

SS014 Fire Behaviour Forecast September 08

Weather Synopsis

It remains unseasonably warm in the fire area with the upper ridge quickly rebuilding after the cold frontal passage. The max temp today is expected to be 22C, the minimum RH 40%. The 40% RH is based on the expectation that an inversion aloft will again make venting difficult, resulting in smoke staying close to the ground. Should that smoke vent better than anticipated, areas where the smoke has cleared could see RH values in the low 30's. Winds will be fairly consistent all day, SE 5-10G15 at 1300 will transition slightly to ESE 10G15-20 by 1800. Winds will remain gusty overnight limiting RH recovery to about 75%.

Fire Behaviour General

Fire behaviour today will be very similar to yesterday, C-2 and C-4 will be capable of torching and spreading at a rate of 5 m/min. C-3 and mixed fuels will be limited to surface burns and will be slower moving. The deep drought persists though, so even under these conditions fires will be able to burn deep and suppression can be expected to take more time than is typical.

Safety concerns: Winds are not extreme but even these conditions with periodic stronger wind gusts can pose a significant falling tree hazard. Ensure you identify and mitigate or avoid any danger trees in your work area.

Fire Behaviour Specific

Fort Prov Sep 07 indices (FFMC 86, DMC 53, DC 665) Sep 07 1300 Wx 19C, 55% RH, SE 10G15

FFMC	DMC	DC	ISI	BUI	FWI
86	55	670	5	91	17

Crown Sep 07 indices (FFMC 85, DMC 62, DC 668) Sep 07 1300 Wx 19C, 55% RH, SE 10G15

FFMC	DMC	DC	ISI	BUI	FWI
86	64	673	5	103	18

Fire Behaviour (Using Fort Prov indices)

Fuel Type	Head Fire Intensity (kW/m)	Intensity Class	Fire Type	Rate of Spread (m/min)
C-2	5600	5	Intermittent Crown	5
C-3	600	3	Surface	1
C-4	5100	5	Intermittent Crown	5
M-2 50	1800	3	Surface	3

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