

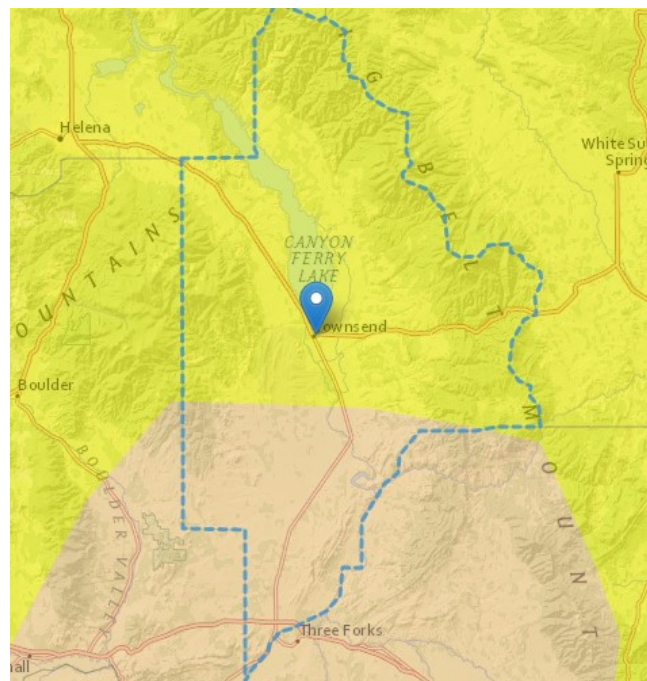
# BROADWATER WATER SUPPLY REPORT

August 2020

## DROUGHT DATA

Broadwater County (Data current as of August 25)

All of Broadwater County is currently experiencing abnormally dry to moderate drought impacts. Townsend is still experiencing abnormally dry conditions, and it has spread into the northern end of the county as well. The southern end of the county remains in a moderate drought.

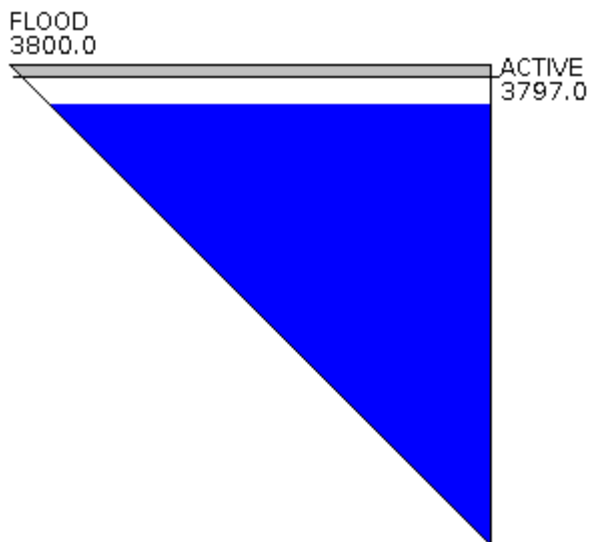


## MAP KEY & DROUGHT IMPACTS

**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 DATA

Broadwater County (Data current as of August 27)

Canyon Ferry Reservoir is currently at 88% capacity which is about average for this time of year. Elevation has dropped 5 feet since July. Inflow has decreased 815 CFS from July and is at 79% of average inflow. Outflow has decreased 542 CFS from June.

Date	% Capacity	Elevation (ft)	Reservoir In-flow (CFS)	Reservoir Outflow (CFS)
<b>Aug 27 2020</b>	<b>88</b>	<b>3,790</b>	<b>1,797</b>	<b>4,218</b>
Aug 27 2019	91	3,792	2,305	4,748

## CLIMATE DATA

Townsend, MT (Data current as of August 27)

There has been little—no rain throughout the county this month. The past few days have brought us a little of must needed moisture to help increase total precipitation. The average county precipitation is 0.15 inches which is a little over half an inch less than July.

Broadwater County Average Precipitation: Current—0.15 | July—0.66

AUGUST 2020	Radersburg—Toston	Deep Creek Valley	Confederate—Gurnett Creek Valley	Townsend	Silos	Missouri River (River Road)	Winston
<b>Precipitation Avg (in)</b>	<b>0.12</b>	<b>0.22</b>	<b>0.07</b>	<b>0.31</b>	<b>0.09</b>	<b>0.21</b>	<b>0.02</b>

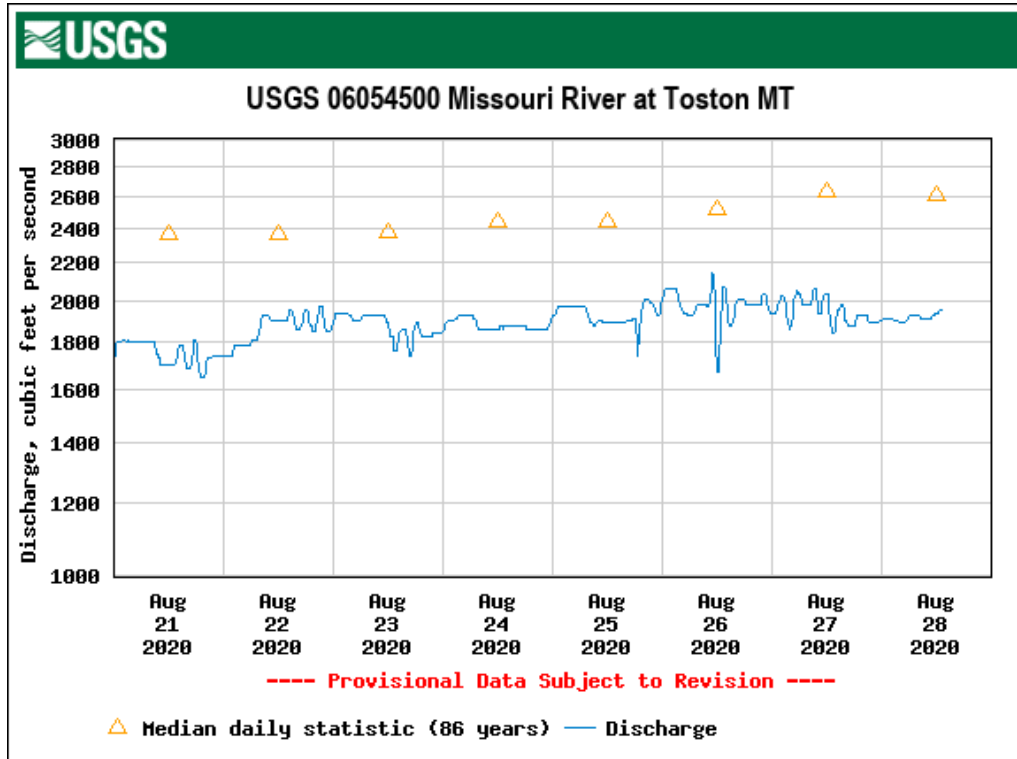
# BROADWATER COUNTY DROUGHT RESILIENCY INDEX REPORT

August 2020

## STREAMFLOW DATA

Broadwater County (Data current as of August 28)

Missouri River Streamflow is currently normal and on an upward trend. Discharge has decreased by 160 CFS from July 27th. The logger at Deep Creek read 10.65 CFS today. This has decreased by 6.68 CFS since July. Average Deep Creek discharge for the month of August is currently 9.53 CFS.



August 28, 12:00:00—Discharge is classified as normal (1,940 cfs | 74% normal)

## SOIL MOISTURE DATA

Broadwater County (Data current as of August 28)

Soil temperatures at the Gurnett Creek Site have increased. Soil temperatures have decreased at the Crow Creek Site. Soil water content has dropped about 1% at the Crow Creek Site. The soil water content decreased at the surface of the Gurnett Creek site but has increased in shallow—deep rooting at the Gurnett Creek Site.

SOIL WATER CONTENT (%)	4" - Surface	8" - Shallow rooting	20" - deep rooting
Crow Creek Site	10	9	8
Gurnett Creek Site	14	13	9

SOIL TEMP (°F)	4" - Surface	8" - Shallow rooting	20" - deep rooting
Crow Creek Site	84	72	72
Gurnett Creek Site	108	66	68