

SS014 Fire Behaviour Forecast September 05

Weather Synopsis

In the wake of the cold frontal passage an upper ridge is building back into the area resulting in higher than seasonal temperatures. There is also a deepening trough to the west that is resulting in a gusty wind regime. The max temp today is expected to be 20C, the minimum RH 45%, though it is noted that this 45% takes into account smoke impact, if venting conditions improve beyond the moderate to poor venting that is expected then that could result in the RH potentially dipping to 30%.

Conditions are expected to remain consistent throughout the burning day.

Fire Behaviour General

With a return to windier conditions fire behaviour has accordingly ramped up. C-2 and C-4 are again capable of intensity class 6 behaviour, nearly at conditions to sustain full running crown fire in good fuel pockets. Areas of mixed fuel that may have been quiet for a day could show some activity again today with the potential for torching.

Safety concerns: With a return to gusty conditions be very careful when working around burned areas as the fire is very capable of fully compromising root systems in these drought conditions and trees can fall with little notice. Always assess the area you're working in for danger trees and mitigate that risk when possible.

Fire Behaviour Specific

Fort Prov Sep 04 indices (FFMC 88, DMC 49, DC 650) Sep 05 1300 Wx 18C, 45% RH, SE10-15G25-30

FFMC	DMC	DC	ISI	BUI	FWI
88	51	655	8	85	25

Crown Sep 04 indices (FFMC 74, DMC 58, DC 653) Sep 05 1300 Wx 18C, 45% RH, SE10-15G25-30

FFMC	DMC	DC	ISI	BUI	FWI
85	60	658	5	98	19

Fire Behaviour (Using Fort Prov indices)

Fuel Type	Head Fire Intensity (kW/m)	Intensity Class	Fire Type	Rate of Spread (m/min)
C-2	12300	6	Intermittent Crown	11
C-3	2500	4	Surface	3
C-4	12100	6	Intermittent Crown	11
M-2 50	3600	4	Intermittent Crown	6

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