

SS014 Fire Behaviour Forecast September 10

Weather Synopsis

In the wake of another cold frontal passage the upper ridge is building back yet again and with that bringing unseasonably warm weather back to the fire area. Gusty overnight winds last night limited RH recovery overnight to 75%, though RH values will drop relatively slowly today not reaching the RH minimum of 45% until 1800. The max temp today is expected to hit 20C which is also expected to be reached around 1800. The winds around 1300 are the strongest projected for the day at W10-15G25-30. Winds will stay out of the W but calming throughout the burning day until they reach W5-10G15 by 1800. They will then transition to SW5G10 in the evening.

Venting conditions today will continue to be moderate as there is unlikely to be much of a surface inversion but again an inversion aloft will keep smoke from being able to completely vent.

Fire Behaviour General

The sprinkle of rain received in the fire area yesterday will keep the fine fuel moisture code low enough to keep fire behaviour potential somewhat suppressed. With elevated RH values through much of the burn period today it should mean most fuel types are limited to surface burns until we get closer to peak burn, at which point C-2 and C-4 may start exhibiting torching behaviour.

Safety concerns: With the isolated showers experienced yesterday there could be some areas of the fire that received less or even none of that precip, use caution in these areas as the fire behaviour may be more aggressive than forecast, ensure you communicate any aggressive fire behaviour observed.

Fire Behaviour Specific

Fort Prov Sep 09 indices (FFMC 77, DMC 55, DC 675) Sep 10 1300 Wx 17C, 55% RH, W 15G25

FFMC	DMC	DC	ISI	BUI	FWI
84	57	680	4	94	17

Crown Sep 09 indices (FFMC 79, DMC 65, DC 678) Sep 10 1300 Wx 17C, 55% RH, W 15G25

FFMC	DMC	DC	ISI	BUI	FWI
84	67	683	5	107	19

Fire Behaviour (Using Crown indices)

Fuel Type	Head Fire Intensity (kW/m)	Intensity Class	Fire Type	Rate of Spread (m/min)
C-2	6500	5	Intermittent Crown	5
C-3	800	3	Surface	1
C-4	6300	5	Intermittent Crown	5
M-2 50	2000	4	Surface	3

Fire Behaviour Analyst Matthew Coyle