

FS014 Fire Behaviour Forecast Sept 06

Weather Synopsis

Another dry cold front will be passing through the fire area today, arriving in the morning and bringing with it strong gusty northerly winds. The temperature is set to drop with the arriving cold front but will still be well above seasonal.

The max temp today will hit 22, the minimum RH will be 45% each of which will be hit by 1300 or so and be maintained through peak burn. Winds in the wake of the cold frontal passage will be NNW15-20G40 with the possibility of gusts up to 45. These winds will be sustained through peak burn but will be diminished to N15G30 by 2000. RH recovery will be limited to about 75% tonight as gusty winds persist until morning.

Fire Behaviour General

Fire behaviour potential is extreme today with all fuel types having the potential to exhibit intensity class 6 behaviour. With the gusty nature of the winds today fire behaviour will have the potential to be quite erratic as the wind gusts drive extreme bursts of fire behaviour.

Safety concerns: *Caution: Dry Cold Frontal Passage* Another dry cold front will be passing through the fire area tomorrow bringing with it the chance of sudden increases in fire behaviour. 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

Simpson Sep 05 indices (FFMC 89, DMC 108, DC 885) Sep 06 1300 Wx 21C, 45% RH, NNW 20G40

FFMC	DMC	DC	ISI	BUI	FWI
89	110	891	13	168	45

JeanMR Sep 05 indices (FFMC 89, DMC 57, DC 637) Sep 06 1300 Wx 21C, 45% RH, NNW 20G40

FFMC	DMC	DC	ISI	BUI	FWI
89	59	643	13	96	37

Fire Behaviour (Using Fort Simpson indices)

Fuel Type	Head Fire Intensity (kW/m)	Intensity Class	Fire Type	Rate of Spread (m/min)
C-2	34400	6	Crown	23
C-3	17400	6	Intermittent Crown	11
M-2 75	21000	6	Crown	17

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