

BROADWATER COUNTY DROUGHT RESILIENCY INDEX REPORT

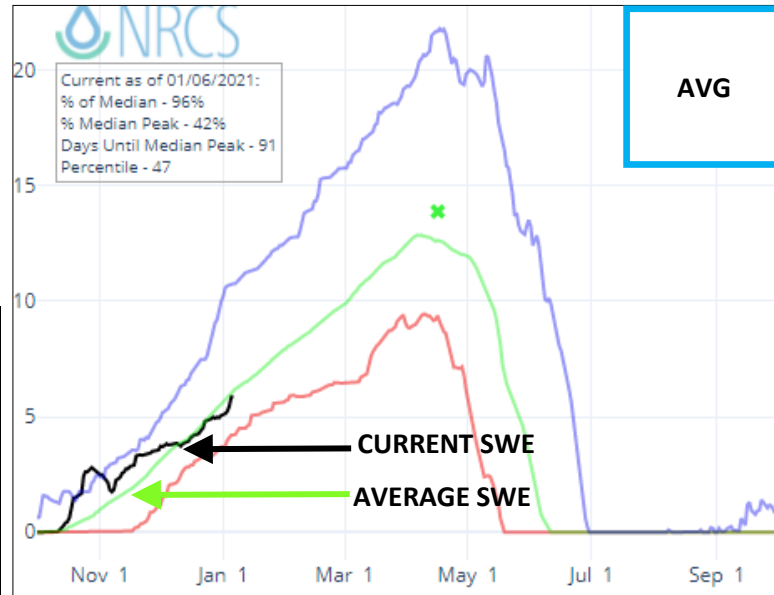
December 2020

SNOWPACK DATA

Upper Missouri Headwaters (Data current as of Jan 6)

- Upper Missouri Headwaters snow water equivalent (SWE) is currently 5.8 inches.
- Last year on this date SWE was also 5.8 inches.
- The median SWE for this date is 6.1 inches.

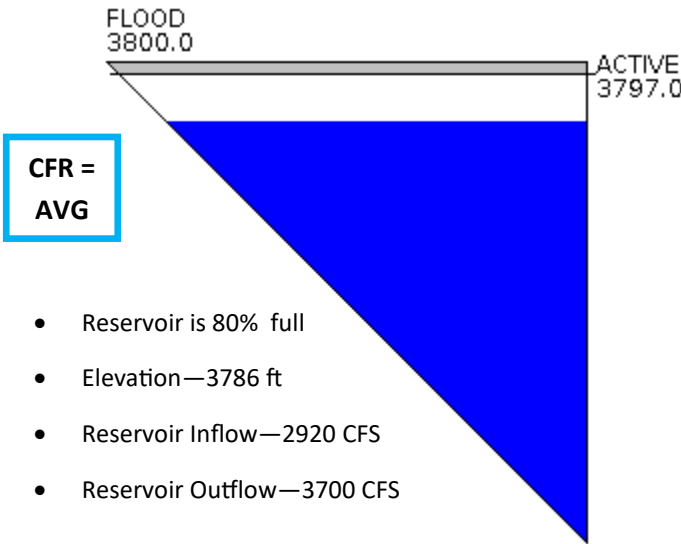
Station	Collection Date	Snow Depth (in)	SWE (in)	SWE % Avg.	Avg. SWE (in)
Boulder	Dec 2020	25	6.3	124	5.1
Boulder	Dec 2019	25	5.2	102	
Tizer	Dec 2020	7	1.7	63	2.7
Tizer	Dec 2019	15	3.4	126	



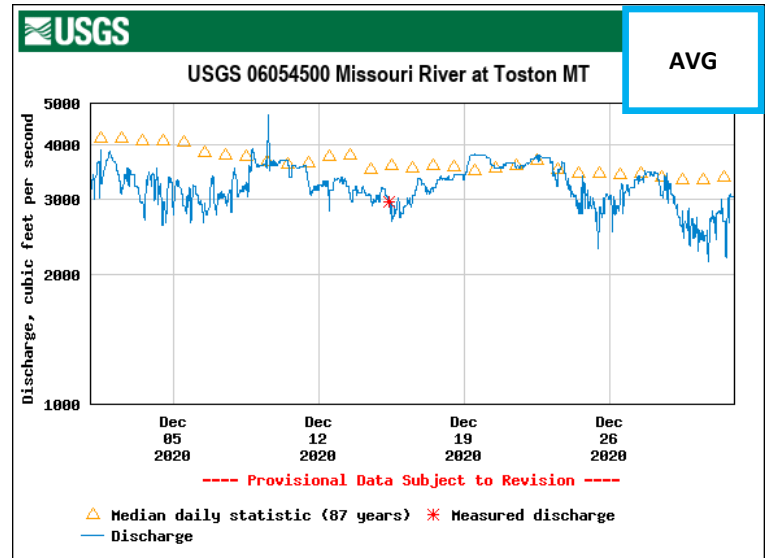
STREAMFLOW and WATER STORAGE DATA

Broadwater County (Data current as of Jan 5)

- Canyon Ferry Reservoir is showing average elevation, inflow, and outflow. Inflow is 88% of average. Since last month elevation has not changed; Inflow has decreased by 150 CFS; & Outflow has not changed.
- Streamflow is currently normal at Toston Dam. Data shows below normal to normal flows throughout December. Early January flows are beginning to increase to above normal.



- Reservoir is 80% full
- Elevation—3786 ft
- Reservoir Inflow—2920 CFS
- Reservoir Outflow—3700 CFS



JAN 6 11:00—Discharge is classified as normal (3460 cfs | 105% normal)



CLIMATE DATA

Townsend, MT (Data current as of Jan 6)

Townsend Temperature has been unusually high and precipitation has been unusually low for this time of the year.

Date	Avg Temp	Normal Temp	Sum Precip	Normal Precip
Dec 2020	30	23	0.09	0.30
Dec 2019	29	23	0.24	0.30

SOIL MOISTURE DATA

Broadwater County, MT (Data current as of Jan 6)

Since December, Soil temps and SWC in Radersburg have increased; temps and SWC in Gurnett Crk have remained consistent.

Station	Parameter	2" - surface	8" - shallow rooting	20" - deep rooting
Radersburg	Soil Temp (°F)	32	31	34
Radersburg	Soil Water Content (%)	11%	70%	43%
Gurnett Crk	Soil Temp (°F)	—	33	36
Gurnett Crk	Soil Water Content (%)	—	91%	59%