

## WORKSHEET FOR PREDICTING FIRE BEHAVIOR

Fire Name \_\_\_\_\_ Date \_\_\_\_\_

(All references to sections or tables are in Field Guide)

SITE AND OTHER INPUT DATA FOR CALCULATIONS		
(1) Fuel Model, 1 - 13 (See Section 1) . . . . .	_____	_____
(2) Time, 2400 clock . . . . .	_____	_____
(3) Elevation . . . . .	FEET	FEET
(4) Aspect; E,W,S, or N . . . . .	_____	_____
(5) Temperature . . . . .	°F	°F
(6) Relative Humidity (See Section 2) . . . . .	°/o	°/o
(7) Shading from clouds, cover, etc. . . . .	°/o	°/o
(8) Reference Fuel Moisture (Table 3A or 3E) . . . . .	°/o	°/o
(9) Dead Fuel Moisture Correction (Table 3B, 3C or 3D) +	_____	+
(10) Dead Fuel Moisture (Line 8 + Line 9) . . . . .	= °/o	= °/o
(11) Live Fuel Moisture (Table 3F) . . . . .	°/o	°/o
(12) Windspeed, 20-foot . . . . .	MPH	MPH
(13) Windspeed Adjustment Factor (Table 4A) . . . . .	X _____	X _____
(14) Midflame Windspeed (Line 12 X Line 13) . . . . .	= MPH	= MPH
(15) Wind Factor (Table 4B) . . . . .	_____	_____
(16) Slope to nearest 5 percent (See Section 5) . . . . .	°/o	°/o
(17) Slope Factor (Table 5B) . . . . .	_____	_____
(18) Wind Factor (Repeat Line 15) . . . . .	+ _____	+ _____
(19) Effective Windspeed Factor (Line 17 + Line 18) . . . . .	= _____	= _____
(20) Constant from Formula . . . . .	+ 1	+ 1
(21) Total Correction Factor . . . . .	= _____	= _____
FIRE BEHAVIOR CALCULATIONS AND OUTPUT VALUES		
(22) Rate of Spread for No Wind or Slope (Table 6A) . . . . .	CH/HR	CH/HR
(23) Total Correction Factor (Repeat Line 21) . . . . .	X _____	X _____
(24) Adjusted Rate of Spread (Line 22 X Line 23) . . . . .	= CH/HR	= CH/HR
(25) Fireline Intensity for No Wind or Slope (Table 6B) . . . . .	BTU/F/S	BTU/F/S
(26) Total Correction Factor (Repeat Line 21) . . . . .	X _____	X _____
(27) Adjusted Fireline Intensity (Line 25 X Line 26) . . . . .	= BTU/F/S	= BTU/F/S
(28) Flame Length (Table 6C) . . . . .	FEET	FEET
(29) Probability of Ignition (Table 6D) . . . . .	°/o	°/o
(30) Adjusted Rate of Spread (Repeat Line 24) . . . . .	CH/HR	CH/HR
(31) Projection Time . . . . .	X HOURS	X HOURS
(32) Forward Spread Distance (Line 30 X Line 31) . . . . .	= CHAINS	= CHAINS
(33) Effective Windspeed Factor (Repeat Line 19) . . . . .	_____	_____
(34) Effective Windspeed (Table 7A) . . . . .	MPH	MPH
(35) Area for Point Source Fire (Table 7B) . . . . .	ACRES	ACRES
(36) Perimeter for Point Source Fire (Table 7C) . . . . .	CHAINS	CHAINS