

# BROADWATER COUNTY DROUGHT RESILIENCY INDEX REPORT

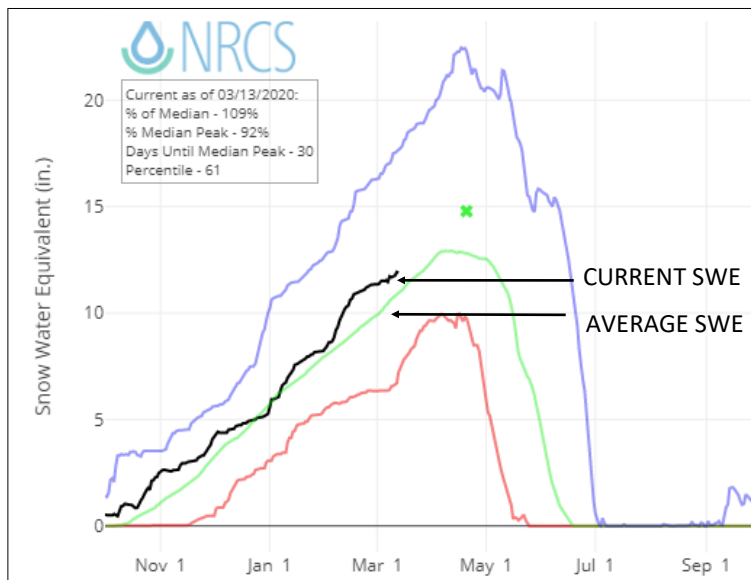
March 2020

## SNOWPACK DATA

Upper Missouri Headwaters (Data current as of March 1)

After a dry Dec & Jan Townsend still reported 248% of avg. precip for the month. Snow totals were well above normal in all ranges that feed rivers and streams ranging from 113—214 % normal. Overall, basin-wide snowpack is well above normal for this date, and increased percentage-wise from Feb 1.

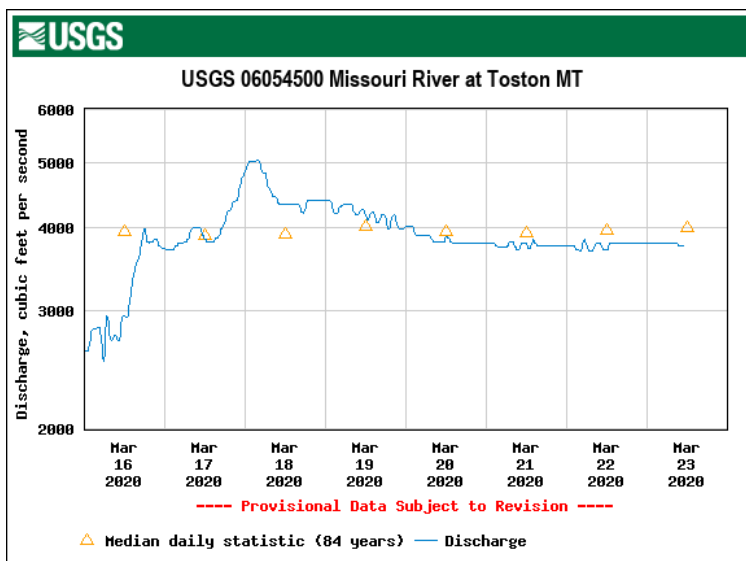
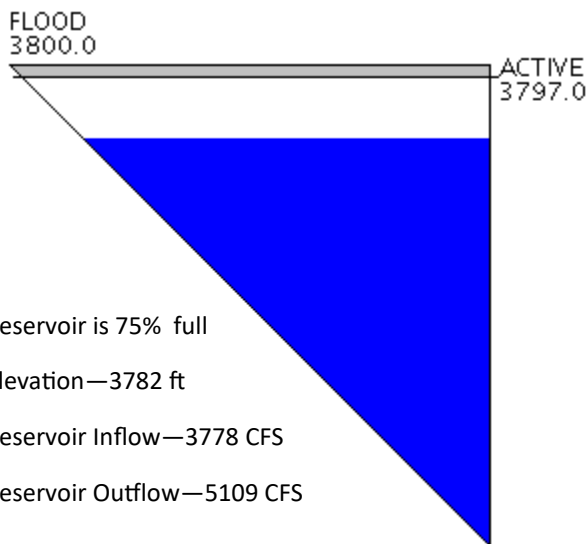
Station	Collection Date	Snow Depth (in)	SWE (in)	SWE % Avg.	Avg. SWE (in)
<b>Boulder</b>	<b>Mar 1 2020</b>	<b>61</b>	<b>17.4</b>	<b>108</b>	<b>16.07</b>
Boulder	Mar 1 2019	70	17.5	109	
<b>Tizer</b>	<b>Mar 1 2020</b>	<b>29</b>	<b>7.1</b>	<b>93</b>	<b>7.64</b>
Tizer	Mar 1 2019	47	9.1	119	



## STREAMFLOW and WATER STORAGE DATA

Broadwater County (Data current as of March 22-23)

Streamflow is currently normal throughout the county. There was an increase in flow earlier this week likely due to warmer weather. Streamflow forecasts indicate near to above-average flows for April 1—July 31.



Mar 23, 10:00—Discharge is classified as normal (3760 cfs | 94% normal)

## CLIMATE DATA

Townsend, MT (Data current as of March 23)

Temp in Townsend has been close to normal through Feb—March. Precip was above normal in Feb and is currently below normal in March.

Date	Avg Temp	Normal Temp	Sum Precip	Normal Precip
<b>Feb 2020</b>	<b>29</b>	<b>28</b>	<b>0.52</b>	<b>0.21</b>
Feb 2019	9	28	1.47	0.21
<b>Mar 2020</b>	<b>34</b>	<b>36</b>	<b>0.13</b>	<b>0.31</b>
Mar 2019	19	37	0.61	0.48

## SOIL MOISTURE DATA

Toston, MT (Data current as of March 23)

The surface and shallow rooting soil temperatures have begun to warm up slightly since Dec 2019. Soil temperatures most likely dropped in Jan and Feb and are now beginning to rise with spring.

Toston Soil Probe Depth (in)	Soil Temp (°F)	Soil Water Content (%)
2" - Surface	33°	36%
8" - Shallow rooting	33°	44%
20" - deep rooting	34°	43%