

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 - 204	NB, GR, SH, TU, TL, or SB.
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
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, 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
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
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
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
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 low
TU2	Moderate load, humid climate timber-shrub, moderate litter load with some shrub, spread rate moderate and flame low
TU3	Moderate load, humid climate timber grass shrub, moderate forest litter with some grass and shrub, spread rate 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 represent 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 and 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, spread 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, depth < 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, 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
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