

LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary

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 ratio by size class and component, fuelbed depth and moisture of extinction. Further detail can be found in Scott and Burgan (2005) and Rothermel (1983).
-9999	Fill - NoData
91	NB1 - Urban/Developed
92	NB2 - Snow/Ice
93	NB3 - Agricultural
98	NB8 - Open Water
99	NB9 - Barren
101	GR1 - Short, sparse dry climate grass is short, naturally or heavy grazing, predicted rate of fire spread and flame length low
102	GR2 - Low load, dry climate grass primarily grass with some small amounts of fine, dead fuel, any shrubs do not affect fire behavior
103	GR3 - Low load, very coarse, humid climate grass continuous, coarse humid climate grass, any shrubs do not affect fire behavior
104	GR4 - Moderate load, dry climate grass, continuous, dry climate grass, fuelbed depth about 2 feet
105	GR5 - Low load, humid climate grass, fuelbed depth is about 1-2 feet
106	GR6 - Moderate load, continuous humid climate grass, not so coarse as GR5
107	GR7 - High load, continuous dry climate grass, grass is about 3 feet high
108	GR8 - High load, very coarse, continuous, humid climate grass, spread rate and flame length may be extreme if grass is fully cured
109	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
121	GS1 - Low load, dry climate grass-shrub shrub about 1 foot high, grass load low, spread rate moderate and flame length low
122	GS2 - Moderate load, dry climate grass-shrub, shrubs are 1-3 feet high, grass load moderate, spread rate high, and flame length is moderate

Attribute	Description
123	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
124	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
141	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
142	SH2 - Moderate load dry climate shrub, woody shrubs and shrub litter, fuelbed depth about 1 foot, no grass, spread rate and flame low
143	SH3 - Moderate load, humid climate shrub, woody shrubs and shrub litter, possible pine overstory, fuelbed depth 2-3 feet, spread rate and flame low
144	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
145	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
146	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
147	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
148	SH8 - High load, humid climate shrub, woody shrubs and shrub litter, dense shrubs, little or no herbaceous fuel, depth about 3 feet, spread rate and flame high
149	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
161	TU1 - Low load dry climate timber grass shrub, low load of grass and/or shrub with litter, spread rate and flame low
162	TU2 - Moderate load, humid climate timber-shrub, moderate litter load with some shrub, spread rate moderate and flame low
163	TU3 - Moderate load, humid climate timber grass shrub, moderate forest litter with some grass and shrub, spread rate high and flame moderate
164	TU4 - Dwarf conifer with understory, short conifer trees with grass or moss understory, spread rate and flame moderate
165	TU5 - Very high load, dry climate timber shrub, heavy forest litter with shrub or small tree understory, spread rate and flame moderate

Attribute	Description
181	TL1 - Low load compact conifer litter, compact forest litter, light to moderate load, 1-2 inches deep, may represent a recent burn, spread rate and flame low
182	TL2 - Low load broadleaf litter, broadleaf, hardwood litter, spread rate and flame low
183	TL3 - Moderate load conifer litter, moderate load conifer litter, light load of coarse fuels, spread rate is very low and flame low
184	TL4 - Small downed logs moderate load of fine litter and coarse fuels, small diameter downed logs, spread rate and flame low
185	TL5 - High load conifer litter, light slash or dead fuel, spread rate and flame low
186	TL6 - Moderate load broadleaf litter, spread rate and flame moderate
187	TL7 - Large downed logs, heavy load forest litter, larger diameter downed logs, spread rate and flame low
188	TL8 - Long needle litter, moderate load long needle pine litter, may have small amounts of herbaceous fuel, spread rate moderate and flame low
189	TL9 - Very high load broadleaf litter, may be heavy needle drape, spread rate and flame moderate
201	SB1 - Low load activity fuel, light dead and down activity fuel, fine fuel is 10-20 t/ac, 1-3 inches in diameter, depth < 1 foot, spread rate moderate and flame low
202	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
203	SB3 - High load activity fuel or moderate load blowdown, heavy dead down activity fuel or moderate blowdown, 7-12 t/ac, 0-.25 inch diameter class, depth > 1 foot, blowdown moderate trees compacted to near the ground, spread rate and flame high
204	SB4 - High load blowdown, heavy blowdown fuel, blowdown is total fuelbed not compacted, foliage and fine fuel still attached to blowdown, spread rate and flame very high
R	Red color value range 0 - 255
G	Green color value range 0 - 255
B	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