LANDFIRE Fire Behavior Fuel Model 40 Data Dictionary Enumerated					
Attribute	Description	Value	Enumerated Value Description		
	1				
	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).	91	NB1		
		92	NB2		
Value		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		
		145 146	SH5 SH6		
		146	SH0 SH7		
		147	SH8		
		140	SH9		
		149	TU1		
		162	TU2		
		163	TU3		
		164	TU4		
		165	TU5		
		181	TL1		
		182	TL2		
		183	TL3		
		183	TL4		
		185	TL5		
		186	TL6		
		187	TL7		
		188	TL8		
		189	TL9		
		201	SB1		
		202	SB2		
		203	SB3		
		204	SB4		
ount	number of pixels for the corresponding value				

FM13 display attribute, fire behavior 40 fuel model	NB1	Urban
	NB2	Snow/Ice
	NB3	Agriculture
	NB8	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 higl 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 fla 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 de about 3 feet, spread rate high and flame moderate
	SH5	High load, humid climate grass-shrub combined, heavy load with depth greater than 2 feet, spread rate and flame very 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 t 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 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, spre 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 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			
		I LO	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 and flame low			
		SB3	High load activity fuel or moderate load blowdown, heavy dead down activity fuel or moderate blowdown, 7-12t/ac, 025 inch			
			diameter class, depth > 1 foot, blowdown moderate, spread rate and flame high			
		SB4	High load blowdown, heavy blowdown fuel, blowdown total, foliage and fine fuel still attached to blowdown, spread rate and flame			
			very high			
Red	Red color value/255	0 -1				
Green	Green color value/255	0-1				
Blue	Blue color value/255	0-1				
For more information, refer to: http://www.fs.fed.us/rm/pubs/rmrs_gtr153.pdf						