

# Fuels and Fire Behavior Advisory

## Minnesota's Forests and Grasslands

*Effective July 16 2021 Valid for 14 Days*

**Subject:** Minnesota's Fire Environment Goes from Bad to Worse to Start the Second Half of the Year.

**Discussion:** The fire environment in Minnesota, degrading since late winter of 2020, shows new signs of worsening conditions as streams and lowlands have dried up across the state. Major rivers are running at a mere trickle of their normal flows.

After a series of rainfall events passed by the state, from the end of June through the beginning of July, the overall effect was conditions holding in place over southern MN yet northern MN (mostly missed by any precip over the first 14 days of July) continues to experience extremely dry conditions.

At the time of this writing a protracted hot and dry stretch is in store for Minnesota, as a heat dome extends from the Northern Rockies north into Canada and east across the Northern Plains to the Western Great Lakes. This comes on top of already extremely dry conditions putting Northern MN in high potential for catastrophic large fires.

**Photo - Black River Near Loman MN Running almost completely dry.**



**Difference from normal conditions:** Fire danger indices from the Canadian Forest Fire Danger Rating System (CFFDRS) and the National Fire Danger Rating System (NFDRS) have been setting new record maximums already this year. The second half of July will set even higher benchmarks.

To date (July 1<sup>st</sup> – 14<sup>th</sup>) the fire count from all MN agencies is 143. The ten-year average for the entire month of July is 43. At this pace and with the outlook for the rest of the month, 300 – 400 fires are likely.

Summer fire seasons tend to be sporadic and limited in scope in MN however some of the state's largest wildfires have occurred in mid to late summer under lesser conditions in years past.

Active fires burning in the Quetico Provincial Park just across the Canadian border will draw on resources as those fires approach the US side. Early indications are that these fires have the potential to burn together and become one of the largest fires in the greater Boundary Waters area in many years. The Pagami Creek Fire of 2011 grew to a size of 92,624 acres (most of that growth occurred in a one-day wind driven event) and conditions this year could result in fires of similar magnitude

