	LANDFIRE Fuel Loading Models Data Dictionary		
Attribute	Description	Enumerated Value	Enumerated Value Description
		11	Light FWD, light to no duff
	The LANDFIRE fuel loading model (FLM)	12	Moderate FWD, light litter
	classification system is based on unique sets of	13	Moderate FWD, light to moderate litter, light duff
	fuel characteristics that simplify the input of fuel loadings into fire effects models. A fuelbed is defined as all combustible material below two meters (six feet) and above mineral soil. These fuels are commonly referred to as surface fuels and include live and dead herbaceous and shrub material, down woody material, duff, and	14	Shrub_Sagebrush with low total load
		15	Shrub_Non-sagebrush with low total load
		21	Light logs, light duff
		31	Moderate litter, light duff, light logs
		41	Moderate FWD, light to moderate litter
		51	Moderate duff, light logs
Value		53	Shrub_Sagebrush with medium total load
		54	Shrub_Non-sagebrush with medium total load
		61	Moderate to very heavy logs, light duff
	maximum surface soil heating and total PM2.5	62	Moderate duff, light logs, light litter
		63	Moderate duff, light to heavy logs, light litter
	emissions. FLMs incorporate the inherent variability of fuel loading across and within fuel	64	Moderate to heavy duff, light to heavy logs
		65	Shrub_Sagebrush with high total load
	components and the resolution of a fire effects	66	Shrub_Non-sagebrush with high total load
	prediction model at the plot scale.	71	Moderate to heavy logs, light duff
		72	Moderate duff, light to moderate logs, moderate litter
		81	Very heavy logs, light duff
		82	Moderate duff, light to heavy logs, moderate litter
		83	Heavy to very heavy logs, moderate duff
		91	Heavy duff light to heavy logs
		92	Very heavy logs
		93	Heavy duff, heavy to very heavy logs
		101	Very heavy duff
		102	Heavy litter, light duff, light logs
		511	Herb - Grassland high total load
		521	Herb - Grassland low total load
		523	Herb - Grassland low total load, reduced
		701	High Duff and Litter, High Fine Wood, High Log, Low Herb, High Shrub Loading
		702	High Duff and Litter, High Fine Wood, Mod to High Log, Low Herb, Low - High Shrub Loading
		703	High Duff and Litter, Mod Fine Wood, Low Log, Low Herb , Mod Shrub Loading
		704	High Duff and Litter, No Fine wood, No Log, High Herb, No Shrub Loading
		705	High Duff and Litter, Mod Fine Wood, Low Log, Low Herb, High Shrub Loading
		706	High Duff and Litter, Low Fine Wood, High Log, Low Herb, High Shrub Loading
		707	Mod Duff and Litter, No Fine Wood, No Log, Low Herb, High Shrub Loading
		709	High Duff and Litter, Mod Fine Wood, Low Log, No Herb, Mod Shrub Loading
		710	High Duff and Litter, Mod Fine Wood, Low Log, High Herb, Mod Shrub Loading
		712	Low Duff and Litter, Mod-High Fine Wood, Mod Logs, Mod Herb, High Shrub Loading
		713	High Duff and Litter, Mod-High Fine Wood, Mod-High Logs, Low-Mod Herb, High Shrub Loading
		714	Low Duff and Litter, No Fine Wood, No Logs, Low Herb, High Shrub Loading
		715	Low Duff and Litter, Low Fine Wood, Nov Logs, Mod Herb, High Shrub Loading
		716	Low Duff and Litter, High Fine Wood, Low Logs, Low Herb, High Shrub Loading
		717	Low Duff and Litter, High Fine Wood, None-Low Logs, Low Heib, High Shrub Loading
		718	No Duff and Litter, High Fine Wood, No Logs, Mod Herb, High Shrub Loading
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719	Low Duff and Litter, Low Fine Wood, Low Logs, Low Herb, High Shrub Loading		
720	No Duff and Litter, Low-Mod Fine Wood, Low Logs, Mod-High Herb, High Shrub Loading		
722	No Duff and Litter, None-Low Fine Wood, No Logs, Mod-High Herb, No Shrub Loading		
726	None-Low Duff and Litter, Low-Mod Fine Wood, No Logs, Low-Mod Herb, None-Low Shrub Loading		
731	Mod Duff and Litter, Mod Fine Wood, Mod Log, Low Herb, Mod Shrub Loading		
732	Mod Duff and Litter, No Fine wood, No Log, Mod Herb, No Shrub Loading		
733	Mod Duff and Litter, Low Fine Wood, Low Log, No Herb, Low Shrub		
734	Mod Duff and Litter, Low Fine Wood, Low Log, Mod Herb, Low Shrub		
741	Low Duff and Litter, Low Fine Wood, Low Log, Low Herb, Low Shrub Loading		
742	Low Duff and Litter, No Fine Wood, No Log, Low Herb, No Shrub Loading		
743	Low Duff and Litter, No Fine Wood, No Log, Low Herb, Low Shrub Loading		
744	Low Duff and Litter, Mod Fine Wood, Low Log, Low Herb, Mod Shrub Loading		
751	No Duff and Litter, Mod Fine Wood, No Logs, Low Herb, Mod Shrub Loading		
752	No Duff and Litter, Low Fine Wood, Low Logs, Low Herb, Mod Shrub Loading		
753	No Duff and Litter, Low Fine Wood, No Logs, Low Herb, No Shrub Loading		
900	Unclassified Sparsely Vegetated Systems		
901	Unclassified Forest and Woodland		
902	Unclassified Shrubland		
903	Unclassified Upland Herbaceous		
904	Unclassified Savanna		
905	Unclassified Shrub-Steppe		
906	Unclassified Grassland		
907	Unclassified Wetland-Riparian Herbaceous		
911	Open Water		
912	Snow/lce		
913	Developed-Upland Deciduous Forest		
914	Developed-Upland Evergreen Forest		
915	Developed-Upland Mixed Forest		
916	Developed-Upland Herbaceous		
917	Developed-Upland Shrubland		
918	Developed-Herbaceous Wetland Vegetation		
919	Developed-Woody Wetland Vegetation		
920	Developed-General		
921	Developed-Open Space		
922	Developed-Low Intensity		
923	Developed-Medium Intensity		
924	Developed-High Intensity		
925	Developed-Roads		
931	Barren		
932	Quarries-Strip Mines-Gravel Pits		
933	Sparsely Vegetated		
952	Introduced Upland Vegetation-Shrub		
954	Introduced Upland Vegetation-Annual and Perennial Grassland and Forbland		
958	Introduced Riparian Vegetation		
960	NASS-Orchard		
961	NASS-Vineyard		
962	NASS-Bush fruit and berries		
963	NASS-Row Crop-Close Grown Crop		
964	NASS-Row Crop		

1		0.07	
		965	NASS-Close Grown Crop
		966	NASS-Fallow/Idle Cropland
		967	NASS-Pasture and Hayland
		975	Herbaceous Semi-dry
		976	Herbaceous Semi-wet
		978	Recently Disturbed Forest
		980	Agriculture-General
		981	Agriculture-Pasture and Hay
		982	Agriculture-Cultivated Crops and Irrigated Agriculture
		983	Agriculture-Small Grains
		984	Agriculture-Fallow
		985	Agriculture-Urban and Recreational Grasses
		995	Herbaceous Wetlands
		995	Herbaceous Wellands
Orwert	number of size of for the corresponding such		
Count	number of pixels for the corresponding value		
Grp	FLM classes that produce similar ranges of	Effects Group 1	Wispy_Cool_Sparse
	particulate emissions and soil heating	Effects Group 2	Wispy_Warm_Light
		Effects Group 3	Wispy_Hot_Moderate
		Effects Group 4	Wispy_Very Hot_Light
		Effects Group 5	Wispy_Cool_Moderate
		Effects Group 6	Hazy_Warm_Moderate to Heavy
		Effects Group 7	Wispy to Hazy_Hot_Moderate
		Effects Group 8	Hazy_Warm to Hot_Heavy
		Effects Group 9	Smokey_Cool to Hot_Very Heavy
		Effects Group 10	Smokey_Cool_Very Heavy
		Effects Group 500	Wispy_Cool_Sparse
		Ellects Gloup 500	Wispy_cool_sparse
GrpDesc	Group description		Low PM2.5 particulate emissions
Gippesc	Group description		(<0.22 T acre–1)
		Wiener Oral Orange	
		Wispy_Cool_Sparse	<212 °F surface soil temperature
			Low PM2.5 particulate emissions
			(<0.33 T acre-1)
		Wispy_Warm_Light	212 to 392 °F surface soil temperature
			Low PM2.5 particle emissions
			(<0.33 T acre–1)
		Wispy_Hot_Moderate	392 to 662 °F surface soil temperature
			Low PM2.5 particulate emissions(<
			0.33 T acre-1)
			752 to 1112 °F surface soil
		Wispy_Very Hot_Light	temperature
			Low PM2.5 particulate emissions
			(0.22 to 0.45 T acre–1)
		Wieny Cool Mederate	
		Wispy_Cool_Moderate	<302 °F surface soil temperature
			PM2.5 particulate emissions 0.45
			to 0.81 T acre-1
		Hazy_Warm_Moderate to Heavy	<392 °F surface soil temperature

			Low PM2.5 particulate emissions
			(0.22 to 0.56
			T acre-1)
		Wispy to Hazy_Hot_Moderate	347 to 572 °F surface soil temperature
			PM2.5 particulate emissions 0.56
			to 0.89 T acre–1
		Hazy_Warm to Hot_Heavy	212 to 752 °F surface soil temperature
			PM2.5 particulate emissions 0.89
			to 2.23 T acre–1
		Smokey_Cool to Hot_Very Heavy	<572 °F surface soil temperature
			PM2.5 particulate emissions
			>2.23 T acre-1
		Smokey_Cool_Very Heavy	Most < 212 °F soil temp
Code	Fuel loading model code	FLM011	Light FWD, light to no duff
		FLM012	Moderate FWD, light litter
		FLM013	Moderate FWD, light to moderate litter, light duff
		FLM014	Shrub_Sagebrush with low total load
		FLM015	Shrub_Non-sagebrush with low total load
		FLM021	Light logs, light duff
		FLM031	Moderate litter, light duff, light logs
		FLM041	Moderate FWD, light to moderate litter
		FLM051	Moderate duff, light logs
		FLM053	Shrub_Sagebrush with medium total load
		FLM054	Shrub_Non-sagebrush with medium total load
		FLM061	Moderate to very heavy logs, light duff
		FLM062	Moderate duff, light logs, light litter
		FLM063	Moderate duff, light to heavy logs, light litter
		FLM064	Moderate to heavy duff, light to heavy logs
		FLM065	Shrub_Sagebrush with high total load
		FLM066	Shrub_Non-sagebrush with high total load
		FLM071	Moderate to heavy logs, light duff
		FLM072	Moderate duff, light to moderate logs, moderate litter
		FLM081	Very heavy logs, light duff
		FLM082	Moderate duff, light to heavy logs, moderate litter
		FLM083	Heavy to very heavy logs, moderate duff
		FLM091	Heavy duff ,light to heavy logs
		FLM092	Very heavy logs
		FLM093	Heavy duff, heavy to very heavy logs
		FLM101	Very heavy duff
		FLM102	Heavy litter, light duff, light logs
		FLM511	Herb - Grassland high total load
		FLM521	Herb - Grassland low total load
		FLM523	Herb - Grassland low total load, reduced
		FLM701	High Duff and Litter, High Fine Wood, High Log, Low Herb, High Shrub Loading
		FLM702	High Duff and Litter, High Fine Wood, Mod to High Log, Low Herb, Low - High Shrub Loading
		FLM703	High Duff and Litter, Mod Fine Wood, Low Log, Low Herb, Mod Shrub Loading
		FLM704	High Duff and Litter, No Fine wood, No Log, High Herb, No Shrub Loading
1		FLM705	High Duff and Litter, Mod Fine Wood, Low Log, Low Herb, High Shrub Loading

1		FLM706	High Duff and Litter Low Fine Wood High Log Low Harb High Shrub Looding
			High Duff and Litter, Low Fine Wood, High Log, Low Herb, High Shrub Loading
		FLM707 FLM709	Mod Duff and Litter, No Fine Wood, No Log, Low Herb, High Shrub Loading
			High Duff and Litter, Mod Fine Wood, Low Log, No Herb, Mod Shrub Loading
		FLM710	High Duff and Litter, Mod Fine Wood, Low Log, High Herb, Mod Shrub Loading
		FLM712	Low Duff and Litter, Mod-High Fine Wood, Mod Logs, Mod Herb, High Shrub Loading
		FLM713	High Duff and Litter, Mod-High Fine Wood, Mod-High Logs, Low-Mod Herb, High Shrub Loading
		FLM714	Low Duff and Litter, No Fine Wood, No Logs, Low Herb, High Shrub Loading
		FLM715	Low Duff and Litter, Low Fine Wood, Low Logs, Mod Herb, High Shrub Loading
		FLM716	Low Duff and Litter, High Fine Wood, Low Logs, Low Herb, High Shrub Loading
		FLM717	Low Duff and Litter, High Fine Wood, None-Low Logs, Low Herb, High Shrub Loading
		FLM718	No Duff and Litter, High Fine Wood, No Logs, Mod Herb, High Shrub Loading
		FLM719	Low Duff and Litter, Low Fine Wood, Low Logs, Low Herb, High Shrub Loading
		FLM720	No Duff and Litter, Low-Mod Fine Wood, Low Logs, Mod-High Herb, High Shrub Loading
		FLM722	No Duff and Litter, None-Low Fine Wood, No Logs, Mod-High Herb, No Shrub Loading
		FLM726	None-Low Duff and Litter, Low-Mod Fine Wood, No Logs, Low-Mod Herb, None-Low Shrub Loading
		FLM731	Mod Duff and Litter, Mod Fine Wood, Mod Log, Low Herb, Mod Shrub Loading
		FLM732	Mod Duff and Litter, No Fine wood, No Log, Mod Herb, No Shrub Loading
		FLM733	Mod Duff and Litter, Low Fine Wood, Low Log, No Herb, Low Shrub
		FLM734	Mod Duff and Litter, Low Fine Wood, Low Log, Mod Herb, Low Shrub
		FLM741	Low Duff and Litter, Low Fine Wood, Low Log, Low Herb, Low Shrub Loading
		FLM742	Low Duff and Litter, No Fine Wood, No Log, Low Herb, No Shrub Loading
		FLM743	Low Duff and Litter, No Fine Wood, No Log, Low Herb, Low Shrub Loading
		FLM744	Low Duff and Litter, Mod Fine Wood, Low Log, Low Herb, Mod Shrub Loading
		FLM751	No Duff and Litter, Mod Fine Wood, No Logs, Low Herb, Mod Shrub Loading
		FLM752	No Duff and Litter, Low Fine Wood, Low Logs, Low Herb, Mod Shrub Loading
		FLM753	No Duff and Litter, Low Fine Wood, No Logs, Low Herb, No Shrub Loading
Litter	Fuel component litter measurement	numeric value	tons per acre
Duff	Fuel component duff measurement	numeric value	tons per acre
OneHr	Fuel component 1 hour fuel measurement	numeric value	tons per acre
TenHr	Fuel component 10 hour fuel measurement	numeric value	tons per acre
HunHr	Fuel component 100 hour fuel measurement	numeric value	tons per acre
ThouHr	Fuel component 1000 hour fuel measurement	numeric value	tons per acre
Herb	Fuel component herbaceous fuel measurement	numeric value	tons per acre
Shrub	Fuel component shrub fuel measurement	numeric value	tons per acre
Red	Red color value/255	0 -1	
Green	Green color value/255	0-1	
		·	
Blue	Blue color value/255	0-1	
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For more information, refer to: http://www.fs.fed.us/rm/pubs/rmrs\_gtr225.pdf