

# FS014 Fire Behaviour Forecast Sept 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 23C, 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, ESE 10G15-20 at 1300 will transition slightly to E 10G20 by 1800. RH recovery will be fairly good reaching about 80%.

## Fire Behaviour General

Fire behaviour will be very similar to yesterday, though the fire behaviour potential has decreased marginally. Persistent drought conditions are driving the continued fire danger, as such fire is capable of burning very deep and suppression should be expected to take longer than would normally be expected.

**Safety concerns:** With the deep drought conditions that persist be very careful as you're working in recently burned areas as there is the potential for the development of deep ash pits in these conditions that are deeper than your boot height and can result in leg burns if accidentally stepped into.

## Fire Behaviour Specific

Simpson Sep 07 indices (FFMC 86, DMC 110, DC 894) Sep 08 1300 Wx 20C, 50% RH, ESE 10G20

FFMC	DMC	DC	ISI	BUI	FWI
87	112	899	5	171	25

JeanMR Sep 07 indices (FFMC 86, DMC 59, DC 646) Sep 08 1300 Wx 20C, 50% RH, ESE 10G20

FFMC	DMC	DC	ISI	BUI	FWI
87	61	651	5	99	21

Fire Behaviour (Using Fort Simpson indices)

Fuel Type	Head Fire Intensity (kW/m)	Intensity Class	Fire Type	Rate of Spread (m/min)
C-2	10300	6	Intermittent Crown	7
C-3	1600	3	Surface	1
M-2 75	5400	5	Intermittent Crown	5

Fire Behaviour Analyst Matthew Coyle