

SS014 Fire Behaviour Forecast September 02

Weather Synopsis

The overnight winds last night remained gusty limiting the overnight RH recovery to 55-60%. Today winds are going to remain gusty, primarily out of the S10G20 during the burning period but after peak burn will start transitioning to SE5G10 by 2200. The max temp today will be 22 and min RH will be 35% (could range from 30-40% depending on smoke impact)

The overnight inversion is expected to break by 1300 today though another inversion aloft will still make good venting difficult and things are likely to remain somewhat smoky.

Fire Behaviour General

Fire behaviour is going to be more aggressive than yesterday as it is expected to be warmer, drier and windier today. Conifer fuels are capable of displaying intensity class 6 behaviour, with full running crown fire. Mixed fuels will also be spreading notably faster and torching intermittently. The persistent deep drought conditions has converted many typically wet areas to available fuel which can burn aggressively like grass fuels when dried out.

Safety concerns: Ensure you establish safety zones and escape routes in case fire behaviour increases unexpectedly due to gusty winds or changes to the fuel type the fire is burning in.

Fire Behaviour Specific

Fort Prov Sep 01 indices (FFMC 89, DMC 44, DC 636) Sep 02 1300 Wx 18C, 40% RH, S10G20

FFMC	DMC	DC	ISI	BUI	FWI
89	46	641	7	78	22

Crown Sep 01 indices (FFMC 90, DMC 57, DC 639) Sep 02 1300 Wx 18C, 40% RH, S10G20

FFMC	DMC	DC	ISI	BUI	FWI
90	59	644	8	96	27

Fire Behaviour (Using Crown indices)

Fuel Type	Head Fire Intensity (kW/m)	Intensity Class	Fire Type	Rate of Spread (m/min)
C-2	14000	6	Crown	12
C-3	3100	4	Surface	4
C-4	14100	6	Intermittent Crown	12
M-2 50	3600	4	Intermittent Crown	5

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