Fine Dead Fuel Moisture and Probability of Ignition Tables

1. Using Table A, determine Reference Fuel Moisture (RFM) % from intersection of temperature and relative humidity. Record this RFM percentage.
2. Select Table B, C, or D to adjust RFM for local conditions by finding current month in table title.
   - » Are the fine fuels more than 50% shaded by canopies and clouds? If yes, use bottom (shaded) portion of table. If no, use top (exposed) portion of table.
   - » Determine the appropriate row based on aspect and slope. Determine the appropriate column based on time of day and elevation of area of concern when compared to the wx site elevation.
   - » Obtain the Dead Fuel Moisture Content Correction (%) from the intersection of row and column.
3. Add the resulting Dead Fuel Moisture Content Correction (%) to the Reference Fuel Moisture (%) to obtain FDFM percent.
4. Using table E, determine Probability of Ignition (PIG) % from intersection of FDFM and your correct Shaded/Unshaded temperature reading.

Probability of Ignition Tables from National Wildfire Coordinating Group. "Incident Response Pocket Guide," January 2014

Table A

Table A
REFERENCE FUEL MOISTURE
Day Time 0800 - 1959

Dry Bulb Temperature (F)	Relative Humidity (Percent)																				
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	36-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100
10 - 29	1	2	2	3	4	5	5	6	7	8	8	8	9	9	10	11	12	12	13	13	14
30 - 49	1	2	2	3	4	5	5	6	7	7	7	8	9	9	10	10	11	12	13	13	13
50 - 69	1	2	2	3	4	5	5	6	6	7	7	8	8	9	9	10	11	12	12	12	13
70 - 89	1	1	2	2	3	4	5	5	6	7	7	8	8	8	9	10	10	11	12	12	13
90 - 109	1	1	2	2	3	4	4	5	6	7	7	8	8	8	9	10	10	11	12	12	13
109+	1	1	2	2	3	4	4	5	6	7	7	8	8	8	9	10	10	11	12	12	12

Go to Tables B, C, or D for Corrections

Table B

Table B
DEAD FUEL MOISTURE CONTENT CORRECTIONS
MAY JUNE JULY

		0800 >			1000 >			1200 >			1400 >			1600 >			1800 >		
	% Slope	B	L	A	B	L	A	B	L	A	B	L	A	B	L	A	B	L	A
Exposed - Less than 50% Shading of Surface Fuels																			
N	0 - 30%	2	3	4	1	1	1	0	0	1	0	0	1	1	1	1	2	3	4
	31% +	3	4	4	1	2	2	1	1	2	1	1	2	1	2	2	3	4	4
E	0 - 30%	2	2	3	1	1	1	0	0	1	0	0	1	1	1	2	3	4	4
	31% +	1	2	2	0	0	1	0	0	1	1	1	2	2	3	4	4	5	6
S	0 - 30%	2	3	3	1	1	1	0	0	1	0	0	1	1	1	1	2	3	3
	31% +	2	3	3	1	1	2	0	1	1	0	1	1	1	1	2	2	3	3
W	0 - 30%	2	3	4	1	1	2	0	0	1	0	0	1	0	1	1	2	3	3
	31% +	4	5	6	2	3	4	1	1	2	0	0	1	0	0	1	1	2	2
Shaded - Greater than or Equal to 50% Shading of Surface Fuels																			
N	0% +	4	5	5	3	4	5	3	3	4	3	3	4	3	4	5	4	5	5
E	0% +	4	4	5	3	4	5	3	3	4	3	4	4	3	4	5	4	5	6
S	0% +	4	4	5	3	4	5	3	3	4	3	3	4	3	4	5	4	5	5
W	0% +	4	5	6	3	4	5	3	3	4	3	3	4	3	4	5	4	4	5

B = Area of concern 1000'-2000' below wx site location
L = Area of concern within +/- 1000' of wx site location
A = Area of concern 1000'-2000' above wx site location

Table C

Table C
DEAD FUEL MOISTURE CONTENT CORRECTIONS
FEBRUARY MARCH APRIL/AUGUST SEPTEMBER OCTOBER

		0800 >			1000 >			1200 >			1400 >			1600 >			1800 >		
	% Slope	B	L	A	B	L	A	B	L	A	B	L	A	B	L	A	B	L	A
Exposed - Less than 50% Shading of Surface Fuels																			
N	0 - 30%	3	4	5	1	2	3	1	1	2	1	1	2	1	2	3	3	4	5
	31% +	3	4	5	3	3	4	2	3	4	2	3	4	3	3	4	3	4	5
E	0 - 30%	3	4	5	1	2	3	1	1	1	1	1	2	1	2	3	3	4	5
	31% +	3	3	4	1	1	1	1	1	1	1	2	3	3	4	5	4	5	6
S	0 - 30%	3	4	5	1	2	2	1	1	1	1	1	1	1	2	3	3	4	5
	31% +	3	4	5	1	2	2	0	1	1	0	1	1	1	2	2	3	4	5
W	0 - 30%	3	4	5	1	2	3	1	1	1	1	1	1	1	2	3	3	4	5
	31% +	4	5	6	3	4	5	1	2	3	1	1	1	1	1	1	3	3	4
Shaded - Greater than or Equal to 50% Shading of Surface Fuels																			
N	0% +	4	5	6	4	5	5	3	4	5	3	4	5	4	5	5	4	5	6
E	0% +	4	5	6	3	4	5	3	4	5	3	4	5	4	5	6	4	5	6
S	0% +	4	5	6	3	4	5	3	4	5	3	4	5	3	4	5	4	5	6
W	0% +	4	5	6	4	5	6	3	4	5	3	4	5	3	4	5	4	5	6

B = Area of concern 1000'-2000' below wx site location
L = Area of concern within +/- 1000' of wx site location
A = Area of concern 1000'-2000' above wx site location

Table D

Table D
DEAD FUEL MOISTURE CONTENT CORRECTIONS
November December January

		0800 >			1000 >			1200 >			1400 >			1600 >			1800 >		
	% Slope	B	L	A	B	L	A	B	L	A	B	L	A	B	L	A	B	L	A
Exposed - Less than 50% Shading of Surface Fuels																			
N	0 - 30%	4	5	6	3	4	5	2	3	4	2	3	4	3	4	5	4	5	6
	31% +	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6
E	0 - 30%	4	5	6	3	4	4	2	3	3	2	3	3	3	4	5	4	5	6
	31% +	4	5	6	2	3	4	2	2	3	3	4	4	4	5	6	4	5	6
S	0 - 30%	4	5	6	3	4	5	2	3	3	2	2	3	3	4	4	4	5	6
	31% +	4	5	6	2	3	3	1	1	2	1	1	2	2	3	3	4	5	6
W	0 - 30%	4	5	6	3	4	5	2	3	3	2	3	3	3	4	4	4	5	6
	31% +	4	5	6	4	5	6	3	4	4	2	2	3	2	3	4	4	5	6
Shaded - Greater than or Equal to 50% Shading of Surface Fuels																			
N	0% +	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6
E	0% +	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6
S	0% +	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6
W	0% +	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6

B = Area of concern 1000'-2000' below wx site location
L = Area of concern within +/- 1000' of wx site location
A = Area of concern 1000'-2000' above wx site location

Table E

Table E
Probability of Ignition Table

Shading (Percent)	Dry Bulb Temp (F)	FINE DEAD FUEL MOISTURE PERCENT															
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Unshaded <50%	110+	100	100	80	70	60	60	50	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
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Shaded >50%	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

329922_1_16.07.21