

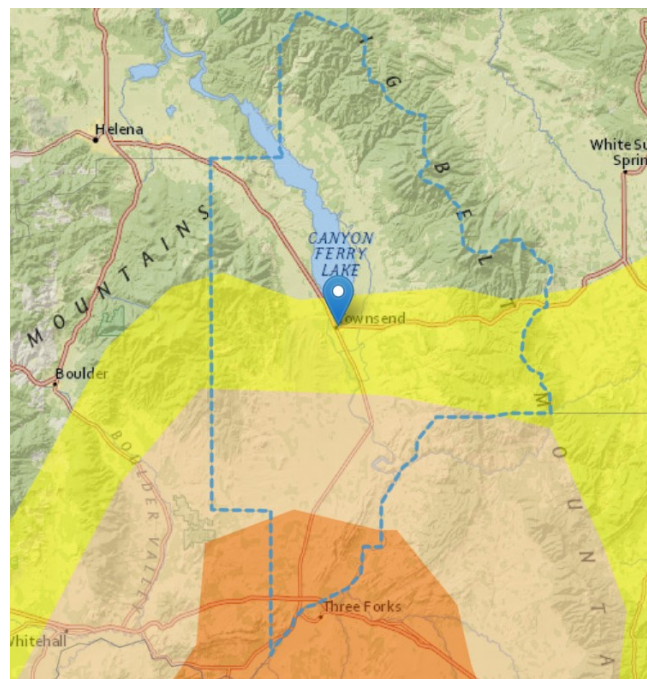
# BROADWATER COUNTY DROUGHT RESILIENCY INDEX REPORT

July 2020

## DROUGHT DATA

Broadwater County (Data current as of July 21)

With the spring rain subsiding and summer temperatures rising Broadwater County is currently experiencing abnormally dry to severe drought impacts in the southern end of Broadwater County. Townsend is experiencing abnormally dry conditions, Toston and Radersburg are in a moderate drought and those closer to three forks are exposed to a severe drought.

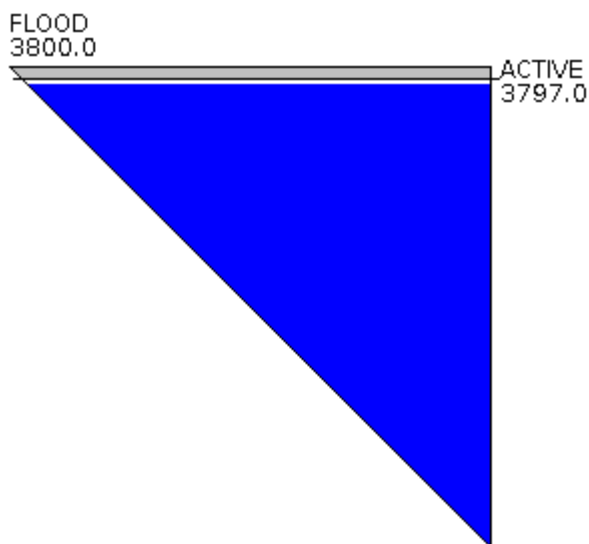


## MAP KEY & DROUGHT IMPACTS

**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 July 28)

Canyon Ferry Reservoir is currently at 96% capacity which is average for this time of year. Elevation has dropped 3 feet since June. Inflow has decreased 7,038 CFS from June and is at 95% of average inflow. Outflow has decreased 5,058 CFS from June.

Date	% Capacity	Elevation (ft)	Reservoir In-flow (CFS)	Reservoir Outflow (CFS)
July 23 2020	96	3,795	2,612	4,760
July 28 2019	99	3,796	2,780	5,296

## CLIMATE DATA

Townsend, MT (Data current as of July 29)

After a great month of precipitation in June, July came in with a lot less rain. The average county precipitation is 0.64 inches which is 1.20 inches less than June. The storm we got yesterday brought some much needed rain to a hot and dry weeks.

Broadwater County Average Precipitation: June—2.15 | Current for July—0.64

JULY 2020	Radersburg—Toston	Deep Creek Valley	Confederate—Gurnett Creek Valley	Townsend	Silos	Missouri River (River Road)	Winston
<b>Precipitation Avg (in)</b>	<b>0.54</b>	<b>0.73</b>	—	<b>0.50</b>	<b>0.36</b>	<b>0.79</b>	<b>1.54</b>
<b>Max (in)</b>	<b>1.00</b>	<b>1.14</b>	—	<b>0.18</b>	—	<b>1.30</b>	<b>1.73</b>
<b>Min (in)</b>	<b>0.01</b>	<b>0.06</b>	—	<b>0.02</b>	—	<b>0.13</b>	<b>0.01</b>

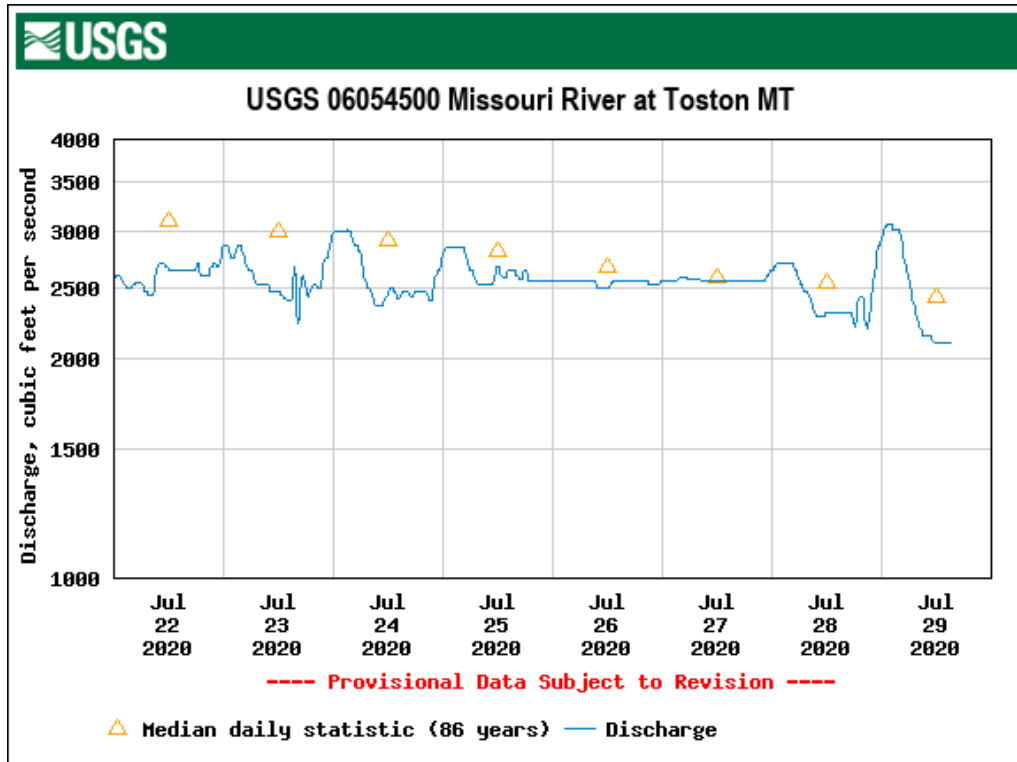
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July 2020

## STREAMFLOW DATA

Broadwater County (Data current as of July 29)

Streamflow is currently normal. Discharge has decreased by 7,040 CFS from June 25th. The logger at Deep Creek read 17.33 58.54 CFS at 14:00:00 on July 29. This has decreased by 41.21 CFS since June. Average Deep Creek discharge for the month of July is currently 33 CFS. June Average discharge was 83 CFS.



July 29, 14:00:00—Discharge is classified as normal (2,100 cfs | 74% normal)

## SOIL MOISTURE DATA

Broadwater County (Data current as of July 29)

Soil temperatures in Toston have remained consistent. In Crow Creek temps have drastically increased up to 17F. The Canyon Ferry East site has also had an increase in temperatures.

Soil Water Content increased at the MT Mesonet station at all levels. Crow creek has seen a significant drop in water content. The Canyon Ferry East site has remained constant.

SOIL WATER CONTENT (%)	4" - Surface	8" - Shallow rooting	20" - deep rooting
MT Mesonet (Toston)	35	29	26
BCD Crow Crk (Radersburg)	13	10	9
BCD CFR East (Gurnett Crk)	16	14	10

SOIL TEMP (°F)	4" - Surface	8" - Shallow rooting	20" - deep rooting
MT Mesonet (Toston)	67	64	62
BCD Crow Crk (Radersburg)	90	77	74
BCD CFR East (Gurnett Crk)	72	72	68