

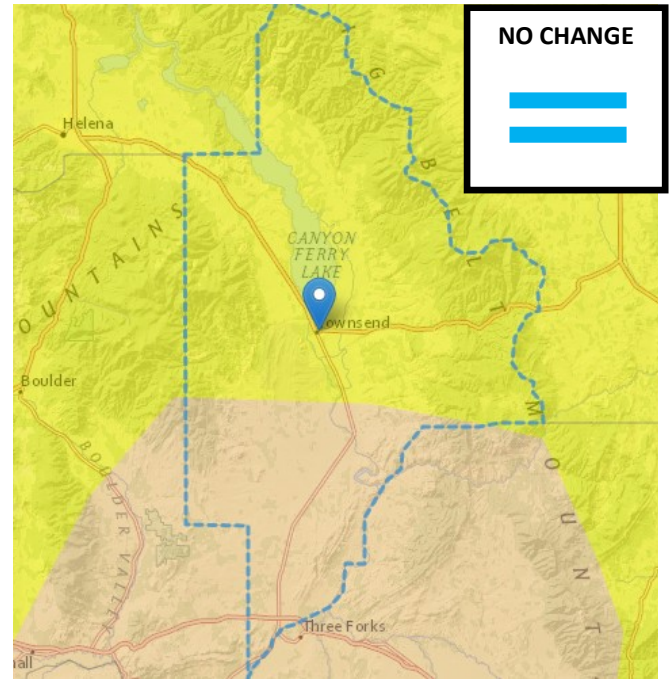
BROADWATER COUNTY WATER SUPPLY REPORT

September 2020

DROUGHT

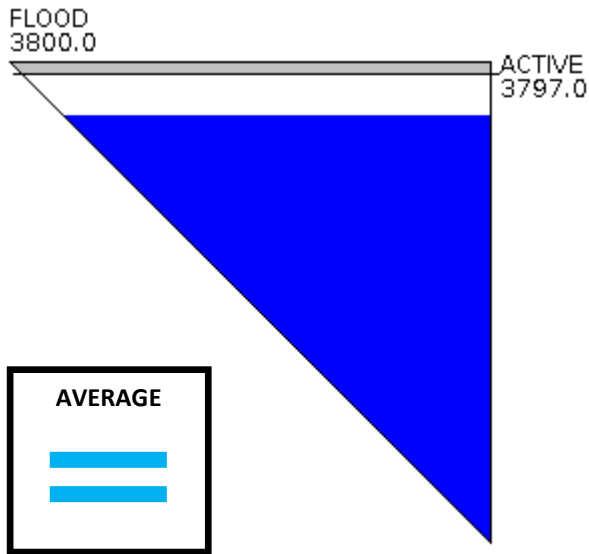
Broadwater County (Data current as of September 23)

- All of Broadwater County is currently experiencing abnormally dry to moderate drought impacts.
- The central-northern parts of the county are still experiencing abnormally dry conditions.
- The southern end of the county remains in a moderate drought.



MAP KEY & DROUGHT IMPACTS

- ABNORMALLY DRY:** Short-term dryness slowing planting, growth of crops, some lingering water deficits, pastures and crops not fully recovered
- MODERATE DROUGHT:** Some damage to crops/pastures, some water shortages developing, voluntary water-use restrictions requested
- SEVERE DROUGHT:** Crop/pasture loss likely, water shortages common, water restrictions imposed



WATER STORAGE

Broadwater County (Data current as of September 23)

- Canyon Ferry Reservoir is currently at 83% capacity which is about average for this time of year.
- Elevation has dropped 3 feet since August. 1
- Inflow has increased 659 CFS from August and is at 85% of average inflow.
- Outflow has decreased 184 CFS from August.

Date	% Capacity	Elevation (ft)	Reservoir In-flow (CFS)	Reservoir Outflow (CFS)
Sept 23 2020	83	3,787	2,456	4,034
Sept 23 2019	87	3,789	3,471	4,274

PRECIPITATION

Broadwater County, MT (Data current as of September 23)

- There has been little—no rain throughout the county this month.
- The county continues to remain dry and in risk of drought impacts.
- Broadwater County Average Precipitation: Current—0.05 | August—0.17



SEPTEMBER 2020	Radersburg—Toston	Deep Creek Valley	Confederate—Gurnett Creek Valley	Townsend	Silos	Missouri River (River Road)	Winston
Precipitation Avg (in)	0.28	0.17	0.01	0.06	0.21	0.10	0.00

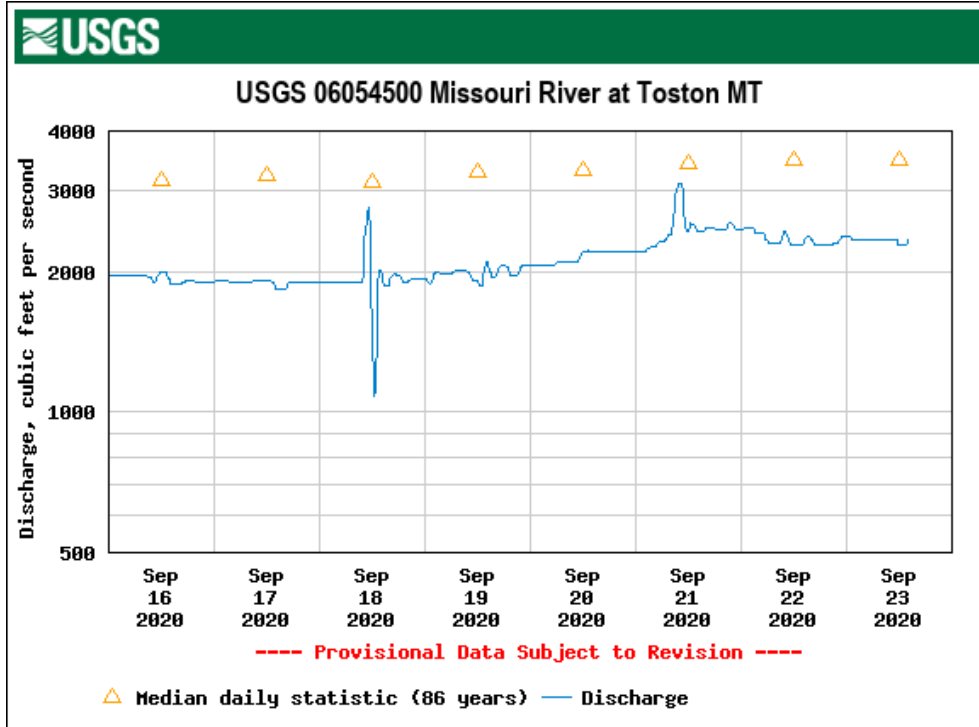
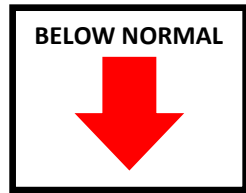
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STREAMFLOW

Broadwater County (Data current as of September 23)

- Missouri River Streamflow is currently below normal.
- Discharge has increased by 350 CFS from Aug 28.
- Although discharge has increased from last month, the streamflow remains below normal for this time of the year.



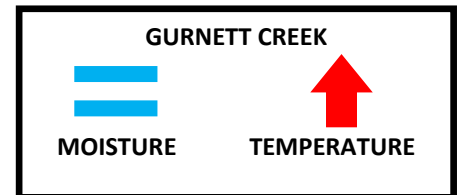
Sept 23, 12:00:00—Discharge is classified as below normal (2290 cfs | 65% normal)

SOIL MOISTURE

Broadwater County (Data current as of September 23)

- Soil temperatures at the Gurnett Creek Site have increased.
- Soil temperatures have decreased at the Crow Creek Site.
- Soil water content has remained consistent at both soil moisture sites.
- The surface sensor at the Gurnett Creek site is showing no response.

SOIL WATER CONTENT (%)	4" - Surface	8" - Shallow rooting	20" - deep rooting
Crow Creek Site	9	12	8
Gurnett Creek Site	—	12	8



SOIL TEMP (°F)	4" - Surface	8" - Shallow rooting	20" - deep rooting
Crow Creek Site	72	63	64
Gurnett Creek Site	—	72	72

