

Fuel moisture tables for dead, overwintered grass in Alaska. Version: 2014

T	RH-->																										
	3	6	9	12	15	18	21	24	27	30	33	36	39	42	3	6	9	12	15	18	21	24	27	30	33	36	39
30	4.8	93	6.0	91	6.8	89	7.5	87	8.1	85	8.6	83	9.1	81	9.6	79	10.0	77	10.5	75	10.9	72	11.3	70	11.8	67	12.2
32	4.7	93	5.9	91	6.7	89	7.4	87	8.0	85	8.6	83	9.1	81	9.6	79	10.0	77	10.5	74	10.9	72	11.4	70	11.8	67	12.3
34	4.6	93	5.8	91	6.6	89	7.4	87	8.0	85	8.5	83	9.1	81	9.6	79	10.0	77	10.5	74	11.0	72	11.4	69	11.9	67	12.3
36	4.4	94	5.7	91	6.6	89	7.3	87	7.9	85	8.5	83	9.0	81	9.5	79	10.0	77	10.5	74	11.0	72	11.4	69	11.9	67	12.4
38	4.3	94	5.6	92	6.5	89	7.2	87	7.9	85	8.4	83	9.0	81	9.5	79	10.0	77	10.5	74	11.0	72	11.4	69	11.9	67	12.4
40	4.2	94	5.5	92	6.4	90	7.1	88	7.8	86	8.4	84	8.9	82	9.5	79	10.0	77	10.5	75	10.9	72	11.4	69	11.9	67	12.4
42	4.0	94	5.4	92	6.3	90	7.0	88	7.7	86	8.3	84	8.9	82	9.4	80	9.9	77	10.4	75	10.9	72	11.4	70	11.9	67	12.4
44	3.9	94	5.2	92	6.2	90	6.9	88	7.6	86	8.2	84	8.8	82	9.3	80	9.8	78	10.3	75	10.8	73	11.3	70	11.8	67	12.3
46	3.8	95	5.1	92	6.1	90	6.8	89	7.5	87	8.1	85	8.7	82	9.2	80	9.8	78	10.3	75	10.8	73	11.3	70	11.8	67	12.3
48	3.6	95	5.0	93	5.9	91	6.7	89	7.4	87	8.0	85	8.6	83	9.1	81	9.7	78	10.2	76	10.7	73	11.2	71	11.7	68	12.2
50	3.5	95	4.9	93	5.8	91	6.6	89	7.3	87	7.9	85	8.5	83	9.0	81	9.6	79	10.1	76	10.6	74	11.1	71	11.6	69	12.1
52	3.4	95	4.7	93	5.7	91	6.5	89	7.2	88	7.8	86	8.4	84	8.9	82	9.4	79	9.9	77	10.5	75	11.0	72	11.5	69	12.0
54	3.3	95	4.6	93	5.6	92	6.3	90	7.0	88	7.6	86	8.2	84	8.8	82	9.3	80	9.8	78	10.3	75	10.8	73	11.3	70	11.8
56	3.2	95	4.5	93	5.4	92	6.2	90	6.9	88	7.5	87	8.1	85	8.6	83	9.2	81	9.7	78	10.2	76	10.7	74	11.2	71	11.7
58	3.1	95	4.4	94	5.3	92	6.1	90	6.8	89	7.4	87	7.9	85	8.5	83	9.0	81	9.5	79	10.0	77	10.5	74	11.0	72	11.5
60	3.0	96	4.3	94	5.2	92	6.0	91	6.6	89	7.2	87	7.8	86	8.3	84	8.8	82	9.3	80	9.8	78	10.3	75	10.8	73	11.3
62	2.9	96	4.2	94	5.1	92	5.8	91	6.5	89	7.1	88	7.6	86	8.2	84	8.7	83	9.2	81	9.6	78	10.1	76	10.6	74	11.1
64	2.8	96	4.1	94	5.0	93	5.7	91	6.3	90	6.9	88	7.5	87	8.0	85	8.5	83	9.0	81	9.5	79	9.9	77	10.4	75	10.9
66	2.7	96	4.0	94	4.8	93	5.6	92	6.2	90	6.8	89	7.3	87	7.8	86	8.3	84	8.8	82	9.3	80	9.7	78	10.2	76	10.7
68	2.6	96	3.9	94	4.7	93	5.4	92	6.1	90	6.6	89	7.2	88	7.7	86	8.1	84	8.6	83	9.1	81	9.5	79	10.0	77	10.4
70	2.6	96	3.8	95	4.6	93	5.3	92	5.9	91	6.5	89	7.0	88	7.5	87	8.0	85	8.4	83	8.9	82	9.3	80	9.8	78	10.2
72	2.5	96	3.7	95	4.5	93	5.2	92	5.8	91	6.3	90	6.8	88	7.3	87	7.8	86	8.2	84	8.7	83	9.1	81	9.5	79	10.0
74	2.5	96	3.6	95	4.4	94	5.1	92	5.7	91	6.2	90	6.7	89	7.2	88	7.6	86	8.0	85	8.5	83	8.9	82	9.3	80	9.8
76	2.4	96	3.6	95	4.4	94	5.0	93	5.6	92	6.1	90	6.5	89	7.0	88	7.4	87	7.9	85	8.3	84	8.7	82	9.1	81	9.5
78	2.4	96	3.5	95	4.3	94	4.9	93	5.4	92	5.9	91	6.4	90	6.8	88	7.3	87	7.7	86	8.1	85	8.5	83	8.9	82	9.3
80	2.4	96	3.5	95	4.2	94	4.8	93	5.3	92	5.8	91	6.3	90	6.7	89	7.1	88	7.5	87	7.9	85	8.3	84	8.7	82	9.1
82	2.4	96	3.4	95	4.1	94	4.7	93	5.2	92	5.7	91	6.1	90	6.5	89	6.9	88	7.3	87	7.7	86	8.1	85	8.5	83	8.9
84	2.4	96	3.4	95	4.1	94	4.6	93	5.1	92	5.6	91	6.0	91	6.4	90	6.8	89	7.2	88	7.5	86	7.9	85	8.3	84	8.6
86	2.4	96	3.3	95	4.0	94	4.6	93	5.0	93	5.5	92	5.9	91	6.3	90	6.6	89	7.0	88	7.4	87	7.7	86	8.1	85	8.4
88	2.4	96	3.3	95	4.0	94	4.5	94	5.0	93	5.4	92	5.8	91	6.1	90	6.5	89	6.9	88	7.2	87	7.5	86	7.9	85	8.2
90	2.4	96	3.3	95	3.9	94	4.4	94	4.9	93	5.3	92	5.7	91	6.0	91	6.4	90	6.7	89	7.0	88	7.4	87	7.7	86	8.0
92	2.4	96	3.3	95	3.9	94	4.4	94	4.8	93	5.2	92	5.6	92	5.9	91	6.2	90	6.6	89	6.9	88	7.2	87	7.5	86	7.9
94	2.4	96	3.2	95	3.8	94	4.3	94	4.7	93	5.1	92	5.5	92	5.8	91	6.1	90	6.4	90	6.8	89	7.1	88	7.4	87	7.7
96	2.4	96	3.2	95	3.8	95	4.3	94	4.7	93	5.0	93	5.4	92	5.7	91	6.0	91	6.3	90	6.6	89	6.9	88	7.2	87	7.5
98	2.5	96	3.2	95	3.8	95	4.2	94	4.6	93	5.0	93	5.3	92	5.6	91	5.9	91	6.2	90	6.5	89	6.8	89	7.1	88	7.4
100	2.5	96	3.2	95	3.7	95	4.2	94	4.6	93	4.9	93	5.2	92	5.5	92	5.8	91	6.1	90	6.4	90	6.6	89	6.9	88	7.2

T	RH-->																									
	45	48	51	54	57	60	63	66	69	72	75	78	81	45	48	51	54	57	60	63	66	69	72	75	78	81
30	12.6	62	13.1	59	13.6	56	14.0	53	14.5	50	15.0	46	15.6	43	16.1	39	16.7	36	17.4	32	18.1	28	18.9	24	19.7	20
32	12.7	62	13.2	59	13.7	56	14.1	52	14.6	49	15.2	46	15.7	42	16.3	38	16.9	34	17.6	31	18.3	27	19.1	23	20.0	19
34	12.8	61	13.3	58	13.7	55	14.2	52	14.7	48	15.3	45	15.8	41	16.4	37	17.1	34	17.7	30	18.5	26	19.3	22	20.2	18
36	12.8	61	13.3	58	13.8	55	14.3	51	14.8	48	15.4	44	15.9	40	16.5	37	17.2	33	17.9	29	18.6	25	19.5	21	20.4	17
38	12.9	61	13.3	58	13.8	54	14.4	51	14.9	47	15.4	44	16.0	40	16.6	36	17.3	32	18.0	28	18.8	24	19.6	20	20.6	16
40	12.9	61	13.4	57	13.9	54	14.4	51	14.9	47	15.5	43	16.1	40	16.7	36	17.4	32	18.1	28	18.9	24	19.7	20	20.7	16
42	12.9	61	13.4	57	13.9	54	14.4	51	14.9	47	15.5	43	16.1	39	16.7	35	17.4	31	18.1	27	18.9	23	19.8	19	20.8	16
44	12.8	61	13.3	58	13.8	54	14.4	51	14.9	47	15.5	43	16.1	39	16.8	35	17.4	31	18.2	27	19.0	23	19.9	19	20.8	15
46	12.8	61	13.3	58	13.8	55	14.3	51	14.9	47	15.5	43	16.1	39	16.7	35	17.4	31	18.2	27	19.0	23	19.9	19	20.9	15
48	12.7	62	13.2	59	13.7	55	14.3	51	14.8	48	15.4	44	16.0	40	16.7	36	17.4	32	18.1	28	18.9	23	19.8	19	20.8	16
50	12.6	62	13.1	59	13.6	56	14.2	52	14.7	48	15.3	44	15.9	40	16.6	36	17.3	32	18.0	28	18.8	24	19.7	20	20.7	16
52	12.5	63	13.0	60	13.5	56	14.1	53	14.6	49	15.2	45	15.8	41	16.5	37	17.2	33	17.9	29	18.7	24	19.6	20	20.6	16
54	12.3	64	12.8	61	13.4	57	13.9	54	14.5	50	15.1	46	15.7	42	16.3	38	17.0	34	17.8	29	18.6	25	19.5	21	20.5	17
56	12.2	65	12.7	62	13.2	59	13.7	55	14.3	51	14.9	47	15.5	43	16.1	39	16.8	35	17.6	31	18.4	26	19.3	22	20.3	18
58	12.0	66	12.5	63	13.0	60	13.5	56	14.1	53	14.7	49	15.3	45	15.9	41	16.6	36	17.3	32	18.1	27	19.0	23	20.0	19
60	11.8	67	12.3	64	12.8	61	13.3	58	13.9	54	14.5	50	15.1	46	15.7	42	16.4	38	17.1	33	17.9	29	18.8	24	19.7	20
62	11.6	68	12.1	66	12.6	62	13.1	59	13.7	56	14.2	52	14.8	48	15.4	44	16.1	39	16.8	35	17.6	30	18.5	26	19.4	21
64	11.4	70	11.9	67	12.4	64	12.9	61	13.4	57	14.0	54	14.5	50	15.2	46	15.8	41	16.5	37	17.3	32	18.1	27	19.1	23
66	11.1	71	11.6	68	12.1	65	12.6	62	13.1	59	13.7	55	14.3	52	14.9	47	15.5	43	16.2	39	17.0	34	17.8	29	18.7	24
68	10.9	72	11.4	70	11.9	67	12.4	64	12.9	61	13.4	57	14.0	53	14.6	50	15.2	45	15.9	41	16.6	36	17.4	31	18.4	26
70	10.7	73	11.1	71	11.6	68	12.1	65	12.6	62	13.1	59	13.7	55	14.2	52	14.9	48	15.5	43	16.3	38	17.1	34	18.0	28
72	10.4	75	10.9	72	11.3	70	11.8	67	12.3	64	12.8	61	13.3	58	13.9	54	14.5	50	15.2	45	15.9	41	16.7	36	17.5	31
74	10.2	76	10.6	74	11.1	71	11.5	69	12.0	66	12.5	63	13.0	60	13.6	56	14.2	52	14.8	48	15.5	43	16.3	38	17.1	33
76	9.9	77	10.4	75	10.8	73	11.3	70	11.7	68	12.2	65	12.7	62	13.3	58	13.8	54	14.4	50	15.1	46	15.9	41	16.7	36
78	9.7	78	10.1	76	10.5	74	11.0	72	11.4	69	11.9	67	12.4	64	12.9	60	13.5	57	14.1	53	14.7	48	15.4	44	16.3	38
80	9.5	79	9.9	77	10.3	75	10.7	73	11.1	71	11.6	68	12.1	66	12.6	62	13.1	59	13.7	55	14.3	51	15.0	46	15.8	41
82	9.2	80	9.6	79	10.0	77	10.4	75	10.9	72	11.3	70	11.8	67	12.3	64	12.8	61	13.3	58	14.0	53	14.6	49	15.4	44
84	9.0	81	9.4	80	9.8	78	10.2	76	10.6	74	11.0	72	11.5	69	11.9	66	12.4	63	13.0	60	13.6	56	14.2	52	15.0	47
86	8.8	82	9.2	81	9.5	79	9.9	77	10.3	75	10.7	73	11.2	71	11.6	68	12.1	65	12.6	62	13.2	58	13.9	54	14.6	49
88	8.6	83	8.9	81	9.3	80	9.7	78	10.1	77	10.5	75	10.9	72	11.3	70	11.8	67	12.3	64	12.9	61	13.5	57	14.2	52
90	8.4	84	8.7	82	9.1	81	9.4	79	9.8	78	10.2	76	10.6	74	11.0	72	11.5	69	12.0	66	12.5	63	13.1	59	13.8	55
92	8.2	84	8.5	83	8.8	82	9.2	80	9.6	79	9.9	77	10.3	75	10.7	73	11.2	71	11.7	68	12.2	65	12.7	61	13.4	57
94	8.0	85	8.3	84	8.6	83	9.0	81	9.3	80	9.7	78	10.1	77	10.5	75	10.9	72	11.3	70	11.8	67	12.4	64	13.0	60
96	7.8	86	8.1	85	8.4	83	8.8	82	9.1	81	9.4	79	9.8	78	10.2	76	10.6	74	11.0	71	11.5	69	12.1	66	12.7	62
98	7.6	86	7.9	85	8.2	84	8.6	83	8.9	82	9.2	80	9.6	79	9.9	77	10.3	75	10.8	73	11.2	71	11.7	68	12.3	64
100	7.5	87	7.8	86	8.1	85	8.4	84	8.7	83	9.0	81	9.3	80	9.7	78	10.1	76	10.5	74	10.9	72	11.4	69	12.0	66

T	RH-->									
	84	87	90	93	96					
30	20.7	16	21.9	12	23.4	8	25.4	5	28.4	2
32	21.0	15	22.2	11	23.8	8	25.8	5	28.9	2
34	21.3	14	22.5	11	24.1	7	26.1	4	29.3	2
36	21.5	13	22.8	10	24.3	7	26.5	4	29.7	2
38	21.7	13	23.0	9	24.6	6	26.7	4	30.1	2
40	21.8	12	23.1	9	24.8	6	27.0	3	30.4	1
42	21.9	12	23.3	9	24.9	6	27.1	3	30.6	1
44	22.0	12	23.3	9	25.0	6	27.3	3	30.7	1
46	22.0	12	23.4	9	25.1	6	27.3	3	30.8	1
48	22.0	12	23.4	9	25.1	6	27.3	3	30.9	1
50	21.9	12	23.3	9	25.0	6	27.3	3	30.8	1
52	21.8	12	23.2	9	24.9	6	27.2	3	30.7	1
54	21.6	13	23.0	9	24.7	6	27.0	3	30.5	1
56	21.4	14	22.8	10	24.5	6	26.8	4	30.3	1
58	21.2	14	22.5	10	24.2	7	26.5	4	29.9	2
60	20.9	15	22.2	11	23.9	8	26.1	4	29.6	2
62	20.6	17	21.9	12	23.5	8	25.7	5	29.1	2
64	20.2	18	21.5	13	23.1	9	25.3	5	28.6	2
66	19.8	19	21.1	15	22.7	10	24.8	6	28.1	3
68	19.4	21	20.7	16	22.2	11	24.3	7	27.5	3
70	19.0	23	20.2	18	21.7	13	23.8	8	26.9	3
72	18.6	25	19.8	20	21.2	14	23.2	9	26.3	4
74	18.1	28	19.3	22	20.7	16	22.7	10	25.7	5
76	17.7	30	18.8	24	20.2	18	22.1	12	25.0	6
78	17.2	33	18.3	27	19.7	20	21.5	13	24.3	7
80	16.7	35	17.8	29	19.1	22	20.9	15	23.7	8
82	16.3	38	17.3	32	18.6	25	20.3	17	23.0	9
84	15.8	41	16.8	35	18.1	28	19.8	20	22.3	11
86	15.4	44	16.4	38	17.6	31	19.2	22	21.7	13
88	15.0	47	15.9	41	17.1	33	18.6	25	21.0	15
90	14.5	50	15.4	44	16.6	36	18.1	28	20.4	17
92	14.1	52	15.0	47	16.1	39	17.6	31	19.8	20
94	13.7	55	14.6	49	15.6	42	17.0	34	19.2	22
96	13.3	58	14.2	52	15.2	45	16.5	37	18.6	25
98	13.0	60	13.8	55	14.7	48	16.0	40	18.1	28
100	12.6	62	13.4	57	14.3	51	15.6	43	17.5	31

How to read the tables

These tables estimate the moisture content of dead, overwintered grass in Alaska. Find the closest temperature (F) in the first column and relative humidity in the first row. Where the column crosses the row are listed the dead grass moisture content in the white column and the probability of ignition in the colored column. Interpolate, if needed.

Example, temperature = 58F, and relative humidity = 30%, then DGFM = 9.5% and POI = 79%.

Rule of Thumb: $MC = RH / 5 + 4$

Use this rule of thumb as an easily memorized substitute for these tables: Divide the relative humidity by 5 and add 4. For example, if the relative humidity is 30% then divide 30 by 5 which is 6. Then add 6 to 4 for an estimate of 10% dead grass fuel moisture content. This estimate is best between 14-65% relative humidity.

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