



Fire Behavior Advisory **Fort Chipewyan Forecast Zone –** **Richardson River Wildland PP – Marguerite River PP** *Effective: June 22 - 23 1000 to 2200 hrs*

Concern:

EXTREME FFMC VALUES OF 91+, RH VALUES OF 15% & STRONG WINDS WITH GUSTS UP TO 40kph, WILL RESULT IN CRITICALLY DRY FINE FUELS & EXTREME ISI VALUES.

Discussion:

An upper ridge is generating risk of crossover conditions on Saturday in the Fort Chipewyan Forecast Zone as well as Richardson and Marguerite River Wildland Provincial Parks. A surface low over BC is generating a trough over AB on Sunday, generating strong south westerly winds sustained at 15-20kph, switching to NE on Sunday evening with gusts up to 35-40km/hr ahead of a surface trough passage.

FFMC Values Extreme (92+) and have been for the last two days. Low overnight RH values 50-60% have further exastribated fine fuel recovery overnight. DMC values are (25-32), increasing risk of hold-over potential from lightning.

Saturday, you can expect HFI 4 fire behaviour with 5m/min rates of spread in grass fuels (C1 - Spruce) as early as 10:00 with diurnally-adjusted FFMC of 92 and winds of 15kph.

Sunday, at the peak of the burning period with wind gusts of 35-40kph, you can expect HFI 6 fire behaviour and spread rates up to 50m/min (3km/h) in C1 and 50-60m/min in C3.

Concerns to Responders:

- Expect rapid transition from surface to crown fire where ladder fuels are abundant once cross-over occurs
- Expect fine fules (01b and C1 lichen) to respond quickly to small changes in both wind speed and direction
- Rear of the fire can quickly become head of the fire when north wind shift occurs
- Very rapid rates of spread (i.e., >20m/min) are expected in all conifer fuel types, with medium range spotting of 100+m likely.

Above indicies calculated based off Cambrian Automatic Wx. Station with a DMC of 28 (most hold-over potential). Expect long range spotting distances in C2/C3 up to 500m possible on Sunday.

Mitigation Measures:

- Consider indirect attack along flanks, including ground ignition opportunities upon size-up.
- Anchor and flank where deemed safe to do so
- Do not hesitate to tactically withdraw in order to re-group and re-assess as necessary.

Area of Concern:

- Fort Chipewyan Forecast Zone
- Richardson Wildland Provincial Park and Marguerrite River Wildland Provincial Park

Issued By:

Jarret Whitbread, Fire Behaviour Analyst

Date/Time Issued:

Issued June 21, 2024 @ 1600hrs