

Table 1. Crosswalk from Viereck et al (1992) Alaska vegetation classes to fuel models in the original 2008 fuel model guide (designated as “old”) and this draft revision (designated as “new”).

Guidebook Group	Fuel Type Name	Old 40	Old 13	Old FBP	New 40	New 13	New FBP	Alternate Models (See text for usage)
1	Sitka Spruce – Hemlock Forest	TL1	8	C-6	TL1	8	C-5 (closed) C-7 (open)	
2	Closed White Spruce Forest	TU1	10	C-3	TU2 upland TU1 riparian	9	C-3	TU3, FM10
3	Closed Black Spruce Forest Closed Black Spruce – White Spruce Forest	TU3	9 (adj.)	C-2	TU3/TU4 (test)	9 adj	C-2	TU1, SH5
4	Open White Spruce Forest	TU5	10	C-7	TU5	10	C-3	TU4, TU1
5	Coastal Boreal Transition Open White Spruce – Lutz Spruce Forest	New			TU1	8	D-1/D-2 or M-1/M-2 w/ low conifer	TU1, TU3, GR4 , FM9
6	Open Black Spruce Forest / Open Mixed Black Spruce – White Spruce Forest	TU4	9 (adj.)	C-1	TU4/TU3 (test)	9 ADJ	C-2	TU5, SH5
7	Black Spruce – Tamarack Forest	TU5	10	C-1	TU2	10	C-1	
8	Coastal Woodland Rainforest	TL1	8	M-2	TL1	8	M-2 w/low conifer % or D-2	
9	White Spruce Woodland with Shrubs	TU5	10	C-1	SH2	10	M-2/25% conifer	GR
10	Black Spruce Woodland with Tussocks	GR2	1	O-1	GS2	5	C-1	GS3, O-1a/b
11	Black Spruce Woodland with Lichen	TU4	9 (adj)	C-2	TU4	9 adj	C-1	GR2
12	Black Spruce Woodland with Sphagnum Moss	TU4	9 (adj)	C-2	TU2	10	C-1	TU1, SH2, TU4
13	Closed Black Cottonwood or Balsam Poplar Forest / Closed Red Alder Forests	TL2	8	M-2	TL2	8	D-1/2	
14	Closed Paper Birch Forest / Closed Quaking Aspen Forest	TU1	8	M-2	TU1	8	D-1/2	
15	Open Paper Birch Forest	TU1	9	M-2	TU1	8	D-1/2	M-1, M-2, TU3

Fuel model guide to Alaska vegetation

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16	Open Quaking Aspen Forest	TL2	8	D-1	TU1	8	D-1/2	
17	Open Balsam Poplar (Black Cottonwood) Forest	TL2	8	M-2	TL2	8	D-1/2	TU1
18	Woodland Paper Birch / Woodland Balsam Poplar	GR1	1	O-1A	SH1	8	O-1a/b	GR1, SH2
19	White or Black Spruce with Paper Birch and/or Aspen	TL6	8	M-2	TU5	10	M-2/50% conifer	TU5, M-1/2
20	White Spruce with Balsam Poplar and Paper Birch	TU1	8	M-2	TU1	8	M-2/25% conifer	M-1, 9
21	Dwarf Tree Mountain Hemlock Scrub / Dwarf Tree Spruce Shrub	SH1	10	M-2	SH1	8	O-1a/b	
22	Dwarf Tree Black Spruce Scrub	TU4	9	C-2	GS1	9	C-1	C2, GS2
23	Closed Tall Alder / Closed Tall Willow	TU1	5	D-1/D-2	TL2	8	D-1/2	TU1, SH2, M-1/2
24	Closed Tall Shrub Birch	SH3	6	M-1	SH3	9	M-1/M-2	SH2
25	Tall Shrub Swamp	SH1	4	O-1A	SH1 same	8	O-1a/b	-
26	Open Tall Alder and/or Willow Shrub	TU1	5	M-2	TU1	8	D-1/D-2	M-1, GS1
27	Open Tall Shrub Birch / Open Tall Shrub Birch-Willow	SH3	5	M-1	SH3	9	M-1/M-2	TU4, GS1
28	Closed Low Shrub Birch / Closed Low Shrub Birch-Willow / Closed Low Ericaceous Shrub	SH2	5	M-1	SH2	9	D-1/D-2	TU4
29	Closed Low Willow / Closed Low Alder-Willow	TU1	6	M-2	SH2	9	D-1/D-2	TU1, M-1
30	Open Low Mixed Shrub-Sedge Tussock Tundra / Open Low Mixed Shrub – Sedge Tussock Bog	GR2	1	O-1	GR4	1	O-1a/b	GR5
31	Open Low Mesic Shrub Birch - Ericaceous Shrub	GR3	1	O-1	GR2	5	O-1a/b	SH7
32		GR2	1	O-1	GS2	5	O-1a/b	
33	Open Low Willow / Open Low Sweetgale	GR1	1	O-1A	SH1	8	O-1a/b	GR1
34	Open Low Alder / Open Low Alder-Willow	GS1	1	O-1	GS1	1	O-1a/b	SH2

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	Shrub							
35	Sagebrush-Juniper	SH2	8	O-1A				Combined with Sagebrush-Grass
35	Sagebrush-Grass / Grass -Juniper	GS1	2	O-1	GR1	8	O-1a/b	FM10
36	Dwarf Shrub Tundra	GR1	1	O-1A	GS1	1	O-1a/b	
37	Elymus	SH4	8	O-1A	GS2	5	O-1a/b	
38	Grass-Shrub	GR2	1	O-1	GS2	5	O-1a/b	GS1
40	Grass-Herb	GR1	1	O-1A	GS1	5	O1	Grouped with Mesic Sedge-Grass-Meadow or Tundra, #42
39	Bluejoint (<i>Calamagrostis</i>) Meadow	GR4	3	O-1	GR4	2	O-1a/b	GR7, FBFM13 3
40	Bluejoint-Shrub /Bluejoint- Herb	GR2	1	O-1	GR2	6	O-1a/b	GR1
41	Tussock Tundra	GR3	3	O-1	GR4	1	O-1a/b	
42	Mesic Sedge-Grass Meadow or Tundra /Mesic Sedge-Herb Meadow or Tundra	GR2	1	O-1	GS1	5	O-1a/b	
43	Sedge Willow Tundra / Sedge-Dryas Tundra	GR1	1	O-1A	GR1	1	O-1a/b	
44	Sedge-Birch Tundra	GR2	1	O-1	GR2	6	O-1a/b	GR4, GS3
45	Wet Meadow Tundra	GR1	1	O-1A	GR1	10	O-1a/b	NB6
46	Wet Sedge-Grass Meadow-Marsh	GR1	1	O-1A	GR1	1	O-1a/b	NB6
47	Wet Sedge Meadow or Bog / Wet Sedge-Shrub Meadow or Bog	GR1	1	O-1A	GR1	9	O-1a/b	NB6, FBFM13 2
48	Dry Species – Non Burnable	NB7*	99		NB7*	99		
49	Wet Species – Non Burnable	NB6**	99		NB7*	99		
50	Mesic Forb Herbaceous	GR1	1	O-1A	GR1	1	O-1a/b	
51	Foliose and Fruticose Lichen	GR1	1	O-1A	GR1	2	O-1a/b	GR2, GR3
52	Crustose Lichen	NB9	99		NB9	99		
53	Aquatic Herbaceous	NB8	99		NB8	99		
56	Downed Beetle-killed spruce	SB1	11	M4	Replaced			

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Guidebook Group	Fuel Type Name	Old 40	Old 13	Old FBP	New 40	New 13	New FBP	Alternate Models (See text for usage)
54	Standing Dead Beetle Kill Spruce Forest				SB2/SB3	12	M-3	
55	Heavy Stem Breakage/Downed & Jack-Straw Spruce and Aged Post-Mortality Beetle-Kill Forest				SB3	13	C-3	
56	Closed Spruce Forest with Moderate Downed Beetle Kill/ Mixed Spruce & Hardwood Forest with Moderate Beetle Kill				TU5	10	M-3	
57	Post-Timber Harvest Areas with Bluejoint Grass and Logging Slash Fuel Beds				GR7	3	O-1a/b	

Notes:

- The FMFB 13 fuel model "9 ADJ" refers to Norum's (1982) calibration for Alaska Black Spruce. Rate of spread is 1.2 times that predicted for fuel model 9 (Albini 1976, Anderson 1982), and flame length is that predicted for fuel model 5.
- NB6 is a custom fuel model referring to areas covered by hydric vegetation types that do not carry fire; NB7 refers to upland (dry species) vegetation types that do not carry fire.