May 2019

Fuel Ruleset Database Data Dictionary

Master Fuel Ruleset Database	
This is an intermediate product of fuel layer production. It consists of a compilation of all surface fuel rulesets for disturbed and non-disturbed Existing Vegetation Types for CONUS, AK, and HI in Microsoft Access Database format. The data can be sorted by existing vegetation or by disturbance (type, severity, or time since). The data can also be filtered by LANDFIRE (LF) map zone and provides information on how the fuel models are assigned vegetation type, cover, and height, as well as whether canopy is available for crown fire activity.	
EVT	Processing variable in fuel rulesets. LF Existing Vegetation Type (EVT_Fuel—EVT_Fuel_Name). Designation of vegetation type currently occupying a particular area.
Map Zone	LF Map Zone processing unit for fuel rulesets
Range of Cover	Processing variable in fuel rulesets -- Existing Vegetation Cover (EVC)
Range of Height	Processing variable in fuel rulesets -- Existing Vegetation Height (EVH)
BPS	Processing variable in fuel rulesets -- Biophysical Setting
FM13	Fire Behavior Fuel Model 13 (Anderson, 1982) the assignment (value) is made from the fuel rule variables
FM40	Fire Behavior Fuel Model 40 (Scott and Burgan 2005) the assignment (value) is made from the fuel rule variables
CanFM	Canadian Forest Fire Danger Rating System (CFFDRS) Fuel Type the assignment (value) is made from the fuel rule variable
CG	Canopy Guide. Designates whether tree canopy is available for crown fire activity. 0 = no tree canopy considered 1= tree canopy with canopy base height and canopy bulk density calculated and available for crown fire activity. 2 = The canopy base height and canopy bulk density are artificially set to a point where crown fire (passive, active, or conditional) will not be simulated 3 =Tree canopy with canopy base height are artificially set to a low canopy bulk density where active or conditional crown fire will not be simulated

tblDist_Code

This table contains primary filter for disturbance type, severity, and time since disturbance.

Disturbance code/type severity/time since disturbance	Description
0 Not Disturbed None TS0	Filters fuel rulesets by area that have not been disturbed over the previous 10 years
112 Fire Low Severity TS2	Filters fuel rulesets by areas that have been disturbed by low severity fire (0- 25% above ground mortality) within the past 10 years. Fuel model transition based on 2 growing seasons post disturbance
113 Fire Low Severity TS3	Filters fuel rulesets by areas that have been disturbed by low severity fire (0- 25% above ground mortality) within the past 10 years. Fuel model transition based on 7 years post disturbance
122 Fire Moderate Severity TS2	Filters fuel rulesets by areas that have been disturbed by moderate severity fire (25 – 75% above ground mortality) within the past 10 years. Fuel model transition based on 2 growing seasons post disturbance
123 Fire Moderate Severity TS3	Filters fuel rulesets by areas that have been disturbed by moderate severity fire (25 – 75% above ground mortality) within the past 10 years. Fuel model transition based on 7 years post disturbance
132 Fire High Severity TS2	Filters fuel rulesets by areas that have been disturbed by high severity fire (> 75% mortality) within the past 10 years. Fuel model transition based on 2 growing seasons post disturbance
133 Fire High Severity TS3	Filters fuel rulesets by areas that have been disturbed by high severity fire (> 75% mortality) within the past 10 years. Fuel model transition based on 7 years post disturbance
212 Mechanical Add Loading Low Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity mechanical treatment that does not remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance
213 Mechanical Add Loading Low Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity mechanical treatment that does not remove fuel from the site. Fuel model transition based on 7 years post disturbance
222 Mechanical Add Loading Moderate Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity mechanical treatment that does not remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance

223 Mechanical Add Loading Moderate Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity mechanical treatment that does not remove fuel from the site. Fuel model transition based on 7 years post disturbance
232 Mechanical Add Loading High Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity mechanical treatment that does not remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance
233 Mechanical Add Loading High Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity mechanical treatment that does not remove fuel from the site. Fuel model transition based on 7 years post disturbance
312 Mechanical Remove Loading Low Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance
313 Mechanical Remove Loading Low Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 7 years post disturbance
322 Mechanical Remove Loading Moderate Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance
323 Mechanical Remove Loading Moderate Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 7 years post disturbance
332 Mechanical Remove Loading High Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance
333 Mechanical Remove Loading High Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 7 years post disturbance
412 Wind Event Low Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity wind event in treed EVT's that generally adds surface fuel to the site. Fuel model transition based on 2 growing seasons post disturbance
413 Wind Event Low Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity wind event in treed EVT's that generally adds surface fuel to the site. Fuel model transition based on 7 years post disturbance

422 Wind Event Moderate Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity wind event in treed EVT's that generally adds surface fuel to the site. Fuel model transition based on 2 growing seasons post disturbance
423 Wind Event Moderate Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity wind event in treed EVT's that generally adds surface fuel to the site. Fuel model transition based on 7 years post disturbance
432 Wind Event High Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity wind event in treed EVT's that generally adds surface fuel to the site. Fuel model transition based on 2 growing seasons post disturbance
433 Wind Event High Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity wind event in treed EVT's that generally adds surface fuel to the site. Fuel model transition based on 7 years post disturbance
512 Insects and Disease Low Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity insect and/or disease disturbance. Fuel model transition based on 2 growing seasons post disturbance.
513 Insects and Disease Low Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity insect and/or disease disturbance. Fuel model transition based on 7 years post disturbance.
522 Insects and Disease Moderate Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity insect and/or disease disturbance. Fuel model transition based on 2 growing seasons post disturbance.
523 Insects and Disease Moderate Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity insect and/or disease disturbance. Fuel model transition based on 7 years post disturbance.
532 Insects and Disease High Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity insect and/or disease disturbance. Fuel model transition based on 2 growing seasons post disturbance.
533 Insects and Disease High Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity insect and/or disease disturbance. Fuel model transition based on 7 years post disturbance.
612 Mechanical Unknown (LF treats as Mechanical Remove Loading) Low Severity: TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance

613 Mechanical Unknown (LF treats as Mechanical Remove Loading) Low Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by low severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 7 years post disturbance
622 Mechanical Unknown (LF treats as Mechanical Remove Loading) Moderate Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance
623 Mechanical Remove Loading Moderate Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by moderate severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 7 years post disturbance
632 Mechanical Unknown (LF treats as Mechanical Remove Loading) High Severity TS2	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 2 growing seasons post disturbance
633 Mechanical Unknown (LF treats as Mechanical Remove Loading) High Severity TS3	Filters fuel rulesets by areas that have been disturbed within the past 10 years by high severity mechanical treatment that does remove fuel from the site. Fuel model transition based on 7 years post disturbance