

AWFCG Endorsed Fuel Model Crosswalk

***Note: this version includes changes made to crosswalk for group 29,
and to name of group 19 on April 16th, 2008**

On January 22nd, 2008, the AWFCG endorsed the attached crosswalk between Alaska vegetation classes and the fuel models developed by Scott and Bergen "40", the NFFL "13", and the Canadian "CFFDRS" models.

Problem Statement: With the growing interest and use of LANDFIRE, GIS mapping and fuels/fire behavior, modeling various land management agencies/owners have developed localized fuels mapping crosswalks. Increased demand for sharing data layers has shown that not all crosswalks can be shared due to differing crosswalk strategies. This causes problems for implementation of projects across ownership boundaries. With the new 40 Fuel Models now available, a crosswalk is needed to match Alaska vegetation to the fuel models.

Goal: To develop a standardized interagency vegetation crosswalk that can be applied statewide by various disciplines.

Background: In early 2007, Brad Cella decided to act upon discussions within various committees about the need for a common vegetation and guidebook to enable Alaskans to better utilize the new Bergen and Scott Fuel Models. He paid for Joe Scott from the Missoula Fire Lab, to travel to Anchorage to meet with fire behavior, fuels, ecology, GIS specialists and LANDFIRE's USGS lead in Alaska. Jennifer Allen, NPS, took the lead on organizing the meetings and administering the subsequent contracts with Joe Scott.

In April, 2007, an interagency group (see below) met in Anchorage and went through all 80+ Level IV classifications within Viereck et al's (1992) Alaska Vegetation Classification. For each of Viereck's vegetation classes we discussed the fuel structure, probable fire behavior and which of the 40 Fuel Models best described the fuels associated with each vegetation class. With Joe Scott's help, we were able to look at the fire behavior predicted for each model and discuss if it match the observed fire behavior for the different vegetation classes. Only a few vegetation classes needed to be split to accommodate fire behavior at different seral stages or seasonality. The crosswalk was distributed for review during the summer of 2007.

In December, 2007, the group reconvened in Anchorage. We revisited all of the prior crosswalk determinations, completed crosswalks to the 13 NFFL, and to the Canadian fuel models, and discussed the format and layout of the guidebook.

Products:

Crosswalk – **Completed two versions** – a “complete” crosswalk of all Level IV classes (see worksheets) and a “condensed” version that lumped the 80 Viereck Level IV classes into 56 classes used in the upcoming Guidebook.

Guidebook – **In Development** - NPS contract to Joe Scott and Erin Noonan; photos being located. *Completion expected in Spring 2008*. The guidebook will include photos of Alaska vegetation types that fit within the subset of the 40 fuel models used in Alaska. It will include basic vegetation and fuel descriptions and fire behavior basics.

AWFCG DECISION: The AWFCG endorses the attached crosswalk as the official crosswalk for use in Alaska. The crosswalk will be posted on the AWFCG website with links under the Fuels, Research and GIS committee sections.

Crosswalk development group:

Jennifer Allen (NPS, Research Committee), Karen Murphy (FWS, Research Committee), Kent Slaughter (BLM, Research Committee), Gene Long (FWS, Research and Fuels), Kato Howard (BLM, Fuels Committee), Dave Lockwood (USFS, Fuels committee), Skip Theisen (BLM, Fire Behavior), Brian Sorbel (NPS, GIS Committee), Parker Martyn (BLM, GIS Committee), Jan Passek (FWS, GIS Committee), Peter Butteri (FWS, Ops Committee), Frank Cole (DNR, Fire behavior), John See (DNR, Fire Behavior), John Koltun (Consultant, GIS & modeling), Michael Fleming (SAIC, LANDFIRE), Joe Scott and Erin Noonan (Consultants from Missoula Fire Lab). Not all participants attended both meetings.

AWFCG Endorsed Alaska Fuel Model Crosswalk

Guide book group	Viereck Code	Description	Primary Carrier of Fire	Fuel Model		
				40	13	CFFDRS
1	Closed	Sitka Spruce-Western Hemlock Forest	compact needle litter	TL1	8	C6
1	1A1A	Closed Sitka Spruce Forest	compact needle litter	TL1	8	C6
1	1A1B	Closed Western Hemlock Forest	compact needle litter	TL1	8	C6
1	1A1C	Closed Sitka Spruce-Western Hemlock Forest	compact needle litter	TL1	8	C6
1	1A1D	Closed Western Hemlock-Sitka Spruce-(Western Redcedar) Forest	compact needle litter	TL1	8	C6
1	1A1E	Closed Western Hemlock-Alaska-Cedar	compact needle litter	TL1	8	C6
1	1A1F	Closed Mountain Hemlock Forest	compact needle litter	TL1	8	C6
1	1A1G	Closed Western Hemlock-Western Redcedar Forest	compact needle litter	TL1	8	C6
1	1A1H	Closed Silver Fir-Western Hemlock Forest	compact needle litter	TL1	8	C6
1	1A1I	Closed Subalpine Fir Forest	compact needle litter	TL1	8	C6
2	Closed	White Spruce Forest	feather moss, litter, duff	TU1	10	C3
2	1A1J	Closed White Spruce Forest	feather moss, litter, duff	TU1	10	C3
3	Closed	Black Spruce Forest	feather moss	TU3	9 ADJ	C2
3	1A1K	Closed Black Spruce Forest	feather moss	TU3	9 ADJ	C2
3	1A1L	Closed Black Spruce-White Spruce Forest	feather moss	TU3	9 ADJ	C2
4	Open	Western Hemlock-Sitka Spruce Forest	litter	TL1	8	M4
4	1A2A	Open Sitka Spruce Forest	litter	TL1	8	M4
4	1A2B	Open Western Hemlock-Sitka Spruce Forest	litter	TL1	8	M4
4	1A2C	Open Mountain Hemlock Forest	litter	TL1	8	M4
4	1A2D	Open Mixed Conifer Forest	litter	TL1	8	M4
5	Open	White Spruce Forest	shrub & litter	TU5	10	C7
5	1A2E	Open White Spruce Forest	shrub & litter	TU5	10	C7
6	Open	Black Spruce Forest	feather moss	TU4	9 ADJ	C1
6	1A2F	Open Black Spruce Forest	feather moss	TU4	9 ADJ	C1
6	1A2G	Open Black Spruce-White Spruce Forest	feather moss	TU4	9 ADJ	C1
7	Open	Black Spruce-Tamarack Forest	feather moss & shrub	TU5	10	C1
7	1A2H	Open Black Spruce-Tamarack Forest	feather moss & shrub	TU5	10	C1
8	Woodland	Sitka Spruce-Pine	litter & shrub	TL1	8	M2

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Guide book group	Viereck Code	Description	Primary Carrier of Fire	Fuel Model		
				40	13	CFFDRS
8	1A3A	Lodgepole Pine Woodland	litter & shrub	TL1	8	M2
8	1A3B	Sitka Spruce Woodland	litter & shrub	TL1	8	M2
9	White Spruce Woodland		feather moss & shrub	TU5	10	C1
9	1A3C	White Spruce Woodland	feather moss & shrub	TU5	10	C1
10	Black Spruce Woodland with tussock		shrub & tussocks	GR2	1	O1
10	1A3D	Black Spruce Woodland	shrub & tussocks	GR2	1	O1
11	Black Spruce Woodland with lichen-moss		feather moss & lichen	TU4	9 ADJ	C2
11	1A3D	Black Spruce Woodland	feather moss & lichen	TU4	9 ADJ	C2
11	1A3E	Black Spruce-White Spruce Woodland	feather moss & lichen	TU4	9 ADJ	C2
12	Closed Red Alder Forest		leaf litter	TL2	8	M2
12	1B1A	Closed Red Alder Forest	leaf litter	TL2	8	M2
13	Closed Black Cottonwood-Balsam Poplar Forest		leaf litter	TL2	8	M2
13	1B1B	Closed Black Cottonwood Forest	leaf litter	TL2	8	M2
13	1B1C	Closed Balsam Poplar Forest	leaf litter	TL2	8	M2
14	Closed Paper Birch-Quaking Aspen Forest		leaf litter & sparse grass	TU1	8	M2
14	1B1D	Closed Paper Birch Forest	leaf litter & sparse grass	TU1	8	M2
14	1B1E	Closed Quaking Aspen Forest	leaf litter & sparse grass	TU1	8	M2
14	1B1F	Closed Paper Birch-Quaking Aspen Forest	leaf litter & sparse grass	TU1	8	M2
14	1B1G	Closed Quaking Aspen-Balsam Poplar Forest	leaf litter & sparse grass	TU1	8	M2
15	Open Paper Birch Forest		leaf litter & grass	TU1	9	M2
15	1B2A	Open Paper Birch Forest	leaf litter & grass	TU1	9	M2
16	Open Quaking Aspen Forest		leaf litter, grass, shrub & slope	TL2	8	D1
16	1B2B	Open Quaking Aspen Forest	leaf litter, grass, shrub & slope	TL2	8	D1
17	Open Balsam Poplar (Black Cottonwood) Forest		leaf litter	TL2	8	M2
17	1B2C	Open Balsam Poplar (Black Cottonwood) Forest	leaf litter	TL2	8	M2
18	Woodland Paper Birch-Balsam Poplar		lichen or grass & leaf litter	GR1	1	O1A
18	1B3A	Paper Birch Woodland	lichen or grass & leaf litter	GR1	1	O1A
18	1B3B	Balsam Poplar Woodland	lichen or grass & leaf litter	GR1	1	O1A
18	1B3C	Paper Birch-Balsam Poplar Woodland	lichen or grass & leaf litter	GR1	1	O1A

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Guide book group	Viereck Code	Description	Primary Carrier of Fire	Fuel Model		
				40	13	CFFDRS
19	Spruce-Paper Birch		leaf litter	TL6	8	M2
19	1C1A	Closed Spruce-Paper Birch Forest	leaf litter	TL6	8	M2
19	1C1C	Closed Spruce-Paper Birch-Quaking Aspen Forest	leaf litter	TL6	8	M2
19	1C1D	Closed Quaking Aspen-Spruce Forest	leaf litter	TL6	8	M2
19	1C2A	Open Spruce-Paper Birch Forest	leaf litter	TL6	8	M2
19	1C2B	Open Quaking Aspen-Spruce Forest	leaf litter	TL6	8	M2
19	1C3A	Spruce-Paper Birch Woodland	leaf litter	TL6	8	M2
20	White Spruce - Paper Birch - Balsam Poplar - Spruce		leaf litter & herbaceous plants	TU1	8	M2
20	1C1B	Closed White Spruce-Paper Birch-Balsam Poplar (Black Cottonwood) Forest	leaf litter & herbaceous plants	TU1	8	M2
20	1C1E	Closed Balsam Poplar-White Spruce Forest	leaf litter & herbaceous plants	TU1	8	M2
20	1C2C	Open Paper Birch-Balsam Poplar-Spruce Forest	leaf litter & herbaceous plants	TU1	8	M2
20	1C2D	Open Spruce-Balsam Poplar Forest	leaf litter & herbaceous plants	TU1	8	M2
21	Dwarf Tree Mountain Hemlock Scrub		sparse moss & shrub	SH1	10	M2
21	2A1A	Closed Mountain Hemlock Dwarf Tree Scrub	sparse moss & shrub	SH1	10	M2
21	2A1B	Closed Subalpine Fir Dwarf Tree Scrub	sparse moss & shrub	SH1	10	M2
21	2A2B	Open Mountain Hemlock Dwarf Tree Scrub	sparse moss & shrub	SH1	10	M2
22	Dwarf Tree Black Spruce Scrub		feather moss & shrub	TU4	9	C2
22	2A2A	Open Black Spruce Dwarf Tree Scrub	feather moss & shrub	TU4	9	C2
22	2A3A	Black Spruce Dwarf Tree Woodland	feather moss & shrub	TU4	9	C2
23	Closed Tall Alder Willow Shrub		leaf litter & woody debris	TU1	6	M2
23	2B1A	Closed Tall Willow Shrub	leaf litter & woody debris	TU1	6	M2
23	2B1B	Closed Tall Alder Shrub	leaf litter & woody debris	TU1	6	M2
23	2B1D	Closed Tall Alder-Willow Shrub	leaf litter & woody debris	TU1	6	M2
24	Closed Tall Birch Shrub		shrubs	SH3	6	M1
24	2B1C	Closed Tall Shrub Birch Shrub	shrubs	SH3	6	M1
24	2B1E	Closed Tall Shrub Birch-Willow Shrub	shrubs	SH3	6	M1
25	Tall Shrub Swamp		herbaceous, shrub & leaf litter	SH1	1	O1A
25	2B1F	Closed Tall Shrub Swamp	herbaceous, shrub & leaf litter	SH1	1	O1A

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Guide book group	Viereck Code	Description	Primary Carrier of Fire	Fuel Model		
				40	13	CFFDRS
25	2B2F	Open Tall Shrub Swamp	herbaceous, shrub & leaf litter	SH1	1	O1A
26	Open Tall Willow Alder Shrub		grass & shrub litter	TU1	5	M2
26	2B2A	Open Tall Willow Shrub	grass & shrub litter	TU1	5	M2
26	2B2B	Open Tall Alder Shrub	grass & shrub litter	TU1	5	M2
26	2B2D	Open Tall Alder-Willow Shrub	grass & shrub litter	TU1	5	M2
27	Open Tall Birch/Birch-Willow Shrub		shrubs	SH3	5	M1
27	2B2C	Open Tall Shrub Birch Shrub	shrubs	SH3	5	M1
27	2B2E	Open Tall Shrub Birch-Willow Shrub	shrubs	SH3	5	M1
28	Closed Low Birch/Birch-Willow/Ericaceous Shrub		shrub	SH2	5	M1
28	2C1A	Closed Low Shrub Birch Shrub	shrub	SH2	5	M1
28	2C1C	Closed Low Shrub Birch-Willow Shrub	shrub	SH2	5	M1
28	2C1D	Closed Low Ericaceous Shrub	shrub	SH2	5	M1
29	Closed Low Willow/Alder-Willow Shrub		shrub	TU1	6	M2
29	2C1B	Closed Low Willow Shrub	shrub	TU1	6	M2
29	2C1E	Closed Low Alder-Willow Shrub	shrub	TU1	6	M2
30	Open Low Mixed Shrub-Sedge Tussock Tundra/Bog		tussocks	GR2	1	O1
30	2C2A	Open Low Mixed Shrub-Sedge Tussock Tundra	tussocks	GR2	1	O1
30	2C2B	Open Low Mixed Shrub-Sedge Tussock Bog	tussocks	GR2	1	O1
31	Open Low Birch-Ericaceous Shrub/Bog		grass & dwarf birch	GR3	1	O1
31	2C2C	Open Low Mesic Shrub Birch-Ericaceous Shrub	grass & dwarf birch	GR3	1	O1
31	2C2D	Open Low Shrub Birch-Ericaceous Shrub Bog	grass & dwarf birch	GR3	1	O1
32	Open Low Birch-Willow/Ericaceous Shrub/Bog		grass & shrub	GR2	1	O1
32	2C2E	Open Low Ericaceous Shrub Bog	grass & shrub	GR2	1	O1
32	2C2F	Open Low Shrub Birch-Willow Shrub	grass & shrub	GR2	1	O1
33	Open Low Willow/Sweetgale		herbacous	GR1	1	O1A
33	2C2G	Open Low Willow Shrub	herbacous	GR1	1	O1A
33	2C2H	Open Low Willow -Sedge Shrub Tundra	herbacous	GR1	1	O1A
33	2C2I	Open Low Willow-Graminoid Shrub Bog	herbacous	GR1	1	O1A
33	2C2J	Open Low Sweetgale-Graminoid Bog	herbacous	GR1	1	O1A

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				40	13	CFFDRS
34		Open Low Alder/Alder-Willow Shrub	grass & low shrubs	GS1	1	O1
34	2C2K	Open Low Alder-Willow Shrub	grass & low shrubs	GS1	1	O1
34	2C2L	Open Low Alder Shrub	grass & low shrubs	GS1	1	O1
35		Sagebrush-Juniper	juniper	SH2	8	O1A
35	2C2M	Sagebrush-Juniper	juniper	SH2	8	O1A
36		Sagebrush-Grass	grass & shrub	GS1	2	O1
36	2C2N	Sagebrush-Grass	grass & shrub	GS1	2	O1
37		Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D1A	Dryas Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D1B	Dryas-Sedge Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D1C	Dryas-Lichen Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D2A	Bearberry Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D2B	Vaccinium Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D2C	Crowberry Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D2D	Mountain-Heath Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D2E	Cassiope Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
37	2D3A	Willow Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
38		Elymus	grass	SH4	8	O1A
38	3A1A	Elymus	grass	SH4	8	O1A
39		Grass-Shrub	short grass	GR2	1	O1
39	3A1B	Dry Fescue	short grass	GR2	1	O1
39	3A1C	Midgrass-Shrub	short grass	GR2	1	O1
39	3A1E	Hair-Grass	short grass	GR2	1	O1
40		Grass-Herb	short grass & herbaceous	GR1	1	O1A
40	3A1D	Midgrass-Herb	short grass & herbaceous	GR1	1	O1A
41		Bluejoint Meadow	grass	GR4	3	O1
41	3A2A	Bluejoint Meadow	grass	GR4	3	O1
42		Bluejoint Shrub Herb	grass	GR2	1	O1
42	3A2B	Bluejoint-Herb	grass	GR2	1	O1

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Guide book group	Viereck Code	Description	Primary Carrier of Fire	Fuel Model		
				40	13	CFFDRS
42	3A2C	Bluejoint-Shrub	grass	GR2	1	O1
43	Tussock Tundra		tussocks	GR3	3	O1
43	3A2D	Tussock Tundra	tussocks	GR3	3	O1
44	Mesic Sedge-Grass-Herb Meadow Tundra		grass & herb	GR2	1	O1
44	3A2E	Mesic Sedge-Grass Meadow Tundra	grass & herb	GR2	1	O1
44	3A2F	Mesic Sedge-Herb Meadow Tundra	grass & herb	GR2	1	O1
44	3A2G	Mesic Grass-Herb Meadow Tundra	grass & herb	GR2	1	O1
45	Sedge Willow Dryas Tundra		herbaceous	GR1	1	O1A
45	3A2H	Sedge-Willow Tundra	herbaceous	GR1	1	O1A
45	3A2J	Sedge-Dryas Tundra	herbaceous	GR1	1	O1A
46	Sedge-Birch Tundra		herbaceous & shrub	GR2	1	O1
46	3A2I	Sedge-Birch Tundra	herbaceous & shrub	GR2	1	O1
47	Wet Meadow Tundra		herbaceous	GR1	1	O1A
47	3A3A	Wet Sedge Meadow Tundra	herbaceous	GR1	1	O1A
47	3A3B	Wet Sedge-Grass Meadow Tundra	herbaceous	GR1	1	O1A
47	3A3C	Wet Sedge-Herb Meadow Tundra	herbaceous	GR1	1	O1A
48	Wet Sedge-Grass Meadow-Marsh		grass	GR1	1	O1A
48	3A3D	Fresh Sedge Marsh	grass	GR1	1	O1A
48	3A3E	Fresh Grass Marsh	grass	GR1	1	O1A
48	3A3H	Halophytic Grass Wet Meadow	grass	GR1	1	O1A
48	3A3I	Halophytic Sedge Wet Meadow	grass	GR1	1	O1A
49	Wet Sedge Meadow-Bog-Shrub		herbaceous	GR1	1	O1A
49	3A3F	Subarctic Lowland Sedge Wet Meadow	herbaceous	GR1	1	O1A
49	3A3G	Subarctic Lowland Sedge-Shrub Wet Meadow	herbaceous	GR1	1	O1A
49	3A3J	Subarctic Lowland Sedge-Bog Meadow	herbaceous	GR1	1	O1A
49	3A3K	Subarctic Lowland Sedge-Moss Bog Meadow	herbaceous	GR1	1	O1A
50	Dry Species - Non Burnable			NB7*	99	
50	3B1A	Seral Herbs		NB7*	99	
50	3B1C	Alpine Herbs		NB7*	99	

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Guide book group	Viereck Code	Description	Primary Carrier of Fire	Fuel Model		
				40	13	CFFDRS
50	3C1B	Dry Bryophyte (MOSS)		NB7*	99	
50	3C2B	Foliose and Fruticose Lichen		NB7*	99	
51	Wet Species - Non Burnable			NB6**	99	
51	3B1B	Alpine Herb-Sedge (Snowbed)		NB6**	99	
51	3B3A	Fresh Herb Marsh		NB6**	99	
51	3B3B	Subarctic Lowland Herb Wet Meadow		NB6**	99	
51	3B3C	Subarctic Lowland Herb Bog Meadow		NB6**	99	
51	3B3D	Halophytic Herb Wet Meadow		NB6**	99	
51	3C1A	Wet Bryophyte (MOSS)		NB6**	99	
52	Mesic Forb Herbaceous			GR1	1	O1A
52	3B2A	Mixed Herbs		GR1	1	O1A
52	3B2B	Fireweed		GR1	1	O1A
52	3B2C	Large Umbel		GR1	1	O1A
52	3B2D	Ferns		GR1	1	O1A
53	Foliose and Fruticose Lichen			GR1	1	O1A
53	3C2B	Foliose and Fruticose Lichen		GR1	1	O1A
54	Crustose Lichen			NB9	99	
54	3C2A	Crustose Lichen		NB9	99	
55	Aquatic Herbaceous			NB8	99	
55	3D1A	Pondlily		NB8	99	
55	3D1B	Common Marestalk		NB8	99	
55	3D1C	Aquatic Buttercup		NB8	99	
55	3D1D	Burreed		NB8	99	
55	3D1E	Water Milfoil		NB8	99	
55	3D1F	Fresh Pondweed		NB8	99	
55	3D1G	Water Star-Wort		NB8	99	
55	3D1H	Aquatic Cryptogam		NB8	99	
55	3D2A	Four-Leaf Marestalk		NB8	99	
55	3D2B	Brackish Pondweed		NB8	99	

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Guide book group	Viereck Code	Description	Primary Carrier of Fire	Fuel Model		
				40	13	CFFDRS
55	3D3A	Eelgrass		NB8	99	
55	3D3B	Marine Algae		NB8	99	
56	Downed Beetle-killed spruce		downed woody fuel	SB1	11	M4
56	4A1A	Downed Beetle kill	downed woody fuel	SB1	11	M4

* The NB7 fuel model is a custom model for drier vegetated areas that typically do not burn.

** The NB6 fuel model is a custom model for wet vegetated areas that typically do not burn.

AWFCG Endorsed Alaska Fuel Model Crosswalk - CONDENSED version

Guidebook Group Number	Description	Primary Carrier of Fire	Fuel Model		
			40	13	CFFDR S
1	Closed Sitka Spruce-Western Hemlock Forest	compact needle litter	TL1	8	C6
2	Closed White Spruce Forest	feather moss, litter, duff	TU1	10	C3
3	Closed Black Spruce Forest	feather moss	TU3	9 ADJ	C2
4	Open Western Hemlock-Sitka Spruce Forest	litter	TL1	8	M4
5	Open White Spruce Forest	shrub & litter	TU5	10	C7
6	Open Black Spruce Forest	feather moss	TU4	9 ADJ	C1
7	Open Black Spruce-Tamarack Forest	feather moss & shrub	TU5	10	C1
8	Woodland Sitka Spruce-Pine	litter & shrub	TL1	8	M2
9	White Spruce Woodland	feather moss & shrub	TU5	10	C1
10	Black Spruce Woodland with tussock	shrub & tussocks	GR2	1	O1
11	Black Spruce Woodland with lichen-moss	feather moss & lichen	TU4	9 ADJ	C2
12	Closed Red Alder Forest	leaf litter	TL2	8	M2
13	Closed Black Cottonwood-Balsam Poplar Forest	leaf litter	TL2	8	M2
14	Closed Paper Birch-Quaking Aspen Forest	leaf litter & sparse grass	TU1	8	M2
15	Open Paper Birch Forest	leaf litter & grass	TU1	9	M2
16	Open Quaking Aspen Forest	leaf litter, grass, shrub & slope	TL2	8	D1
17	Open Balsam Poplar (Black Cottonwood) Forest	leaf litter	TL2	8	M2
18	Woodland Paper Birch-Balsam Poplar	lichen or grass & leaf litter	GR1	1	O1A
19	Spruce-Paper Birch	leaf litter	TL6	8	M2
20	White Spruce - Paper Birch - Balsam Poplar - Spruce	leaf litter & herbaceous plants	TU1	8	M2
21	Dwarf Tree Mountain Hemlock Scrub	sparse moss & shrub	SH1	10	M2
22	Dwarf Tree Black Spruce Scrub	feather moss & shrub	TU4	9	C2
23	Closed Tall Alder Willow Shrub	leaf litter & woody debris	TU1	6	M2
24	Closed Tall Birch Shrub	shrubs	SH3	6	M1
25	Tall Shrub Swamp	herbaceous, shrub & leaf litter	SH1	1	O1A
26	Open Tall Willow Alder Shrub	grass & shrub litter	TU1	5	M2
27	Open Tall Birch/Birch-Willow Shrub	shrubs	SH3	5	M1
28	Closed Low Birch/Birch-Willow/Ericaceous Shrub	shrub	SH2	5	M1

AWFCG Endorsed Alaska Fuel Model Crosswalk - CONDENSED version

Guidebook Group Number	Description	Primary Carrier of Fire	Fuel Model		
			40	13	CFFDR S
29	Closed Low Willow/Alder-Willow Shrub	grasses	TU1	6	M2
30	Open Low Mixed Shrub-Sedge Tussock Tundra/Bog	tussocks	GR2	1	O1
31	Open Low Birch-Ericaceous Shrub/Bog	grass & dwarf birch	GR3	1	O1
32	Open Low Birch-Willow/Ericaceous Shrub/Bog	grass & shrub	GR2	1	O1
33	Open Low Willow/Sweetgale	herbaceous	GR1	1	O1A
34	Open Low Alder/Alder-Willow Shrub	grass & low shrubs	GS1	1	O1
35	Sagebrush-Juniper	juniper	SH2	8	O1A
36	Sagebrush-Grass	grass & shrub	GS1	2	O1
37	Dwarf Shrub Tundra	herbaceous & low shrub	GR1	1	O1A
38	Elymus	grass	SH4	8	O1A
39	Grass-Shrub	short grass	GR2	1	O1
40	Grass-Herb	short grass & herbaceous	GR1	1	O1A
41	Bluejoint Meadow	grass	GR4	3	O1
42	Bluejoint Shrub Herb	grass	GR2	1	O1
43	Tussock Tundra	tussocks	GR3	3	O1
44	Mesic Sedge-Grass-Herb Meadow Tundra	grass & herb	GR2	1	O1
45	Sedge Willow Dryas Tundra	herbaceous	GR1	1	O1A
46	Sedge-Birch Tundra	herbaceous & shrub	GR2	1	O1
47	Wet Meadow Tundra	herbaceous	GR1	1	O1A
48	Wet Sedge-Grass Meadow-Marsh	grass	GR1	1	O1A
49	Wet Sedge Meadow-Bog-Shrub	herbaceous	GR1	1	O1A
50	Dry Species - Non Burnable		NB7	99	
51	Wet Species - Non Burnable		NB6	99	
52	Mesic Forb Herbaceous		GR1	1	O1A
53	Foliose and Fruticose Lichen		GR1	1	O1A
54	Crustose Lichen		NB9	99	
55	Aquatic Herbaceous		NB8	99	
56	Downed Beetle-killed spruce	downed woody fuel	SB1	11	M4

* The NB7 fuel model is a custom model for drier vegetated areas that typically do not burn.

** The NB6 fuel model is a custom model for wet vegetated areas that typically do not burn.