SS014 Fire Behaviour Forecast September 06

Weather Synopsis

Yet another cold front is set to pass through the fire area today starting around 1500. Ahead of the frontal passage winds will be light and out of the south. As the front passes through winds will shift to be quite gusty out of the north. No precipitation is anticipated with the cold frontal passage.

The maximum temperature today will be 24 and minimum RH will be 33%, each of which is reached at approximately the same time that the front is arriving over the fire. Winds ahead of the front will be variable 5G10, once the front arrives winds will be NNW 10G25. Over the afternoon winds will continue to increase to NNW20G40 which will hold well into the early morning, limiting RH recovery to 75%.

Fire Behaviour General

Fire behaviour potential will increase significantly again today with the passage of another dry cold front. All fuel types analyzed in the area have the potential to display intensity class 6 fire behaviour with the crowns fully engaged in all fuel types except C-3 or pure deciduous stands.

Safety concerns: *Caution: Cold Frontal Passage* Another cold front passing through the area will again bring the possibility of sudden erratic increases in fire behaviour due to the very gusty nature of the winds. Remember dry cold frontal passages are one of the most dangerous situations in wildfire management, ensure you respect the possibility of rapid increases in fire behaviour and always prioritize safety.

Fire Behaviour Specific

Fort Prov Sep 05 indices (FFMC 90, DMC 52, DC 656) Sep 06 1300 Wx 20C, 45% RH, NNW15G40

FFMC	DMC	DC	ISI	BUI	FWI
90	54	661	13	90	36

Crown Sep 05 indices (FFMC 87, DMC 60, DC 659) Sep 06 1300 Wx 20C, 45% RH, NNW15G40

FFMC	DMC	DC	ISI	BUI	FWI
88	62	664	10	101	32

Fire Behaviour (Using Fort Prov indices)

Fuel Type	Head Fire Intensity (kW/m)	Intensity Class	Fire Type	Rate of Spread (m/min)
C-2	25200	6	Crown	21
C-3	11200	6	Intermittent Crown	11
C-4	25300	6	Crown	21
M-2 50	15900	6	Crown	16

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