

SS014 Fire Behaviour Forecast September 11

Weather Synopsis

With the upper ridge continuing to build back, temperatures today are again expected to climb, to roughly 10C above seasonal. Max temp is expected to hit 25C and the minimum RH down to 35%. Winds will be very consistent throughout the burning day SSE 10G20-25.

Venting conditions remain moderate, if the smoke fully clears from an area there is a risk that the RH could drop as low as 30%, if venting is poor it may not drop below 40%.

Fire Behaviour General

Fire behaviour potential today is remaining almost exactly the same as yesterday, higher RH's have helped keep FFMC's from climbing too high which helps keep the fire behaviour potential somewhat suppressed. There has been no relief for the drought conditions though, so you can still expect the fire to be burning deep where it's still active.

Safety concerns: With the extreme drought conditions danger trees are always going to be a serious concern in burned areas as the root system can be partially or fully compromised resulting in very little energy being required to make that tree fall. Ensure you assess your working area for any danger trees and identify them for a danger tree faller to drop for you or make sure the hazard tree(s) are avoided until they can be dealt with.

Fire Behaviour Specific

Fort Prov Sep 10 indices (FFMC 74, DMC 56, DC 679) Sep 11 1300 Wx 21C, 45% RH, SSE 10G25

FFMC	DMC	DC	ISI	BUI	FWI
86	58	685	5	96	19

Crown Sep 10 indices (FFMC 66, DMC 58, DC 682) Sep 11 1300 Wx 21C, 45% RH, SSE 10G25

FFMC	DMC	DC	ISI	BUI	FWI
84	60	688	4	99	16

Fire Behaviour (Using Fort Prov indices)

Fuel Type	Head Fire Intensity (kW/m)	Intensity Class	Fire Type	Rate of Spread (m/min)
C-2	6300	5	Intermittent Crown	5
C-3	800	3	Surface	1
C-4	5900	5	Intermittent Crown	6
M-2 50	2000	4	Surface	3

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