## Fine Fuel Moisture (FFM) and Probability of Ignition (PIG)

PIG helps assess hourly and day-to-day changes in expected fire behavior. Estimate FFM first.

- 1. With table A (page 45), estimate reference fuel moisture.
- Choose Table B, C, or D from following pages for estimating FM correction based on the month of the year. With selected table, determine FM correction based on local factors (shading as more or less than 50%, aspect and slope, time of day, and elevation difference).
- 3. Add Ref. Fuel Moisture (1) and Correction Factor (2).
- 4. Estimate PIG from temp and FFM.

				_	Shading (Percent): Unshaded < 50% FINE DEAD FUEL MOISTURE PER	g (Per	rcent)	EL M	g (Percent): Unshaded < 5 DEAD FUEL MOISTURE	URE S	PER	0% PERCENT				
Dry Bulb Temp (F)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
110+	100	100	80	70	60	60	05	40	40	30	30	20	20	20	20	10
100-109	100	90	80	70	60	60	50	40	40	30	30	20	20	20	10	10
90-99	100	90	80	70	60	50	40	40	30	30	30	20	20	20	10	10
80-89	100	90	80	70	60	50	40	40	30	30	20	20	20	10	10	10
70-79	100	80	70	60	60	50	40	40	30	30	20	20	20	10	10	10
60-69	90	80	70	60	50	50	40	30	30	20	20	20	20	10	10	10
50-59	90	80	70	60	50	40	40	30	30	20	20	20	10	10	10	10
40-49	90	80	70	60	50	40	40	30	30	20	20	20	10	10	10	10
30-39	80	70	60	50	50	40	30	30	20	20	20	10	10	10	10	10
				70	Shading (Percent): Shaded > 50%	ng (P	ercen	t): SI	naded	> 50	%					
					FINE	DEA	DFU	EL M	DEAD FUEL MOISTURE	URE	PER	PERCENT	,			
Dry Bulb Temp (F)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
110+	100	90	80	70	60	50	50	40	40	30	30	20	20	20	10	10
100-109	100	90	80	70	60	50	50	40	30	30	30	20	20	20	10	10
90-99	100	90	80	70	60	50	40	40	30	30	20	20	20	10	10	10
80-89	100	80	70	60	60	50	40	40	30	30	20	20	20	10	10	10
70-79	90	80	70	60	50	50	40	30	30	30	20	20	20	10	10	10
60-69	90	80	70	60	50	40	40	30	30	20	20	20	10	10	10	10
50-59	90	80	70	60	50	40	40	30	30	20	20	20	10	10	10	10
40-49	90	80	60	50	50	40	30	30	30	20	20	20	10	10	10	10
30-39	80	80	60	50	50	40	30	30	20	20	20	10	10	10	10	10

<del>+</del> 60	109	0-89	0-69	0-49	0-29	Dry Bulb emp
_	1	_	1	1	1	0 to 4
_	1	1	2	2	2	5 to 9
2	2	2	2	2	2	10 to 14
2	2	2	3	3	3	15 to 19
ω	3	အ	4	4	4	20 to 24
4	4	4	5	5	5	25 to 29
4	4	5	5	5	5	30 to 34
5	5	5	6	6	6	35 to 39
6	6	6	6	7	7	40 to 44
7	7	7	7	7	8	40 to 44 eative Humidity 55 to 59
7	7	7	7	7	8	50 to 54
œ	8	8	8	8	8	55 to 59
8	8	8	8	9	6	_
8	8	8	9	9	9	65 to 69
9	9	9	9	10	10	70 to 74
10	10	10	10	10	11	75 to 79
10	10	10	11	11	12	80 to 84
<b>1</b>	11	11	12	12	12	85 to 89
12	12	12	12	13	13	90 to 94
12	12	12	12	13	13	95 to 99
12	13	13	13	13	14	100

## For Nighttime Estimates: Use Table A to obtain a

Reference Fuel Moisture

Value.

Add 5 to the value that you get in Table A. This is your nighttime fuel moisture.

Table B. 1-hr Fuel Moisture Corrections-May-June-July

٤	s	ш	z		:	٤	•	n	r	п	7	2	Ası	pect	
A	All	All	All	Sha	31%	0-30	31%	0-30	31%	0-30	31%	0-30	Sid	ре	
4	4	4	4	Shaded	4	2	2	2	_	2	3	2	В	80	
Q,	4*	4*	Q,	50	G	သ	ω	ယ	2	2	4	သ	_	0800-0959	
6	5	5	5	% or	6	4	ω	ယ	2	ယ	4	4	A	959	Ç,
3	ၗ	3	သ	mor	2	_	_	_	0	_	_	1	В	10	shac
4	4	4	4	sha	ယ	_	_	_	0	_	2	-	_	1000-1159	led -
5	5	5	5	ding	4	2	2	_	_	_	2	_	>	159	Less
3	ယ	3	သ	of su	_	0	0	0	•	0	_	0	B	12	Unshaded – Less than 50% shading of surface fuels
ယ	ယ	3	ယ	ırfac	_	0	_	0	0	0	_	0	_	1200-1359	1 50%
4	4	4	4	e fue	2	_	_	_	_	_	2	_	A	359	6 sha
з	ယ	3	ယ	ls du	0	0	0	0	_	0	_	0	В	14	ding
ယ	ယ	4	သ	e to	0	0	_	0	_	0	_	0	_	1400-1559	of s
4	4	4	4	cano	_	_	_	_	2	_	2	_	A	559	urfac
3	သ	з	သ	py ar	0	0	_	_	2	_	_	_	В	16	e fue
4	4	4	4	ıd/or	0	_	_	_	ω	_	2	_	_	1600-1759	S
5	5	5	5	- 50 % or more shading of surface fuels due to canopy and/or cloud cover	_	_	2	_	4	2	2	_	Þ	759	
4	4	4	4	d cov	_	2	2	2	4	ယ	သ	2	В	18	1
4	5	5	5	/er	2	ယ	ω	ယ	O1	4	4	3	_	1800-1959	
5	5	6	5		2	ယ	ω	w	6	4	4	4	D	959	

A = Area of concern is 1,000° to 2,000° above the weather site location B = Area of concern is 1,000° to 2,000° below the weather site location

C =Area of concern is within 1,000° of the weather site location

Table C. 1-hr Fuel Moisture Corrections-Feb-Mar-Apr and Aug-Sep-Oct Unshaded – Less than 50% shading of surface fuels

ect	Asp	2	2	п	г	0	٥	٤	•		z	ш	S	٤
ре	Slo	0-30	31%	0-30	31%	0-30	31%	0-30	31%	Sha	All	A	All	₽
80	B	ယ	З	s	s	3	3	ω	4	Shaded	4	4	4	4
0800-0959	_	4	4	4	ω	4	4	4	5	- 50 % or	5*	5	5*	Ωį
)59	A	5	5	5	4	5	5	5	6	% or	6	6	6	6
10	8	_	3	_	_	_	1	_	s	more	4	s	3	4
1000-1159	_	2	S	2	_	2	2	2	4	e sha	5	4	4	Ç1
159	Þ	ω	4	ω	_	2	2	ω	5	ding	5	5	5	6
12	₩	_	2	_	_	_	0	_	_	of su	3	ω	3	ω
1200-1359	_	_	ω	_	_	_	_	_	2	ırfacı	4	4	4	4
359	A	2	4	_	_	_	1	_	သ	e fue	5	5	5	Ç,
14	8	_	2	1	_	1	0	_	_	ls du	3	ω	3	ယ
1400-1559	_	_	3	_	2	_	_	_	_	e to	4	4	4	4
559	A	2	4	2	З	1	1	_	_	cano	5	5	5	5
16	В	_	3	1	3	1	1	_	_	py an	4	4	3	ယ
1600-1759	_	2	З	2	4	2	2	2	_	ıd/or	5	5	4	4
59	Α	ω	4	4	5	3	2	ω	_	clou	5	6	5	5
18	8	ယ	S	s	4	3	з	s	သ	more shading of surface fuels due to canopy and/or cloud cover	4	4	4	4
1800-1959	_	4	4	4	5	4	4	4	သ	er	5	5	5	5
959	>	5	5	5	6	5	5	5	4		6	6	6	6

Table D. 1-hr Fuel Moisture Corrections-Nov-Dec-Jan

## 0800-0959 Unshaded - Less than 50% shading of surface fuels

\$	S	Е	z		:	٤	•	n	-	п	1	2	As	pect
¥	All	All	A	Sha	31%	0-30	31%	0-30	31%	0-30	31%	0-30	SIG	ope
4	4	4	4	Shaded -	4	4	4	4	4	4	4	4	В	7
٠,	5*	5*	5	- 50	5	5	5	5	5	5	5	5	_	(+ night)
6	6	6	6	% or	6	6	6	6	6	6	6	6	>	<b>.</b>
4	4	4	4	more	4	သ	2	ယ	2	သ	4	3	8	10
Ç1	5	5	5	sha	G	4	ယ	4	3	4	5	4	_	1000-1159
6	6	6	6	shading	6	5	ယ	5	4	4	6	5	>	59
4	4	4	4	of surface	ω	2	_	2	2	2	4	2	8	12
Ç	5	5	5	ırfac	4	ယ	_	ယ	2	ယ	5	ယ	_	1200-1359
6	6	6	6	e fuels	4	ယ	2	ယ	3	ယ	6	4	A	959
4	4	4	4	ls due	2	2	_	2	3	2	4	2	B	14
Ç1	5	5	5	8	2	ယ	_	2	4	ယ	5	သ	_	1400-1559
6	6	6	6	cano	ω	ယ	2	ယ	4	ယ	6	4	>	959
4	4	4	4	canopy and/or	2	အ	2	ယ	4	ယ	4	သ	8	16
5	5	5	5	id/or	ω	4	ယ	4	5	4	5	4	_	1600-1759
6	6	6	6	cloud	4	4	ယ	4	6	5	6	5	>	9
4	4	4	4	d cover	4	4	4	4	4	4	4	4	B	18
5	5	5	5	er	S1	5	5	5	5	5	5	5	_	1800-1959
6	6	6	6		6	6	6	6	6	6	6	6	>	959