A 4 4 11 ·	
Attribute	Description
VALUE	These fire behavior fuel models represent distinct distributions of fuel loadings found among surface fuel components (live and dead), size classes and fuel types. The fuel models are described by the most common fire carrying fuel type (grass, brush, timber litter or slash), loading and surface area-to-volume rati by size class and component, fuelbed depth and moisture of extinction. Further detail can be found in Scot and Burgan (2005) and Rothermel (1983).
-9999	Fill - NoData
91	NB1
92	NB2
93	NB3
98	NB8
99	NB9
101	GR1
102	GR2
103	GR3
104	GR4
105	GR5
106	GR6
107	GR7
108	GR8
109	GR9
121	GS1
122	GS2
123	GS3
124	GS4
141	SH1
142	SH2
143	SH3
144	SH4
145	SH5
146	SH6
147	SH7
148	SH8
149	SH9
161	TU1
162	TU2
163	TU3
164	TU4
165	TU5
181	TL1
182	TL2
183	TL3
184	TL4
185	TL5
186	TL6
187	TL7
188 189	TL8 TL9

Count number of pixels for the corresponding value FBFM Display attribute. FBFM Description NB1 Urban/Developed NB2 Snowlce NB3 Agricultural NB4 Open Water NB9 Barren GR1 Short, sparse dry climate grass is short, naturally or heavy grazing, predicted rate of fire spread and flame length low GR2 Low load, dry climate grass primarily grass with some small amounts of fine, dead fuel, any shrubs do not affect fire behavior GR3 Low load, very coarse, humid climate grass continuous, coarse humid climate grass, any shrubs do not affect fire behavior GR4 Moderate load, dry climate grass, continuous, dry climate grass, fuelbed depth about 2 feet GR5 Low load, humid climate grass, continuous, dry climate grass, fuelbed depth about 2 feet GR6 Moderate load, dry climate grass, understand the grass is about 3 feet high GR8 High load, continuous burnid climate grass, grass is about 3 feet high GR8 High load, continuous dry climate grass, grass is about 3 feet high GR9 Very high load, dense, tall, humid climate grass, spread rate and flame length may be extreme if grass is fully cured GR9 Very high load, dense, tall, humid climate grass, about 6 feet tall, spread rate and flame length can be extreme if grass is fully cured GR9 Very high load, dense, tall, humid climate grass, about 6 feet tall, spread rate and flame length can be length low GR9 Moderate load, dry climate grass-shrub shrub about 1 foot high, grass load low, spread rate moderate and flame length is moderate GR1 Low load, dry climate grass-shrub shrub about 1 foot high, grass load moderate, spread rate high, and flame length is moderate GR3 Moderate load, dry climate grass-shrub, heavy grass/shrub load, depth is greater than 2 feet, spread rate is high and flame length is moderate GR4 High load, humid climate grass-shrub, heavy grass/shrub load, depth is greater than 2 feet, spread rate is high and flame length is moderate GR4 High load, humid climate grass-shrub, heavy gr	202	SB2
FBFM Display attribute. FBFM Description NB1 Urban/Developed NB2 Snow/ice NB3 Agricultural NB8 Open Water NB9 Barren GR1 Short, sparse dry climate grass is short, naturally or heavy grazing, predicted rate of fire spread and flame length low direction behavior GR3 Low load, dry climate grass primarily grass with some small amounts of fine, dead fuel, any shrubs do not affect fire behavior GR4 Low load, very coarse, humid climate grass continuous, coarse humid climate grass, any shrubs do not affect fire behavior GR5 Low load, dry climate grass, continuous, dry climate grass, fuelbed depth about 2 feet GR6 Low load, humid climate grass, continuous, dry climate grass, fuelbed depth about 2 feet GR7 Low load, humid climate grass, fuelbed depth is about 1-2 feet GR8 Moderate load, continuous humid climate grass, not so coarse as GR5 GR7 High load, continuous humid climate grass, grass is about 3 feet high GR8 grass is fully cured GR9 Very high load, day, dense, tall, humid climate grass, as so but 3 feet high GR9 Very high load, day, dense, tall, humid climate grass, about 6 feet tall, spread rate and flame length can be extreme if grass is fully cured GR9 Low load, dry climate grass-shrub shrub about 1 foot high, grass load low, spread rate moderate and flame length low GR9 Moderate load, dry climate grass-shrub, shrubs are 1-3 feet high, grass load moderate, spread rate high, and flame length is moderate GR9 Moderate load, dry climate grass-shrub, horderate grass/shrub load, grass/shrub depth is less than 2 feet, spread rate is high and flame length is moderate GR9 Moderate load, humid climate grass-shrub, havy grass/shrub load, grass/shrub depth is less than 2 feet, spread rate is high and flame length is moderate GR9 Moderate load, humid climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, may be some grass, spread rate and flame low SH9 Moderate load, humid climate shrub, woody shrubs and shrub litter, foense shrubs, little or no herbaceous fuel, depth about 2 feet,		
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GR5 Low load, humid climate grass, fuelbed depth is about 1-2 feet GR6 Moderate load, continuous humid climate grass, not so coarse as GR5 GR7 High load, continuous dry climate grass, grass is about 3 feet high GR8 High load, very coarse, continuous, humid climate grass, spread rate and flame length may be extreme if grass is fully cured GR9 Very high load, dense, tall, humid climate grass, about 6 feet tall, spread rate and flame length can be extreme if grass is fully cured Low load, dry climate grass-shrub shrub about 1 foot high, grass load low, spread rate moderate and flame length low GS2 Moderate load, dry climate grass-shrub, shrubs are 1-3 feet high, grass load moderate, spread rate high, and flame length is moderate GS3 Moderate load, humid climate grass-shrub, moderate grass/shrub load, grass/shrub depth is less than 2 feet, spread rate is high and flame length is moderate GS4 High load, humid climate grass-shrub, heavy grass/shrub load, depth is greater than 2 feet, spread rate is high and flame length very high Low load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, may be some grass, spread rate and flame low SH2 Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low SH3 Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth about 3 feet, spread rate and flame low SH4 Low load, humid climate timber shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, very heavy shrub	GR3	Low load, very coarse, humid climate grass continuous, coarse humid climate grass, any shrubs do not affect fire behavior
GR6 Moderate load, continuous humid climate grass, not so coarse as GR5 GR7 High load, continuous dry climate grass, grass is about 3 feet high GR8 High load, very coarse, continuous, humid climate grass, spread rate and flame length may be extreme if grass is fully cured GR9 Very high load, dense, tall, humid climate grass, about 6 feet tall, spread rate and flame length can be extreme if grass is fully cured GR1 Low load, dry climate grass-shrub shrub about 1 foot high, grass load low, spread rate moderate and flame length low GR2 Moderate load, dry climate grass-shrub, shrubs are 1-3 feet high, grass load moderate, spread rate high, and flame length is moderate GR3 Moderate load, humid climate grass-shrub, moderate grass/shrub load, grass/shrub depth is less than 2 feet, spread rate is high and flame length is moderate GR4 High load, humid climate grass-shrub, heavy grass/shrub load, depth is greater than 2 feet, spread rate is high and flame length very high SH1 Low load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, may be some grass, spread rate and flame low Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth 2-3 feet, spread rate and flame low SH3 Moderate load, humid climate shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub iliter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame high Low load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high	GR4	Moderate load, dry climate grass, continuous, dry climate grass, fuelbed depth about 2 feet
GR7 High load, continuous dry climate grass, grass is about 3 feet high GR8 High load, very coarse, continuous, humid climate grass, spread rate and flame length may be extreme if grass is fully cured GR9 Very high load, dense, tall, humid climate grass, about 6 feet tall, spread rate and flame length can be extreme if grass is fully cured Low load, dry climate grass-shrub shrub about 1 foot high, grass load low, spread rate moderate and flame length low Moderate load, dry climate grass-shrub, shrubs are 1-3 feet high, grass load moderate, spread rate high, and flame length is moderate GS3 Moderate load, humid climate grass-shrub, moderate grass/shrub load, grass/shrub depth is less than 2 feet, spread rate is high and flame length is moderate GS4 High load, humid climate grass-shrub, heavy grass/shrub load, depth is greater than 2 feet, spread rate is high and flame length very high SH1 Low load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, may be some grass, spread rate and flame low Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low Moderate load, humid climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low SH3 Moderate load, humid climate shrub, woody shrubs and shrub litter, fow to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH4 Low load, humid climate timber shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub litter and woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Low load, humid climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and sh	GR5	Low load, humid climate grass, fuelbed depth is about 1-2 feet
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grass is fully cured Very high load, dense, tall, humid climate grass, about 6 feet tall, spread rate and flame length can be extreme if grass is fully cured GS1 Low load, dry climate grass-shrub shrub about 1 foot high, grass load low, spread rate moderate and flame length low GS2 Moderate load, dry climate grass-shrub, shrubs are 1-3 feet high, grass load moderate, spread rate high, and flame length is moderate GS3 Moderate load, humid climate grass-shrub, moderate grass/shrub load, grass/shrub depth is less than 2 feet, spread rate is high and flame length is moderate GS4 High load, humid climate grass-shrub, heavy grass/shrub load, depth is greater than 2 feet, spread rate is high and flame length very high SH1 Low load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, may be some grass, spread rate and flame low SH2 Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low SH3 Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth 2-3 feet, spread rate and flame low SH4 Low load, humid climate timber shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction high SH6 Low load, humid climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate somewhat lower than SH6 and flame very high	GR7	High load, continuous dry climate grass, grass is about 3 feet high
extreme if grass is fully cured GS1 Low load, dry climate grass-shrub shrub about 1 foot high, grass load low, spread rate moderate and flame length low GS2 Moderate load, dry climate grass-shrub, shrubs are 1-3 feet high, grass load moderate, spread rate high, and flame length is moderate GS3 Moderate load, humid climate grass-shrub, moderate grass/shrub load, grass/shrub depth is less than 2 feet, spread rate is high and flame length is moderate GS4 High load, humid climate grass-shrub, heavy grass/shrub load, depth is greater than 2 feet, spread rate is high and flame length very high SH1 Low load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, may be some grass, spread rate and flame low SH2 Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low SH3 Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth 2-3 feet, spread rate and flame low SH4 Low load, humid climate timber shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction high SH6 Low load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame very high	GR8	
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spread rate is high and flame length is moderate GS4 High load, humid climate grass-shrub, heavy grass/shrub load, depth is greater than 2 feet, spread rate is high and flame length very high Low load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, may be some grass, spread rate and flame low Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low SH3 Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth 2-3 feet, spread rate and flame low SH4 Low load, humid climate timber shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction high SH6 Low load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, spread rate somewhat lower than SH6 and flame very high	GS2	Moderate load, dry climate grass-shrub, shrubs are 1-3 feet high, grass load moderate, spread rate high, and flame length is moderate
high and flame length very high Low load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, may be some grass, spread rate and flame low Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low SH3 Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth 2-3 feet, spread rate and flame low SH4 Low load, humid climate timber shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction high SH6 Low load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, spread rate somewhat lower than SH6 and flame very high	GS3	Moderate load, humid climate grass-shrub, moderate grass/shrub load, grass/shrub depth is less than 2 feet, spread rate is high and flame length is moderate
SH2 Spread rate and flame low SH2 Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low SH3 Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth 2-3 feet, spread rate and flame low SH4 Low load, humid climate timber shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction high SH6 Low load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel,	GS4	
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SH4 Low load, humid climate timber shrub, woody shrubs and shrub litter, low to moderate load, possible pine overstory, fuelbed depth about 3 feet, spread rate high and flame moderate SH5 High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction high SH6 Low load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high SH7 Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel,	SH2	Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low
overstory, fuelbed depth about 3 feet, spread rate high and flame moderate High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction high Low load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel,	SH3	Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth 2-3 feet, spread rate and flame low
very high, moisture extinction high SH6 Low load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 2 feet, spread rate and flame high Very high load, dry climate shrub, woody shrubs and shrub litter, very heavy shrub load, depth 4-6 feet, spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel,	SH4	
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spread rate somewhat lower than SH6 and flame very high High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel,	SH6	
I SHX I *	SH7	
	SH8	

	Vary high load, humid climate chrub, woody chrubs and abrub litter, dense finally branched abrubs with fine
SH9	Very high load, humid climate shrub, woody shrubs and shrub litter, dense finely branched shrubs with fine dead fuel, 4-6 feet tall, herbaceous may be present, spread rate and flame high
TU1	Low load dry climate timber grass shrub, low load of grass and/or shrub with litter, spread rate and flame lo
TU2	Moderate load, humid climate timber-shrub, moderate litter load with some shrub, spread rate moderate at flame low
TU3	Moderate load, humid climate timber grass shrub, moderate forest litter with some grass and shrub, sprearate high and flame moderate
TU4	Dwarf conifer with understory, short conifer trees with grass or moss understory, spread rate and flame moderate
TU5	Very high load, dry climate timber shrub, heavy forest litter with shrub or small tree understory, spread rate and flame moderate
TL1	Low load compact conifer litter, compact forest litter, light to moderate load, 1-2 inches deep, may represe a recent burn, spread rate and flame low
TL2	Low load broadleaf litter, broadleaf, hardwood litter, spread rate and flame low
TL3	Moderate load conifer litter, moderate load conifer litter, light load of coarse fuels, spread rate is very low a flame low
TL4	Small downed logs moderate load of fine litter and coarse fuels, small diameter downed logs, spread rate and flame low
TL5	High load conifer litter, light slash or dead fuel, spread rate and flame low
TL6	Moderate load broadleaf litter, spread rate and flame moderate
TL7	Large downed logs, heavy load forest litter, larger diameter downed logs, spread rate and flame low
TL8	Long needle litter, moderate load long needle pine litter, may have small amounts of herbaceous fuel, spre rate moderate and flame low
TL9	Very high load broadleaf litter, may be heavy needle drape, spread rate and flame moderate
SB1	Low load activity fuel, light dead and down activity fuel, fine fuel is 10-20 t/ac, 1-3 inches in diameter, dept 1 foot, spread rate moderate and flame low
SB2	Moderate load activity fuel or low load blowdown, 7-12 t/ac, 0-3 inch diameter class, depth about 1 foot, blowdown scattered with many still standing, spread rate moderate and flame low
SB3	High load activity fuel or moderate load blowdown, heavy dead down activity fuel or moderate blowdown, 12 t/ac, 025 inch diameter class, depth > 1 foot, blowdown moderate trees compacted to near the ground spread rate and flame high
SB4	High load blowdown, heavy blowdown fuel, blowdown is total fuelbed not compacted, foliage and fine fuel attached to blowdown, spread rate and flame very high
	In take at a second one
R	Red color value range 0 - 255
G	Green color value range 0 - 255
В	Blue color value range 0 - 255
RED	Red color value range 0 - 1
GREEN	Green color value range 0 - 1
BLUE	Blue color value range 0 - 1