

BROADWATER COUNTY DROUGHT RESILIENCY INDEX REPORT

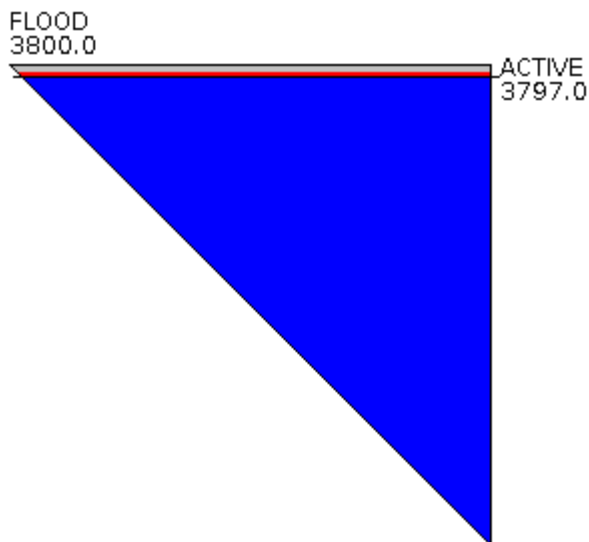
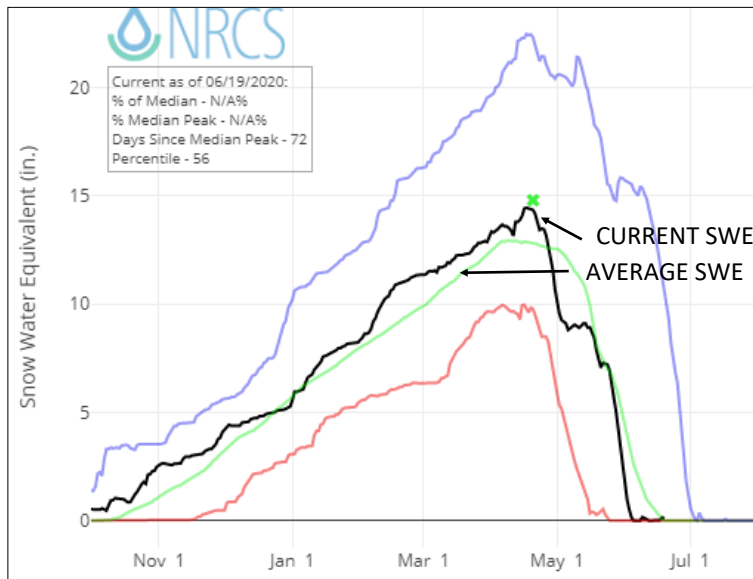
June 2020

SNOWPACK DATA

Upper Missouri Headwaters (Data current as of June 1)

May precip was well below average. Tizer saw it's 2nd lowest May on record. Snowpack peaked at near-normal conditions mid-April and overall snowmelt rate has been higher than normal.

Station	Collection Date	Snow Depth (in)	SWE (in)	SWE % Avg.	Avg. SWE (in)
Boulder	Jun 1 2020	16	3.1	34	9.2
Boulder	Jun 1 2019	32	11.0	120	
Tizer	Jun 1 2020	0	0	0	0.3
Tizer	Jun 1 2019	0	0	0	



WATER STORAGE DATA

Broadwater County (Data current as of June 25)

Canyon Ferry Reservoir is currently at 100% capacity which is average for this time of year. Elevation has risen 12.6 feet since May. Inflow has decreased 843 CFS from May and is at 96% of average inflow. Outflow has increased 5,195 CFS from April.

Date	% Capacity	Elevation (ft)	Reservoir In-flow (CFS)	Reservoir Outflow (CFS)
June 25 2020	100	3,798	9,650	9,818
June 25 2019	100	3,797	7,466	5,615

CLIMATE DATA

Townsend, MT (Data current as of June 25)

We received well needed precipitation this month. The storm that we received around the 19th of June brought most areas of the county up to or over 1 inch of rain. 12 of the 14 gauges in the county have received 1-3 inches of rain throughout the month of June.

Broadwater County Average precipitation is 1.84 inches.

JUNE 2020	Radersburg—Toston	Deep Creek Valley	Confederate—Gurnett Creek Valley	Townsend	Silos	Missouri River (River Road)	Winston
Precipitation Avg (in)	1.44	2.64	1.96	1.69	1.95	1.97	1.23
Max (in)	0.94	1.25	1.41	1.27	1.90	1.26	1.00
Min (in)	0.02	0.78	0.53	0.42	0.17	0.03	0.02

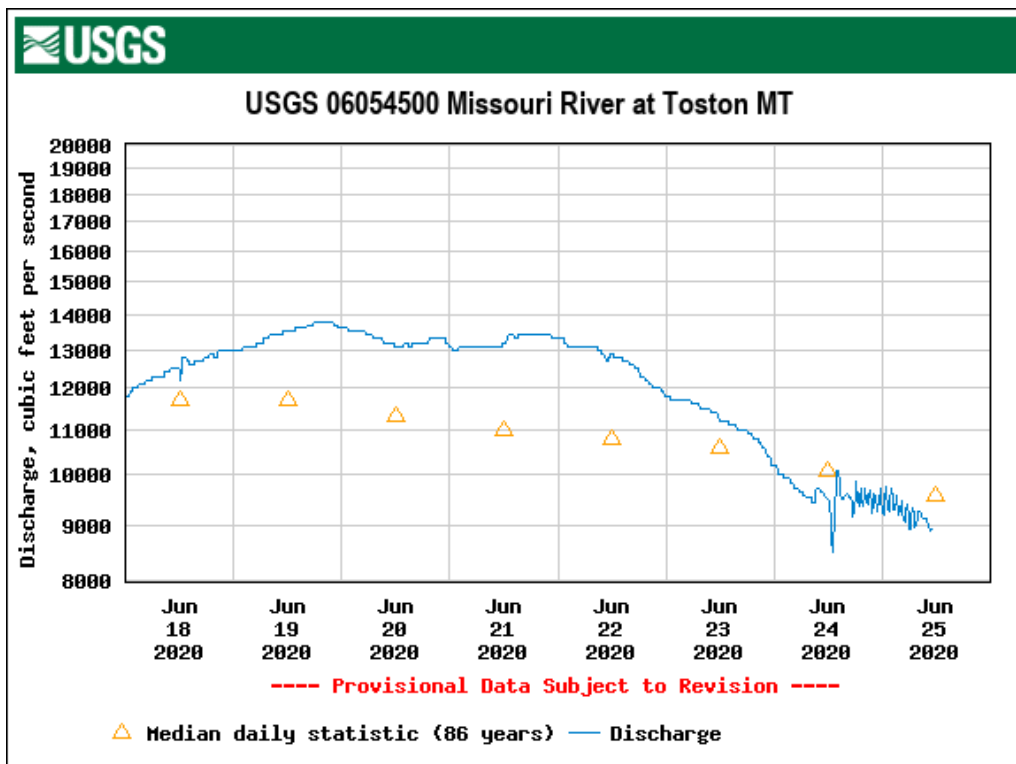
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STREAMFLOW DATA

Broadwater County (Data current as of June 25)

Streamflow is currently normal. Discharge has decreased by 2,260 CFS from May 21st. The logger at Deep Creek read 58.54 CFS at 10:00am on June 25. The average Deep Creek discharge for the month of April was 85 CFS.



June 25, 10:00am—Discharge is classified as normal (9,140 cfs | 96% normal)

SOIL MOISTURE DATA

Broadwater County (Data current as of June 25)

Soil temperatures have increased on average 5—10 degrees F from last month.

Soil Water Content increased at the MT Mesonet station at surface levels and dropped in the shallow & deep rooting levels. Soil water content has dropped at the BCD Crow Creek Site and remained constant at the BCD CFR East site.

SOIL WATER CONTENT (%)	4" - Surface	8" - Shallow rooting	20" - deep rooting
MT Mesonet (Toston)	24	25	24
BCD Crow Crk (Radersburg)	15	13	8
BCD CFR East (Gurnett Crk)	**	14	9

SOIL TEMP (°F)	4" - Surface	8" - Shallow rooting	20" - deep rooting
MT Mesonet (Toston)	66	65	62
BCD Crow Crk (Radersburg)	73	68	66
BCD CFR East (Gurnett Crk)	**	64	61

**No response from sensor