

LANDFIRE PRODUCTS DESCRIPTIONS

Reference

Reference products represent data collected from public, government, and proprietary sources to inform the LANDFIRE mapping processes and update LANDFIRE products. Public versions of LANDFIRE reference database, which exclude proprietary and/or sensitive data, are available for download.

LF Reference Database (LFRDB)	The LFRDB includes information from geo-referenced sample points depicting vegetation and fuel information. Updated plot information are continually being compiled and used to inform existing vegetation mapping.
Events Geodatabase	A collection of polygons depicting recent natural disturbance and land management activities used to update existing vegetation and fuel layers.

Disturbance/Transition

Disturbance products are developed to help inform updates to LANDFIRE data to reflect change on the landscape caused by management activities and natural disturbance. They are a compilation of data from multiple sources including time series Landsat imagery, fire mapping programs including Monitoring Trends in Burn Severity (MTBS), Burned Area Reflectance Classification (BARC), Rapid Assessment of Vegetation Condition after Wildfire (RAVG), the LANDFIRE Events Geodatabase and other sources.

Annual Disturbance (Dist) 1999-CurrentUpdateYEAR	Depicts where change occurred on the landscape, both spatially and temporally, on an annual basis. Used to inform vegetation transitions and provide updates to LF vegetation, fuel, and fire regime products.
Vegetation Disturbance (VDist)	Composites of Annual Disturbance products for the previous 10 years used in LF 1.x products to inform LF vegetation transitions and to update existing vegetation products (Type, Cover and Height) for disturbances on the landscape.
Fuel Disturbance (FDist)	The latest 10 years of Annual Disturbance products representing time since disturbance, severity, and disturbance types. FDist was a refinement of VDist in LF 1.x products and is a refinement of Historical Disturbance beginning in LF Remap to more accurately represent disturbance scenarios within the fuels environment.
Historical Disturbance (HDist)	An aggregation of the latest 10 years of Annual Disturbance product developed to provide temporal and spatial information related to landscape change. Starting with LF Remap, HDist replaced VDist from previous LF versions.



Vegetation Transition Magnitude (VTM)	A summary of the relationship between disturbance types and resulting effects on the vegetation in terms of changes in life-form and canopy cover through 2014.
Forest Vegetation Transitions Database (FVTDB)	Provides forest vegetation transition rules in tabular format depicting relationship between disturbance type, severity, and time-since- disturbance and its effect on existing vegetation type, cover, and height through 2014.
Non-forest Vegetation Transitions Database (NFVTDB)	Contains non-forest vegetation transition rules in tabular format depicting the relationship between disturbance type, severity, and time- since- disturbance and its effect on existing vegetation type, cover, and height through 2014.

Vegetation

Existing Vegetation

LF **existing vegetation** products describe Existing Vegetation Type, Existing Vegetation Canopy Cover, and Existing Vegetation Height and are created using predictive landscape models based on extensive field-referenced data, satellite imagery and biophysical gradient layers using classification and regression trees.

Existing Vegetation Type (EVT)	Narrow sets of diagnostic plant species, including dominants
	and co- dominants, broadly similar composition, and
	diagnostic growth forms classified using the Ecological
	Systems classification.
National Vegetation Classification (NVC)	Narrow sets of diagnostic plant species, including dominants
	and co- dominants, broadly similar composition, and
	diagnostic growth forms classified using the group level of the
	National Vegetation Classification.
Existing Vegetation Cover (EVC)	Vertically projected percent cover of the dominant vegetation
	for a specific area.
Existing Vegetation Height (EVH)	Average height of the dominant vegetation.

Potential Vegetation

LF **potential vegetation** products describe Biophysical Settings (BPS) and Environmental Site Potential are created using predictive landscape models based on extensive field-referenced data and biophysical gradient layers using classification and regression trees.

Biophysical Settings (BPS)	Vegetation that may have been dominant on the landscape pre- Euro- American colonization.
Biophysical Settings Models and Descriptions (BpS)	State-and-transition models representing pre-European colonization reference conditions for each biophysical setting.
Environmental Site Potential (ESP)	Vegetation that could be supported at a given site based on the biophysical environment utilizing the LF 1.x version of the Ecological Systems vegetation classification.

Fuel

Fuel data describe the composition and characteristics of surface and canopy fuel. Fuel products provide consistent fuel data to support fire planning, analysis, and budgeting to evaluate fire management alternatives,



as well as supplement strategic and tactical planning for fire operations. A standalone fuel rulesets database supporting the LF Total Fuel **Fuel Rulesets Database** Change Toolbar. Surface Fuel 13 Anderson Fire Behavior Fuel Models A set of fire behavior fuel models that represent distinct (FBFM13) distributions of fuel loading found among surface fuel components (live and dead), size classes, and fuel types, based on grass, shrub, timber, and slash fuel types and categorized into 13 models to help users estimate fire behavior, including rate of fire spread and fire intensity, generally represents severe fire conditions. 40 Scott & Burgan Fire Behavior Fuel Models A set of fire behavior fuel models that increases prediction (FBFM40) accuracy by providing more models in the fuel types (grass, shrub, timber, slash) than Anderson's 13, captures moisture variations and unique fuel differences, allows user to plan or illustrate the effects of multiple or varying fuel and fire scenarios beyond the severe fire season, such as prescribed fire and fire use applications. Canadian system for rating the risk of forest fires, arranges fuel **Canadian Forest Fire Danger Rating** types into five major groups with 16 discrete fuel types that are System*(CFFDRS) *Alaska only qualitatively distinguished by variations in their forest floor and organic layer, their surface and ladder fuels, and their stand structure and composition. Describes the physical characteristics of a relatively uniform **Fuel Characteristics Classification System** (FCCS) unit on a landscape that represents a distinct fire environment; provides land managers, regulators, and scientists with a nationally consistent and durable procedure to characterize and classify fuelbed characteristics across strata to predict fuel consumption and smoke production. **Fuel Loading Models (FLM)** Characterizes wildland surface fuel and contains representative loading for each fuel component (e.g., woody and non-woody) for typical vegetation classification systems; characterizes fuel loading across all vegetation and ecological types through 2008. Canopy Fuel Forest Canopy Cover (CC) Proportion of the forest floor covered by the vertical projection of the tree crowns. Average height from the ground to a forest stand's canopy Forest Canopy Base Height (CBH) bottom at which there is enough forest canopy fuel to propagate fire vertically into the canopy, meters * 10 Forest Canopy Bulk Density (CBD) Density of available canopy fuel in a stand, kg m-3 * 100 Forest Canopy Height (CH) Average height of the top of the vegetated canopy, meters * 10



Fuel Vegetation	
Fuel Vegetation Type (FVT)	Represents a modified version of EVT that re- establishes pre- disturbance vegetation in disturbed areas, allowing the application of fuel model transitions to properly align with logic developed from Fuels Calibration Workshops.
Fuel Vegetation Cover (FVC)	Represents a modified version of EVC and more accurately leverages fuel transition assignments related to disturbed areas to properly align with logic developed from Fuels Calibration Workshops.
Fuel Vegetation Height (FVH)	Represents a modified version of EVH and more accurately leverages fuel transition assignments related to disturbed areas to properly align with logic developed from Fuels Calibration Workshops.
Forest Vegetation Simulator Disturbance Database (FVSDDB)	FVS disturbance analysis outputs for fire, insect and disease, wind and mechanical disturbances modeled at a high, moderate, and low severity and represented at three timesteps post disturbance.
Forest Vegetation Simulator Ready Database (FVSRDB)	Nationwide Forest Vegetation Simulator analysis ready plot data (StandInit and TreeInit tables).

Fire Regime

Historical fire regimes, intervals, and vegetation conditions were mapped using the Vegetation Dynamics Development Tool (VDDT). These data support fire and landscape management planning goals in the National Cohesive Wildland Fire Management Strategy, the Federal Wildland Fire Management Policy, and the Healthy Forests Restoration Act.

Historical Fire Frequency and Severity	
Fire Regime Groups (FRG)	Characterizes the presumed historical fire regimes within landscapes based on interactions between vegetation dynamics, fire spread, fire effects, and spatial context; definitions approximate those outlined in the Interagency Fire Regime Condition Class Guidebook and represent discrete, mutually exclusive criteria appropriate for use with LF's fire frequency and severity products.
Mean Fire Return Interval (MFRI)	Average period between fires under the presumed historical fire regime.
Percent Low-severity Fire (PLS)	The amount of low-severity fires relative to mixed- and replacement-severity fires under the presumed historical fire regime, defined as less than 25% average top-kill within a typical fire perimeter for a given vegetation type.



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