



# Fuel Ruleset Database Data Dictionary

Master Fuel Ruleset Database	
<p>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.</p>	
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	<p>Canopy Guide. Designates whether tree canopy is available for crown fire activity.</p> <p>0 = no tree canopy considered</p> <p>1= tree canopy with canopy base height and canopy bulk density calculated and available for crown fire activity.</p> <p>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</p> <p>3 =Tree canopy with canopy base height is artificially set to a low canopy bulk density where active or conditional crown fire will not be simulated</p>



<b>tblDist_Code</b>	
This table contains primary filter for disturbance type, severity, and time since disturbance.	
<b>Disturbance code/type severity/time since disturbance</b>	<b>Description</b>
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



<p>223 Mechanical Add Loading Moderate Severity TS3</p>	<p>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</p>
<p>232 Mechanical Add Loading High Severity TS2</p>	<p>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</p>
<p>233 Mechanical Add Loading High Severity TS3</p>	<p>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</p>
<p>312 Mechanical Remove Loading Low Severity TS2</p>	<p>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</p>
<p>313 Mechanical Remove Loading Low Severity TS3</p>	<p>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</p>
<p>322 Mechanical Remove Loading Moderate Severity TS2</p>	<p>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</p>
<p>323 Mechanical Remove Loading Moderate Severity TS3</p>	<p>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</p>
<p>332 Mechanical Remove Loading High Severity TS2</p>	<p>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</p>
<p>333 Mechanical Remove Loading High Severity TS3</p>	<p>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</p>
<p>412 Wind Event Low Severity TS2</p>	<p>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</p>



<p>413 Wind Event Low Severity TS3</p>	<p>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</p>
<p>422 Wind Event Moderate Severity TS2</p>	<p>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</p>
<p>423 Wind Event Moderate Severity TS3</p>	<p>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</p>
<p>432 Wind Event High Severity TS2</p>	<p>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</p>
<p>433 Wind Event High Severity TS3</p>	<p>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</p>
<p>512 Insects and Disease Low Severity TS2</p>	<p>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.</p>
<p>513 Insects and Disease Low Severity TS3</p>	<p>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.</p>
<p>522 Insects and Disease Moderate Severity TS2</p>	<p>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.</p>
<p>523 Insects and Disease Moderate Severity TS3</p>	<p>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.</p>
<p>532 Insects and Disease High Severity TS2</p>	<p>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.</p>
<p>533 Insects and Disease High Severity TS3</p>	<p>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.</p>



<p>612 Mechanical Unknown (LF treats as Mechanical Remove Loading) Low Severity: TS2</p>	<p>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</p>
<p>613 Mechanical Unknown (LF treats as Mechanical Remove Loading) Low Severity TS3</p>	<p>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</p>
<p>622 Mechanical Unknown (LF treats as Mechanical Remove Loading) Moderate Severity TS2</p>	<p>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</p>
<p>623 Mechanical Remove Loading Moderate Severity TS3</p>	<p>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</p>
<p>632 Mechanical Unknown (LF treats as Mechanical Remove Loading) High Severity TS2</p>	<p>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</p>
<p>633 Mechanical Unknown (LF treats as Mechanical Remove Loading) High Severity TS3</p>	<p>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</p>
<p>712 Mastication Low Severity: TS2</p>	<p>Filters fuel rulesets by areas that have been disturbed within the past ten years by low severity Mastication disturbance. Fuel model transition based on fire site 2 growing seasons post disturbance.</p>
<p>713 Mastication Low Severity: TS3</p>	<p>Filters fuel rulesets by areas that have been disturbed within the past ten years by low severity Mastication disturbance. Fuel model transition based on fire site 7 years post disturbance.</p>
<p>722 Mastication Moderate Severity: TS2</p>	<p>Filters fuel rulesets by areas that have been disturbed within the past ten years by low severity Mastication disturbance. Fuel model transition based on fire site 7 years post disturbance.</p>
<p>723 Mastication Moderate Severity: TS3</p>	<p>Filters fuel rulesets by areas that have been disturbed within the past ten years by moderate severity Mastication disturbance. Fuel model transition based on fire site 7 years post disturbance.</p>
<p>732 Mastication High Severity: TS2</p>	<p>Filters fuel rulesets by areas that have been disturbed within the past ten years by high severity Mastication disturbance. Fuel model transition based on fire site 2 growing seasons post disturbance.</p>





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<p>733 Mastication High Severity: TS3</p>	<p>Filters fuel rulesets by areas that have been disturbed within the past ten years by high severity Mastication disturbance. Fuel model transition based on fire site 7 years post disturbance.</p>
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