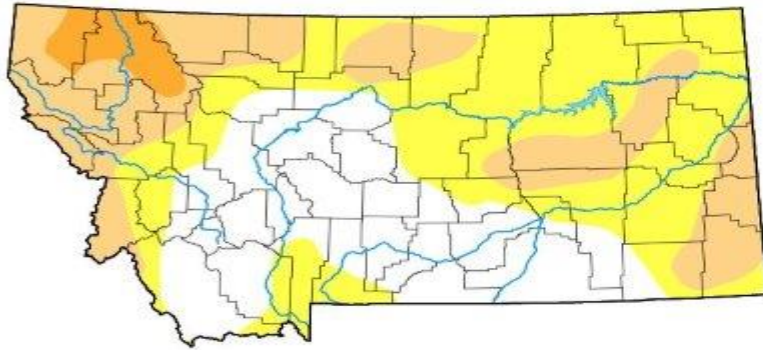
Reservoir	Current Month	Previous Month	Previous Months
Clark Canyon 06015300			
Ruby Reservoir 06020500			
Ennis Lake 06040500			
Hebgen Lake 06068000			

Note:
1 acre ft. = 325,851 gallons
1 CFS = 7.48 gallons per second

Air Quality Status Reference Montana Department of Environmental Quality (DEQ):



Current Drought Status Reference U.S. Drought Monitor:



Map released: Thurs. May 25, 2023

Data valid: May 23, 2023 at 8 a.m. EDT

Intensity

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

Authors

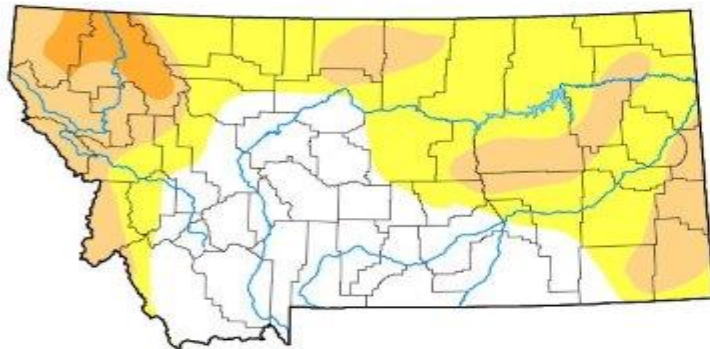
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Previous Drought Status Reported Reference U.S. Drought Monitor:



Map released: Thurs. May 18, 2023

Data valid: May 16, 2023 at 8 a.m. EDT

Intensity

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

Authors

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