

FUEL MODEL 3 HEAD FIRE

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RATE OF SPREAD, CH/H (V4.4)

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1_HR I MIDFLAME WIND, MI/H
 MOIS I
 4.0 6.0 8.0 10.0 12.0 14.0
 (%)

5.0	97.	162.	234.	312.	395.	482.
6.0	89.	148.	214.	286.	361.	441.
7.0	82.	137.	198.	264.	335.	409.
8.0	77.	129.	186.	248.	313.	383.
9.0	73.	122.	176.	234.	296.	362.
10.0	70.	116.	167.	223.	282.	345.
11.0	67.	111.	161.	214.	271.	331.

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FIRELINE INTENSITY, BTU/FT/S (V4.4)

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1_HR I MIDFLAME WIND, MI/H
 MOIS I
 4.0 6.0 8.0 10.0 12.0 14.0
 (%)

5.0	1398.	2329.	3363.	4481.	5672.	6926.
6.0	1212.	2019.	2916.	3886.	4919.	6006.
7.0	1076.	1792.	2588.	3449.	4365.	5330.
8.0	975.	1625.	2346.	3126.	3957.	4832.
9.0	901.	1500.	2167.	2887.	3655.	4463.
10.0	844.	1407.	2031.	2707.	3426.	4184.
11.0	800.	1333.	1925.	2565.	3247.	3965.

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FLAME LENGTH, FT (V4.4)

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1_HR I MIDFLAME WIND, MI/H
 MOIS I
 4.0 6.0 8.0 10.0 12.0 14.0
 (%)

5.0	12.6	15.9	18.9	21.5	24.0	26.3
6.0	11.8	14.9	17.7	20.2	22.5	24.6
7.0	11.2	14.1	16.7	19.1	21.3	23.3
8.0	10.7	13.5	16.0	18.2	20.3	22.3
9.0	10.3	13.0	15.4	17.6	19.6	21.5
10.0	10.0	12.6	15.0	17.1	19.0	20.9
11.0	9.7	12.3	14.6	16.6	18.6	20.3

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RATE OF SPREAD, CH/H (V4.4)

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1 HR I MIDFLAME WIND, MI/H
 MOIS I
 I 4.0 6.0 8.0 10.0 12.0 14.0
 (%)

5.0	7.	7.	7.	7.	6.	6.
6.0	6.	6.	6.	6.	6.	6.
7.0	6.	6.	6.	6.	5.	5.
8.0	6.	6.	5.	5.	5.	5.
9.0	5.	5.	5.	5.	5.	5.
10.0	5.	5.	5.	5.	5.	4.
11.0	5.	5.	5.	5.	4.	4.

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FIRELINE INTENSITY, BTU/FT/S (V4.4)

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1 HR I MIDFLAME WIND, MI/H
 MOIS I
 I 4.0 6.0 8.0 10.0 12.0 14.0
 (%)

5.0	100.	101.	99.	95.	92.	88.
6.0	87.	88.	86.	83.	79.	76.
7.0	77.	78.	76.	73.	70.	67.
8.0	70.	71.	69.	67.	64.	61.
9.0	65.	65.	64.	61.	59.	56.
10.0	61.	61.	60.	58.	55.	53.
11.0	57.	58.	57.	55.	52.	50.

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FLAME LENGTH, FT (V4.4)

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1 HR I MIDFLAME WIND, MI/H
 MOIS I
 I 4.0 6.0 8.0 10.0 12.0 14.0
 (%)

5.0	3.7	3.8	3.7	3.7	3.6	3.5
6.0	3.5	3.5	3.5	3.4	3.4	3.3
7.0	3.3	3.3	3.3	3.2	3.2	3.1
8.0	3.2	3.2	3.2	3.1	3.0	3.0
9.0	3.1	3.1	3.0	3.0	2.9	2.9
10.0	3.0	3.0	3.0	2.9	2.8	2.8
11.0	2.9	2.9	2.9	2.8	2.8	2.7

RATE OF SPREAD, CH/H

(V4.4)

1_HR I MIDFLAME WIND, MI/H
MOIS I
I 4.0 6.0 8.0 10.0 12.0 14.0
(%)

5.0	13.	14.	13.	13.	13.	12.
6.0	12.	12.	12.	12.	11.	11.
7.0	11.	11.	11.	11.	11.	10.
8.0	10.	11.	11.	10.	10.	10.
9.0	10.	10.	10.	10.	9.	9.
10.0	9.	10.	10.	9.	9.	9.
11.0	9.	9.	9.	9.	9.	8.

FIRELINE INTENSITY, BTU/FT/S

(V4.4)

1_HR I MIDFLAME WIND, MI/H
MOIS I
I 4.0 6.0 8.0 10.0 12.0 14.0
(%)

5.0	187.	194.	192.	187.	180.	173.
6.0	162.	169.	167.	162.	156.	150.
7.0	144.	150.	148.	144.	139.	133.
8.0	131.	136.	134.	130.	126.	121.
9.0	121.	125.	124.	120.	116.	112.
10.0	113.	117.	116.	113.	109.	105.
11.0						

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RATE OF SPREAD, CH/H (V4.4)

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1 HR I	MIDFLAME WIND, MI/H					
MOIS I						
I	4.0	6.0	8.0	10.0	12.0	14.0
(%) I						
5.0 I	64.	143.	255.	297.*	297.*	297.*
6.0 I	61.	135.	242.	270.*	270.*	270.*
7.0 I	57.	127.	228.	242.*	242.*	242.*
8.0 I	52.	117.	199.*	199.*	199.*	199.*
9.0 I	45.	101.	136.*	136.*	136.*	136.*
10.0 I	35.	65.*	65.*	65.*	65.*	65.*
11.0 I	13.*	13.*	13.*	13.*	13.*	13.*

* MEANS YOU HIT THE WIND LIMIT.

FUEL MODEL 1 HEAD FIRE

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FIRELINE INTENSITY, BTU/FT/S (V4.4)

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1 HR I	MIDFLAME WIND, MI/H					
MOIS I						
I	4.0	6.0	8.0	10.0	12.0	14.0
(%) I						
5.0 I	109.	242.	433.	504.*	504.*	504.*
6.0 I	101.	224.	402.	449.*	449.*	449.*
7.0 I	93.	206.	369.	392.*	392.*	392.*
8.0 I	81.	179.	305.*	305.*	305.*	305.*
9.0 I	62.	138.	186.*	186.*	186.*	186.*
10.0 I	37.	70.*	70.*	70.*	70.*	70.*
11.0 I	9.*	9.*	9.*	9.*	9.*	9.*

* MEANS YOU HIT THE WIND LIMIT.

FUEL MODEL 1 HEAD FIRE

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FLAME LENGTH, FT (V4.4)

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1 HR I	MIDFLAME WIND, MI/H					
MOIS I						
I	4.0	6.0	8.0	10.0	12.0	14.0
(%) I						
5.0 I	3.9	5.6	7.3	7.9*	7.9*	7.9*
6.0 I	3.8	5.4	7.1	7.5*	7.5*	7.5*
7.0 I	3.6	5.2	6.8	7.0*	7.0*	7.0*
8.0 I	3.4	4.9	6.3*	6.3*	6.3*	6.3*
9.0 I	3.0	4.3	5.0*	5.0*	5.0*	5.0*
10.0 I	2.4	3.2*	3.2*	3.2*	3.2*	3.2*
11.0 I	1.2*	1.2*	1.2*	1.2*	1.2*	1.2*

* MEANS YOU HIT THE WIND LIMIT.

FUEL MODEL 1 HEAD FIRE

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RATE OF SPREAD, CH/H (V4.4)

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1 HR I MIDFLAME WIND, MI/H
 MOIS I
 I 4.0 6.0 8.0 10.0 12.0 14.0
 (%) I

5.0 I	5.	6.	8.	8.	8.	8.
6.0 I	4.	6.	7.	7.	7.	7.
7.0 I	4.	6.	7.	7.	7.	7.
8.0 I	4.	5.	6.	6.	6.	6.
9.0 I	3.	4.	5.	5.	5.	5.
10.0 I	2.	3.	3.	3.	3.	3.
11.0 I	1.	1.	1.	1.	1.	1.

FUEL MODEL 1 BACKING FIRE

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FIRELINE INTENSITY, BTU/FT/S (V4.4)

=====

1 HR I MIDFLAME WIND, MI/H
 MOIS I
 I 4.0 6.0 8.0 10.0 12.0 14.0
 (%) I

5.0 I	8.	11.	13.	13.	13.	13.
6.0 I	7.	10.	12.	12.	12.	12.
7.0 I	7.	9.	11.	11.	11.	11.
8.0 I	6.	8.	9.	9.	9.	9.
9.0 I	4.	6.	7.	7.	7.	7.
10.0 I	3.	3.	3.	3.	3.	3.
11.0 I	1.	1.	1.	1.	1.	1.

FUEL MODEL 1 BACKING FIRE

=====

FLAME LENGTH, FT (V4.4)

=====

1 HR I MIDFLAME WIND, MI/H
 MOIS I
 I 4.0 6.0 8.0 10.0 12.0 14.0
 (%) I

5.0 I	1.2	1.3	1.5	1.5	1.5	1.5
6.0 I	1.1	1.3	1.4	1.4	1.4	1.4
7.0 I	1.1	1.2	1.3	1.4	1.4	1.4
8.0 I	1.0	1.2	1.3	1.3	1.3	1.3
9.0 I	.9	1.0	1.1	1.1	1.1	1.1
10.0 I	.7	.8	.8	.8	.8	.8
11.0 I	.4	.4	.4	.4	.4	.4

FUEL MODEL 1 BACKING FIRE

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RATE OF SPREAD, CH/H (V4.4)

=====

1 HR I MIDFLAME WIND, MI/H
 MOIS I

I 4.0 6.0 8.0 10.0 12.0 14.0

(%) I

5.0 I	9.	12.	15.	15.	15.	15.
6.0 I	8.	11.	14.	14.	14.	14.
7.0 I	8.	11.	13.	13.	13.	13.
8.0 I	7.	10.	12.	12.	12.	12.
9.0 I	6.	8.	9.	9.	9.	9.
10.0 I	5.	6.	6.	6.	6.	6.
11.0 I	2.	2.	2.	2.	2.	2.

FUEL MODEL 1 FLANK FIRE

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FIRELINE INTENSITY, BTU/FT/S (V4.4)

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1 HR I MIDFLAME WIND, MI/H

MOIS I

I 4.0 6.0 8.0 10.0 12.0 14.0

(%) I

5.0 I	15.	20.	25.	26.	26.	26.
6.0 I	14.	19.	23.	24.	24.	24.
7.0 I	12.	17.	21.	22.	22.	22.
8.0 I	11.	15.	18.	18.	18.	18.
9.0 I	8.	11.	13.	13.	13.	13.
10.0 I	5.	7.	7.	7.	7.	7.
11.0 I	1.	1.	1.	1.	1.	1.

FUEL MODEL 1 FLANK FIRE

=====

FLAME LENGTH, FT (V4.4)

=====

1 HR I MIDFLAME WIND, MI/H

MOIS I

I 4.0 6.0 8.0 10.0 12.0 14.0

(%) I

5.0 I	1.5	1.8	2.0	2.0	2.0	2.0
6.0 I	1.5	1.7	1.9	1.9	1.9	1.9
7.0 I	1.4	1.7	1.8	1.8	1.8	1.8
8.0 I	1.3	1.6	1.7	1.7	1.7	1.7
9.0 I	1.2	1.4	1.5	1.5	1.5	1.5
10.0 I	.9	1.1	1.1	1.1	1.1	1.1
11.0 I	.5	.5	.5	.5	.5	.5

FUEL MODEL 1 FLANK FIRE