

LANDFIRE Dictionary

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Section 1 Purpose

This document serves as a guide to direct LANDFIRE (LF) users to locations to access information about products, Attribute Data Dictionaries (ADDs), data and metadata standards, and terms. This document is meant to supplement the LF [sitemap](#) and the [LF Definitions, Quality, and Standards Report](#).

If you are new to LF, learn more [here](#).

Contained within this document is a record of all ADDs within the LF 2020 and LF 2022 versions. This document also includes product descriptions and glossaries of LF references and terms. See [Glossaries of Terms](#).

Section 2 Product Descriptions, Versions, and Auxiliary Data

2.1 Product Descriptions

See the product pages on the LANDFIRE website for more detailed information about individual products. The product themes are listed below; on these pages you can access each product within the theme and learn more.

- Vegetation products [here](#)
- Fuels products [here](#)
- MoD-FIS products [here](#)
- Disturbance products [here](#)
- Fire Regime products [here](#)
- Reference products [here](#)
- Transportation product (Operational Roads) [here](#)
- Topographic products [here](#)

2.2 All LF Product Descriptions

All current and retired product descriptions are organized by product themes.

2.2.1 Reference Product Theme

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.

2.2.1.1 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.

2.2.1.2 LF Public Events Geodatabase (LF Events)

A collection of polygons depicting recent natural disturbance and land management activities used to update existing vegetation and fuel layers.

2.2.2 Disturbance and Transition Product Theme

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.

2.2.2.1 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.

2.2.2.2 Limited Annual Disturbance (LDist) 2023- CurrentUpdateYEAR

LDist is designed to provide a first cut of landscape change information as soon as possible to support time-sensitive updates such as risk management efforts. This early release of Annual Disturbance does not include satellite change detection to capture additional disturbances and does not provide image-based severity for contributed events.

2.2.2.3 Preliminary Annual Disturbance (PDist) 2023- CurrentUpdateYEAR

PDist is another new product making its debut with the LF 2023 Update. PDist is designed to provide a second "draft" of landscape change information.

2.2.2.4 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. This product was not developed after LF 2014, it was superseded by HDist.

2.2.2.5 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 2016 Remap, HDist replaced VDist.

2.2.2.6 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.

2.2.2.7 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

2.2.2.8 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.

2.2.3 Vegetation Product Theme

2.2.3.1 Existing Vegetation

LF existing vegetation products describe Existing Vegetation Type, Cover, and 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.

2.2.3.1.1 Existing Vegetation Type (EVT) Ecological Systems (ES)

Narrow sets of diagnostic plant species, including dominants and co- dominants, broadly similar composition, and diagnostic growth forms classified using the Ecological Systems Classification.

2.2.3.1.2 Existing Vegetation Type (EVT) 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.

2.2.3.1.3 Existing Vegetation Cover (EVC)

Vertically projected percent cover of the dominant vegetation for a specific area.

2.2.3.1.4 Existing Vegetation Height (EVH)

Average height of the dominant vegetation.

2.2.3.2 Potential Vegetation

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

2.2.3.2.1 Biophysical Settings (BPS)

Vegetation that may have been dominant on the landscape pre-European colonization.

2.2.3.2.2 Biophysical Settings Models and Descriptions (BpS)

State-and-transition models representing pre-European colonization reference conditions for each biophysical setting.

2.2.3.2.3 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. This product was not developed after LF 2014.

2.2.4 Fuels Product Theme

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.

2.2.4.1 Fuel Rulesets Database (FRDB)

A standalone fuel rulesets database supporting the LF Total Fuel Change Toolbar (LFTFC).

2.2.4.2 Surface Fuels

2.2.4.2.1 13 Anderson Fire Behavior Fuel Models (FBFM13)

A set of fire behavior fuel models that represent distinct 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.

2.2.4.2.2 40 Scott & Burgan Fire Behavior Fuel Models (FBFM40)

A set of fire behavior fuel models that increases prediction 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.

2.2.4.2.3 Canadian Forest Fire Danger Rating System (CFFDRS) *Alaska only*

Canadian system for rating the risk of forest fires, arranges fuel types into five major groups with 16 discrete fuel types that are qualitatively distinguished by variations in their forest floor and organic layer, their surface and ladder fuels, and their stand structure and composition.

2.2.4.2.4 Fuel Characteristics Classification System (FCCS)

Describes the physical characteristics of a relatively uniform 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.

2.2.4.2.5 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.

2.2.4.3 Canopy Fuels

2.2.4.3.1 Forest Canopy Cover (CC)

Proportion of the forest floor covered by the vertical projection of the tree crowns.

2.2.4.3.2 Forest Canopy Base Height (CBH)

Average height from the ground to a forest stand's canopy bottom at which there is enough forest canopy fuel to propagate fire vertically into the canopy, meters * 10

2.2.4.3.3 Forest Canopy Bulk Density (CBD)

Density of available canopy fuel in a stand, kg m⁻³ * 100

2.2.4.3.4 Forest Canopy Height (CH)

Average height of the top of the vegetated canopy, meters * 10

2.2.4.3.5 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.

2.2.4.3.6 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.

2.2.4.3.7 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.

2.2.4.3.8 Forest Vegetation Simulator Disturbance Database (FVSDDDB)

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.

2.2.4.3.9 Forest Vegetation Simulator Ready Database (FVSRDB)

Nationwide Forest Vegetation Simulator analysis ready plot data (StandInit and TreeInit tables).

2.2.5 Fire Regime Product Theme

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.

2.2.5.1 Historical Fire Frequency and Severity

2.2.5.1.1 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.

This product was incorporated into the BPS product after LF 2014. Therefore, for LF 2016 Remap and LF 2020 this product was nested within BPS, then beginning with the LF 2023 Update it was once again made into a standalone product.

2.2.5.1.2 *Mean Fire Return Interval (FRI)*

Average period between fires under the presumed historical fire regime.

This product was incorporated into the BPS product after LF 2014. Therefore, for LF 2016 Remap and LF 2020 this product was nested within BPS, then beginning with the LF 2023 Update it was once again made into a standalone product.

2.2.5.1.3 *Percent Fire Severity (PFS)*

Percent low, mixed, or replacement fire severity under the presumed historical fire regime.

Low severity is defined as less than 25%, mixed severity is defined as between 25-75%, and replacement severity is defined as greater than 75% average top-kill within a typical fire perimeter for a given vegetation type.

This product was incorporated into the BPS product after LF 2014. Therefore, for LF 2016 Remap and LF 2020 this product was nested within BPS, then beginning with the LF 2023 Update it was once again made into a standalone product.

2.2.5.2 **Vegetation Departure**

2.2.5.2.1 *Vegetation Condition Class (VCC)*

A discrete classification that quantifies the amount that current vegetation has departed from the simulated historical vegetation reference conditions.

2.2.5.2.2 *Vegetation Departure (VDEP)*

Range from 0 - 100 depicting the amount that current vegetation has departed from simulated historical vegetation reference.

2.2.5.2.3 *Succession Classes (SClass)*

Current succession class with respect to the range of possible successional states within each biophysical setting, based on vegetation species composition, cover, and height ranges.

2.2.6 **Topographic Product Theme**

Topographic products serve as independent variables in vegetation modeling as well as inputs to Landscape files (LCP or LCG), which are used in wildland fire behavior models.

2.2.6.1 **Aspect (ASP)**

Azimuth of the sloped surfaces across a landscape in degrees.

2.2.6.2 Elevation (ELEV)

Land height above mean sea level, in meters.

2.2.6.3 Slope Degree (SLPD)

Percent change of elevation over a specific area, in degrees.

2.2.6.4 Slope Percent Rise (SLPP)

Percent change of elevation over a specific area, in percent.

2.2.7 MoD-FIS Product Theme

Modeling Dynamic Fuel with an Index System (MoD-FIS) systematically adjusts the most recently released LANDFIRE 40 Scott & Burgan Fire Behavior Fuel Model (FBFM40) product, using indices, to better represent current fuel availability during drought or seasonable moisture conditions.

2.2.7.1 Seasonal MoD-FIS

Seasonal MoD-FIS provides adjusted fuel model (Scott and Burgan 2005) map data in the Great Basin and Southwest regions based on season specific assessments of herbaceous cover acquired from a comparison of current year Normalized Difference Vegetation Index (NDVI) and Web-enabled Landsat Data (WELD).

2.2.7.1.1 *Early Spring (ES)*

Southwest region: Date range is February to April.

2.2.7.1.2 *Spring (SP)*

Southwest and Northern Great Basin regions: Date range is February to May.

2.2.7.1.3 *Summer (SU)*

Southwest, Northern, and Northern Great Basin regions: Data range is February to June.

2.2.7.1.4 *Fall (FA)*

Southwest region: Date range is February to September.

2.2.7.2 Daily MoD-FIS

In the Southeast U.S. and other humid summer regions Daily MoD-FIS systematically adjusts surface fuel models (Scott and Burgan 2005) based on daily soil moisture values determined by the Keetch-Byram Drought Index (KBDI, Res. Paper SE-38)

2.2.8 Transportation Product Theme

Transportation includes an Operational Roads layer specifically designed to assist in firefighting to account for all known roads on the landscape.

2.2.8.1 Operational Roads

A roads layer consisting of all available primary, secondary, tertiary, and thinned roads.

2.2.9 Additional Information

See the Technical Document and the LF Definitions, Quality, and Standards Report for additional reading about LF products and methods.

- [LF Technical Documentation](#)
- [LF Definitions, Quality, and Standards Report](#)

To see what LF products are available by version go [here](#)

To learn more about the various LF versions over time go [here](#)

2.3 Attribute Data Dictionaries

Attribute Data Dictionaries (ADDs) provide a more in-depth descriptions for the attribute tables of each product. ADDs are updated with each new version and are constantly being added to. LANDFIRE follows [USGS guidance](#) for the creation of ADDs. See all the ADDs on [landfire.gov](#), dating back to LF 2014, under [Data Dictionaries](#). The record of ADDs demonstrated in this report are for the LF 2020 and LF 2022 versions and are unique for each respective version.

2.4 Data and Metadata Standards

Metadata provides supplemental and technical information about the data that LF produces.

LANDFIRE follows USGS guidance for the [creation of metadata](#) within the [ISO 19115-1](#) and [FGDC-STD-001-1998](#) standards. LF also follows USGS guidance for the [review of metadata](#) before a new version is released.

2.5 Building an LF Version

Preparing a new version for release begins with updating LF Reference products (and sometimes the topographic products). Disturbance products are then produced from LF Reference products and other inputs. While Fuels, Vegetation, and Fire Regime products are being produced, metadata is simultaneously updated for each product included in the new version. Attribute tables and ADDs are also updated during this time, to include all relevant information for the version (see [Figure 2-1](#)).

2.6 Metadata

Updates include an internal review of metadata with the LF data manager, production leads, and the technical lead. External review of metadata includes checking for compliance with the FGDC standard as well as USGS Fundamental Science Practices (FSP). Once metadata is reviewed internally and externally, it is posted to landfire.gov on each product page. Additionally, when products are downloaded, a metadata file is included in each download bundle.

Beginning with the LF 2022 update, the external review of metadata and data goes through USGS [Information Product Data System](#) (IPDS) review and [ScienceBase](#) data and metadata public posting requirements. The LF 2022 ScienceBase landing page, including all products featured in the update, can be found [here](#).

2.7 ADDs

Updates to ADDs include an internal review by the LF data manager and production leads to understand whether any attributes and data definitions have changed. Typically, if a pixel value has changed in meaning, Subject Matter Experts (SMEs) inform the data manager, or the SME and data manager work together to update the ADD as needed. Once ADDs are reviewed, they are posted with the first release of a new version onto each product page (see the ADD pdf posted [here](#) as an example).

To read more about the details that go into LF production, read the LANDFIRE [Technical Documentation](#) or go to the applicable version page. For example, you can read about the details and methods for the [LF 2020 update](#) or the [LF 2022 Update](#).

Figure 2-1 is a generalized LF production development flow for the products and all ancillary files. Boxes in gray represent processes being implemented for the LF 2022 update and onward.

LF Production Development Sequence For Each New Version

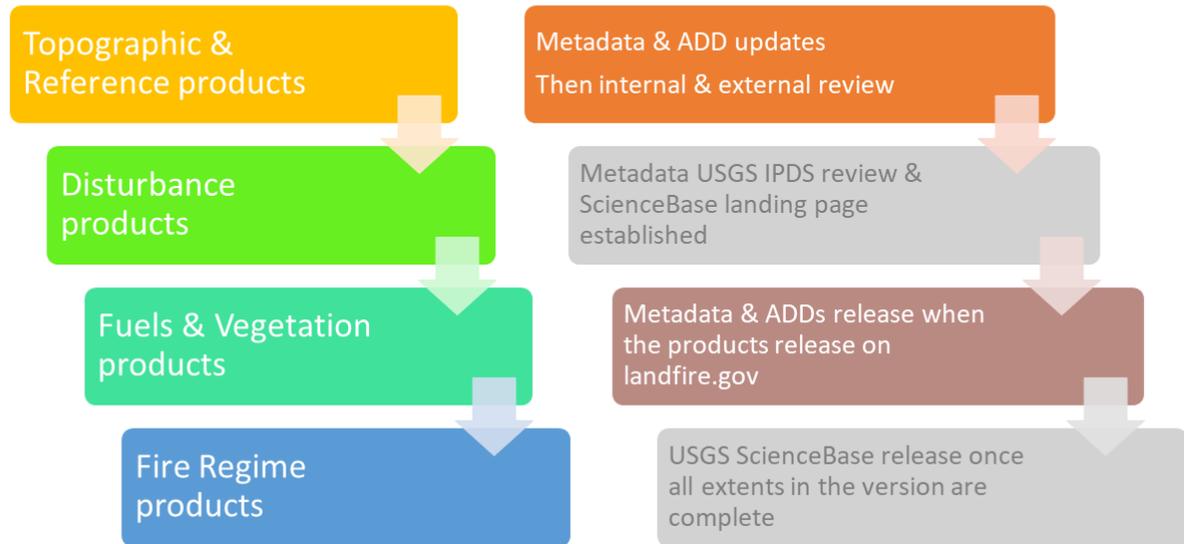


Figure 2-1. Generalized LF production development flow.

Section 3 LANDFIRE References

LANDFIRE references include but are not limited to the below list. See the metadata and the version pages for more specific details pertaining to inputs and references for each LF Update.

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Section 4 LF 2022 Attribute Data Dictionaries Glossary

4.1 Disturbance Products

4.1.1 Annual Disturbance (Dist) 2021 and 2022

| LANDFIRE Disturbance YEAR Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | 2-4 digit code representing the general category of the disturbance (combination of disturbance type and confidence information based on data sources), disturbance type, and severity. |
| 11 - 1133 | For example, 472 is identified by LANDFIRE Events Geodatabase polygon (4) with type of wildfire (7) , severity is assigned from image based change detection, medium severity (2). |
| -9999 | Fill - NoData |
| -1111 | Fill - Not Mapped |
| 0 | Background |
| DIST_YEAR | Approximate (due to LANDFIRE Events Geodatabase year or image timing) year in which the disturbance occurred. |
| Year | Year disturbance occurred based upon the best information available. |
| DIST_TYPE | A general category of disturbance derived from the dist_type attribute in the disturbance grids. |
| No Disturbance | No disturbance detected or reported. |
| Biological | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Chemical | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Clearcut | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Development | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Disease | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |

| LANDFIRE Disturbance YEAR Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| Harvest | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Herbicide | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Insects | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Insecticide | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Insects/Disease | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Mastication | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Non Disturbed | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Other Mechanical | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Prescribed Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Thinning | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Unknown | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Water | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Weather | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |

| LANDFIRE Disturbance YEAR Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Wildfire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildland Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildland Fire Use | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| TYPE_CONFI | Classification level of confidence in the assignment of disturbance type |
| Low (1) | Low confidence for causality based upon source information. |
| Medium (2) | Medium confidence for causality based upon source information. |
| High (3) | High confidence for causality based upon source information. |
| SEVERITY | Classification level of disturbance associated with effect on landcover |
| Low (1) | General classification level associated with low effect on landcover |
| Medium (2) | General classification level associated with medium effect on landcover |
| High (3) | General classification level associated with high effect on landcover |
| Unburned/Low | Areas that were not affected by fire. May include areas that were not in the fire's path, areas that were suppressed, or areas that were too wet to burn. |
| Increased Green | Areas that burned as a low intensity surface fire and have since resprouted. The vegetation in these areas may be different from the vegetation that was there before the fire. |
| SEV_CONFID | Confidence is evaluated based on the input data sources. For example, a mapped wildfire disturbance identified in the LANDFIRE Events Geodatabase and Landsat image change detection would have a higher confidence than a disturbance identified by Landsat image change detection only since the cause is unknown. |
| Low | General confidence in the mapped disturbance is low due to lack of information relative to assignment of causality and/or severity. |
| Medium | General confidence in the mapped disturbance is medium due to the availability of some information relative to assignment of causality and/or severity, but more information is warranted in order to have increased confidence. |
| High | General confidence in the mapped disturbance is high due to the availability of specific information relative to assignment of causality and/or severity. |
| SEV_SOURCE | Severity Source |
| Source | Event attribute |
| Source | MTBS |
| Source | RAVG |
| Source | BARC |

| LANDFIRE Disturbance YEAR Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Source | dNBR |
| SOURCE | A combination of one to four of the following: 1) Fire data source (MTBS, BAER, or RAVG), 2) LANDFIRE Events Geodatabase polygons, 3) Landsat change detection, 4) PAD GAP Status polygons, 5) dNBR (differenced NBR), 6) Burned Area Essential Climate Variable (BAECV) |
| DESCRIPTION | Description of the classification method. |
| R | Red color value range/255 |
| G | Green color value range/255 |
| B | Blue color value range/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.1.2 Historical Disturbance (HDist) LF 2022

| LANDFIRE Historical Disturbance Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| DISTCODE_V | HDist is a composite of the Annual Disturbance products. Disturbances are identified by year, disturbance type, and disturbance severity. |
| 11 - 1133 | The code value is a concatenation of disturbance year and annual disturbance code which identifies disturbance type and severity. |
| -9999 | Fill - NoData. |
| 0 | Non-disturbed. |
| -1111 | Fill - Not Mapped. |
| VALUE | Value. |
| HDIST_ID | ID. |
| DIST_TYPE | A general category of disturbance derived from the dist_type attribute in the disturbance grids. |
| No Disturbance (0) | No disturbance detected or reported. |
| Clearcut | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Disease | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |

| LANDFIRE Historical Disturbance Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| Harvest | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Insects | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Insects/Disease | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Mastication | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Non Disturbed | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Other Mechanical | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Prescribed Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Thinning | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Unknown | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Weather | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildfire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildland Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildland Fire Use | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| TYPE_CONF1 | Classification level of confidence in the assignment of disturbance type |
| Low (1) | Low confidence for causality based upon source information. |

| LANDFIRE Historical Disturbance Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Medium (2) | Medium confidence for causality based upon source information. |
| High (3) | High confidence for causality based upon source information. |
| SEVERITY | Classification level of disturbance associated with effect on landcover |
| Low (1) | General classification level associated with low effect on landcover |
| Medium (2) | General classification level associated with medium effect on landcover |
| High (3) | General classification level associated with high effect on landcover |
| Unburned/Low | Areas that were not affected by fire. May include areas that were not in the fire's path, areas that were suppressed, or areas that were too wet to burn. |
| Increased Green | Areas that burned as a low intensity surface fire and have since resprouted. The vegetation in these areas may be different from the vegetation that was there before the fire. |
| SEV_CONFID | Severity confidence |
| Low (1) | Low confidence for causality based upon source information. |
| Medium (2) | Medium confidence for causality based upon source information. |
| High (3) | High confidence for causality based upon source information. |
| HDIST_CAT | HDist category. |
| HDIST_YR | HDist year. |
| FDist | FDist value. |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.2 Fire Regime Products

4.2.1 Succession Class (SClass) LF 2022

| LANDFIRE Succession Class Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | Value 1-7 or 111-180 |
| LABEL | |
| 1 to 5 | A-E |
| 6 | UN |
| 7 | UE |
| 111 | Water |
| 112 | Snow / Ice |
| 120 | Urban |
| 132 | Barren or Sparse |
| 180 | Agriculture |
| DESCRIPTION | LANDFIRE's (LF) Remap Succession Class (SClass) categorizes current vegetation composition and structure into up to five successional classes, with successional classes defined in the appropriate Biophysical Settings (BpS) Model. There are two additional categories for uncharacteristic species (exotic or invasive vegetation), and uncharacteristic native vegetation cover, structure, or composition. |
| A | Succession Class A |
| B | Succession Class B |
| C | Succession Class C |
| D | Succession Class D |
| E | Succession Class E |
| UN | Uncharacteristic Native Vegetation Cover / Structure / Composition |
| UE | Uncharacteristic Exotic Vegetation |
| 111 | Water |
| 112 | Snow / Ice |
| 120 | Urban |
| 132 | Barren or Sparse |
| 180 | Agriculture |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |
| R | Red color value range/255 |
| G | Green color value range/255 |
| B | Blue color value range/255 |

4.2.2 Vegetation Condition Class (VCC) LF 2022

| LANDFIRE Vegetation Condition Class Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | |
| 1 to 6 | Vegetation Condition Class |
| 111 | Water |
| 112 | Snow |
| 120 | Non burnable urban |
| 121 | Burnable urban |
| 131 | Barren |
| 132 | Sparsely vegetated |
| 180 | Non burnable agriculture |
| 181 | Burnable agriculture |
| CLASS | |
| 1 | Vegetation Condition Class I.A |
| 2 | Vegetation Condition Class I.B |
| 3 | Vegetation Condition Class II.A |
| 4 | Vegetation Condition Class II.B |
| 5 | Vegetation Condition Class III.A |
| 6 | Vegetation Condition Class III.B |
| DESCRIPTION | The Vegetation Condition Class (VCC) data layer categorizes departure between current vegetation conditions and reference vegetation conditions similar to the methods outlined in the Interagency Fire Regime Condition Class Guidebook. |
| Vegetation Condition Class I.A | Very Low, Vegetation Departure 0-16% |
| Vegetation Condition Class I.B | Low to Moderate, Vegetation Departure 17-33% |
| Vegetation Condition Class II.A | Moderate to Low, Vegetation Departure 34-50% |
| Vegetation Condition Class II.B | Moderate to High, Vegetation Departure 51-66% |
| Vegetation Condition Class III.A | High, Vegetation Departure 67-83% |
| Vegetation Condition Class III.B | Very High, Vegetation Departure 84-100% |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |
| R | Red color value range /255 |
| G | Green color value range /255 |

| LANDFIRE Vegetation Condition Class Attribute Data Dictionary | |
|---|-----------------------------|
| Attribute | Description |
| B | Blue color value range /255 |

4.2.3 Vegetation Departure (VDep) LF 2022

| LANDFIRE Vegetation Departure Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | |
| 1 to 100 | Percent Vegetation Departure |
| 101 | Vegetation Departure not calculated |
| 111 | Water |
| 112 | Snow |
| 120 | Non burnable urban |
| 121 | Burnable urban |
| 131 | Barren |
| 132 | Sparsely vegetated |
| 180 | Non burnable agriculture |
| 181 | Burnable agriculture |
| LABEL | |
| 0 to 100 | Percent departure |
| DESCRIPTION | The Vegetation Departure (VDep) data layer categorizes departure between current vegetation conditions and reference vegetation conditions similar to methods outlined in the Interagency Fire Regime Condition Class Guidebook. VDep is the percent that vegetation has departed from simulated historical vegetation reference conditions. |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |

4.3 Fuel Products

4.3.1 Canopy Bulk Density (CBD) LF 2022

| LANDFIRE Forest Canopy Bulk Density Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | Forest canopy bulk density (CBD) is the mass of available canopy fuel per unit canopy volume that would burn in a crown fire and values range 0 to 45. Units are kg m ⁻³ * 100. To retrieve the real data value, divide the values by 100. The conversion from kg m ⁻³ to lb ft ⁻³ is 0.061728 (multiply kg m ⁻³ by 0.061728). |
| -9999 | Fill - NoData |
| 0 | All non - forest values, including herbaceous and most shrub systems and non-burnable types such as urban, barren, snow and ice, and agriculture. |
| 1 - 45 | 0.01 - 0.45 kg / m ³ . |
| >45 | 0.45 = thematic class of all values > 0.45 meters |
| COUNT | Number of pixels for the corresponding value |
| KGM3_X_100 | Display attribute, CBD is kilograms per meter cubed multiplied by 100. |
| Non-forested | Value is 0. |
| CBD > 45 | Value is 45. |
| KGM3 | Kilograms per meter cubed. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value. |
| GREEN | Green color value. |
| BLUE | Blue color value. |

4.3.2 Canopy Base Height (CBH) LF 2022

| LANDFIRE Forest Canopy Base Height Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| VALUE | Forest canopy base height (CBH) describes the lowest point in a stand where there is sufficient available fuel (=> .25 in dia.) to propagate fire vertically through the canopy. Specifically, CBH is defined as the lowest point at which the canopy bulk density is >= 0.012 kg m ⁻³ . |
| -9999 | Fill - NoData |
| 0 | All non - forest values, including herbaceous and most shrub systems and non-burnable types such as urban, barren, snow and ice, and agriculture. |
| 1 - 99 | 0 - 9.9 meters |
| 100 | values >= 10 meters and some stands dominated by broadleaf species |
| COUNT | Number of pixels for the corresponding value. |
| METERSX10 | Display attribute, cbh is m*10 |

| LANDFIRE Forest Canopy Base Height Attribute Data Dictionary | |
|--|-----------------------|
| Attribute | Description |
| Non-forested | Value is 0 |
| CBH > 100 | Value is 100 |
| METERS | Meters. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value. |
| GREEN | Green color value. |
| BLUE | Blue color value. |

4.3.3 Canopy Cover (CC) LF 2022

| LANDFIRE Forest Canopy Cover Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| VALUE | Forest canopy cover (CC) describes percent cover of tree canopy in a stand. Where there are tree canopies, i.e. existing vegetation types that are forest and woodland, the grid is attributed with canopy characteristics with some exceptions. There will be no canopy characteristics in fuel types where the tree canopy is considered a part of the surface fuel and the surface fire behavior fuel model is chosen as such. This is because LANDFIRE assumes the potential burnable biomass in the tree canopy has been accounted for in the surface fuel model parameters. |
| -9999 | Fill - NoData |
| 0 | All non - forest values, including herbaceous and most shrub systems and non-burnable types such as urban, barren, snow and ice, and agriculture. |
| 5 | Forest cover 5% <= CC < 10% |
| 15 | Forest cover 10% <= and < 20% |
| 17 | Forest cover 10% <= CC < 25% |
| 25 | Forest cover 20% <= and < 30% |
| 35 | Forest cover 30% <= and < 40% |
| 42 | Forest cover 25% <= CC < 60% |
| 45 | Forest cover 40% <= and < 50% |
| 55 | Forest cover 50% <= and < 60% |
| 65 | Forest cover 60% <= and < 70% |
| 75 | Forest cover 70% <= and < 80% |
| 80 | Forest Cover 60% <= CC < 100% |

| LANDFIRE Forest Canopy Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| 85 | Forest cover 80% <= and < 90% |
| 95 | Forest cover 90% <= and <= 100% |
| Count | number of pixels for the corresponding value |
| CC_PERCENT | display attribute, canopy height meters * 10 (midpoints) |
| Forest cover 10% <= and < 20% | 15% |
| Forest cover 20% <= and < 30% | 25% |
| Forest cover 30% <= and < 40% | 35% |
| Forest cover 40% <= and < 50% | 45% |
| Forest cover 50% <= and < 60% | 55% |
| Forest cover 60% <= and < 70% | 65% |
| Forest cover 70% <= and < 80% | 75% |
| Forest cover 80% <= and < 90% | 85% |
| Forest cover 90% <= and <= 100% | 95% |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.3.4 Canadian Forest Fire Danger Rating System (CFFDRS) LF 2022

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| VALUE | |
| 1-995 | GRID value |
| EXPORT_VAL | Export value. Selected based on fire site conditions if the fuel type has choices, such as D1/D2, O-1a/O-1b, M1/M2, and M3/M4. Once the appropriate fuel type is chosen by the user it can be exported to a new GRID or to the fire behavior software. |
| DESCRIPTIV | Short description of predominate vegetation and what would have an impact on the fire site. |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Spruce-Lichen Woodland C1 | This fuel type is characterized by open, parklike black spruce (<i>Picea mariana</i> (Mill.) B.S.P.) stands occupying well-drained uplands in the subarctic zone of western and northern Canada. Jack pine (<i>Pinus banksiana</i> Lamb.) and white birch (<i>Betula papyrifera</i> Marsh.) are minor associates in the overstory. Forest cover occurs as widely spaced individuals and dense clumps. Tree heights vary considerably, but bole branches (live and dead) uniformly extend to the forest floor and layering development is extensive. Accumulation of woody surface fuel is very light and scattered. Shrub cover is exceedingly sparse. The ground surface is fully exposed to the sun and covered by a nearly continuous mat of reindeer lichens (<i>Cladonia</i> spp.), averaging 3-4 cm in depth above mineral soil. |
| Boreal Spruce C2 | This fuel type is characterized by pure, moderately well-stocked black spruce (<i>Picea mariana</i> (Mill.) B.S.P.) stands on lowland (excluding Sphagnum bogs) and upland sites. Tree crowns extend to or near the ground, and dead branches are typically draped with bearded lichens (<i>Usnea</i> spp.). The flaky nature of the bark on the lower portion of stem boles is pronounced. Low to moderate volumes of down woody material are present. Labrador tea (<i>Ledum groenlandicum</i> Oeder) is often the major shrub component. The forest floor is dominated by a carpet of feather mosses and/or ground-dwelling lichens (chiefly <i>Cladonia</i>). Sphagnum mosses may occasionally be present, but they are of little hindrance to surface fire spread. A compacted organic layer commonly exceeds a depth of 20–30 cm. |
| Mature Jack or Lodgepole Pine C3 | This fuel type is characterized by pure, fully stocked (1000–2000 stems/ha) jack pine (<i>Pinus banksiana</i> Lamb.) or lodgepole pine (<i>Pinus contorta</i> Dougl. ex Loud.) stands that have matured at least to the stage of complete crown closure. The base of live crown is well above the ground. Dead surface fuels are light and scattered. Ground cover is feather moss (<i>Pleurozium schreberi</i>) over a moderately deep (approximately 10 cm), compacted organic layer. A sparse conifer understory may be present. |
| Immature Jack or Lodgepole Pine C4 | This fuel type is characterized by pure, dense jack pine (<i>Pinus banksiana</i> Lamb.) or lodgepole pine (<i>Pinus contorta</i> Dougl. ex Loud.) stands (10,000–30,000 stems/ha) in which natural thinning mortality results in a large quantity of standing dead stems and dead downed woody fuel. Vertical and horizontal fuel continuity is characteristic of this fuel type. Surface fuel loadings are greater than in fuel type C3, and organic layers are shallower and less compact. Ground cover is mainly needle litter suspended within a low shrub layer (<i>Vaccinium</i> spp.). |
| Red and White Pine C5 | This fuel type is characterized by mature stands of red pine (<i>Pinus resinosa</i> Ait.) and eastern white pine (<i>Pinus strobus</i> L.) in various proportions, sometimes with small components of white spruce (<i>Picea glauca</i> (Moench) Voss) and old white birch (<i>Betula papyrifera</i> Marsh.) or aspen (<i>Populus</i> spp.). The understory is of moderate density, usually red maple (<i>Acer rubrum</i> L.) or balsam fir (<i>Abies balsamea</i> (L.) Mill.). A shrub layer, usually beaked hazel (<i>Corylus cornuta</i> Marsh.), may be present in moderate proportions. The ground surface cover is a combination of herbs and pine litter. The organic layer is usually 5–10 cm deep. |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| Conifer Plantation C6 | This fuel type is characterized by pure, fully stocked conifer plantations with closed crowns and no understory or shrub layer. The forest floor is covered by needle litter with an underlying duff layer up to 10 cm deep. The crown base height is taken into account in predicting fire spread rate and crowning. |
| Ponderosa Pine-Douglas-Fir C7 | This fuel type is characterized by uneven-aged stands of ponderosa pine (<i>Pinus ponderosa</i> Laws.) and Douglasfir (<i>Pseudotsuga menziesii</i> (Mirb.) Franco) in various proportions. Western larch (<i>Larix occidentalis</i> Nutt.) and lodgepole pine (<i>Pinus contorta</i> Dougl. ex Loud.) may be significant stand components on some sites and at some elevations. Stands are open, with occasional clumpy thickets of multi-aged Douglas-fir and/or larch as a discontinuous understory. Canopy closure is less than 50% overall, although thickets are closed and often dense. Woody surface fuel accumulations are light and scattered. Except within Douglas-fir thickets, the forest floor is dominated by perennial grasses, herbs, and scattered shrubs. Within tree thickets, needle litter is the predominant surface fuel. Duff layers are nonexistent to shallow (<3 cm). |
| Leafless Aspen D1 | This fuel type is characterized by pure, semimature trembling aspen (<i>Populus tremuloides</i> Michx.) stands before bud break in the spring or following leaf fall and curing of the lesser vegetation in the autumn. A conifer understory is noticeably absent, but a well-developed medium to tall shrub layer is typically present. Dead and down roundwood fuels are a minor component of the fuel complex. The principal fire carrying surface fuel consists chiefly of deciduous leaf litter and cured herbaceous material that is directly exposed to wind and solar radiation. In the spring the duff mantle (F and H horizons) seldom contributes to the available combustion fuel because of its high moisture content. |
| Green Aspen D2 | This fuel type is characterized by the Build Up Index (BUI) at a level (70) where fire spread does not occur. In other words, there needs to be a BUI of at least 70 for fire spread to occur in Green Aspen (D2). Below this point and a fuel type won't carry a fire. The Canadian Forest Fire Weather Index (FWI) System consists of six components that account for the effects of fuel moisture and weather conditions on fire behavior. BUI is a measure of fuel loading and availability, a numeric rating of the total amount of fuel available for combustion. BUI sets thresholds to describe the severity of the fuel situation based on fuel type, loading, and dryness. |
| Aspen | D1/D2 |
| Jack or Lodgepole Pine Slash S1 | This fuel type is characterized by slash resulting from tractor or skidder clear-cut logging of mature jack pine (<i>Pinus banksiana</i> Lamb.) or lodgepole pine (<i>Pinus contorta</i> Dougl. ex Loud.) stands. The slash is typically one or two seasons old, retaining up to 50% of the foliage, particularly on branches closest to the ground. No post-logging treatment has been applied, and slash fuels are continuous. Tops and branches left on site result in moderate fuel loads and depths. Ground cover is continuous feather moss mixed with discontinuous fallen needle litter. Organic layers are moderately deep and fairly compact. |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| White Spruce-Balsam Slash S2 | This fuel type is characterized by slash resulting from tractor or skidder clear-cut logging of mature to overmature stands of white spruce (<i>Picea glauca</i> (Moench) Voss) and sub-alpine fir (<i>Abies lasiocarpa</i> (Hook.) Nutt.) or balsam fir (<i>Abies balsamea</i> (L.) Mill.). Slash is typically one or two seasons old, retaining from 10% to 50% of the foliage on the branches. No post logging treatment has been applied. Fuel continuity may be broken by skid trails unless the site was logged in winter. Tops have been left on site, and most branch fuels have broken off during skidding of logs to landings, which results in moderate fuel loads and depths. Quantities of shattered large and rotten woody fuels may be significant. Ground cover is feather moss with considerable needle litter fallen from the slash. Organic layers are moderately deep and compact. |
| Coastal Cedar-Hemlock-Douglas-Fir Slash S3 | This fuel type is characterized by slash resulting from high lead clear cut logging of mature to overmature coastal British Columbia mixed conifer stands. Predominant species are western redcedar (<i>Thuja plicata</i> Donn.), western hemlock (<i>Tsuga heterophylla</i> (Raf.) Sarg.), and Douglas-fir (<i>Pseudotsuga menziesii</i> (Mirb.) Franco). Slash is typically one season old, with the cedar component retaining all its foliage in a cured condition on the branches, whereas the hemlock and Douglas-fir components will have dropped up to 50% of their foliage. Slash fuels tend to be continuous and uncompacted. Very large loadings of broken and rotten unmerchantable material may be present, depending on degree of stand decadence. Slash fuel depths may range from 0.5 to 2.0 m. Ground cover may be feather moss or just compact old needle litter under significant quantities of recent needle litter fallen from the slash. Organic layers are moderately deep to deep and compact. Minor to moderate shrub and herbaceous understory components may be present. This fuel type designation may also be applied to wet belt cedar-hemlock slash of coastal and interior British Columbia where the Douglas-fir component is absent. |
| Matted Grass O1a | This fuel type is characterized by continuous grass cover, with no more than occasional trees or shrub clumps that do not appreciably affect fire behavior. Two subtype designations are available for grasslands; one for the matted grass condition common after snowmelt or in the spring (O1-a) and the other for standing dead grass common in late summer to early fall (O1-b). The proportion of cured or dead material in grasslands has a pronounced effect on fire spread there and must be estimated with care. |
| Standing Grass O1b | This fuel type is characterized by continuous grass cover, with no more than occasional trees or shrub clumps that do not appreciably affect fire behavior. Two subtype designations are available for grasslands; one for the matted grass condition common after snowmelt or in the spring (O1-a) and the other for standing dead grass common in late summer to early fall (O1-b). The proportion of cured or dead material in grasslands has a pronounced effect on fire spread there and must be estimated with care. |
| Grass | O1a/O1b |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Boreal Mixedwood-Leafless M1 | This fuel type (and its "green" counterpart, M2) is characterized by stand mixtures consisting of the following coniferous and deciduous tree species in varying proportions: black spruce (<i>Picea mariana</i> (Mill.) B.S.P.), white spruce (<i>Picea glauca</i> (Moench) Voss), balsam fir (<i>Abies balsamea</i> (L.) Mill.), subalpine fir (<i>Abies lasiocarpa</i> (Hook.) Nutt.), trembling aspen (<i>Populus tremuloides</i> Michx.), and white birch (<i>Betula papyrifera</i> Marsh.). On any specific site, individual species can be present or absent from the mixture. In addition to the diversity in species composition, stands exhibit wide variability in structure and development, but are generally confined to moderately well drained upland sites. M1, the first phase of seasonal variation in flammability, occurs during the spring and fall. The rate of spread is weighted according to the proportion (expressed as a percentage) of softwood and hardwood components. |
| Boreal Mixedwood Green M2 | This fuel type (and its "leafless" counterpart, M1) is characterized by stand mixtures consisting of the following coniferous and deciduous tree species in varying proportions: black spruce (<i>Picea mariana</i> (Mill.) B.S.P.), white spruce (<i>Picea glauca</i> (Moench) Voss), balsam fir (<i>Abies balsamea</i> (L.) Mill.), subalpine fir (<i>Abies lasiocarpa</i> (Hook.) Nutt.), trembling aspen (<i>Populus tremuloides</i> Michx.), and white birch (<i>Betula papyrifera</i> Marsh.). On any specific site, individual species can be present or absent from the mixture. In addition to the diversity in species composition, stands exhibit wide variability in structure and development, but are generally confined to moderately well drained upland sites. M2, the second phase of seasonal variation in flammability, occurs during the summer. The rate of spread is weighted according to the proportion (expressed as a percentage) of softwood and hardwood components. In the summer, when the deciduous overstory and understory are in leaf, fire spread is greatly reduced, with maximum spread rates only one-fifth that of spring or fall fires under similar burning conditions. For purposes of refining fire behavior calculation this fuel type has been separated into three distinct classes based on the amount of softwood and/or hardwood that exists within the site. M2A denotes sites that are Boreal Mixwood that are green and < 25% conifer and ≥75% hardwood. M2B characterizes sites that are Boreal Mixwood that are green and 50/50 conifer/hardwood. M-2C depicts sites that are < 25% hardwood and ≥75% conifer. |
| Boreal Mixedwood | M1/M2 |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| Dead Balsam Fir Mixedwood-Leafless M3 | This fuel type (and its "green" counterpart, M4) is characterized by mixedwood stands in which balsamfir (<i>Abies balsamea</i> (L.) Mill.) grows, often as an understory species, in a heterogeneous mix with spruce (<i>Picea</i> spp.), pine (<i>Pinus</i> spp.), and birch (<i>Betula</i> spp.). These stands are found in the Great Lakes – St. Lawrence and Boreal Forest regions of Canada and are not to be confused with the pure balsam fir stands typical of Nova Scotia and New Brunswick. Repeated annual defoliation (due to spruce budworm (<i>Choristoneura fumiferana</i> Clemens) attack) causes balsam fir mortality, followed by peeling bark, draped lichen (Spanish moss or old man's beard, <i>Usnea</i> spp.) development, top breakage, and windthrow, peaking 5–8 years after mortality. The volume of down woody material is initially low but increases substantially with progressive stand decomposition following mortality. The forest floor is a mixture of feather mosses, conifer needles, and hardwood leaves. The organic layer is moderately compacted and 8–10 cm deep. After mortality, spring fires in this fuel type behave extremely vigorously, with continuous crowning and downwind spotting. |
| Dead Balsam Fir Mixedwood-Green M4 | This fuel type (and its "leafless" counterpart, M3) is characterized by mixedwood stands in which balsam fir (<i>Abies balsamea</i> (L.) Mill.) grows, often as an understory species, in a heterogeneous mix with spruce (<i>Picea</i> spp.), pine (<i>Pinus</i> spp.), and birch (<i>Betula</i> spp.). These stands are found in the Great Lakes – St. Lawrence and Boreal Forest regions of Canada and are not to be confused with the pure balsam fir stands typical of Nova Scotia and New Brunswick. Repeated annual defoliation (due to spruce budworm (<i>Choristoneura fumiferana</i> Clemens) attack) causes balsam fir mortality, followed by peeling bark, draped lichen (Spanish moss or old man's beard, <i>Usnea</i> spp.) development, top breakage, and windthrow, peaking 5–8 years after mortality. The volume of down woody material is initially low but increases substantially with progressive stand decomposition following mortality. The forest floor is a mixture of feather mosses, conifer needles, and hardwood leaves. The organic layer is moderately compacted and 8–10 cm deep. Summer fires are hampered by the proliferation of green understory vegetation resulting from the opening of stand canopy. As sufficient surface fuel accumulates through stand decomposition (usually after 4–5 years), fires will spread through the fuel complex, although not as vigorously as in spring. Forest fire behavior potential is greatest 5–8 years after mortality, decreasing gradually as the surface fuels decompose and the understory vegetation continues to proliferate. For purposes of refining fire behavior calculation this fuel type has been separated into three distinct classes based on the amount of softwood and/or hardwood that exists within the site. M-4A denotes sites that are Boreal Mixwood that are green and < 25% conifer and ≥75% hardwood. M-4B characterizes sites that are Boreal Mixwood that are green and 50% conifer and 50% hardwood. M-4C depicts sites that are < 25% hardwood and ≥75% conifer. |
| Dead Balsam Fir Mixedwood | M3/M4 |
| Not Available | Non-fuel |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| Non-fuel | Non-fuel |
| Water | Non-fuel |
| Unknown | Non-fuel |
| Unclassified | Non-fuel |
| Vegetated Non-Fuel | Non-fuel |
| FUEL_TYPE | Canadian Forest Fire Danger Rating System fuel type designator. These fuel types have been defined "as an identifiable association of fuel elements of distinctive species, form, size, arrangement, and continuity that will exhibit characteristic fire behavior under defined burning conditions" (Pyne, Andrews and Laven, 1996). The Canadian Fire Behavior Protection System arranges fuel types into five major groups with 16 discrete fuel types which are qualitatively distinguished by variations in their forest floor and organic layer, their surface and ladder fuels, and their stand structure and composition. |
| C | Spruce-Lichen Woodland, Boreal Spruce, Mature Jack or Lodgepole Pine, Immature Jack or Lodgepole Pine, Red and White Pine, Conifer Plantation, and Ponderosa Pine-Douglas-Fir. See the attribute table for more specific details and values. |
| D | Leafless Aspen, Green Aspen, and Aspen. See the attribute table for more specific details and values. |
| S | Jack or Lodgepole Pine Slash, White Spruce-Balsam Slash, or Coastal Cedar-Hemlock-Douglas-Fir Slash. See the attribute table for more specific details and values. |
| O | Matted Grass, Standing Grass, or Grass. See the attribute table for more specific details and values. |
| M | Boreal Mixedwood or Dead Balsam Fir Mixedwood. See the attribute table for more specific details and values. |
| Non-fuel | Not available, Non-fuel, Unknown, Unclassified, Water, and Vegetated Non-Fuel. See the attribute table for more specific details and values. |
| HUE | Hue is the color of a point, as found along the spectrum or around a color wheel. |
| SATURATION | Saturation is an indicator of the intensity of a hue. Higher saturation hues appear 'stronger', for example being 'more red' or 'more blue'. |
| LIGHTNESS | Lightness is a measure of how bright or dark a hue is. Physically, this is found in the amplitude and consequent energy of the electromagnetic waves of light. |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.3.5 Canopy Height (CH) LF 2022

| LANDFIRE Forest Canopy Height Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | Forest canopy height (CH) describes the average height of the top of the canopy for a stand, and is described as class midpoints of canopy height meters * 10. |
| -9999 | Fill - NoData |
| 0 | All non - forest values, including herbaceous and most shrub systems and non-burnable types such as urban, barren, snow and ice, and agriculture. |
| 30 | Forest Height 1.8 - <5 meters |
| 70 | Forest Height 5 - <9 meters |
| 110 | Forest Height 9 - <13 meters |
| 150 | Forest Height 13 - <17 meters |
| 190 | Forest Height 17 - <21 meters |
| 230 | Forest Height 21 - <25 meters |
| 270 | Forest Height 25 - <29 meters |
| 310 | Forest Height 29 - <33 meters |
| 350 | Forest Height 33 - <37 meters |
| 390 | Forest Height 37 - <41 meters |
| 430 | Forest Height 41 - <45 meters |
| 470 | Forest Height 45 - <49 meters |
| 510 | Forest Height ≥50 meters |
| Count | Number of pixels for the corresponding value. |
| MetersX10 | Display attribute, canopy height meters * 10 midpoints. |
| Forest Height 1.8 to 5 meters | Midpoint of forest canopy 1.8 - <5 meters |
| Forest Height 5 to 9 meters | Midpoint of forest canopy 5 - <9 meters |
| Forest Height 9 to 13 meters | Midpoint of forest canopy 9 - <13 meters |
| Forest Height 13 to 17 meters | Midpoint of forest canopy 13 - <17 meters |
| Forest Height 17 to 21 meters | Midpoint of forest canopy 17 - <21 meters |
| Forest Height 21 to 25 meters | Midpoint of forest canopy 21 - <25 meters |
| Forest Height 25 to 29 meters | Midpoint of forest canopy 25 - <29 meters |
| Forest Height 29 to 33 meters | Midpoint of forest canopy 29 - <33 meters |
| Forest Height 33 to 37 meters | Midpoint of forest canopy 33 - <37 meters |

| LANDFIRE Forest Canopy Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| Forest Height 37 to 41 meters | Midpoint of forest canopy 37 - <41 meters |
| Forest Height 41 to 45 meters | Midpoint of forest canopy 41 - <45 meters |
| Forest Height 45 to 49 meters | Midpoint of forest canopy 45 - <49 meters |
| Forest Height > 50 meters | Midpoint of forest canopy ≥ 50 meters |
| MetersX10 | Canopy height in meters. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| Red | Red color value range 0 - 1 |
| Green | Green color value range 0 - 1 |
| Blue | Blue color value range 0 - 1 |

4.3.6 Fuel Disturbance (FDist) LF 2022

| LANDFIRE Fuel Disturbance Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | FDistYEAR grids are a composite of the disturbance grids recoded by disturbance type, disturbance severity, and time since disturbance to meet LANDFIRE fuel assignment needs, with the latest disturbance taking precedence. Value is represented by a 3 digit code. |
| 111 - 733 | Code denotes disturbance type, severity, and time since disturbance. |
| -1111 | Fill - Not Mapped |
| -9999 | Fill - NoData |
| 0 | No disturbance. |
| Count | Number of pixels for the corresponding value |
| D_TYPE | A general category of disturbance derived from the dist_type attribute in the disturbance grids. |
| No Disturbance (0) | No disturbance detected or reported. |
| Fire (1) | Any non-structure fire that occurs in the wildland. Three distinct types of wildland fire have been defined: wildfire, wildland fire use, and prescribed fire. |
| Mechanical Add (2) | A means by which vegetation is mechanically "mowed" or "chipped" into small pieces and changed from a vertical to horizontal arrangement of fuel. |
| Mechanical Remove (3) | A general term for the cutting, felling, and gathering of forest timber. |
| Windthrow (4) | A weather related event that results in loss of vegetation such as blowdown, hurricane, or tornado. |
| Insects-Disease (5) | Any Infestations of insects and/or disease that can affect vegetative health. |

| LANDFIRE Fuel Disturbance Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Mechanical Unknown (6) | A code to indicate unknown disturbance type. |
| Mastication (7) | Mechanical chipping of vegetation at low, moderate, or high severity, to reduce fuel bed orientation and fuel bed depth. |
| D_SEVERITY | Classification level of disturbance associated with effect on landcover |
| Low (1) | General classification level associated with low effect on landcover |
| Medium (2) | General classification level associated with medium effect on landcover |
| High (3) | General classification level associated with high effect on landcover |
| D_TIME | Time from YEAR since disturbance |
| one year (1) | One year from YEAR since disturbance |
| two - five years (2) | Two to five years from YEAR since disturbance |
| six - ten years (3) | Six to ten years from YEAR since disturbance |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.3.7 Fire Behavior Fuel Model 13 (FBFM13) LF 2022

| LANDFIRE Fire Behavior Fuel Model 13 Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| VALUE | Thirteen typical surface fuel arrangements or "collections of fuel properties" (Anderson 1982) were described to serve as input for Rothermel's mathematical surface fire behavior and spread model (Rothermel 1972). 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. |
| -9999 | Fill - NoData |
| 1 | FBFM1 |
| 2 | FBFM2 |
| 3 | FBFM3 |
| 4 | FBFM4 |
| 5 | FBFM5 |
| 6 | FBFM6 |
| 7 | FBFM7 |
| 8 | FBFM8 |

| LANDFIRE Fire Behavior Fuel Model 13 Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| 9 | FBFM9 |
| 10 | FBFM10 |
| 11 | FBFM11 |
| 12 | FBFM12 |
| 13 | FBFM13 |
| 91 | Urban |
| 92 | Snow/Ice |
| 93 | Agriculture |
| 98 | Water |
| 99 | Barren |
| Count | number of pixels for the corresponding value |
| FBFM13 | Display attribute, fire behavior 13 fuel model |
| FBFM1 | Surface fires that burn fine herbaceous fuels, cured and curing fuels, little shrub or timber present, primarily grasslands and savanna |
| FBFM2 | Burns fine, herbaceous fuels, stand is curing or dead, may produce fire brands on oak or pine stands |
| FBFM3 | Most intense fire of grass group, spreads quickly with wind, one third of stand dead or cured, stands average 3 ft tall |
| FBFM4 | Fast spreading fire, continuous overstory, flammable foliage and dead woody material, deep litter layer can inhibit suppression |
| FBFM5 | Low intensity fires, young, green shrubs with little dead material, fuels consist of litter from understory |
| FBFM6 | Broad range of shrubs, fire requires moderate winds to maintain flame at shrub height, or will drop to the ground with low winds |
| FBFM7 | Foliage highly flammable, allowing fire to reach shrub strata levels, shrubs generally 2 to 6 feet high |
| FBFM8 | Slow, ground burning fires, closed canopy stands with short needle conifers or hardwoods, litter consist mainly of needles and leaves, with little undergrowth, occasional flares with concentrated fuels |
| FBFM9 | Longer flames, quicker surface fires, closed canopy stands of long-needles or hardwoods, rolling leaves in fall can cause spotting, dead-down material can cause occasional crowning |
| FBFM10 | Surface and ground fire more intense, dead-down fuels more abundant, frequent crowning and spotting causing fire control to be more difficult |
| FBFM11 | Fairly active fire, fuels consist of slash and herbaceous materials, slash originates from light partial cuts or thinning projects, fire is limited by spacing of fuel load and shade from overstory |
| FBFM12 | Rapid spreading and high intensity fires, dominated by slash resulting from heavy thinning projects and clearcuts, slash is mostly 3 inches or less |

| LANDFIRE Fire Behavior Fuel Model 13 Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| FBFM13 | Fire spreads quickly through smaller material and intensity builds slowly as large material ignites, continuous layer of slash larger than 3 inches in diameter predominates, resulting from clearcuts and heavy partial cuts, active flames sustained for long periods of time, fire is susceptible to spotting and weather conditions |
| Urban | Urban |
| Snow/Ice | Snow/Ice |
| Agriculture | Agriculture |
| Water | Water |
| Barren | Barren |
| R | Red color range/255 |
| G | Green color range/255 |
| B | Blue color range/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.3.8 Fire Behavior Fuel Model 40 (FBFM40) LF 2022

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| VALUE | 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). |
| -9999 | Fill - NoData |
| 91 | NB1 |
| 92 | NB2 |
| 93 | NB3 |
| 98 | NB8 |
| 99 | NB9 |
| 101 | GR1 |
| 102 | GR2 |
| 103 | GR3 |
| 104 | GR4 |
| 105 | GR5 |
| 106 | GR6 |
| 107 | GR7 |
| 108 | GR8 |

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| 109 | GR9 |
| 121 | GS1 |
| 122 | GS2 |
| 123 | GS3 |
| 124 | GS4 |
| 141 | SH1 |
| 142 | SH2 |
| 143 | SH3 |
| 144 | SH4 |
| 145 | SH5 |
| 146 | SH6 |
| 147 | SH7 |
| 148 | SH8 |
| 149 | SH9 |
| 161 | TU1 |
| 162 | TU2 |
| 163 | TU3 |
| 164 | TU4 |
| 165 | TU5 |
| 181 | TL1 |
| 182 | TL2 |
| 183 | TL3 |
| 184 | TL4 |
| 185 | TL5 |
| 186 | TL6 |
| 187 | TL7 |
| 188 | TL8 |
| 189 | TL9 |
| 201 | SB1 |
| 202 | SB2 |
| 203 | SB3 |
| 204 | SB4 |
| Count | number of pixels for the corresponding value |
| FBFM | Display attribute. FBFM Description |
| NB1 | Urban/Developed |
| NB2 | Snow/Ice |
| NB3 | Agricultural |
| NB8 | Open Water |

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| 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 high 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 flame 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 depth about 3 feet, spread rate high and flame moderate |
| SH5 | High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction 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 |

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| 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 tall, 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 timber 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, spread 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 is very low 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 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 moderate and flame low |
| SB3 | High load activity fuel or moderate load blowdown, heavy dead down activity fuel or moderate blowdown, 7-12 t/ac, 0-.25 inch diameter class, depth > 1 foot, blowdown moderate trees compacted to near the ground, spread rate and flame high |
| SB4 | High load blowdown, heavy blowdown fuel, blowdown is total fuelbed not compacted, foliage and fine fuel still attached to blowdown, spread rate and flame very high |

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|---------------------------------|
| Attribute | Description |
| R | Red color value range 0 - 255 |
| G | Green color value range 0 - 255 |
| B | Blue color value range 0 - 255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.3.9 Fuel Vegetation Cover (FVC) LF 2022

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| VALUE | 2-3 digit code representing the land cover type or depicts percent canopy cover by life form. FVC has a potential range of 0 - 100 percent canopy cover. Values are binned into discrete classes (up to 10 bins at 10 percent intervals for tree, shrub and herbaceous canopy cover). |
| -9999 | Fill - NoData |
| 11 | Open Water |
| 12 | Snow/Ice |
| 13 | Developed-Upland Deciduous Forest |
| 14 | Developed-Upland Evergreen Forest |
| 15 | Developed-Upland Mixed Forest |
| 16 | Developed-Upland Herbaceous |
| 17 | Developed-Upland Shrubland |
| 18 | Developed-Herbaceous Wetland Vegetation |
| 19 | Developed-Woody Wetland Vegetation |
| 20 | Developed - General |
| 21 | Developed - Open Space |
| 22 | Developed - Low Intensity |
| 23 | Developed - Medium Intensity |
| 24 | Developed - High Intensity |
| 25 | Developed-Roads |
| 31 | Barren |
| 32 | Quarries-Strip Mines-Gravel Pits |
| 60 | NASS-Orchard |
| 61 | NASS-Vineyard |
| 62 | NASS-Bush fruit and berries |
| 63 | NASS-Row Crop-Close Grown Crop |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| 64 | NASS-Row Crop |
| 65 | NASS-Close Grown Crop |
| 66 | NASS-Fallow/Idle Cropland |
| 67 | NASS-Pasture and Hayland |
| 68 | NASS-Wheat |
| 69 | NASS-Aquaculture |
| 75 | Herbaceous Semi-dry |
| 76 | Herbaceous Semi-wet |
| 78 | Recently Disturbed Forest |
| 80 | Agriculture |
| 81 | Pasture/Hay |
| 82 | Cultivated Crops |
| 83 | Small Grains |
| 84 | Fallow |
| 85 | Urban-Recreational Grasses |
| 95 | Herbaceous Wetlands |
| 100 | Sparse Vegetation Canopy |
| 101 | Tree Cover ≥ 10 and $< 20\%$ |
| 102 | Tree Cover ≥ 20 and $< 30\%$ |
| 103 | Tree Cover ≥ 30 and $< 40\%$ |
| 104 | Tree Cover ≥ 40 and $< 50\%$ |
| 105 | Tree Cover ≥ 50 and $< 60\%$ |
| 106 | Tree Cover ≥ 60 and $< 70\%$ |
| 107 | Tree Cover ≥ 70 and $< 80\%$ |
| 108 | Tree Cover ≥ 80 and $< 90\%$ |
| 109 | Tree Cover ≥ 90 and $\leq 100\%$ |
| 111 | Shrub Cover ≥ 10 and $< 20\%$ |
| 112 | Shrub Cover ≥ 20 and $< 30\%$ |
| 113 | Shrub Cover ≥ 30 and $< 40\%$ |
| 114 | Shrub Cover ≥ 40 and $< 50\%$ |
| 115 | Shrub Cover ≥ 50 and $< 60\%$ |
| 116 | Shrub Cover ≥ 60 and $< 70\%$ |
| 117 | Shrub Cover ≥ 70 and $< 80\%$ |
| 118 | Shrub Cover ≥ 80 and $< 90\%$ |
| 119 | Shrub Cover ≥ 90 and $\leq 100\%$ |
| 121 | Herb Cover ≥ 10 and $< 20\%$ |
| 122 | Herb Cover ≥ 20 and $< 30\%$ |
| 123 | Herb Cover ≥ 30 and $< 40\%$ |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| 124 | Herb Cover >= 40 and < 50% |
| 125 | Herb Cover >= 50 and < 60% |
| 126 | Herb Cover >= 60 and < 70% |
| 127 | Herb Cover >= 70 and < 80% |
| 128 | Herb Cover >= 80 and < 90% |
| 129 | Herb Cover >= 90 and <= 100% |
| 150 | Sparse Vegetation Canopy |
| 151 | Tree Canopy >= 10 and < 25% |
| 152 | Tree Canopy >= 25 and < 60% |
| 153 | Tree Canopy >= 60 and <= 100% |
| 161 | Shrub Canopy >= 10 and < 25% |
| 162 | Shrub Canopy >= 25 and < 60% |
| 163 | Shrub Canopy >= 60 and <= 100% |
| 171 | Herb Canopy >= 10 and < 60% |
| 172 | Herb Canopy >= 60 and <= 100% |
| CLASSNAMES | Display attribute. FVC is EVC that has been binned to facilitate fuel rule assignment. |
| NoData | No data background value. |
| Open Water | LANDFIRE Mapped. |
| Snow/Ice | NLCD 2011 Snow/Ice |
| Developed-Upland Deciduous Forest | LANDFIRE Mapped. |
| Developed-Upland Evergreen Forest | LANDFIRE Mapped. |
| Developed-Upland Mixed Forest | LANDFIRE Mapped. |
| Developed-Upland Herbaceous | LANDFIRE Mapped. |
| Developed-Upland Shrubland | LANDFIRE Mapped. |
| Developed-Herbaceous Wetland Vegetation | LANDFIRE Mapped. |
| Developed-Woody Wetland Vegetation | LANDFIRE Mapped. |
| Developed - General | LANDFIRE Mapped. |
| Developed - Open Space | LANDFIRE Mapped. |
| Developed - Low Intensity | LANDFIRE Mapped. |
| Developed - Medium Intensity | LANDFIRE Mapped. |
| Developed - High Intensity | LANDFIRE Mapped. |
| Developed-Roads | LANDFIRE Mapped. |
| Barren | LANDFIRE Mapped. |
| Quarries-Strip Mines-Gravel Pits | LANDFIRE Mapped using information from multiple sources. |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| NASS-Orchard | Agricultural mapping from NASS and local sources if available. |
| NASS-Vineyard | Agricultural mapping from NASS and local sources if available. |
| NASS-Bush fruit and berries | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Fallow/Idle Cropland | Agricultural mapping from NASS and local sources if available. |
| NASS-Pasture and Hayland | Agricultural mapping from NASS and local sources if available. |
| NASS-Wheat | Agricultural mapping from NASS and local sources if available. |
| NASS-Aquaculture | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Semi-dry | LANDFIRE Mapped. |
| Herbaceous Semi-wet | LANDFIRE Mapped. |
| Recently Disturbed Forest | LANDFIRE Mapped. |
| Agriculture - General | Agricultural mapping from NASS and local sources if available. |
| Pasture/Hay | Agricultural mapping from NASS and local sources if available. |
| Cultivated Crops | Agricultural mapping from NASS and local sources if available. |
| Small Grains | Agricultural mapping from NASS and local sources if available. |
| Fallow | Agricultural mapping from NASS and local sources if available. |
| Urban-Recreational Grasses | LANDFIRE Mapped. |
| Herbaceous Wetlands | LANDFIRE Mapped. |
| Sparse Vegetation Canopy | LANDFIRE continuous EVC < 10% |
| Tree Cover >= 10 and < 20% | LANDFIRE continuous EVC binned to Tree Cover >= 10 and < 20% |
| Tree Cover >= 20 and < 30% | LANDFIRE continuous EVC binned to Tree Cover >= 20 and < 30% |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Tree Cover >= 30 and < 40% | LANDFIRE continuous EVC binned to Tree Cover >= 30 and < 40% |
| Tree Cover >= 40 and < 50% | LANDFIRE continuous EVC binned to Tree Cover >= 40 and < 50% |
| Tree Cover >= 50 and < 60% | LANDFIRE continuous EVC binned to Tree Cover >= 50 and < 60% |
| Tree Cover >= 60 and < 70% | LANDFIRE continuous EVC binned to Tree Cover >= 60 and < 70% |
| Tree Cover >= 70 and < 80% | LANDFIRE continuous EVC binned to Tree Cover >= 70 and < 80% |
| Tree Cover >= 80 and < 90% | LANDFIRE continuous EVC binned to Tree Cover >= 80 and < 90% |
| Tree Cover >= 90 and <= 100% | LANDFIRE continuous EVC binned to Tree Cover >= 90 and <= 100% |
| Shrub Cover >= 10 and < 20% | LANDFIRE continuous EVC binned to Shrub Cover >= 10 and < 20% |
| Shrub Cover >= 20 and < 30% | LANDFIRE continuous EVC binned to Shrub Cover >= 20 and < 30% |
| Shrub Cover >= 30 and < 40% | LANDFIRE continuous EVC binned to Shrub Cover >= 30 and < 40% |
| Shrub Cover >= 40 and < 50% | LANDFIRE continuous EVC binned to Shrub Cover >= 40 and < 50% |
| Shrub Cover >= 50 and < 60% | LANDFIRE continuous EVC binned to Shrub Cover >= 50 and < 60% |
| Shrub Cover >= 60 and < 70% | LANDFIRE continuous EVC binned to Shrub Cover >= 60 and < 70% |
| Shrub Cover >= 70 and < 80% | LANDFIRE continuous EVC binned to Shrub Cover >= 70 and < 80% |
| Shrub Cover >= 80 and < 90% | LANDFIRE continuous EVC binned to Shrub Cover >= 80 and < 90% |
| Shrub Cover >= 90 and <= 100% | LANDFIRE continuous EVC binned to Shrub Cover >= 90 and <= 100% |
| Herb Cover >= 10 and < 20% | LANDFIRE continuous EVC binned to Herb Cover >= 10 and < 20% |
| Herb Cover >= 20 and < 30% | LANDFIRE continuous EVC binned to Herb Cover >= 20 and < 30% |
| Herb Cover >= 30 and < 40% | LANDFIRE continuous EVC binned to Herb Cover >= 30 and < 40% |
| Herb Cover >= 40 and < 50% | LANDFIRE continuous EVC binned to Herb Cover >= 40 and < 50% |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Herb Cover >= 50 and < 60% | LANDFIRE continuous EVC binned to Herb Cover >= 50 and < 60% |
| Herb Cover >= 60 and < 70% | LANDFIRE continuous EVC binned to Herb Cover >= 60 and < 70% |
| Herb Cover >= 70 and < 80% | LANDFIRE continuous EVC binned to Herb Cover >= 70 and < 80% |
| Herb Cover >= 80 and < 90% | LANDFIRE continuous EVC binned to Herb Cover >= 80 and < 90% |
| Herb Cover >= 90 and <= 100% | LANDFIRE continuous EVC binned to Herb Cover >= 90 and <= 100% |
| Sparse Vegetation Canopy | LANDFIRE continuous EVC < 10% |
| Tree Canopy >= 10 and < 25% | LANDFIRE continuous EVC binned to Tree Canopy >= 10 and < 25% |
| Tree Canopy >= 25 and < 60% | LANDFIRE continuous EVC binned to Tree Canopy >= 25 and < 60% |
| Tree Canopy >= 60 and <= 100% | LANDFIRE continuous EVC binned to Tree Canopy >= 60 and <= 100% |
| Shrub Canopy >= 10 and < 25% | LANDFIRE continuous EVC binned to Shrub Canopy >= 10 and < 25% |
| Shrub Canopy >= 25 and < 60% | LANDFIRE continuous EVC binned to Shrub Canopy >= 25 and < 60% |
| Shrub Canopy >= 60 and <= 100% | LANDFIRE continuous EVC binned to Shrub Canopy >= 60 and <= 100% |
| Herb Canopy >= 10 and < 60% | LANDFIRE continuous EVC binned to Herb Canopy >= 10 and < 60% |
| Herb Canopy >= 60 and <= 100% | LANDFIRE continuous EVC binned to Herb Canopy >= 60 and <= 100% |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.3.10 Fuel Vegetation Height (FVH) LF 2022

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | 2-3 digit code representing the land cover type or depicts canopy height by life form. FVH product represents the average height of the dominant vegetation for a 30-m grid cell and is binned separately for each life form. |
| -9999 | Fill - NoData |
| 11 | Open Water |
| 12 | Snow/Ice |
| 13 | Developed-Upland Deciduous Forest |
| 14 | Developed-Upland Evergreen Forest |
| 15 | Developed-Upland Mixed Forest |
| 16 | Developed-Upland Herbaceous |
| 17 | Developed-Upland Shrubland |
| 18 | Developed-Herbaceous Wetland Vegetation |
| 19 | Developed-Woody Wetland Vegetation |
| 20 | Developed-General |
| 21 | Developed-Open |
| 22 | Developed - Low Intensity |
| 23 | Developed - Medium Intensity |
| 24 | Developed - High Intensity |
| 25 | Developed-Roads |
| 31 | Barren |
| 32 | Quarries-Strip Mines-Gravel Pits |
| 60 | Orchard |
| 61 | NASS-Vineyard |
| 62 | Bush fruit |
| 63 | NASS-Row Crop-Close Grown Crop |
| 64 | NASS-Row Crop |
| 65 | NASS-Close Grown Crop |
| 66 | Fallow/Idle |
| 68 | NASS-Wheat |
| 69 | NASS-Aquaculture |
| 75 | Herbaceous Semi-dry |
| 76 | Herbaceous Semi-wet |
| 80 | Agriculture |
| 81 | Pasture/Hay |
| 82 | Cultivated Crops |
| 83 | Small Grains |

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| 84 | Fallow Idle Crop |
| 95 | Herbaceous Wetlands |
| 100 | Sparse Vegetation Height |
| 425 | Herb Height 0 - <0.5 meters |
| 475 | Herb Height 0.5 - <1.0 meters |
| 499 | Herb Height ≥ 1.0 meter |
| 502 | Shrub Height 0 - <0.5 meters |
| 507 | Shrub Height 0.5 - <1.0 meter |
| 520 | Shrub Height 1.0 - <3.0 meters |
| 530 | Shrub Height ≥3.0 meters |
| 603 | Forest Height 1.8 - <5 meters |
| 607 | Forest Height 5 - <9 meters |
| 611 | Forest Height 9 - <13 meters |
| 615 | Forest Height 13 - <17 meters |
| 619 | Forest Height 17 - <21 meters |
| 623 | Forest Height 21 - <25 meters |
| 627 | Forest Height 25 - <29 meters |
| 631 | Forest Height 29 - <33 meters |
| 635 | Forest Height 33 - <37 meters |
| 639 | Forest Height 37 - <41 meters |
| 643 | Forest Height 41 - <45 meters |
| 647 | Forest Height 45 - <49 meters |
| 651 | Forest Height ≥49 meters |
| EVH | Existing Vegetation Height (EVH) value. |
| CLASSNAMES | Detail Attribute. FVH is EVH that has been binned to facilitate fuel rule assignment. |
| NoData | No data background value. |
| Open Water | LANDFIRE Mapped. |
| Snow/Ice | NLCD 2011 Snow/Ice. |
| Developed-Upland Deciduous Forest | LANDFIRE Mapped. |
| Developed-Upland Evergreen Forest | LANDFIRE Mapped. |
| Developed-Upland Mixed Forest | LANDFIRE Mapped. |
| Developed-Upland Herbaceous | LANDFIRE Mapped. |
| Developed-Upland Shrubland | LANDFIRE Mapped. |
| Developed-Herbaceous Wetland Vegetation | LANDFIRE Mapped. |

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Developed-Woody Wetland Vegetation | LANDFIRE Mapped. |
| Developed-General | LANDFIRE Mapped. |
| Developed-Open | LANDFIRE Mapped. |
| Developed - Low Intensity | LANDFIRE Mapped. |
| Developed - Medium Intensity | LANDFIRE Mapped. |
| Developed - High Intensity | LANDFIRE Mapped. |
| Developed-Roads | LANDFIRE Mapped. |
| Barren | LANDFIRE Mapped. |
| Quarries-Strip Mines-Gravel Pits | LANDFIRE Mapped using information from multiple sources. |
| Orchard | Agricultural mapping from NASS and local sources if available. |
| NASS-Vineyard | Agricultural mapping from NASS and local sources if available. |
| Bush fruit | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| Fallow/Idle | Agricultural mapping from NASS and local sources if available. |
| NASS-Wheat | Agricultural mapping from NASS and local sources if available. |
| NASS-Aquaculture | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Semi-dry | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Semi-wet | LANDFIRE Mapped. |
| Agriculture-General | LANDFIRE Mapped. |
| Pasture/Hay | LANDFIRE Mapped. |
| Cultivated Crops | Agricultural mapping from NASS and local sources if available. |
| Small Grains | Agricultural mapping from NASS and local sources if available. |
| Fallow Idle Crop | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Wetlands | LANDFIRE Mapped. |
| Sparse Vegetation Height | Height class for sparse vegetation. |
| Herb Height 0 to 0.5 meters | LANDFIRE continuous EVH binned to Herb Height 0 to 0.5 meters |
| Herb Height 0.5 to 1.0 meters | LANDFIRE continuous EVH binned to Herb Height 0.5 to 1.0 meters |
| Herb Height > 1.0 meter | LANDFIRE continuous EVH binned to Herb Height > 1.0 meter |
| Shrub Height 0 to 0.5 meters | LANDFIRE continuous EVH binned to Shrub Height 0 to 0.5 meters |
| Shrub Height 0.5 to 1.0 meter | LANDFIRE continuous EVH binned to Shrub Height 0.5 to 1.0 meter |
| Shrub Height 1.0 to 3.0 meters | LANDFIRE continuous EVH binned to Shrub Height 1.0 to 3.0 meters |
| Shrub Height > 3.0 meters | LANDFIRE continuous EVH binned to Shrub Height > 3.0 meters |

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| Forest Height 1.8 to 5 meters | LANDFIRE continuous EVH binned to Forest Height 1.8 to 5 meters |
| Forest Height 5 to 9 meters | LANDFIRE continuous EVH binned to Forest Height 5 to 9 meters |
| Forest Height 9 to 13 meters | LANDFIRE continuous EVH binned to Forest Height 9 to 13 meters |
| Forest Height 13 to 17 meters | LANDFIRE continuous EVH binned to Forest Height 13 to 17 meters |
| Forest Height 17 to 21 meters | LANDFIRE continuous EVH binned to Forest Height 17 to 21 meters |
| Forest Height 21 to 25 meters | LANDFIRE continuous EVH binned to Forest Height 21 to 25 meters |
| Forest Height 25 to 29 meters | LANDFIRE continuous EVH binned to Forest Height 25 to 29 meters |
| Forest Height 29 to 33 meters | LANDFIRE continuous EVH binned to Forest Height 29 to 33 meters |
| Forest Height 33 to 37 meters | LANDFIRE continuous EVH binned to Forest Height 33 to 37 meters |
| Forest Height 37 to 41 meters | LANDFIRE continuous EVH binned to Forest Height 37 to 41 meters |
| Forest Height 41 to 45 meters | LANDFIRE continuous EVH binned to Forest Height 41 to 45 meters |
| Forest Height 45 to 49 meters | LANDFIRE continuous EVH binned to Forest Height 45 to 49 meters |
| Forest Height > 50 meters | LANDFIRE continuous EVH binned to Forest Height > 50 meters |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.3.11 Fuel Vegetation Type (FVT) LF 2022

| LANDFIRE Fuel Vegetation Type Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | The LANDFIRE (LF) assigned code identifying fuel vegetation and land cover types. |
| 11 to 4802 | Numerical code for FVT. |
| -9999 | Fill - NoData |
| Count | The number of pixels for the corresponding value |
| EVT_FUEL | The LF assigned code identifying fuel vegetation and land cover types. |

| LANDFIRE Fuel Vegetation Type Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| EVT_FUEL_N | Fuels Vegetation Type (FVT) represents the name of the terrestrial ecological systems classification developed by NatureServe for the western hemisphere and is an important input to LF fuel mapping. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.4 Vegetation Products

4.4.1 Existing Vegetation Cover (EVC) LF 2022

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| VALUE | Existing vegetation cover (EVC) depicts percent canopy cover by life form. EVC has a potential range of 10 - 100 percent canopy cover. |
| -9999 | Fill - NoData |
| 11 | Open Water |
| 12 | Snow/Ice |
| 13 | Developed-Upland Deciduous Forest |
| 14 | Developed-Upland Evergreen Forest |
| 15 | Developed-Upland Mixed Forest |
| 16 | Developed-Upland Herbaceous |
| 17 | Developed-Upland Shrubland |
| 22 | Developed - Low Intensity |
| 23 | Developed - Medium Intensity |
| 24 | Developed - High Intensity |
| 25 | Developed-Roads |
| 31 | Barren |
| 32 | Quarries-Strip Mines-Gravel Pits-Well and Wind Pads |
| 61 | NASS-Vineyard |
| 63 | NASS-Row Crop-Close Grown Crop |
| 64 | NASS-Row Crop |
| 65 | NASS-Close Grown Crop |
| 68 | NASS-Wheat |
| 69 | NASS-Aquaculture |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|--------------------------|
| Attribute | Description |
| 82 | Cultivated Crops |
| 100 | Sparse Vegetation Canopy |
| 110 | Tree Cover = 10% |
| 111 | Tree Cover = 11% |
| 112 | Tree Cover = 12% |
| 113 | Tree Cover = 13% |
| 114 | Tree Cover = 14% |
| 115 | Tree Cover = 15% |
| 116 | Tree Cover = 16% |
| 117 | Tree Cover = 17% |
| 118 | Tree Cover = 18% |
| 119 | Tree Cover = 19% |
| 120 | Tree Cover = 20% |
| 121 | Tree Cover = 21% |
| 122 | Tree Cover = 22% |
| 123 | Tree Cover = 23% |
| 124 | Tree Cover = 24% |
| 125 | Tree Cover = 25% |
| 126 | Tree Cover = 26% |
| 127 | Tree Cover = 27% |
| 128 | Tree Cover = 28% |
| 129 | Tree Cover = 29% |
| 130 | Tree Cover = 30% |
| 131 | Tree Cover = 31% |
| 132 | Tree Cover = 32% |
| 133 | Tree Cover = 33% |
| 134 | Tree Cover = 34% |
| 135 | Tree Cover = 35% |
| 136 | Tree Cover = 36% |
| 137 | Tree Cover = 37% |
| 138 | Tree Cover = 38% |
| 139 | Tree Cover = 39% |
| 140 | Tree Cover = 40% |
| 141 | Tree Cover = 41% |
| 142 | Tree Cover = 42% |
| 143 | Tree Cover = 43% |
| 144 | Tree Cover = 44% |
| 145 | Tree Cover = 45% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| 146 | Tree Cover = 46% |
| 147 | Tree Cover = 47% |
| 148 | Tree Cover = 48% |
| 149 | Tree Cover = 49% |
| 150 | Tree Cover = 50% |
| 151 | Tree Cover = 51% |
| 152 | Tree Cover = 52% |
| 153 | Tree Cover = 53% |
| 154 | Tree Cover = 54% |
| 155 | Tree Cover = 55% |
| 156 | Tree Cover = 56% |
| 157 | Tree Cover = 57% |
| 158 | Tree Cover = 58% |
| 159 | Tree Cover = 59% |
| 160 | Tree Cover = 60% |
| 161 | Tree Cover = 61% |
| 162 | Tree Cover = 62% |
| 163 | Tree Cover = 63% |
| 164 | Tree Cover = 64% |
| 165 | Tree Cover = 65% |
| 166 | Tree Cover = 66% |
| 167 | Tree Cover = 67% |
| 168 | Tree Cover = 68% |
| 169 | Tree Cover = 69% |
| 170 | Tree Cover = 70% |
| 171 | Tree Cover = 71% |
| 172 | Tree Cover = 72% |
| 173 | Tree Cover = 73% |
| 174 | Tree Cover = 74% |
| 175 | Tree Cover = 75% |
| 176 | Tree Cover = 76% |
| 177 | Tree Cover = 77% |
| 178 | Tree Cover = 78% |
| 179 | Tree Cover = 79% |
| 180 | Tree Cover = 80% |
| 181 | Tree Cover = 81% |
| 182 | Tree Cover = 82% |
| 183 | Tree Cover = 83% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|-------------------|
| Attribute | Description |
| 184 | Tree Cover = 84% |
| 185 | Tree Cover = 85% |
| 186 | Tree Cover = 86% |
| 187 | Tree Cover = 87% |
| 188 | Tree Cover = 88% |
| 189 | Tree Cover = 89% |
| 190 | Tree Cover = 90% |
| 191 | Tree Cover = 91% |
| 192 | Tree Cover = 92% |
| 193 | Tree Cover = 93% |
| 194 | Tree Cover = 94% |
| 195 | Tree Cover = 95% |
| 196 | Tree Cover = 96% |
| 197 | Tree Cover = 97% |
| 198 | Tree Cover = 98% |
| 199 | Tree Cover >= 99% |
| 210 | Shrub Cover = 10% |
| 211 | Shrub Cover = 11% |
| 212 | Shrub Cover = 12% |
| 213 | Shrub Cover = 13% |
| 214 | Shrub Cover = 14% |
| 215 | Shrub Cover = 15% |
| 216 | Shrub Cover = 16% |
| 217 | Shrub Cover = 17% |
| 218 | Shrub Cover = 18% |
| 219 | Shrub Cover = 19% |
| 220 | Shrub Cover = 20% |
| 221 | Shrub Cover = 21% |
| 222 | Shrub Cover = 22% |
| 223 | Shrub Cover = 23% |
| 224 | Shrub Cover = 24% |
| 225 | Shrub Cover = 25% |
| 226 | Shrub Cover = 26% |
| 227 | Shrub Cover = 27% |
| 228 | Shrub Cover = 28% |
| 229 | Shrub Cover = 29% |
| 230 | Shrub Cover = 30% |
| 231 | Shrub Cover = 31% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|-------------------|
| Attribute | Description |
| 232 | Shrub Cover = 32% |
| 233 | Shrub Cover = 33% |
| 234 | Shrub Cover = 34% |
| 235 | Shrub Cover = 35% |
| 236 | Shrub Cover = 36% |
| 237 | Shrub Cover = 37% |
| 238 | Shrub Cover = 38% |
| 239 | Shrub Cover = 39% |
| 240 | Shrub Cover = 40% |
| 241 | Shrub Cover = 41% |
| 242 | Shrub Cover = 42% |
| 243 | Shrub Cover = 43% |
| 244 | Shrub Cover = 44% |
| 245 | Shrub Cover = 45% |
| 246 | Shrub Cover = 46% |
| 247 | Shrub Cover = 47% |
| 248 | Shrub Cover = 48% |
| 249 | Shrub Cover = 49% |
| 250 | Shrub Cover = 50% |
| 251 | Shrub Cover = 51% |
| 252 | Shrub Cover = 52% |
| 253 | Shrub Cover = 53% |
| 254 | Shrub Cover = 54% |
| 255 | Shrub Cover = 55% |
| 256 | Shrub Cover = 56% |
| 257 | Shrub Cover = 57% |
| 258 | Shrub Cover = 58% |
| 259 | Shrub Cover = 59% |
| 260 | Shrub Cover = 60% |
| 261 | Shrub Cover = 61% |
| 262 | Shrub Cover = 62% |
| 263 | Shrub Cover = 63% |
| 264 | Shrub Cover = 64% |
| 265 | Shrub Cover = 65% |
| 266 | Shrub Cover = 66% |
| 267 | Shrub Cover = 67% |
| 268 | Shrub Cover = 68% |
| 269 | Shrub Cover = 69% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|--------------------|
| Attribute | Description |
| 270 | Shrub Cover = 70% |
| 271 | Shrub Cover = 71% |
| 272 | Shrub Cover = 72% |
| 273 | Shrub Cover = 73% |
| 274 | Shrub Cover = 74% |
| 275 | Shrub Cover = 75% |
| 276 | Shrub Cover = 76% |
| 277 | Shrub Cover = 77% |
| 278 | Shrub Cover = 78% |
| 279 | Shrub Cover = 79% |
| 280 | Shrub Cover = 80% |
| 281 | Shrub Cover = 81% |
| 282 | Shrub Cover = 82% |
| 283 | Shrub Cover = 83% |
| 284 | Shrub Cover = 84% |
| 285 | Shrub Cover = 85% |
| 286 | Shrub Cover = 86% |
| 287 | Shrub Cover = 87% |
| 288 | Shrub Cover = 88% |
| 289 | Shrub Cover = 89% |
| 290 | Shrub Cover = 90% |
| 291 | Shrub Cover = 91% |
| 292 | Shrub Cover = 92% |
| 293 | Shrub Cover = 93% |
| 294 | Shrub Cover = 94% |
| 295 | Shrub Cover = 95% |
| 296 | Shrub Cover = 96% |
| 297 | Shrub Cover = 97% |
| 298 | Shrub Cover = 98% |
| 299 | Shrub Cover >= 99% |
| 310 | Herb Cover = 10% |
| 311 | Herb Cover = 11% |
| 312 | Herb Cover = 12% |
| 313 | Herb Cover = 13% |
| 314 | Herb Cover = 14% |
| 315 | Herb Cover = 15% |
| 316 | Herb Cover = 16% |
| 317 | Herb Cover = 17% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| 318 | Herb Cover = 18% |
| 319 | Herb Cover = 19% |
| 320 | Herb Cover = 20% |
| 321 | Herb Cover = 21% |
| 322 | Herb Cover = 22% |
| 323 | Herb Cover = 23% |
| 324 | Herb Cover = 24% |
| 325 | Herb Cover = 25% |
| 326 | Herb Cover = 26% |
| 327 | Herb Cover = 27% |
| 328 | Herb Cover = 28% |
| 329 | Herb Cover = 29% |
| 330 | Herb Cover = 30% |
| 331 | Herb Cover = 31% |
| 332 | Herb Cover = 32% |
| 333 | Herb Cover = 33% |
| 334 | Herb Cover = 34% |
| 335 | Herb Cover = 35% |
| 336 | Herb Cover = 36% |
| 337 | Herb Cover = 37% |
| 338 | Herb Cover = 38% |
| 339 | Herb Cover = 39% |
| 340 | Herb Cover = 40% |
| 341 | Herb Cover = 41% |
| 342 | Herb Cover = 42% |
| 343 | Herb Cover = 43% |
| 344 | Herb Cover = 44% |
| 345 | Herb Cover = 45% |
| 346 | Herb Cover = 46% |
| 347 | Herb Cover = 47% |
| 348 | Herb Cover = 48% |
| 349 | Herb Cover = 49% |
| 350 | Herb Cover = 50% |
| 351 | Herb Cover = 51% |
| 352 | Herb Cover = 52% |
| 353 | Herb Cover = 53% |
| 354 | Herb Cover = 54% |
| 355 | Herb Cover = 55% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| 356 | Herb Cover = 56% |
| 357 | Herb Cover = 57% |
| 358 | Herb Cover = 58% |
| 359 | Herb Cover = 59% |
| 360 | Herb Cover = 60% |
| 361 | Herb Cover = 61% |
| 362 | Herb Cover = 62% |
| 363 | Herb Cover = 63% |
| 364 | Herb Cover = 64% |
| 365 | Herb Cover = 65% |
| 366 | Herb Cover = 66% |
| 367 | Herb Cover = 67% |
| 368 | Herb Cover = 68% |
| 369 | Herb Cover = 69% |
| 370 | Herb Cover = 70% |
| 371 | Herb Cover = 71% |
| 372 | Herb Cover = 72% |
| 373 | Herb Cover = 73% |
| 374 | Herb Cover = 74% |
| 375 | Herb Cover = 75% |
| 376 | Herb Cover = 76% |
| 377 | Herb Cover = 77% |
| 378 | Herb Cover = 78% |
| 379 | Herb Cover = 79% |
| 380 | Herb Cover = 80% |
| 381 | Herb Cover = 81% |
| 382 | Herb Cover = 82% |
| 383 | Herb Cover = 83% |
| 384 | Herb Cover = 84% |
| 385 | Herb Cover = 85% |
| 386 | Herb Cover = 86% |
| 387 | Herb Cover = 87% |
| 388 | Herb Cover = 88% |
| 389 | Herb Cover = 89% |
| 390 | Herb Cover = 90% |
| 391 | Herb Cover = 91% |
| 392 | Herb Cover = 92% |
| 393 | Herb Cover = 93% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| 394 | Herb Cover = 94% |
| 395 | Herb Cover = 95% |
| 396 | Herb Cover = 96% |
| 397 | Herb Cover = 97% |
| 398 | Herb Cover = 98% |
| 399 | Herb Cover >= 99% |
| Count | number of pixels for the corresponding value |
| CLASSNAMES | Display attribute. EVC has a potential range of 0 - 100 percent canopy cover. |
| NoData | No data background value. |
| Open Water | LANDFIRE Mapped. |
| Snow/Ice | NLCD 2011 Snow/Ice |
| Developed-Upland Deciduous Forest | LANDFIRE Mapped. |
| Developed-Upland Evergreen Forest | LANDFIRE Mapped. |
| Developed-Upland Mixed Forest | LANDFIRE Mapped. |
| Developed-Upland Herbaceous | LANDFIRE Mapped. |
| Developed-Upland Shrubland | LANDFIRE Mapped. |
| Developed-Herbaceous Wetland Vegetation | LANDFIRE Mapped. |
| Developed-Woody Wetland Vegetation | LANDFIRE Mapped. |
| Developed - General | LANDFIRE Mapped. |
| Developed - Open Space | LANDFIRE Mapped. |
| Developed - Low Intensity | LANDFIRE Mapped. |
| Developed - Medium Intensity | LANDFIRE Mapped. |
| Developed - High Intensity | LANDFIRE Mapped. |
| Developed-Roads | LANDFIRE Mapped. |
| Barren | LANDFIRE Mapped. |
| Quarries-Strip Mines-Gravel Pits-Well and Wind Pads | LANDFIRE Mapped using information from multiple sources. |
| NASS-Orchard | Agricultural mapping from NASS and local sources if available. |
| NASS-Vineyard | Agricultural mapping from NASS and local sources if available. |
| NASS-Bush fruit and berries | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop | Agricultural mapping from NASS and local sources if available. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| NASS-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Fallow/Idle Cropland | Agricultural mapping from NASS and local sources if available. |
| NASS-Pasture and Hayland | Agricultural mapping from NASS and local sources if available. |
| NASS-Wheat | Agricultural mapping from NASS and local sources if available. |
| NASS-Aquaculture | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Semi-dry | LANDFIRE Mapped. |
| Herbaceous Semi-wet | LANDFIRE Mapped. |
| Recently Disturbed Forest | LANDFIRE Mapped. |
| Agriculture - General | Agricultural mapping from NASS and local sources if available. |
| Pasture/Hay | Agricultural mapping from NASS and local sources if available. |
| Cultivated Crops | Agricultural mapping from NASS and local sources if available. |
| Small Grains | Agricultural mapping from NASS and local sources if available. |
| Fallow | Agricultural mapping from NASS and local sources if available. |
| Urban-Recreational Grasses | LANDFIRE Mapped. |
| Herbaceous Wetlands | LANDFIRE Mapped. |
| Sparse Vegetation Canopy | LANDFIRE Mapped. |
| Tree Cover = 10% | LANDFIRE Mapped. |
| Tree Cover = 11% | LANDFIRE Mapped. |
| Tree Cover = 12% | LANDFIRE Mapped. |
| Tree Cover = 13% | LANDFIRE Mapped. |
| Tree Cover = 14% | LANDFIRE Mapped. |
| Tree Cover = 15% | LANDFIRE Mapped. |
| Tree Cover = 16% | LANDFIRE Mapped. |
| Tree Cover = 17% | LANDFIRE Mapped. |
| Tree Cover = 18% | LANDFIRE Mapped. |
| Tree Cover = 19% | LANDFIRE Mapped. |
| Tree Cover = 20% | LANDFIRE Mapped. |
| Tree Cover = 21% | LANDFIRE Mapped. |
| Tree Cover = 22% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Tree Cover = 23% | LANDFIRE Mapped. |
| Tree Cover = 24% | LANDFIRE Mapped. |
| Tree Cover = 25% | LANDFIRE Mapped. |
| Tree Cover = 26% | LANDFIRE Mapped. |
| Tree Cover = 27% | LANDFIRE Mapped. |
| Tree Cover = 28% | LANDFIRE Mapped. |
| Tree Cover = 29% | LANDFIRE Mapped. |
| Tree Cover = 30% | LANDFIRE Mapped. |
| Tree Cover = 31% | LANDFIRE Mapped. |
| Tree Cover = 32% | LANDFIRE Mapped. |
| Tree Cover = 33% | LANDFIRE Mapped. |
| Tree Cover = 34% | LANDFIRE Mapped. |
| Tree Cover = 35% | LANDFIRE Mapped. |
| Tree Cover = 36% | LANDFIRE Mapped. |
| Tree Cover = 37% | LANDFIRE Mapped. |
| Tree Cover = 38% | LANDFIRE Mapped. |
| Tree Cover = 39% | LANDFIRE Mapped. |
| Tree Cover = 40% | LANDFIRE Mapped. |
| Tree Cover = 41% | LANDFIRE Mapped. |
| Tree Cover = 42% | LANDFIRE Mapped. |
| Tree Cover = 43% | LANDFIRE Mapped. |
| Tree Cover = 44% | LANDFIRE Mapped. |
| Tree Cover = 45% | LANDFIRE Mapped. |
| Tree Cover = 46% | LANDFIRE Mapped. |
| Tree Cover = 47% | LANDFIRE Mapped. |
| Tree Cover = 48% | LANDFIRE Mapped. |
| Tree Cover = 49% | LANDFIRE Mapped. |
| Tree Cover = 50% | LANDFIRE Mapped. |
| Tree Cover = 51% | LANDFIRE Mapped. |
| Tree Cover = 52% | LANDFIRE Mapped. |
| Tree Cover = 53% | LANDFIRE Mapped. |
| Tree Cover = 54% | LANDFIRE Mapped. |
| Tree Cover = 55% | LANDFIRE Mapped. |
| Tree Cover = 56% | LANDFIRE Mapped. |
| Tree Cover = 57% | LANDFIRE Mapped. |
| Tree Cover = 58% | LANDFIRE Mapped. |
| Tree Cover = 59% | LANDFIRE Mapped. |
| Tree Cover = 60% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Tree Cover = 61% | LANDFIRE Mapped. |
| Tree Cover = 62% | LANDFIRE Mapped. |
| Tree Cover = 63% | LANDFIRE Mapped. |
| Tree Cover = 64% | LANDFIRE Mapped. |
| Tree Cover = 65% | LANDFIRE Mapped. |
| Tree Cover = 66% | LANDFIRE Mapped. |
| Tree Cover = 67% | LANDFIRE Mapped. |
| Tree Cover = 68% | LANDFIRE Mapped. |
| Tree Cover = 69% | LANDFIRE Mapped. |
| Tree Cover = 70% | LANDFIRE Mapped. |
| Tree Cover = 71% | LANDFIRE Mapped. |
| Tree Cover = 72% | LANDFIRE Mapped. |
| Tree Cover = 73% | LANDFIRE Mapped. |
| Tree Cover = 74% | LANDFIRE Mapped. |
| Tree Cover = 75% | LANDFIRE Mapped. |
| Tree Cover = 76% | LANDFIRE Mapped. |
| Tree Cover = 77% | LANDFIRE Mapped. |
| Tree Cover = 78% | LANDFIRE Mapped. |
| Tree Cover = 79% | LANDFIRE Mapped. |
| Tree Cover = 80% | LANDFIRE Mapped. |
| Tree Cover = 81% | LANDFIRE Mapped. |
| Tree Cover = 82% | LANDFIRE Mapped. |
| Tree Cover = 83% | LANDFIRE Mapped. |
| Tree Cover = 84% | LANDFIRE Mapped. |
| Tree Cover = 85% | LANDFIRE Mapped. |
| Tree Cover = 86% | LANDFIRE Mapped. |
| Tree Cover = 87% | LANDFIRE Mapped. |
| Tree Cover = 88% | LANDFIRE Mapped. |
| Tree Cover = 89% | LANDFIRE Mapped. |
| Tree Cover = 90% | LANDFIRE Mapped. |
| Tree Cover = 91% | LANDFIRE Mapped. |
| Tree Cover = 92% | LANDFIRE Mapped. |
| Tree Cover = 93% | LANDFIRE Mapped. |
| Tree Cover = 94% | LANDFIRE Mapped. |
| Tree Cover = 95% | LANDFIRE Mapped. |
| Tree Cover = 96% | LANDFIRE Mapped. |
| Tree Cover = 97% | LANDFIRE Mapped. |
| Tree Cover = 98% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Tree Cover >= 99% | LANDFIRE Mapped. |
| Shrub Cover = 10% | LANDFIRE Mapped. |
| Shrub Cover = 11% | LANDFIRE Mapped. |
| Shrub Cover = 12% | LANDFIRE Mapped. |
| Shrub Cover = 13% | LANDFIRE Mapped. |
| Shrub Cover = 14% | LANDFIRE Mapped. |
| Shrub Cover = 15% | LANDFIRE Mapped. |
| Shrub Cover = 16% | LANDFIRE Mapped. |
| Shrub Cover = 17% | LANDFIRE Mapped. |
| Shrub Cover = 18% | LANDFIRE Mapped. |
| Shrub Cover = 19% | LANDFIRE Mapped. |
| Shrub Cover = 20% | LANDFIRE Mapped. |
| Shrub Cover = 21% | LANDFIRE Mapped. |
| Shrub Cover = 22% | LANDFIRE Mapped. |
| Shrub Cover = 23% | LANDFIRE Mapped. |
| Shrub Cover = 24% | LANDFIRE Mapped. |
| Shrub Cover = 25% | LANDFIRE Mapped. |
| Shrub Cover = 26% | LANDFIRE Mapped. |
| Shrub Cover = 27% | LANDFIRE Mapped. |
| Shrub Cover = 28% | LANDFIRE Mapped. |
| Shrub Cover = 29% | LANDFIRE Mapped. |
| Shrub Cover = 30% | LANDFIRE Mapped. |
| Shrub Cover = 31% | LANDFIRE Mapped. |
| Shrub Cover = 32% | LANDFIRE Mapped. |
| Shrub Cover = 33% | LANDFIRE Mapped. |
| Shrub Cover = 34% | LANDFIRE Mapped. |
| Shrub Cover = 35% | LANDFIRE Mapped. |
| Shrub Cover = 36% | LANDFIRE Mapped. |
| Shrub Cover = 37% | LANDFIRE Mapped. |
| Shrub Cover = 38% | LANDFIRE Mapped. |
| Shrub Cover = 39% | LANDFIRE Mapped. |
| Shrub Cover = 40% | LANDFIRE Mapped. |
| Shrub Cover = 41% | LANDFIRE Mapped. |
| Shrub Cover = 42% | LANDFIRE Mapped. |
| Shrub Cover = 43% | LANDFIRE Mapped. |
| Shrub Cover = 44% | LANDFIRE Mapped. |
| Shrub Cover = 45% | LANDFIRE Mapped. |
| Shrub Cover = 46% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Shrub Cover = 47% | LANDFIRE Mapped. |
| Shrub Cover = 48% | LANDFIRE Mapped. |
| Shrub Cover = 49% | LANDFIRE Mapped. |
| Shrub Cover = 50% | LANDFIRE Mapped. |
| Shrub Cover = 51% | LANDFIRE Mapped. |
| Shrub Cover = 52% | LANDFIRE Mapped. |
| Shrub Cover = 53% | LANDFIRE Mapped. |
| Shrub Cover = 54% | LANDFIRE Mapped. |
| Shrub Cover = 55% | LANDFIRE Mapped. |
| Shrub Cover = 56% | LANDFIRE Mapped. |
| Shrub Cover = 57% | LANDFIRE Mapped. |
| Shrub Cover = 58% | LANDFIRE Mapped. |
| Shrub Cover = 59% | LANDFIRE Mapped. |
| Shrub Cover = 60% | LANDFIRE Mapped. |
| Shrub Cover = 61% | LANDFIRE Mapped. |
| Shrub Cover = 62% | LANDFIRE Mapped. |
| Shrub Cover = 63% | LANDFIRE Mapped. |
| Shrub Cover = 64% | LANDFIRE Mapped. |
| Shrub Cover = 65% | LANDFIRE Mapped. |
| Shrub Cover = 66% | LANDFIRE Mapped. |
| Shrub Cover = 67% | LANDFIRE Mapped. |
| Shrub Cover = 68% | LANDFIRE Mapped. |
| Shrub Cover = 69% | LANDFIRE Mapped. |
| Shrub Cover = 70% | LANDFIRE Mapped. |
| Shrub Cover = 71% | LANDFIRE Mapped. |
| Shrub Cover = 72% | LANDFIRE Mapped. |
| Shrub Cover = 73% | LANDFIRE Mapped. |
| Shrub Cover = 74% | LANDFIRE Mapped. |
| Shrub Cover = 75% | LANDFIRE Mapped. |
| Shrub Cover = 76% | LANDFIRE Mapped. |
| Shrub Cover = 77% | LANDFIRE Mapped. |
| Shrub Cover = 78% | LANDFIRE Mapped. |
| Shrub Cover = 79% | LANDFIRE Mapped. |
| Shrub Cover = 80% | LANDFIRE Mapped. |
| Shrub Cover = 81% | LANDFIRE Mapped. |
| Shrub Cover = 82% | LANDFIRE Mapped. |
| Shrub Cover = 83% | LANDFIRE Mapped. |
| Shrub Cover = 84% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Shrub Cover = 85% | LANDFIRE Mapped. |
| Shrub Cover = 86% | LANDFIRE Mapped. |
| Shrub Cover = 87% | LANDFIRE Mapped. |
| Shrub Cover = 88% | LANDFIRE Mapped. |
| Shrub Cover = 89% | LANDFIRE Mapped. |
| Shrub Cover = 90% | LANDFIRE Mapped. |
| Shrub Cover = 91% | LANDFIRE Mapped. |
| Shrub Cover = 92% | LANDFIRE Mapped. |
| Shrub Cover = 93% | LANDFIRE Mapped. |
| Shrub Cover = 94% | LANDFIRE Mapped. |
| Shrub Cover = 95% | LANDFIRE Mapped. |
| Shrub Cover = 96% | LANDFIRE Mapped. |
| Shrub Cover = 97% | LANDFIRE Mapped. |
| Shrub Cover = 98% | LANDFIRE Mapped. |
| Shrub Cover >= 99% | LANDFIRE Mapped. |
| Herb Cover = 10% | LANDFIRE Mapped. |
| Herb Cover = 11% | LANDFIRE Mapped. |
| Herb Cover = 12% | LANDFIRE Mapped. |
| Herb Cover = 13% | LANDFIRE Mapped. |
| Herb Cover = 14% | LANDFIRE Mapped. |
| Herb Cover = 15% | LANDFIRE Mapped. |
| Herb Cover = 16% | LANDFIRE Mapped. |
| Herb Cover = 17% | LANDFIRE Mapped. |
| Herb Cover = 18% | LANDFIRE Mapped. |
| Herb Cover = 19% | LANDFIRE Mapped. |
| Herb Cover = 20% | LANDFIRE Mapped. |
| Herb Cover = 21% | LANDFIRE Mapped. |
| Herb Cover = 22% | LANDFIRE Mapped. |
| Herb Cover = 23% | LANDFIRE Mapped. |
| Herb Cover = 24% | LANDFIRE Mapped. |
| Herb Cover = 25% | LANDFIRE Mapped. |
| Herb Cover = 26% | LANDFIRE Mapped. |
| Herb Cover = 27% | LANDFIRE Mapped. |
| Herb Cover = 28% | LANDFIRE Mapped. |
| Herb Cover = 29% | LANDFIRE Mapped. |
| Herb Cover = 30% | LANDFIRE Mapped. |
| Herb Cover = 31% | LANDFIRE Mapped. |
| Herb Cover = 32% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Herb Cover = 33% | LANDFIRE Mapped. |
| Herb Cover = 34% | LANDFIRE Mapped. |
| Herb Cover = 35% | LANDFIRE Mapped. |
| Herb Cover = 36% | LANDFIRE Mapped. |
| Herb Cover = 37% | LANDFIRE Mapped. |
| Herb Cover = 38% | LANDFIRE Mapped. |
| Herb Cover = 39% | LANDFIRE Mapped. |
| Herb Cover = 40% | LANDFIRE Mapped. |
| Herb Cover = 41% | LANDFIRE Mapped. |
| Herb Cover = 42% | LANDFIRE Mapped. |
| Herb Cover = 43% | LANDFIRE Mapped. |
| Herb Cover = 44% | LANDFIRE Mapped. |
| Herb Cover = 45% | LANDFIRE Mapped. |
| Herb Cover = 46% | LANDFIRE Mapped. |
| Herb Cover = 47% | LANDFIRE Mapped. |
| Herb Cover = 48% | LANDFIRE Mapped. |
| Herb Cover = 49% | LANDFIRE Mapped. |
| Herb Cover = 50% | LANDFIRE Mapped. |
| Herb Cover = 51% | LANDFIRE Mapped. |
| Herb Cover = 52% | LANDFIRE Mapped. |
| Herb Cover = 53% | LANDFIRE Mapped. |
| Herb Cover = 54% | LANDFIRE Mapped. |
| Herb Cover = 55% | LANDFIRE Mapped. |
| Herb Cover = 56% | LANDFIRE Mapped. |
| Herb Cover = 57% | LANDFIRE Mapped. |
| Herb Cover = 58% | LANDFIRE Mapped. |
| Herb Cover = 59% | LANDFIRE Mapped. |
| Herb Cover = 60% | LANDFIRE Mapped. |
| Herb Cover = 61% | LANDFIRE Mapped. |
| Herb Cover = 62% | LANDFIRE Mapped. |
| Herb Cover = 63% | LANDFIRE Mapped. |
| Herb Cover = 64% | LANDFIRE Mapped. |
| Herb Cover = 65% | LANDFIRE Mapped. |
| Herb Cover = 66% | LANDFIRE Mapped. |
| Herb Cover = 67% | LANDFIRE Mapped. |
| Herb Cover = 68% | LANDFIRE Mapped. |
| Herb Cover = 69% | LANDFIRE Mapped. |
| Herb Cover = 70% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|-------------------------------|
| Attribute | Description |
| Herb Cover = 71% | LANDFIRE Mapped. |
| Herb Cover = 72% | LANDFIRE Mapped. |
| Herb Cover = 73% | LANDFIRE Mapped. |
| Herb Cover = 74% | LANDFIRE Mapped. |
| Herb Cover = 75% | LANDFIRE Mapped. |
| Herb Cover = 76% | LANDFIRE Mapped. |
| Herb Cover = 77% | LANDFIRE Mapped. |
| Herb Cover = 78% | LANDFIRE Mapped. |
| Herb Cover = 79% | LANDFIRE Mapped. |
| Herb Cover = 80% | LANDFIRE Mapped. |
| Herb Cover = 81% | LANDFIRE Mapped. |
| Herb Cover = 82% | LANDFIRE Mapped. |
| Herb Cover = 83% | LANDFIRE Mapped. |
| Herb Cover = 84% | LANDFIRE Mapped. |
| Herb Cover = 85% | LANDFIRE Mapped. |
| Herb Cover = 86% | LANDFIRE Mapped. |
| Herb Cover = 87% | LANDFIRE Mapped. |
| Herb Cover = 88% | LANDFIRE Mapped. |
| Herb Cover = 89% | LANDFIRE Mapped. |
| Herb Cover = 90% | LANDFIRE Mapped. |
| Herb Cover = 91% | LANDFIRE Mapped. |
| Herb Cover = 92% | LANDFIRE Mapped. |
| Herb Cover = 93% | LANDFIRE Mapped. |
| Herb Cover = 94% | LANDFIRE Mapped. |
| Herb Cover = 95% | LANDFIRE Mapped. |
| Herb Cover = 96% | LANDFIRE Mapped. |
| Herb Cover = 97% | LANDFIRE Mapped. |
| Herb Cover = 98% | LANDFIRE Mapped. |
| Herb Cover >= 99% | LANDFIRE Mapped. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| Red | Red color value range 0 - 1 |
| Green | Green color value range 0 - 1 |
| Blue | Blue color value range 0 - 1 |

4.4.2 Existing Vegetation Height (EVH) LF 2022

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | Existing Vegetation Height (EVH) product represents the average height of the dominant vegetation for a 30-m grid cell and is binned separately for each life form. |
| -9999 | Fill - NoData |
| 11 | Open Water |
| 12 | Snow/Ice |
| 13 | Developed-Upland Deciduous Forest |
| 14 | Developed-Upland Evergreen Forest |
| 15 | Developed-Upland Mixed Forest |
| 16 | Developed-Upland Herbaceous |
| 17 | Developed-Upland Shrubland |
| 22 | Developed - Low Intensity |
| 23 | Developed - Medium Intensity |
| 24 | Developed - High Intensity |
| 25 | Developed-Roads |
| 31 | Barren |
| 32 | Quarries-Strip Mines-Gravel Pits-Well and Wind Pads |
| 61 | NASS-Vineyard |
| 63 | NASS-Row Crop-Close Grown Crop |
| 64 | NASS-Row Crop |
| 65 | NASS-Close Grown Crop |
| 68 | NASS-Wheat |
| 69 | NASS-Aquaculture |
| 100 | Sparse Vegetation Canopy |
| 101 | Tree Height = 1 meter |
| 102 | Tree Height = 2 meters |
| 103 | Tree Height = 3 meters |
| 104 | Tree Height = 4 meters |
| 105 | Tree Height = 5 meters |
| 106 | Tree Height = 6 meters |
| 107 | Tree Height = 7 meters |
| 108 | Tree Height = 8 meters |
| 109 | Tree Height = 9 meters |
| 110 | Tree Height = 10 meters |
| 111 | Tree Height = 11 meters |
| 112 | Tree Height = 12 meters |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|-------------------------|
| Attribute | Description |
| 113 | Tree Height = 13 meters |
| 114 | Tree Height = 14 meters |
| 115 | Tree Height = 15 meters |
| 116 | Tree Height = 16 meters |
| 117 | Tree Height = 17 meters |
| 118 | Tree Height = 18 meters |
| 119 | Tree Height = 19 meters |
| 120 | Tree Height = 20 meters |
| 121 | Tree Height = 21 meters |
| 122 | Tree Height = 22 meters |
| 123 | Tree Height = 23 meters |
| 124 | Tree Height = 24 meters |
| 125 | Tree Height = 25 meters |
| 126 | Tree Height = 26 meters |
| 127 | Tree Height = 27 meters |
| 128 | Tree Height = 28 meters |
| 129 | Tree Height = 29 meters |
| 130 | Tree Height = 30 meters |
| 131 | Tree Height = 31 meters |
| 132 | Tree Height = 32 meters |
| 133 | Tree Height = 33 meters |
| 134 | Tree Height = 34 meters |
| 135 | Tree Height = 35 meters |
| 136 | Tree Height = 36 meters |
| 137 | Tree Height = 37 meters |
| 138 | Tree Height = 38 meters |
| 139 | Tree Height = 39 meters |
| 140 | Tree Height = 40 meters |
| 141 | Tree Height = 41 meters |
| 142 | Tree Height = 42 meters |
| 143 | Tree Height = 43 meters |
| 144 | Tree Height = 44 meters |
| 145 | Tree Height = 45 meters |
| 146 | Tree Height = 46 meters |
| 147 | Tree Height = 47 meters |
| 148 | Tree Height = 48 meters |
| 149 | Tree Height = 49 meters |
| 150 | Tree Height = 50 meters |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|-------------------------|
| Attribute | Description |
| 151 | Tree Height = 51 meters |
| 152 | Tree Height = 52 meters |
| 153 | Tree Height = 53 meters |
| 154 | Tree Height = 54 meters |
| 155 | Tree Height = 55 meters |
| 156 | Tree Height = 56 meters |
| 157 | Tree Height = 57 meters |
| 158 | Tree Height = 58 meters |
| 159 | Tree Height = 59 meters |
| 160 | Tree Height = 60 meters |
| 161 | Tree Height = 61 meters |
| 162 | Tree Height = 62 meters |
| 163 | Tree Height = 63 meters |
| 164 | Tree Height = 64 meters |
| 165 | Tree Height = 65 meters |
| 166 | Tree Height = 66 meters |
| 167 | Tree Height = 67 meters |
| 168 | Tree Height = 68 meters |
| 169 | Tree Height = 69 meters |
| 170 | Tree Height = 70 meters |
| 171 | Tree Height = 71 meters |
| 172 | Tree Height = 72 meters |
| 173 | Tree Height = 73 meters |
| 174 | Tree Height = 74 meters |
| 175 | Tree Height = 75 meters |
| 176 | Tree Height = 76 meters |
| 177 | Tree Height = 77 meters |
| 178 | Tree Height = 78 meters |
| 179 | Tree Height = 79 meters |
| 180 | Tree Height = 80 meters |
| 181 | Tree Height = 81 meters |
| 182 | Tree Height = 82 meters |
| 183 | Tree Height = 83 meters |
| 184 | Tree Height = 84 meters |
| 185 | Tree Height = 85 meters |
| 186 | Tree Height = 86 meters |
| 187 | Tree Height = 87 meters |
| 188 | Tree Height = 88 meters |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|---------------------------|
| Attribute | Description |
| 189 | Tree Height = 89 meters |
| 190 | Tree Height = 90 meters |
| 191 | Tree Height = 91 meters |
| 192 | Tree Height = 92 meters |
| 193 | Tree Height = 93 meters |
| 194 | Tree Height = 94 meters |
| 195 | Tree Height = 95 meters |
| 196 | Tree Height = 96 meters |
| 197 | Tree Height = 97 meters |
| 198 | Tree Height = 98 meters |
| 199 | Tree Height >= 99 meters |
| 201 | Shrub Height = 0.1 meter |
| 202 | Shrub Height = 0.2 meter |
| 203 | Shrub Height = 0.3 meter |
| 204 | Shrub Height = 0.4 meter |
| 205 | Shrub Height = 0.5 meter |
| 206 | Shrub Height = 0.6 meter |
| 207 | Shrub Height = 0.7 meter |
| 208 | Shrub Height = 0.8 meter |
| 209 | Shrub Height = 0.9 meter |
| 210 | Shrub Height = 1 meter |
| 211 | Shrub Height = 1.1 meters |
| 212 | Shrub Height = 1.2 meters |
| 213 | Shrub Height = 1.3 meters |
| 214 | Shrub Height = 1.4 meters |
| 215 | Shrub Height = 1.5 meters |
| 216 | Shrub Height = 1.6 meters |
| 217 | Shrub Height = 1.7 meters |
| 218 | Shrub Height = 1.8 meters |
| 219 | Shrub Height = 1.9 meters |
| 220 | Shrub Height = 2.0 meters |
| 221 | Shrub Height = 2.1 meters |
| 222 | Shrub Height = 2.2 meters |
| 223 | Shrub Height = 2.3 meters |
| 224 | Shrub Height = 2.4 meters |
| 225 | Shrub Height = 2.5 meters |
| 226 | Shrub Height = 2.6 meters |
| 227 | Shrub Height = 2.7 meters |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| 228 | Shrub Height = 2.8 meters |
| 229 | Shrub Height = 2.9 meters |
| 230 | Shrub Height >= 3.0 meters |
| 301 | Herb Height = 0.1 meter |
| 302 | Herb Height = 0.2 meter |
| 303 | Herb Height = 0.3 meter |
| 304 | Herb Height = 0.4 meter |
| 305 | Herb Height = 0.5 meter |
| 306 | Herb Height = 0.6 meter |
| 307 | Herb Height = 0.7 meter |
| 308 | Herb Height = 0.8 meter |
| 309 | Herb Height = 0.9 meter |
| 310 | Herb Height >= 1 meter |
| Count | number of pixels for the corresponding value |
| CLASSNAMES | Display attribute, EVH is represented in meters and life forms are binned separately. |
| NoData | NoData |
| Open Water | Open Water |
| Snow/Ice | Snow/Ice |
| Developed-Upland Deciduous Forest | Developed-Upland Deciduous Forest |
| Developed-Upland Evergreen Forest | Developed-Upland Evergreen Forest |
| Developed-Upland Mixed Forest | Developed-Upland Mixed Forest |
| Developed-Upland Herbaceous | Developed-Upland Herbaceous |
| Developed-Upland Shrubland | Developed-Upland Shrubland |
| Developed-Herbaceous Wetland Vegetation | Developed-Herbaceous Wetland Vegetation |
| Developed-Woody Wetland Vegetation | Developed-Woody Wetland Vegetation |
| Developed - General | Developed - General |
| Developed - Open Space | Developed - Open Space |
| Developed - Low Intensity | Developed - Low Intensity |
| Developed - Medium Intensity | Developed - Medium Intensity |
| Developed - High Intensity | Developed - High Intensity |
| Developed-Roads | Developed-Roads |
| Barren | Barren |
| Quarries-Strip Mines-Gravel Pits-Well and Wind Pads | Quarries-Strip Mines-Gravel Pits-Well and Wind Pads |
| NASS-Orchard | NASS-Orchard |
| NASS-Vineyard | NASS-Vineyard |
| NASS-Row Crop-Close Grown Crop | NASS-Row Crop-Close Grown Crop |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|--------------------------|
| Attribute | Description |
| NASS-Row Crop | NASS-Row Crop |
| NASS-Close Grown Crop | NASS-Close Grown Crop |
| NASS-Wheat | NASS-Wheat |
| NASS-Aquaculture | NASS-Aquaculture |
| Cultivated Crops | Cultivated Crops |
| Sparse Vegetation Canopy | Sparse Vegetation Canopy |
| Tree Height = 1 meter | LANDFIRE Mapped. |
| Tree Height = 2 meters | LANDFIRE Mapped. |
| Tree Height = 3 meters | LANDFIRE Mapped. |
| Tree Height = 4 meters | LANDFIRE Mapped. |
| Tree Height = 5 meters | LANDFIRE Mapped. |
| Tree Height = 6 meters | LANDFIRE Mapped. |
| Tree Height = 7 meters | LANDFIRE Mapped. |
| Tree Height = 8 meters | LANDFIRE Mapped. |
| Tree Height = 9 meters | LANDFIRE Mapped. |
| Tree Height = 10 meters | LANDFIRE Mapped. |
| Tree Height = 11 meters | LANDFIRE Mapped. |
| Tree Height = 12 meters | LANDFIRE Mapped. |
| Tree Height = 13 meters | LANDFIRE Mapped. |
| Tree Height = 14 meters | LANDFIRE Mapped. |
| Tree Height = 15 meters | LANDFIRE Mapped. |
| Tree Height = 16 meters | LANDFIRE Mapped. |
| Tree Height = 17 meters | LANDFIRE Mapped. |
| Tree Height = 18 meters | LANDFIRE Mapped. |
| Tree Height = 19 meters | LANDFIRE Mapped. |
| Tree Height = 20 meters | LANDFIRE Mapped. |
| Tree Height = 21 meters | LANDFIRE Mapped. |
| Tree Height = 22 meters | LANDFIRE Mapped. |
| Tree Height = 23 meters | LANDFIRE Mapped. |
| Tree Height = 24 meters | LANDFIRE Mapped. |
| Tree Height = 25 meters | LANDFIRE Mapped. |
| Tree Height = 26 meters | LANDFIRE Mapped. |
| Tree Height = 27 meters | LANDFIRE Mapped. |
| Tree Height = 28 meters | LANDFIRE Mapped. |
| Tree Height = 29 meters | LANDFIRE Mapped. |
| Tree Height = 30 meters | LANDFIRE Mapped. |
| Tree Height = 31 meters | LANDFIRE Mapped. |
| Tree Height = 32 meters | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|------------------|
| Attribute | Description |
| Tree Height = 33 meters | LANDFIRE Mapped. |
| Tree Height = 34 meters | LANDFIRE Mapped. |
| Tree Height = 35 meters | LANDFIRE Mapped. |
| Tree Height = 36 meters | LANDFIRE Mapped. |
| Tree Height = 37 meters | LANDFIRE Mapped. |
| Tree Height = 38 meters | LANDFIRE Mapped. |
| Tree Height = 39 meters | LANDFIRE Mapped. |
| Tree Height = 40 meters | LANDFIRE Mapped. |
| Tree Height = 41 meters | LANDFIRE Mapped. |
| Tree Height = 42 meters | LANDFIRE Mapped. |
| Tree Height = 43 meters | LANDFIRE Mapped. |
| Tree Height = 44 meters | LANDFIRE Mapped. |
| Tree Height = 45 meters | LANDFIRE Mapped. |
| Tree Height = 46 meters | LANDFIRE Mapped. |
| Tree Height = 47 meters | LANDFIRE Mapped. |
| Tree Height = 48 meters | LANDFIRE Mapped. |
| Tree Height = 49 meters | LANDFIRE Mapped. |
| Tree Height = 50 meters | LANDFIRE Mapped. |
| Tree Height = 51 meters | LANDFIRE Mapped. |
| Tree Height = 52 meters | LANDFIRE Mapped. |
| Tree Height = 53 meters | LANDFIRE Mapped. |
| Tree Height = 54 meters | LANDFIRE Mapped. |
| Tree Height = 55 meters | LANDFIRE Mapped. |
| Tree Height = 56 meters | LANDFIRE Mapped. |
| Tree Height = 57 meters | LANDFIRE Mapped. |
| Tree Height = 58 meters | LANDFIRE Mapped. |
| Tree Height = 59 meters | LANDFIRE Mapped. |
| Tree Height = 60 meters | LANDFIRE Mapped. |
| Tree Height = 61 meters | LANDFIRE Mapped. |
| Tree Height = 62 meters | LANDFIRE Mapped. |
| Tree Height = 63 meters | LANDFIRE Mapped. |
| Tree Height = 64 meters | LANDFIRE Mapped. |
| Tree Height = 65 meters | LANDFIRE Mapped. |
| Tree Height = 66 meters | LANDFIRE Mapped. |
| Tree Height = 67 meters | LANDFIRE Mapped. |
| Tree Height = 68 meters | LANDFIRE Mapped. |
| Tree Height = 69 meters | LANDFIRE Mapped. |
| Tree Height = 70 meters | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|------------------|
| Attribute | Description |
| Tree Height = 71 meters | LANDFIRE Mapped. |
| Tree Height = 72 meters | LANDFIRE Mapped. |
| Tree Height = 73 meters | LANDFIRE Mapped. |
| Tree Height = 74 meters | LANDFIRE Mapped. |
| Tree Height = 75 meters | LANDFIRE Mapped. |
| Tree Height = 76 meters | LANDFIRE Mapped. |
| Tree Height = 77 meters | LANDFIRE Mapped. |
| Tree Height = 78 meters | LANDFIRE Mapped. |
| Tree Height = 79 meters | LANDFIRE Mapped. |
| Tree Height = 80 meters | LANDFIRE Mapped. |
| Tree Height = 81 meters | LANDFIRE Mapped. |
| Tree Height = 82 meters | LANDFIRE Mapped. |
| Tree Height = 83 meters | LANDFIRE Mapped. |
| Tree Height = 84 meters | LANDFIRE Mapped. |
| Tree Height = 85 meters | LANDFIRE Mapped. |
| Tree Height = 86 meters | LANDFIRE Mapped. |
| Tree Height = 87 meters | LANDFIRE Mapped. |
| Tree Height = 88 meters | LANDFIRE Mapped. |
| Tree Height = 89 meters | LANDFIRE Mapped. |
| Tree Height = 90 meters | LANDFIRE Mapped. |
| Tree Height = 91 meters | LANDFIRE Mapped. |
| Tree Height = 92 meters | LANDFIRE Mapped. |
| Tree Height = 93 meters | LANDFIRE Mapped. |
| Tree Height = 94 meters | LANDFIRE Mapped. |
| Tree Height = 95 meters | LANDFIRE Mapped. |
| Tree Height = 96 meters | LANDFIRE Mapped. |
| Tree Height = 97 meters | LANDFIRE Mapped. |
| Tree Height = 98 meters | LANDFIRE Mapped. |
| Tree Height >= 99 meters | LANDFIRE Mapped. |
| Shrub Height = 0.1 meter | LANDFIRE Mapped. |
| Shrub Height = 0.2 meter | LANDFIRE Mapped. |
| Shrub Height = 0.3 meter | LANDFIRE Mapped. |
| Shrub Height = 0.4 meter | LANDFIRE Mapped. |
| Shrub Height = 0.5 meter | LANDFIRE Mapped. |
| Shrub Height = 0.6 meter | LANDFIRE Mapped. |
| Shrub Height = 0.7 meter | LANDFIRE Mapped. |
| Shrub Height = 0.8 meter | LANDFIRE Mapped. |
| Shrub Height = 0.9 meter | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|-------------------------------|
| Attribute | Description |
| Shrub Height = 1 meter | LANDFIRE Mapped. |
| Shrub Height = 1.1 meters | LANDFIRE Mapped. |
| Shrub Height = 1.2 meters | LANDFIRE Mapped. |
| Shrub Height = 1.3 meters | LANDFIRE Mapped. |
| Shrub Height = 1.4 meters | LANDFIRE Mapped. |
| Shrub Height = 1.5 meters | LANDFIRE Mapped. |
| Shrub Height = 1.6 meters | LANDFIRE Mapped. |
| Shrub Height = 1.7 meters | LANDFIRE Mapped. |
| Shrub Height = 1.8 meters | LANDFIRE Mapped. |
| Shrub Height = 1.9 meters | LANDFIRE Mapped. |
| Shrub Height = 2.0 meters | LANDFIRE Mapped. |
| Shrub Height = 2.1 meters | LANDFIRE Mapped. |
| Shrub Height = 2.2 meters | LANDFIRE Mapped. |
| Shrub Height = 2.3 meters | LANDFIRE Mapped. |
| Shrub Height = 2.4 meters | LANDFIRE Mapped. |
| Shrub Height = 2.5 meters | LANDFIRE Mapped. |
| Shrub Height = 2.6 meters | LANDFIRE Mapped. |
| Shrub Height = 2.7 meters | LANDFIRE Mapped. |
| Shrub Height = 2.8 meters | LANDFIRE Mapped. |
| Shrub Height = 2.9 meters | LANDFIRE Mapped. |
| Shrub Height >= 3.0 meters | LANDFIRE Mapped. |
| Herb Height = 0.1 meter | LANDFIRE Mapped. |
| Herb Height = 0.2 meter | LANDFIRE Mapped. |
| Herb Height = 0.3 meter | LANDFIRE Mapped. |
| Herb Height = 0.4 meter | LANDFIRE Mapped. |
| Herb Height = 0.5 meter | LANDFIRE Mapped. |
| Herb Height = 0.6 meter | LANDFIRE Mapped. |
| Herb Height = 0.7 meter | LANDFIRE Mapped. |
| Herb Height = 0.8 meter | LANDFIRE Mapped. |
| Herb Height = 0.9 meter | LANDFIRE Mapped. |
| Herb Height >= 1 meter | LANDFIRE Mapped. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

4.4.3 Existing Vegetation Type (EVT) LF 2022

| LANDFIRE Existing Vegetation Type Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| VALUE | The LF assigned code identifying vegetation and land cover types. |
| -9999 | Fill - NoData |
| 4401 - 9994 | The code identifies the vegetation and land cover types. |
| EVT_NAME | Class name in the LANDFIRE EVT legend. |
| LFRDB | Code stored in the LFRDB. |
| 4401 - 9994 | The code identifies the EVT value stored in the LFRDB. Some LFRDB codes have been split into more than one value, this field provides the codes lineage. |
| EVT_FUEL | Fuels EVT code. The code identifies the vegetation and land cover types used for fuels mapping. |
| EVT_Fuel_N | Fuels EVT class name. |
| EVT_LF | EVT Lifeform. |
| EVT_GP | EVT Group code. |
| EVT_PHYS | EVT Physiognomy. |
| EVT_GP_N | EVT Group name. |
| SAF_SRM | Crosswalk to Society of American Foresters and Society for Range Management cover type. |
| EVT_ORDER | EVT Physiognomic Order from Federal Geographic Data Committee classification system. |
| EVT_CLASS | EVT Physiognomic Class from Federal Geographic Data Committee classification system. |
| EVT_SBCLS | EVT Physiognomic Subclass from Federal Geographic Data Committee classification system. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

Section 5 LF 2020 Attribute Data Dictionaries Glossary

5.1 Disturbance Products

5.1.1 Annual Disturbance 2017 - 2020

| LANDFIRE Disturbance YEAR Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | 2-to 4-digit code representing the general category of the disturbance (combination of disturbance type and confidence information based on data sources), disturbance type, and severity. |
| 11 - 1133 | For example, 472 is identified by LANDFIRE Events Geodatabase polygon (4) with type of wildfire (7); severity is assigned from image-based change detection, medium severity (2). |
| -9999 | Fill - NoData |
| DIST_YEAR | Approximate (due to LANDFIRE Events Geodatabase year or image timing) year in which the disturbance occurred. |
| 1999 - 2016 | Year disturbance occurred based upon the best information available. |
| DIST_TYPE | A general category of disturbance derived from the dist_type attribute in the disturbance grids. |
| No Disturbance | No disturbance detected or reported. |
| Clearcut | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Disease | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Harvest | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information.. |
| Insects | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Insects/Disease | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Mastication | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Non Disturbed | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |

| LANDFIRE Disturbance YEAR Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Other Mechanical | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Prescribed Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| DIST_TYPE | A general category of disturbance derived from the dist_type attribute in the disturbance grids. |
| Thinning | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Unknown | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Weather | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildfire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildland Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildland Fire Use | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| TYPE_CONFI | Classification level of confidence in the assignment of disturbance type. |
| Low (1) | Low confidence for causality based upon source information. |
| Medium (2) | Medium confidence for causality based upon source information. |
| High (3) | High confidence for causality based upon source information. |
| SEVERITY | Classification level of disturbance associated with effect on landcover. |
| Low (1) | General classification level associated with low effect on landcover. |
| Medium (2) | General classification level associated with medium effect on landcover. |
| High (3) | General classification level associated with high effect on landcover. |
| SEV_CONFID | Confidence is evaluated based on the input data sources. For example, a mapped wildfire disturbance identified in the LANDFIRE Events Geodatabase and Landsat image change detection would have a higher confidence than a disturbance identified by Landsat image change detection only since the cause is unknown. |

| LANDFIRE Disturbance YEAR Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Low | General confidence in the mapped disturbance is low due to lack of information relative to assignment of causality and/or severity. |
| Medium | General confidence in the mapped disturbance is medium due to the availability of some information relative to assignment of causality and/or severity, but more information is warranted in order to have increased confidence. |
| High | General confidence in the mapped disturbance is high due to the availability of specific information relative to assignment of causality and/or severity. |
| SEV_SOURCE | Severity Source |
| Source | MTBS |
| Source | RAVG |
| Source | BARC |
| Source | dNBR |
| SOURCE | A combination of one to four of the following: 1) Fire data source (MTBS, BAER, or RAVG), 2) LANDFIRE Events Geodatabase polygons, 3) Landsat change detection, 4) PAD GAP Status polygons, 5) dNBR (differenced NBR), 6) Burned Area Essential Climate Variable (BAECV). |
| DESCRIPTION | Description of the classification method. |
| R | Red color value range/255 |
| G | Green color value range/255 |
| B | Blue color value range/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 – 1 |
| BLUE | Blue color value range 0 - 1 |

5.1.2 Historical Disturbance LF 2020

| LANDFIRE Historical Disturbance Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| DISTCODE_V | HDist is a composite of the Annual Disturbance products. Disturbances are identified by year, disturbance type, and disturbance severity. |
| 11 - 1133 | The code value is a concatenation of disturbance year and annual disturbance code which identifies disturbance type and severity. |
| -9999 | Fill - NoData. |
| 0 | Non-disturbed. |
| -1111 | Fill - Not Mapped. |
| VALUE | Value. |

| LANDFIRE Historical Disturbance Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| HDIST_ID | ID. |
| DIST_TYPE | A general category of disturbance derived from the dist_type attribute in the disturbance grids. |
| No Disturbance (0) | No disturbance detected or reported. |
| Clearcut | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Disease | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Harvest | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Insects | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Insects/Disease | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Mastication | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Non Disturbed | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Other Mechanical | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Prescribed Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Thinning | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Unknown | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information.. |
| Weather | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |

| LANDFIRE Historical Disturbance Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Wildfire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildland Fire | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| Wildland Fire Use | Visit https://www.landfire.gov/disturbance.php and https://www.landfire.gov/publicevents.php or the LANDFIRE Library for more information. |
| TYPE_CONFI | Classification level of confidence in the assignment of disturbance type. |
| Low (1) | Low confidence for causality based upon source information. |
| Medium (2) | Medium confidence for causality based upon source information. |
| High (3) | High confidence for causality based upon source information. |
| SEVERITY | Classification level of disturbance associated with effect on landcover. |
| Low (1) | General classification level associated with low effect on landcover. |
| Medium (2) | General classification level associated with medium effect on landcover. |
| High (3) | General classification level associated with high effect on landcover. |
| SEV_CONFID | Severity confidence. |
| Low (1) | Low confidence for causality based upon source information. |
| Medium (2) | Medium confidence for causality based upon source information. |
| High (3) | High confidence for causality based upon source information. |
| HDIST_CAT | HDist category. |
| Attribute | Description |
| HDIST_YR | HDist year. |
| Attribute | Description |
| FDist | FDist value. |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

5.2 Fire Regime Products

5.2.1 Succession Class (SClass) LF 2020

| LANDFIRE Succession Class Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | Value 1-7 or 111-180 or -1111 or -9999 |
| LABEL | |
| -1111 | Fill-Not Mapped |
| -9999 | Fill-NoData |
| 1 to 5 | A-E |
| 6 | UN |
| 7 | UE |
| 111 | Water |
| 112 | Snow / Ice |
| 120 | Developed |
| 132 | Barren or Sparse |
| 180 | Agriculture |
| DESCRIPTION | LANDFIRE's (LF) 2020 Succession Class (SClass) categorizes current vegetation composition and structure into up to five successional classes, with successional classes defined in the appropriate Biophysical Settings (BpS) Model. There are two additional categories for uncharacteristic species (exotic or invasive vegetation), and uncharacteristic native vegetation cover, structure, or composition. |
| A | Succession Class A |
| B | Succession Class B |
| C | Succession Class C |
| D | Succession Class D |
| E | Succession Class E |
| UN | Uncharacteristic Native Vegetation Cover / Structure / Composition |
| UE | Uncharacteristic Exotic Vegetation |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |
| R | Red color value range/255 |
| G | Green color value range/255 |
| B | Blue color value range/255 |

5.2.2 Vegetation Condition Class (VCC) LF 2020

| LANDFIRE Vegetation Condition Class Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | |
| -1111 | Fill-Not Mapped |
| -9999 | Fill-NoData |
| 1 to 6 | Vegetation Condition Class |
| 111 | Water |
| 112 | Snow/Ice |
| 120 | Developed |
| 132 | Barren or sparse |
| 180 | Agriculture |
| CLASS | |
| 1 | Vegetation Condition Class I.A |
| 2 | Vegetation Condition Class I.B |
| 3 | Vegetation Condition Class II.A |
| 4 | Vegetation Condition Class II.B |
| 5 | Vegetation Condition Class III.A |
| 6 | Vegetation Condition Class III.B |
| DESCRIPTION | The Vegetation Condition Class (VCC) data layer categorizes departure between current vegetation conditions and reference vegetation conditions similar to the methods outlined in the Interagency Fire Regime Condition Class Guidebook. |
| Vegetation Condition Class I.A | Very Low, Vegetation Departure 0-16% |
| Vegetation Condition Class I.B | Low, Vegetation Departure 17-33% |
| Vegetation Condition Class II.A | Moderate to Low, Vegetation Departure 34-50% |
| Vegetation Condition Class II.B | Moderate to High, Vegetation Departure 51-66% |
| Vegetation Condition Class III.A | High, Vegetation Departure 67-83% |
| Vegetation Condition Class III.B | Very High, Vegetation Departure 84-100% |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |

5.2.3 Vegetation Departure (VDep) LF 2020

| LANDFIRE Vegetation Departure Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | |
| -1111 | Fill-Not Mapped |
| -9999 | Fill-NoData |
| 1 to 100 | Percent Vegetation Departure |
| 111 | Water |
| 112 | Snow/Ice |
| 120 | Developed |
| 132 | Barren or sparse |
| 180 | Agriculture |
| LABEL | |
| 0 to 100 | Percent departure |
| DESCRIPTION | The Vegetation Departure (VDEP) data layer categorizes departure between current vegetation conditions and reference vegetation conditions similar to methods outlined in the Interagency Fire Regime Condition Class Guidebook. VDEP is the percent that vegetation has departed from simulated historical vegetation reference conditions. |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |

5.3 Fuel Products

5.3.1 Canopy Bulk Density (CBD) LF 2020

| LANDFIRE Forest Canopy Bulk Density Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | Forest canopy bulk density (CBD) is the mass of available canopy fuel per unit canopy volume that would burn in a crown fire and values range 0 to 45. Units are kg m-3 * 100. To retrieve the real data value, divide the values by 100. The conversion from kg m-3 to lb ft-3 is 0.061728 (multiply kg m-3 by 0.061728). |
| -9999 | Fill - NoData |
| 0 | All non - forest values, including herbaceous and most shrub systems and non-burnable types such as urban, barren, snow and ice, and agriculture. |
| 1 - 45 | 0.01 - 0.45 kg / m ³ . |
| >45 | 0.45 = thematic class of all values > 0.45 meters |
| COUNT | Number of pixels for the corresponding value. |
| KGM3_X_100 | Display attribute, CBD is kilograms per meter cubed multiplied by 100. |
| Non-forested | Value is 0. |
| CBD > 45 | Value is 45. |
| KGM3 | Kilograms per meter cubed. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value. |
| GREEN | Green color value. |
| BLUE | Blue color value. |

5.3.2 Canopy Base Height (CBH) LF 2020

| LANDFIRE Forest Canopy Base Height Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| VALUE | Forest canopy base height (CBH) describes the lowest point in a stand where there is sufficient available fuel (=> .25 in dia.) to propagate fire vertically through the canopy. Specifically, CBH is defined as the lowest point at which the canopy bulk density is >= 0.012 kg m-3. |
| -9999 | Fill - NoData |
| 0 | All non-forest values, including herbaceous and most shrub systems and non-burnable types such as urban, barren, snow and ice, and agriculture. |
| 1 - 99 | 0 - 9.9 meters |
| 100 | values >= 10 meters and some stands dominated by broadleaf species. |
| COUNT | Number of pixels for the corresponding value. |
| METERSX10 | Display attribute, cbh is m*10 |
| Non-forested | Value is 0 |
| CBH > 100 | Value is 100 |
| METERS | Meters. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value. |
| GREEN | Green color value. |
| BLUE | Blue color value. |

5.3.3 Canopy Cover (CC) LF 2020

| LANDFIRE Forest Canopy Cover Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| VALUE | Forest canopy cover (CC) describes percent cover of tree canopy in a stand. Where there are tree canopies, i.e. existing vegetation types that are forest and woodland, the grid is attributed with canopy characteristics with some exceptions. There will be no canopy characteristics in fuel types where the tree canopy is considered a part of the surface fuel and the surface fire behavior fuel model is chosen as such. This is because LANDFIRE assumes the potential burnable biomass in the tree canopy has been accounted for in the surface fuel model parameters. |
| -9999 | Fill - NoData |
| 0 | All non - forest values, including herbaceous and most shrub systems and non-burnable types such as urban, barren, snow and ice, and agriculture. |
| 5 | Forest cover 5% <= CC < 10% |

| LANDFIRE Forest Canopy Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| 15 | Forest cover 10% <= and < 20% |
| 17 | Forest cover 10% <= CC < 25% |
| 25 | Forest cover 20% <= and < 30% |
| 35 | Forest cover 30% <= and < 40% |
| 42 | Forest cover 25% <= CC < 60% |
| 45 | Forest cover 40% <= and < 50% |
| 55 | Forest cover 50% <= and < 60% |
| 65 | Forest cover 60% <= and < 70% |
| 75 | Forest cover 70% <= and < 80% |
| 80 | Forest Cover 60% <= CC < 100% |
| 85 | Forest cover 80% <= and < 90% |
| 95 | Forest cover 90% <= and <= 100% |
| Count | number of pixels for the corresponding value |
| CC_PERCENT | display attribute, canopy height meters * 10 (midpoints) |
| Forest cover 10% <= and < 20% | 15% |
| Forest cover 20% <= and < 30% | 25% |
| Forest cover 30% <= and < 40% | 35% |
| Forest cover 40% <= and < 50% | 45% |
| Forest cover 50% <= and < 60% | 55% |
| Forest cover 60% <= and < 70% | 65% |
| Forest cover 70% <= and < 80% | 75% |
| Forest cover 80% <= and < 90% | 85% |
| Forest cover 90% <= and <= 100% | 95% |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

5.3.4 Canadian Forest Fire Danger Rating System (CFFDRS) LF 2020

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| VALUE | |
| 1-995 | GRID value |
| EXPORT_VAL | Export value. Selected based on fire site conditions if the fuel type has choices, such as D1/D2, O-1a/O-1b, M1/M2, and M3/M4. Once the appropriate fuel type is chosen by the user it can be exported to a new GRID or to the fire behavior software. |
| DESCRIPTIV | Short description of predominant vegetation and what would have an impact on the fire site. |
| Spruce-Lichen Woodland C1 | This fuel type is characterized by open, parklike black spruce (<i>Picea mariana</i> (Mill.) B.S.P.) stands occupying well drained uplands in the subarctic zone of western and northern Canada. Jack pine (<i>Pinus banksiana</i> Lamb.) and white birch (<i>Betula papyrifera</i> Marsh.) are minor associates in the overstory. Forest cover occurs as widely spaced individuals and dense clumps. Tree heights vary considerably, but bole branches (live and dead) uniformly extend to the forest floor, and layering development is extensive. Accumulation of woody surface fuel is very light and scattered. Shrub cover is exceedingly sparse. The ground surface is fully exposed to the sun and covered by a nearly continuous mat of reindeer lichens (<i>Cladonia</i> spp.), averaging 3 to 4 cm in depth above mineral soil. |
| Boreal Spruce C2 | This fuel type is characterized by pure, moderately well-stocked black spruce (<i>Picea mariana</i> (Mill.) B.S.P.) stands on lowland (excluding Sphagnum bogs) and upland sites. Tree crowns extend to or near the ground, and dead branches are typically draped with bearded lichens (<i>Usnea</i> spp.). The flaky nature of the bark on the lower portion of stem boles is pronounced. Low to moderate volumes of down woody material are present. Labrador tea (<i>Ledum groenlandicum</i> Oeder) is often the major shrub component. The forest floor is dominated by a carpet of feather mosses and/or ground-dwelling lichens (chiefly <i>Cladonia</i>). Sphagnum mosses may occasionally be present, but they are of little hindrance to surface fire spread. A compacted organic layer commonly exceeds a depth of 20 to 30 cm. |
| Mature Jack or Lodgepole Pine C3 | This fuel type is characterized by pure, fully stocked (1000–2000 stems/ha) jack pine (<i>Pinus banksiana</i> Lamb.) or lodgepole pine (<i>Pinus contorta</i> Dougl. ex Loud.) stands that have matured at least to the stage of complete crown closure. The base of live crown is well above the ground. Dead surface fuels are light and scattered. Ground cover is feather moss (<i>Pleurozium schreberi</i>) over a moderately deep (approximately 10-cm) compacted organic layer. A sparse conifer understory may be present. |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| Immature Jack or Lodgepole Pine C4 | This fuel type is characterized by pure, dense jack pine (<i>Pinus banksiana</i> Lamb.) or lodgepole pine (<i>Pinus contorta</i> Dougl. ex Loud.) stands (10,000–30,000 stems/ha) in which natural thinning mortality results in a large quantity of standing dead stems and dead downed woody fuel. Vertical and horizontal fuel continuity is characteristic of this fuel type. Surface fuel loadings are greater than in fuel type C3, and organic layers are shallower and less compact. Ground cover is mainly needle litter suspended within a low shrub layer (<i>Vaccinium</i> spp.). |
| Red and White Pine C5 | This fuel type is characterized by mature stands of red pine (<i>Pinus resinosa</i> Ait.) and eastern white pine (<i>Pinus strobus</i> L.) in various proportions, sometimes with small components of white spruce (<i>Picea glauca</i> (Moench) Voss) and old white birch (<i>Betula papyrifera</i> Marsh.) or aspen (<i>Populus</i> spp.). The understory is of moderate density, usually red maple (<i>Acer rubrum</i> L.) or balsam fir (<i>Abies balsamea</i> (L.) Mill.). A shrub layer, usually beaked hazel (<i>Corylus cornuta</i> Marsh.), may be present in moderate proportions. The ground surface cover is a combination of herbs and pine litter. The organic layer is usually 5 to 10 cm deep. |
| Conifer Plantation C6 | This fuel type is characterized by pure, fully stocked conifer plantations with closed crowns and no understory or shrub layer. The forest floor is covered by needle litter with an underlying duff layer up to 10 cm deep. The crown base height is taken into account when predicting fire spread rate and crowning. |
| Ponderosa Pine-Douglas-Fir C7 | This fuel type is characterized by uneven-aged stands of ponderosa pine (<i>Pinus ponderosa</i> Laws.) and Douglasfir (<i>Pseudotsuga menziesii</i> (Mirb.) Franco) in various proportions. Western larch (<i>Larix occidentalis</i> Nutt.) and lodgepole pine (<i>Pinus contorta</i> Dougl. ex Loud.) may be significant stand components on some sites and at some elevations. Stands are open, with occasional clumpy thickets of multi-aged Douglas-fir and/or larch as a discontinuous understory. Canopy closure is less than 50% overall, although thickets are closed and often dense. Woody surface fuel accumulations are light and scattered. Except within Douglas-fir thickets, the forest floor is dominated by perennial grasses, herbs, and scattered shrubs. Within tree thickets, needle litter is the predominant surface fuel. Duff layers are nonexistent to shallow (<3 cm). |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Leafless Aspen D1 | This fuel type is characterized by pure, semimature trembling aspen (<i>Populus tremuloides</i> Michx.) stands before bud break in the spring or following leaf fall and curing of the lesser vegetation in the autumn. A conifer understory is noticeably absent, but a well-developed medium to tall shrub layer is typically present. Dead and down roundwood fuels are a minor component of the fuel complex. The principal fire carrying surface fuel consists chiefly of deciduous leaf litter and cured herbaceous material that is directly exposed to wind and solar radiation. In the spring the duff mantle (F and H horizons) seldom contributes to the available combustion fuel because of its high moisture content. |
| Green Aspen D2 | This fuel type is characterized by the Build Up Index (BUI) at a level (70) where fire spread does not occur. In other words, there needs to be a BUI of at least 70 for fire spread to occur in Green Aspen (D2). Below this point and a fuel type won't carry a fire. The Canadian Forest Fire Weather Index (FWI) System consists of six components that account for the effects of fuel moisture and weather conditions on fire behavior. BUI is a measure of fuel loading and availability, a numeric rating of the total amount of fuel available for combustion. BUI sets thresholds to describe the severity of the fuel situation based on fuel type, loading, and dryness. |
| Aspen | D1/D2 |
| Jack or Lodgepole Pine Slash S1 | This fuel type is characterized by slash resulting from tractor or skidder clear-cut logging of mature jack pine (<i>Pinus banksiana</i> Lamb.) or lodgepole pine (<i>Pinus contorta</i> Dougl. ex Loud.) stands. The slash is typically one or two seasons old, retaining up to 50% of the foliage, particularly on branches closest to the ground. No post-logging treatment has been applied, and slash fuels are continuous. Tops and branches left on site result in moderate fuel loads and depths. Ground cover is continuous feather moss mixed with discontinuous fallen needle litter. Organic layers are moderately deep and fairly compact. |
| White Spruce-Balsam Slash S2 | This fuel type is characterized by slash resulting from tractor or skidder clear-cut logging of mature to overmature stands of white spruce (<i>Picea glauca</i> (Moench) Voss) and sub-alpine fir (<i>Abies lasiocarpa</i> (Hook.) Nutt.) or balsam fir (<i>Abies balsamea</i> (L.) Mill.). Slash is typically one or two seasons old, retaining from 10% to 50% of the foliage on the branches. No post logging treatment has been applied. Fuel continuity may be broken by skid trails unless the site was logged in winter. Tops have been left on site, and most branch fuels have broken off during skidding of logs to landings, which results in moderate fuel loads and depths. Quantities of shattered large and rotten woody fuels may be significant. Ground cover is feather moss with considerable needle litter fallen from the slash. Organic layers are moderately deep and compact. |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| Coastal Cedar-Hemlock-Douglas-Fir Slash S3 | This fuel type is characterized by slash resulting from high lead clear cut logging of mature to overmature coastal British Columbia mixed conifer stands. Predominant species are western redcedar (<i>Thuja plicata</i> Donn.), western hemlock (<i>Tsuga heterophylla</i> (Raf.) Sarg.), and Douglas-fir (<i>Pseudotsuga menziesii</i> (Mirb.) Franco). Slash is typically one season old, with the cedar component retaining all its foliage in a cured condition on the branches, whereas the hemlock and Douglas-fir components will have dropped up to 50% of their foliage. Slash fuels tend to be continuous and uncompacted. Very large loadings of broken and rotten unmerchantable material may be present, depending on degree of stand decadence. Slash fuel depths may range from 0.5 to 2.0 m. Ground cover may be feather moss or just compact old needle litter under significant quantities of recent needle litter fallen from the slash. Organic layers are moderately deep to deep and compact. Minor to moderate shrub and herbaceous understory components may be present. This fuel type designation may also be applied to wet belt cedar-hemlock slash of coastal and interior British Columbia where the Douglas-fir component is absent. |
| Matted Grass O1a | This fuel type is characterized by continuous grass cover, with no more than occasional trees or shrub clumps that do not appreciably affect fire behavior. Two subtype designations are available for grasslands; one for the matted grass condition common after snowmelt or in the spring (O1-a) and the other for standing dead grass common in late summer to early fall (O1-b). The proportion of cured or dead material in grasslands has a pronounced effect on fire spread there and must be estimated with care. |
| Standing Grass O1b | This fuel type is characterized by continuous grass cover, with no more than occasional trees or shrub clumps that do not appreciably affect fire behavior. Two subtype designations are available for grasslands; one for the matted grass condition common after snowmelt or in the spring (O1-a) and the other for standing dead grass common in late summer to early fall (O1-b). The proportion of cured or dead material in grasslands has a pronounced effect on fire spread there and must be estimated with care. |
| Grass | O1a/O1b |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Boreal Mixedwood- Leafless M1 | This fuel type (and its "green" counterpart, M2) is characterized by stand mixtures consisting of the following coniferous and deciduous tree species in varying proportions: black spruce (<i>Picea mariana</i> (Mill.) B.S.P.), white spruce (<i>Picea glauca</i> (Moench) Voss), balsam fir (<i>Abies balsamea</i> (L.) Mill.), subalpine fir (<i>Abies lasiocarpa</i> (Hook.) Nutt.), trembling aspen (<i>Populus tremuloides</i> Michx.), and white birch (<i>Betula papyrifera</i> Marsh.). On any specific site, individual species can be present or absent from the mixture. In addition to the diversity in species composition, stands exhibit wide variability in structure and development, but are generally confined to moderately well drained upland sites. M1, the first phase of seasonal variation in flammability, occurs during the spring and fall. The rate of spread is weighted according to the proportion (expressed as a percentage) of softwood and hardwood components. |
| Boreal Mixedwood Green M2 | This fuel type (and its "leafless" counterpart, M1) is characterized by stand mixtures consisting of the following coniferous and deciduous tree species in varying proportions: black spruce (<i>Picea mariana</i> (Mill.) B.S.P.), white spruce (<i>Picea glauca</i> (Moench) Voss), balsam fir (<i>Abies balsamea</i> (L.) Mill.), subalpine fir (<i>Abies lasiocarpa</i> (Hook.) Nutt.), trembling aspen (<i>Populus tremuloides</i> Michx.), and white birch (<i>Betula papyrifera</i> Marsh.). On any specific site, individual species can be present or absent from the mixture. In addition to the diversity in species composition, stands exhibit wide variability in structure and development, but are generally confined to moderately well drained upland sites. M2, the second phase of seasonal variation in flammability, occurs during the summer. The rate of spread is weighted according to the proportion (expressed as a percentage) of softwood and hardwood components. In the summer, when the deciduous overstory and understory are in leaf, fire spread is greatly reduced, with maximum spread rates only one-fifth that of spring or fall fires under similar burning conditions. For purposes of refining fire behavior calculation this fuel type has been separated into three distinct classes based on the amount of softwood and/or hardwood that exists within the site. M2A denotes sites that are Boreal Mixwood that are green and < 25% conifer and ≥75% hardwood. M2B characterizes sites that are Boreal Mixwood that are green and 50/50 conifer/hardwood. M-2C depicts sites that are < 25% hardwood and ≥75% conifer. |
| Boreal Mixedwood | M1/M2 |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Dead Balsam Fir Mixedwood-Leafless M3 | This fuel type (and its "green" counterpart, M4) is characterized by mixedwood stands in which balsam fir (<i>Abies balsamea</i> (L.) Mill.) grows, often as an understory species, in a heterogeneous mix with spruce (<i>Picea</i> spp.), pine (<i>Pinus</i> spp.), and birch (<i>Betula</i> spp.). These stands are found in the Great Lakes – St. Lawrence and Boreal Forest regions of Canada and are not to be confused with the pure balsam fir stands typical of Nova Scotia and New Brunswick. Repeated annual defoliation (due to spruce budworm (<i>Choristoneura fumiferana</i> Clemens) attack) causes balsam fir mortality, followed by peeling bark, draped lichen (Spanish moss or old man's beard, <i>Usnea</i> spp.) development, top breakage, and windthrow, peaking 5 to 8 years after mortality. The volume of down woody material is initially low but increases substantially with progressive stand decomposition following mortality. The forest floor is a mixture of feather mosses, conifer needles, and hardwood leaves. The organic layer is moderately compacted and 8–10 cm deep. After mortality, spring fires in this fuel type behave extremely vigorously, with continuous crowning and downwind spotting. |
| Dead Balsam Fir Mixedwood-Green M4 | This fuel type (and its "leafless" counterpart, M3) is characterized by mixedwood stands in which balsam fir (<i>Abies balsamea</i> (L.) Mill.) grows, often as an understory species, in a heterogeneous mix with spruce (<i>Picea</i> spp.), pine (<i>Pinus</i> spp.), and birch (<i>Betula</i> spp.). These stands are found in the Great Lakes – St. Lawrence and Boreal Forest regions of Canada and are not to be confused with the pure balsam fir stands typical of Nova Scotia and New Brunswick. Repeated annual defoliation (due to spruce budworm (<i>Choristoneura fumiferana</i> Clemens) attack) causes balsam fir mortality, followed by peeling bark, draped lichen (Spanish moss or old man's beard, <i>Usnea</i> spp.) development, top breakage, and windthrow, peaking 5 to 8 years after mortality. The volume of down woody material is initially low but increases substantially with progressive stand decomposition following mortality. The forest floor is a mixture of feather mosses, conifer needles, and hardwood leaves. The organic layer is moderately compacted and 8–10 cm deep. Summer fires are hampered by the proliferation of green understory vegetation resulting from the opening of stand canopy. As sufficient surface fuel accumulates through stand decomposition (usually after 4–5 years), fires will spread through the fuel complex, although not as vigorously as in spring. Forest fire behavior potential is greatest 5–8 years after mortality, decreasing gradually as the surface fuels decompose and the understory vegetation continues to proliferate. For purposes of refining fire behavior calculation this fuel type has been separated into three distinct classes based on the amount of softwood and/or hardwood that exists within the site. M-4A denotes sites that are Boreal Mixwood that are green and < 25% conifer and ≥75% hardwood. M-4B characterizes sites that are Boreal Mixwood that are green and 50% conifer and 50% hardwood. M-4C depicts sites that are < 25% hardwood and ≥75% conifer. |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| Dead Balsam Fir Mixedwood | M3/M4 |
| Not Available | Non-fuel |
| Non-fuel | Non-fuel |
| Water | Non-fuel |
| Unknown | Non-fuel |
| Unclassified | Non-fuel |
| Vegetated Non-Fuel | Non-fuel |
| FUEL_TYPE | Canadian Forest Fire Danger Rating System fuel type designator. These fuel types have been defined "as an identifiable association of fuel elements of distinctive species, form, size, arrangement, and continuity that will exhibit characteristic fire behavior under defined burning conditions" (Pyne, Andrews and Laven, 1996). The Canadian Forest Fire Behavior Prediction System arranges fuel types into five major groups with 16 discrete fuel types qualitatively distinguished by variations in their forest floor and organic layer, their surface and ladder fuels, and their stand structure and composition. |
| C | Spruce-Lichen Woodland, Boreal Spruce, Mature Jack or Lodgepole Pine, Immature Jack or Lodgepole Pine, Red and White Pine, Conifer Plantation, and Ponderosa Pine-Douglas-Fir. See the attribute table for more specific details and values. |
| D | Leafless Aspen, Green Aspen, and Aspen. See the attribute table for more specific details and values. |
| S | Jack or Lodgepole Pine Slash, White Spruce-Balsam Slash, or Coastal Cedar-Hemlock-Douglas-Fire Slash. See the attribute table for more specific details and values. |
| O | Matted Grass, Standing Grass, or Grass. See the attribute table for more specific details and values. |
| M | Boreal Mixedwood or Dead Balsam Fir Mixedwood. See the attribute table for more specific details and values. |
| Non-Fuel | Not available, Non-fuel, Unknown, Unclassified, Water, and Vegetated Non-Fuel. See the attribute table for more specific details and values. |
| HUE | Hue is the color of a point, as found along the spectrum or around a color wheel. |
| SATURATION | Saturation is an indicator of the intensity of a hue. Higher saturation hues appear 'stronger;' for example being 'more red' or 'more blue'. |
| LIGHTNESS | Lightness is a measure of how bright or dark a hue is. Physically, this is found in the amplitude and consequent energy of the electromagnetic waves of light. |
| R | Red color value range /255 |
| G | Green color value range /255 |

| LANDFIRE Canadian Forest Fire Danger Rating System Attribute Data Dictionary | |
|--|-------------------------------|
| Attribute | Description |
| B | Blue color value range /255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

5.3.5 Canopy Height (CH) LF 2020

| LANDFIRE Forest Canopy Height Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | Forest canopy height (CH) describes the average height of the top of the canopy for a stand, and is described as class midpoints of canopy height meters * 10. |
| -9999 | Fill - NoData |
| 0 | All non-forest values, including herbaceous and most shrub systems and non-burnable types such as urban, barren, snow and ice, and agriculture. |
| 30 | Forest Height 1.8 - <5 meters |
| 70 | Forest Height 5 - <9 meters |
| 110 | Forest Height 9 - <13 meters |
| 150 | Forest Height 13 - <17 meters |
| 190 | Forest Height 17 - <21 meters |
| 230 | Forest Height 21 - <25 meters |
| 270 | Forest Height 25 - <29 meters |
| 310 | Forest Height 29 - <33 meters |
| 350 | Forest Height 33 - <37 meters |
| 390 | Forest Height 37 - <41 meters |
| 430 | Forest Height 41 - <45 meters |
| 470 | Forest Height 45 - ≤49 meters |
| 510 | Forest Height ≥50 meters |
| Count | Number of pixels for the corresponding value. |
| MetersX10 | Display attribute, canopy height meters * 10 midpoints. |
| Forest Height 1.8 to 5 meters | Midpoint of forest canopy 1.8 to 5 meters |
| Forest Height 5 to 9 meters | Midpoint of forest canopy 5 to 9 meters |
| Forest Height 9 to 13 meters | Midpoint of forest canopy 9 to 13 meters |
| Forest Height 13 to 17 meters | Midpoint of forest canopy 13 to 17 meters |
| Forest Height 17 to 21 meters | Midpoint of forest canopy 17 to 21 meters |

| LANDFIRE Forest Canopy Height Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Forest Height 21 to 25 meters | Midpoint of forest canopy 21 to 25 meters |
| Forest Height 25 to 29 meters | Midpoint of forest canopy 25 to 29 meters |
| Forest Height 29 to 33 meters | Midpoint of forest canopy 29 to 33 meters |
| Forest Height 33 to 37 meters | Midpoint of forest canopy 33 to 37 meters |
| Forest Height 37 to 41 meters | Midpoint of forest canopy 37 to 41 meters |
| Forest Height 41 to 45 meters | Midpoint of forest canopy 41 to 45 meters |
| Forest Height 45 to 49 meters | Midpoint of forest canopy 45 to 49 meters |
| Forest Height > 50 meters | Midpoint of forest canopy > 50 meters |
| MetersX10 | Canopy height in meters. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| Red | Red color value range 0 - 1 |
| Green | Green color value range 0 - 1 |
| Blue | Blue color value range 0 - 1 |

5.3.6 Fuel Characteristic Classification System (FCCS) LF 2020

| LANDFIRE Fuel Characteristic Classification System Fuelbeds Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | |
| 1-12990133 | Value |
| -9999 | Fill - NoData |
| FCCS | |
| 1-12990133 | FCCS |
| FCCSID | |
| 1-12990133 | FCCS ID |
| FCCS_REG | FCCS Region |
| FUELBED | |
| Fuelbed Name | The LF Remap Fuel Characteristic Classification System (FCCS) calculates fuelbed characteristics and their potential fire behavior and effects. LF defines fuelbed as: the inherent physical characteristics of fuel that contribute to fire behavior and effects (Riccardi et al. 2007). FCCS represents the composition of fuels, and features six horizontal fuel layers called stratum (canopy, shrubs, herbs, downed wood, litter and duff). FCCS can be used for predicting surface fire behavior, crown fire potential, and fuel availability. FCCS fuelbeds are included preloaded in the US Forest Service (USFS) Fuel and Fire Tools (FFT) application. |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |
| RED | Red color value. |
| GREEN | Green color value. |
| BLUE | Blue color value. |

5.3.7 Fuel Disturbance (FDist) LF 2020

| LANDFIRE Fuel Disturbance Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | FDistYEAR grids are a composite of the disturbance grids recoded by disturbance type, disturbance severity, and time since disturbance to meet LANDFIRE fuel assignment needs, with the latest disturbance taking precedence. Value is represented by a 3 digit code. |
| 111 - 733 | Code denotes disturbance type, severity, and time since disturbance. |
| -1111 | Fill - Not Mapped |
| -9999 | Fill - NoData |
| 0 | No disturbance. |
| Count | Number of pixels for the corresponding value |

| LANDFIRE Fuel Disturbance Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| D_TYPE | A general category of disturbance derived from the dist_type attribute in the disturbance grids. |
| No Disturbance (0) | No disturbance detected or reported. |
| Fire (1) | Any non-structure fire that occurs in the wildland. Three distinct types of wildland fire have been defined: wildfire, wildland fire use, and prescribed fire. |
| Mechanical Add (2) | A means by which vegetation is mechanically "mowed" or "chipped" into small pieces and changed from a vertical to horizontal arrangement of fuel. |
| Mechanical Remove (3) | A general term for the cutting, felling, and gathering of forest timber. |
| Windthrow (4) | A weather related event that results in loss of vegetation such as blowdown, hurricane, or tornado. |
| Insects-Disease (5) | Any Infestations of insects and/or disease that can affect vegetative health. |
| Mechanical Unknown (6) | A code to indicate unknown disturbance type. |
| Mastication (7) | Mechanical chipping of vegetation at low, moderate, or high severity, to reduce fuelbed orientation and fuelbed depth. |
| D_SEVERITY | Classification level of disturbance associated with effect on landcover. |
| Low (1) | General classification level associated with low effect on landcover. |
| Medium (2) | General classification level associated with medium effect on landcover. |
| High (3) | General classification level associated with high effect on landcover. |
| D_TIME | Time from YEAR since disturbance. |
| one year (1) | One year from YEAR since disturbance. |
| two - five years (2) | Two to five years from YEAR since disturbance. |
| six - ten years (3) | Six to ten years from YEAR since disturbance. |
| R | Red color value/255 |
| G | Red color value/255 |
| B | Red color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

5.3.8 Fire Behavior Fuel Model 13 (FBFM13) LF 2020

| LANDFIRE Fire Behavior Fuel Model 13 Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| VALUE | Thirteen typical surface fuel arrangements or "collections of fuel properties" (Anderson 1982) were described to serve as input for Rothermel's mathematical surface fire behavior and spread model (Rothermel 1972). 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. |
| -9999 | Fill - NoData |
| 1 | FBFM1 |
| 2 | FBFM2 |
| 3 | FBFM3 |
| 4 | FBFM4 |
| 5 | FBFM5 |
| 6 | FBFM6 |
| 7 | FBFM7 |
| 8 | FBFM8 |
| 9 | FBFM9 |
| 10 | FBFM10 |
| 11 | FBFM11 |
| 12 | FBFM12 |
| 13 | FBFM13 |
| 91 | Urban |
| 92 | Snow/Ice |
| 93 | Agriculture |
| 98 | Water |
| 99 | Barren |
| Count | Number of pixels for the corresponding value |
| FBFM13 | Display attribute, fire behavior 13 fuel model |
| FBFM1 | Surface fires that burn fine herbaceous fuels, cured and curing fuels, little shrub or timber present, primarily grasslands and savanna. |
| FBFM2 | Burns fine, herbaceous fuels, stand is curing or dead, may produce fire brands on oak or pine stands. |
| FBFM3 | Most intense fire of grass group, spreads quickly with wind, one third of stand dead or cured, stands average 3 feet tall. |
| FBFM4 | Fast spreading fire, continuous overstory, flammable foliage and dead woody material, deep litter layer can inhibit suppression. |

| LANDFIRE Fire Behavior Fuel Model 13 Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| FBFM5 | Low intensity fires, young, green shrubs with little dead material, fuels consist of litter from understory. |
| FBFM6 | Broad range of shrubs, fire requires moderate winds to maintain flame at shrub height, or will drop to the ground with low winds. |
| FBFM7 | Foliage highly flammable, allowing fire to reach shrub strata levels, shrubs generally 2 to 6 feet high. |
| FBFM8 | Slow, ground burning fires, closed canopy stands with short needle conifers or hardwoods, litter consist mainly of needles and leaves, with little undergrowth, occasional flares with concentrated fuels. |
| FBFM9 | Longer flames, quicker surface fires, closed canopy stands of long-needles or hardwoods, rolling leaves in fall can cause spotting, dead-down material can cause occasional crowning. |
| FBFM10 | Surface and ground fire more intense, dead-down fuels more abundant, frequent crowning and spotting causing fire control to be more difficult. |
| FBFM11 | Fairly active fire, fuels consist of slash and herbaceous materials, slash originates from light partial cuts or thinning projects, fire is limited by spacing of fuel load and shade from overstory. |
| FBFM12 | Rapid spreading and high intensity fires, dominated by slash resulting from heavy thinning projects and clearcuts, slash is mostly 3 inches or less. |
| FBFM13 | Fire spreads quickly through smaller material and intensity builds slowly as large material ignites, continuous layer of slash larger than 3 inches in diameter predominates, resulting from clearcuts and heavy partial cuts, active flames sustained for long periods of time, fire is susceptible to spotting and weather conditions. |
| Urban | Urban |
| Snow/Ice | Snow/Ice |
| Agriculture | Agriculture |
| Water | Water |
| Barren | Barren |
| R | Red color range/255 |
| G | Green color range/255 |
| B | Blue color range/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 – 1 |

5.3.9 Fire Behavior Fuel Model 40 (FBFM40) LF 2020

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| VALUE | 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). |
| -9999 | Fill - NoData |
| 91 | NB1 |
| 92 | NB2 |
| 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 | SH5 |
| 146 | SH6 |
| 147 | SH7 |

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| 148 | SH8 |
| 149 | SH9 |
| 161 | TU1 |
| 162 | TU2 |
| 163 | TU3 |
| 164 | TU4 |
| 165 | TU5 |
| 181 | TL1 |
| 182 | TL2 |
| 183 | TL3 |
| 184 | TL4 |
| 185 | TL5 |
| 186 | TL6 |
| 187 | TL7 |
| 188 | TL8 |
| 189 | TL9 |
| 201 | SB1 |
| 202 | SB2 |
| 203 | SB3 |
| 204 | SB4 |
| Count | Number of pixels for the corresponding value |
| FBFM | Display attribute. FBFM Description |
| NB1 | Urban/Developed |
| NB2 | Snow/Ice |
| NB3 | Agricultural |
| NB8 | Open 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. |

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| 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 to 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 to 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 high 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 flame 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 to 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 depth about 3 feet, spread rate high and flame moderate. |
| SH5 | High load, dry climate shrub litter and woody shrubs, heavy load with depth 4-6 feet, spread rate and flame very high, moisture extinction 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 to 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 to 6 feet tall, herbaceous may be present, spread rate and flame high. |

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| 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 timber 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; spread 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 is very low 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 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 to 3-inch diameter class, depth about 1 foot, blowdown scattered with many still standing; spread rate moderate and flame low. |
| SB3 | High load activity fuel or moderate load blowdown, heavy dead down activity fuel or moderate blowdown, 7-12 t/ac, 0-.25 inch diameter class, depth > 1 foot, blowdown moderate trees compacted to near the ground; spread rate and flame high. |
| SB4 | High load blowdown, heavy blowdown fuel, blowdown is total fuelbed not compacted, foliage and fine fuel still attached to blowdown; spread rate and flame very high. |
| R | Red color value range 0 - 255 |
| G | Green color value range 0 - 255 |

| LANDFIRE Fire Behavior Fuel Model 40 Attribute Data Dictionary | |
|--|--------------------------------|
| Attribute | Description |
| B | Blue color value range 0 - 255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 – 1 |

5.3.10 Fuel Vegetation Cover (FVC) LF 2020

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| VALUE | 2-3 digit code representing the land cover type or depicts percent canopy cover by life form. FVC has a potential range of 0 - 100 percent canopy cover. Values are binned into discrete classes (up to 10 bins at 10 percent intervals for tree, shrub and herbaceous canopy cover). |
| -9999 | Fill - NoData |
| 11 | Open Water |
| 12 | Snow/Ice |
| 13 | Developed-Upland Deciduous Forest |
| 14 | Developed-Upland Evergreen Forest |
| 15 | Developed-Upland Mixed Forest |
| 16 | Developed-Upland Herbaceous |
| 17 | Developed-Upland Shrubland |
| 18 | Developed-Herbaceous Wetland Vegetation |
| 19 | Developed-Woody Wetland Vegetation |
| 20 | Developed - General |
| 21 | Developed - Open Space |
| 22 | Developed - Low Intensity |
| 23 | Developed - Medium Intensity |
| 24 | Developed - High Intensity |
| 25 | Developed-Roads |
| 31 | Barren |
| 32 | Quarries-Strip Mines-Gravel Pits |
| 60 | NASS-Orchard |
| 61 | NASS-Vineyard |
| 62 | NASS-Bush fruit and berries |
| 63 | NASS-Row Crop-Close Grown Crop |
| 64 | NASS-Row Crop |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|-------------------------------|
| Attribute | Description |
| 65 | NASS-Close Grown Crop |
| 66 | NASS-Fallow/Idle Cropland |
| 67 | NASS-Pasture and Hayland |
| 68 | NASS-Wheat |
| 69 | NASS-Aquaculture |
| 75 | Herbaceous Semi-dry |
| 76 | Herbaceous Semi-wet |
| 78 | Recently Disturbed Forest |
| 80 | Agriculture - General |
| 81 | Pasture/Hay |
| 82 | Cultivated Crops |
| 83 | Small Grains |
| 84 | Fallow |
| 85 | Urban-Recreational Grasses |
| 95 | Herbaceous Wetlands |
| 100 | Sparse Vegetation Canopy |
| 101 | Tree Cover >= 10 and < 20% |
| 102 | Tree Cover >= 20 and < 30% |
| 103 | Tree Cover >= 30 and < 40% |
| 104 | Tree Cover >= 40 and < 50% |
| 105 | Tree Cover >= 50 and < 60% |
| 106 | Tree Cover >= 60 and < 70% |
| 107 | Tree Cover >= 70 and < 80% |
| 108 | Tree Cover >= 80 and < 90% |
| 109 | Tree Cover >= 90 and <= 100% |
| 111 | Shrub Cover >= 10 and < 20% |
| 112 | Shrub Cover >= 20 and < 30% |
| 113 | Shrub Cover >= 30 and < 40% |
| 114 | Shrub Cover >= 40 and < 50% |
| 115 | Shrub Cover >= 50 and < 60% |
| 116 | Shrub Cover >= 60 and < 70% |
| 117 | Shrub Cover >= 70 and < 80% |
| 118 | Shrub Cover >= 80 and < 90% |
| 119 | Shrub Cover >= 90 and <= 100% |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| 121 | Herb Cover >= 10 and < 20% |
| 122 | Herb Cover >= 20 and < 30% |
| 123 | Herb Cover >= 30 and < 40% |
| 124 | Herb Cover >= 40 and < 50% |
| 125 | Herb Cover >= 50 and < 60% |
| 126 | Herb Cover >= 60 and < 70% |
| 127 | Herb Cover >= 70 and < 80% |
| 128 | Herb Cover >= 80 and < 90% |
| 129 | Herb Cover >= 90 and <= 100% |
| 150 | Sparse Vegetation Canopy |
| 151 | Tree Canopy >= 10 and < 25% |
| 152 | Tree Canopy >= 25 and < 60% |
| 153 | Tree Canopy >= 60 and <= 100% |
| 161 | Shrub Canopy >= 10 and < 25% |
| 162 | Shrub Canopy >= 25 and < 60% |
| 163 | Shrub Canopy >= 60 and <= 100% |
| 171 | Herb Canopy >= 10 and < 60% |
| 172 | Herb Canopy >= 60 and <= 100% |
| CLASSNAMES | Display attribute. FVC is EVC that has been binned to facilitate fuel rule assignment. |
| NoData | No data background value. |
| Open Water | LANDFIRE Mapped. |
| Snow/Ice | NLCD 2011 Snow/Ice |
| Developed-Upland Deciduous Forest | LANDFIRE Mapped. |
| Developed-Upland Evergreen Forest | LANDFIRE Mapped. |
| Developed-Upland Mixed Forest | LANDFIRE Mapped. |
| Developed-Upland Herbaceous | LANDFIRE Mapped. |
| Developed-Upland Shrubland | LANDFIRE Mapped. |
| Developed-Herbaceous Wetland Vegetation | LANDFIRE Mapped. |
| Developed-Woody Wetland Vegetation | LANDFIRE Mapped. |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| Developed - General | LANDFIRE Mapped. |
| Developed - Open Space | LANDFIRE Mapped. |
| Developed - Low Intensity | LANDFIRE Mapped. |
| Developed - Medium Intensity | LANDFIRE Mapped. |
| Developed - High Intensity | LANDFIRE Mapped. |
| Developed-Roads | LANDFIRE Mapped. |
| Barren | LANDFIRE Mapped. |
| Quarries-Strip Mines-Gravel Pits | LANDFIRE Mapped using information from multiple sources. |
| NASS-Orchard | Agricultural mapping from NASS and local sources if available. |
| NASS-Vineyard | Agricultural mapping from NASS and local sources if available. |
| NASS-Bush fruit and berries | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Fallow/Idle Cropland | Agricultural mapping from NASS and local sources if available. |
| NASS-Pasture and Hayland | Agricultural mapping from NASS and local sources if available. |
| NASS-Wheat | Agricultural mapping from NASS and local sources if available. |
| NASS-Aquaculture | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Semi-dry | LANDFIRE Mapped. |
| Herbaceous Semi-wet | LANDFIRE Mapped. |
| Recently Disturbed Forest | LANDFIRE Mapped. |
| Agriculture - General | Agricultural mapping from NASS and local sources if available. |
| Pasture/Hay | Agricultural mapping from NASS and local sources if available. |
| Cultivated Crops | Agricultural mapping from NASS and local sources if available. |
| Small Grains | Agricultural mapping from NASS and local sources if available. |
| Fallow | Agricultural mapping from NASS and local sources if available. |
| Urban-Recreational Grasses | LANDFIRE Mapped. |
| Herbaceous Wetlands | LANDFIRE Mapped. |
| Sparse Vegetation Canopy | LANDFIRE continuous EVC < 10% |
| Tree Cover >= 10 and < 20% | LANDFIRE continuous EVC binned to Tree Cover >= 10 and < 20% |
| Tree Cover >= 20 and < 30% | LANDFIRE continuous EVC binned to Tree Cover >= 20 and < 30% |
| Tree Cover >= 30 and < 40% | LANDFIRE continuous EVC binned to Tree Cover >= 30 and < 40% |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Tree Cover >= 40 and < 50% | LANDFIRE continuous EVC binned to Tree Cover >= 40 and < 50% |
| Tree Cover >= 50 and < 60% | LANDFIRE continuous EVC binned to Tree Cover >= 50 and < 60% |
| Tree Cover >= 60 and < 70% | LANDFIRE continuous EVC binned to Tree Cover >= 60 and < 70% |
| Tree Cover >= 70 and < 80% | LANDFIRE continuous EVC binned to Tree Cover >= 70 and < 80% |
| Tree Cover >= 80 and < 90% | LANDFIRE continuous EVC binned to Tree Cover >= 80 and < 90% |
| Tree Cover >= 90 and <= 100% | LANDFIRE continuous EVC binned to Tree Cover >= 90 and <= 100% |
| Shrub Cover >= 10 and < 20% | LANDFIRE continuous EVC binned to Shrub Cover >= 10 and < 20% |
| Shrub Cover >= 20 and < 30% | LANDFIRE continuous EVC binned to Shrub Cover >= 20 and < 30% |
| Shrub Cover >= 30 and < 40% | LANDFIRE continuous EVC binned to Shrub Cover >= 30 and < 40% |
| Shrub Cover >= 40 and < 50% | LANDFIRE continuous EVC binned to Shrub Cover >= 40 and < 50% |
| Shrub Cover >= 50 and < 60% | LANDFIRE continuous EVC binned to Shrub Cover >= 50 and < 60% |
| Shrub Cover >= 60 and < 70% | LANDFIRE continuous EVC binned to Shrub Cover >= 60 and < 70% |
| Shrub Cover >= 70 and < 80% | LANDFIRE continuous EVC binned to Shrub Cover >= 70 and < 80% |
| Shrub Cover >= 80 and < 90% | LANDFIRE continuous EVC binned to Shrub Cover >= 80 and < 90% |
| Shrub Cover >= 90 and <= 100% | LANDFIRE continuous EVC binned to Shrub Cover >= 90 and <= 100% |
| Herb Cover >= 10 and < 20% | LANDFIRE continuous EVC binned to Herb Cover >= 10 and < 20% |
| Herb Cover >= 20 and < 30% | LANDFIRE continuous EVC binned to Herb Cover >= 20 and < 30% |
| Herb Cover >= 30 and < 40% | LANDFIRE continuous EVC binned to Herb Cover >= 30 and < 40% |
| Herb Cover >= 40 and < 50% | LANDFIRE continuous EVC binned to Herb Cover >= 40 and < 50% |
| Herb Cover >= 50 and < 60% | LANDFIRE continuous EVC binned to Herb Cover >= 50 and < 60% |
| Herb Cover >= 60 and < 70% | LANDFIRE continuous EVC binned to Herb Cover >= 60 and < 70% |
| Herb Cover >= 70 and < 80% | LANDFIRE continuous EVC binned to Herb Cover >= 70 and < 80% |
| Herb Cover >= 80 and < 90% | LANDFIRE continuous EVC binned to Herb Cover >= 80 and < 90% |
| Herb Cover >= 90 and <= 100% | LANDFIRE continuous EVC binned to Herb Cover >= 90 and <= 100% |
| Sparse Vegetation Canopy | LANDFIRE continuous EVC < 10% |
| Tree Canopy >= 10 and < 25% | LANDFIRE continuous EVC binned to Tree Canopy >= 10 and < 25% |

| LANDFIRE Fuel Vegetation Cover Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Tree Canopy >= 25 and < 60% | LANDFIRE continuous EVC binned to Tree Canopy >= 25 and < 60% |
| Tree Canopy >= 60 and <= 100% | LANDFIRE continuous EVC binned to Tree Canopy >= 60 and <= 100% |
| Shrub Canopy >= 10 and < 25% | LANDFIRE continuous EVC binned to Shrub Canopy >= 10 and < 25% |
| Shrub Canopy >= 25 and < 60% | LANDFIRE continuous EVC binned to Shrub Canopy >= 25 and < 60% |
| Shrub Canopy >= 60 and <= 100% | LANDFIRE continuous EVC binned to Shrub Canopy >= 60 and <= 100% |
| Herb Canopy >= 10 and < 60% | LANDFIRE continuous EVC binned to Herb Canopy >= 10 and < 60% |
| Herb Canopy >= 60 and <= 100% | LANDFIRE continuous EVC binned to Herb Canopy >= 60 and <= 100% |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

5.3.11 Fuel Vegetation Height (FVH) LF 2020

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | 2 to 3-digit code representing the land cover type or depicts canopy height by life form. FVH product represents the average height of the dominant vegetation for a 30-m grid cell and is binned separately for each life form. |
| -9999 | Fill - NoData |
| 11 | Open Water |
| 12 | Snow/Ice |
| 13 | Developed-Upland Deciduous Forest |
| 14 | Developed-Upland Evergreen Forest |
| 15 | Developed-Upland Mixed Forest |
| 16 | Developed-Upland Herbaceous |
| 17 | Developed-Upland Shrubland |
| 18 | Developed-Herbaceous Wetland Vegetation |
| 19 | Developed-Woody Wetland Vegetation |
| 20 | Developed-General |
| 21 | Developed-Open |
| 22 | Developed - Low Intensity |
| 23 | Developed - Medium Intensity |
| 24 | Developed - High Intensity |
| 25 | Developed-Roads |
| 31 | Barren |
| 32 | Quarries-Strip Mines-Gravel Pits |
| 60 | Orchard |
| 61 | NASS-Vineyard |
| 62 | Bush fruit |
| 63 | NASS-Row Crop-Close Grown Crop |
| 64 | NASS-Row Crop |
| 65 | NASS-Close Grown Crop |
| 66 | Fallow/Idle |
| 68 | NASS-Wheat |
| 69 | NASS-Aquaculture |
| 75 | Herbaceous Semi-dry |
| 76 | Herbaceous Semi-wet |

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| 80 | Agriculture-General |
| 81 | Pasture/Hay |
| 82 | Cultivated Crops |
| 83 | Small Grains |
| 84 | Fallow Idle Crop |
| 95 | Herbaceous Wetlands |
| 100 | Sparse Vegetation Height |
| 425 | Herb Height 0 - <0.5 meters |
| 475 | Herb Height 0.5 - <1.0 meters |
| 499 | Herb Height ≥ 1.0 meter |
| 502 | Shrub Height 0 - <0.5 meters |
| 507 | Shrub Height 0.5 - <1.0 meter |
| 520 | Shrub Height 1.0 - <3.0 meters |
| 530 | Shrub Height ≥3.0 meters |
| 603 | Forest Height 1.8 - <5 meters |
| 607 | Forest Height 5 - <9 meters |
| 611 | Forest Height 9 - <13 meters |
| 615 | Forest Height 13 - <17 meters |
| 619 | Forest Height 17 - <21 meters |
| 623 | Forest Height 21 - <25 meters |
| 627 | Forest Height 25 - <29 meters |
| 631 | Forest Height 29 - <33 meters |
| 635 | Forest Height 33 - <37 meters |
| 639 | Forest Height 37 - <41 meters |
| 643 | Forest Height 41 - <45 meters |
| 647 | Forest Height 45 - ≤49 meters |
| 651 | Forest Height ≥50 meters |
| EVH | Existing Vegetation Height (EVH) value. |
| CLASSNAMES | Detail Attribute. FVH is EVH that has been binned to facilitate fuel rule assignment. |
| NoData | No data background value. |
| Open Water | LANDFIRE Mapped. |
| Snow/Ice | NLCD 2011 Snow/Ice. |
| Developed-Upland Deciduous Forest | LANDFIRE Mapped. |

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Developed-Upland Evergreen Forest | LANDFIRE Mapped. |
| Developed-Upland Mixed Forest | LANDFIRE Mapped. |
| Developed-Upland Herbaceous | LANDFIRE Mapped. |
| Developed-Upland Shrubland | LANDFIRE Mapped. |
| Developed-Herbaceous Wetland Vegetation | LANDFIRE Mapped. |
| Developed-Woody Wetland Vegetation | LANDFIRE Mapped. |
| Developed-General | LANDFIRE Mapped. |
| Developed-Open | LANDFIRE Mapped. |
| Developed - Low Intensity | LANDFIRE Mapped. |
| Developed - Medium Intensity | LANDFIRE Mapped. |
| Developed - High Intensity | LANDFIRE Mapped. |
| Developed-Roads | LANDFIRE Mapped. |
| Barren | LANDFIRE Mapped. |
| Quarries-Strip Mines-Gravel Pits | LANDFIRE Mapped using information from multiple sources. |
| Orchard | Agricultural mapping from NASS and local sources if available. |
| NASS-Vineyard | Agricultural mapping from NASS and local sources if available. |
| Bush fruit | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| Fallow/Idle | Agricultural mapping from NASS and local sources if available. |
| NASS-Wheat | Agricultural mapping from NASS and local sources if available. |
| NASS-Aquaculture | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Semi-dry | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Semi-wet | LANDFIRE Mapped. |
| Agriculture-General | LANDFIRE Mapped. |
| Pasture/Hay | LANDFIRE Mapped. |
| Cultivated Crops | Agricultural mapping from NASS and local sources if available. |

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| Small Grains | Agricultural mapping from NASS and local sources if available. |
| Fallow Idle Crop | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Wetlands | LANDFIRE Mapped. |
| Sparse Vegetation Height | Height class for sparse vegetation. |
| Herb Height 0 to 0.5 meters | LANDFIRE continuous EVH binned to Herb Height 0 to 0.5 meters. |
| Herb Height 0.5 to 1.0 meters | LANDFIRE continuous EVH binned to Herb Height 0.5 to 1.0 meters. |
| Herb Height > 1.0 meter | LANDFIRE continuous EVH binned to Herb Height > 1.0 meter. |
| Shrub Height 0 to 0.5 meters | LANDFIRE continuous EVH binned to Shrub Height 0 to 0.5 meters. |
| Shrub Height 0.5 to 1.0 meter | LANDFIRE continuous EVH binned to Shrub Height 0.5 to 1.0 meter. |
| Shrub Height 1.0 to 3.0 meters | LANDFIRE continuous EVH binned to Shrub Height 1.0 to 3.0 meters. |
| Shrub Height > 3.0 meters | LANDFIRE continuous EVH binned to Shrub Height > 3.0 meters. |
| Forest Height 1.8 to 5 meters | LANDFIRE continuous EVH binned to Forest Height 1.8 to 5 meters. |
| Forest Height 5 to 9 meters | LANDFIRE continuous EVH binned to Forest Height 5 to 9 meters. |
| Forest Height 9 to 13 meters | LANDFIRE continuous EVH binned to Forest Height 9 to 13 meters. |
| Forest Height 13 to 17 meters | LANDFIRE continuous EVH binned to Forest Height 13 to 17 meters. |
| Forest Height 17 to 21 meters | LANDFIRE continuous EVH binned to Forest Height 17 to 21 meters. |
| Forest Height 21 to 25 meters | LANDFIRE continuous EVH binned to Forest Height 21 to 25 meters. |
| Forest Height 25 to 29 meters | LANDFIRE continuous EVH binned to Forest Height 25 to 29 meters. |
| Forest Height 29 to 33 meters | LANDFIRE continuous EVH binned to Forest Height 29 to 33 meters. |
| Forest Height 33 to 37 meters | LANDFIRE continuous EVH binned to Forest Height 33 to 37 meters. |
| Forest Height 37 to 41 meters | LANDFIRE continuous EVH binned to Forest Height 37 to 41 meters. |
| Forest Height 41 to 45 meters | LANDFIRE continuous EVH binned to Forest Height 41 to 45 meters. |
| Forest Height 45 to 49 meters | LANDFIRE continuous EVH binned to Forest Height 45 to 49 meters. |
| Forest Height > 50 meters | LANDFIRE continuous EVH binned to Forest Height > 50 meters. |
| R | Red color value range /255 |

| LANDFIRE Fuel Vegetation Height Attribute Data Dictionary | |
|---|-------------------------------|
| Attribute | Description |
| G | Green color value range /255 |
| B | Blue color value range /255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

5.3.12 Fuel Vegetation Type (FVT) LF 2020

| LANDFIRE Fuel Vegetation Type Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | The LF assigned code identifying fuel vegetation and land cover types. |
| 11 to 4802 | Numerical code for FVT. |
| -9999 | Fill - NoData |
| Count | The number of pixels for the corresponding value |
| EVT_FUEL | The LF assigned code identifying fuel vegetation and land cover types. |
| EVT_FUEL_N | Fuels Vegetation Type (FVT) represents the name of the terrestrial ecological systems classification developed by NatureServe for the western Hemisphere and is an important input to LF fuel mapping. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

5.3.13 Roads LF 2020

| LANDFIRE Operational Roads Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| VALUE | LF 2020 CONUS Operational Roads includes all pixels from the four roads classes within the NLCD 2019 Developed Imperviousness Descriptor product for the Conterminous United States. The impervious descriptor layer categorizes developed pixels according to source and type. |
| -9999 | Fill - NoData |
| 0 | Background value. |
| 20 | Primary road. |
| 21 | Secondary road. |

| LANDFIRE Operational Roads Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| 22 | Tertiary road. |
| 23 | Thinned road. |
| 255 | NoData |
| Count | Number of pixels for the corresponding value. |
| Class_Name | |
| Background value | Background value. |
| Primary road | Interstates and other major roads. Pixels were derived from the 2018 NavStreets Street Data. |
| Secondary road | Non-interstate highways. Pixels were derived from the 2018 NavStreets Street Data. |
| Tertiary road | Any two-lane road. Pixels were derived from the 2018 NavStreets Street Data. |
| Thinned road | Small tertiary roads that generally are not paved and have been removed from the landcover but remain as part of the impervious surface product. Pixels were derived from the 2018 NavStreets Street Data. |
| R | Red color range/255 |
| G | Green color range/255 |
| B | Blue color range/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 – 1 |

5.4 Vegetation Products

5.4.1 Biophysical Settings (BPS) LF 2020

| LANDFIRE Biophysical Settings Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | LANDFIRE's (LF) Biophysical Settings (BPS) product represents the vegetation that may have been dominant on the landscape prior to Euro-American settlement. BPS is based on both the current biophysical environment and an approximation of the historical disturbance regime. Map units are based on NatureServe's Ecological Systems classification and represent the natural plant communities that may have been present during the reference period. |
| -1111 | Fill-Not Mapped |
| -9999 | Fill-NoData |
| 11 | Open Water |
| 12 | Perennial Ice/Snow |
| 31 | Barren-Rock/Sand/Clay |
| 381 to 2726 | The BPS value is a unique identifier for a unique combination of the BPS_Code and Zone. |
| BPS_CODE | |
| 10010 to 18280 | Map units are based on NatureServe's Ecological Systems classification and represent the natural plant communities that may have been present during the reference period |
| ZONE | |
| 1 to 99 | LANDFIRE Map zone |
| BPS_MODEL | The BPS_CODE followed by the BPS_ZONE |
| BPS_NAME | BPS name |
| GROUPVEG | Coarse categorization of BpS grouping |
| FRI_REPLAC | Fire Return Interval (FRI) replacement fire |
| FRI_MIXED | Fire Return Interval mixed fire |
| FRI_SURFAC | Fire Return Interval surface fire |
| FRI_ALLFIR | Fire Return Interval all fire. Quantifies the average period between fires under the presumed historical fire regime. Previously Mean Fire Return Interval (MFRI). |
| PRC_REPLAC | Percent replacement fire. Previously Percent of Replacement-severity Fire (PRS). Quantifies the amount of replacement-severity fires relative to low- and mixed-severity fires under the presumed historical fire regime. Replacement severity is defined as greater than 75 percent average top-kill within a typical fire perimeter for a given vegetation type. |

| LANDFIRE Biophysical Settings Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| PRC_MIXED | Percent mixed fire. Previously the Percent of Mixed-severity Fire (PMS). Quantifies the amount of mixed-severity fires relative to low- and replacement-severity fires under the presumed historical fire regime. Mixed severity is defined as between 25 and 75 percent average top-kill within a typical fire perimeter for a given vegetation type. |
| PRC_SURFAC | Percent of surface fire. Previously the Percent of Low-severity Fire (PLS). Quantifies the amount of low-severity fires relative to mixed- and replacement-severity fires under the presumed historical fire regime. Low severity is defined as less than 25 percent average top-kill within a typical fire perimeter for a given vegetation type. |
| FRG_NEW | Fire Regime Group. |
| I-A | Percent replacement fire less than 66.7%, fire return interval 0 to 5 years. |
| I-B | Percent replacement fire less than 66.7%, fire return interval 6 to 15 years. |
| I-C | Percent replacement fire less than 66.7%, fire return interval 16 to 35 years. |
| II-A | Percent replacement fire greater than 66.7%, fire return interval 0 to 5 years. |
| II-B | Percent replacement fire greater than 66.7%, fire return interval 6 to 15 years. |
| II-C | Percent replacement fire greater than 66.7%, fire return interval 16 to 35 years. |
| III-A | Percent replacement fire less than 80%, fire return interval 36 to 100 years. |
| III-B | Percent replacement fire less than 66.7%, fire return interval 101 to 200 years. |
| IV-A | Percent replacement fire greater than 80%, fire return interval 36 to 100 years. |
| IV-B | Percent replacement fire greater than 66.7%, fire return interval 101 to 200 years. |
| V-A | Any severity, fire return interval 201 to 500 years. |
| V-B | Any severity, fire return interval 501 or more years. |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |
| R | Red color value range /255 |
| G | Green color value range /255 |
| B | Blue color value range /255 |

5.4.2 Existing Vegetation Cover (EVC) LF 2020

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| VALUE | Existing vegetation cover (EVC) depicts percent canopy cover by life form. EVC has a potential range of 10 - 100 percent canopy cover. |
| -9999 | Fill - NoData |
| 11 | Open Water |
| 12 | Snow/Ice |
| 13 | Developed-Upland Deciduous Forest |
| 14 | Developed-Upland Evergreen Forest |
| 15 | Developed-Upland Mixed Forest |
| 16 | Developed-Upland Herbaceous |
| 17 | Developed-Upland Shrubland |
| 22 | Developed - Low Intensity |
| 23 | Developed - Medium Intensity |
| 24 | Developed - High Intensity |
| 25 | Developed-Roads |
| 31 | Barren |
| 32 | Quarries-Strip Mines-Gravel Pits-Well and Wind Pads |
| 61 | NASS-Vineyard |
| 63 | NASS-Row Crop-Close Grown Crop |
| 64 | NASS-Row Crop |
| 65 | NASS-Close Grown Crop |
| 68 | NASS-Wheat |
| 69 | NASS-Aquaculture |
| 100 | Sparse Vegetation Canopy |
| 110 | Tree Cover = 10% |
| 111 | Tree Cover = 11% |
| 112 | Tree Cover = 12% |
| 113 | Tree Cover = 13% |
| 114 | Tree Cover = 14% |
| 115 | Tree Cover = 15% |
| 116 | Tree Cover = 16% |
| 117 | Tree Cover = 17% |
| 118 | Tree Cover = 18% |
| 119 | Tree Cover = 19% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| 120 | Tree Cover = 20% |
| 121 | Tree Cover = 21% |
| 122 | Tree Cover = 22% |
| 123 | Tree Cover = 23% |
| 124 | Tree Cover = 24% |
| 125 | Tree Cover = 25% |
| 126 | Tree Cover = 26% |
| 127 | Tree Cover = 27% |
| 128 | Tree Cover = 28% |
| 129 | Tree Cover = 29% |
| 130 | Tree Cover = 30% |
| 131 | Tree Cover = 31% |
| 132 | Tree Cover = 32% |
| 133 | Tree Cover = 33% |
| 134 | Tree Cover = 34% |
| 135 | Tree Cover = 35% |
| 136 | Tree Cover = 36% |
| 137 | Tree Cover = 37% |
| 138 | Tree Cover = 38% |
| 139 | Tree Cover = 39% |
| 140 | Tree Cover = 40% |
| 141 | Tree Cover = 41% |
| 142 | Tree Cover = 42% |
| 143 | Tree Cover = 43% |
| 144 | Tree Cover = 44% |
| 145 | Tree Cover = 45% |
| 146 | Tree Cover = 46% |
| 147 | Tree Cover = 47% |
| 148 | Tree Cover = 48% |
| 149 | Tree Cover = 49% |
| 150 | Tree Cover = 50% |
| 151 | Tree Cover = 51% |
| 152 | Tree Cover = 52% |
| 153 | Tree Cover = 53% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| 154 | Tree Cover = 54% |
| 155 | Tree Cover = 55% |
| 156 | Tree Cover = 56% |
| 157 | Tree Cover = 57% |
| 158 | Tree Cover = 58% |
| 159 | Tree Cover = 59% |
| 160 | Tree Cover = 60% |
| 161 | Tree Cover = 61% |
| 162 | Tree Cover = 62% |
| 163 | Tree Cover = 63% |
| 164 | Tree Cover = 64% |
| 165 | Tree Cover = 65% |
| 166 | Tree Cover = 66% |
| 167 | Tree Cover = 67% |
| 168 | Tree Cover = 68% |
| 169 | Tree Cover = 69% |
| 170 | Tree Cover = 70% |
| 171 | Tree Cover = 71% |
| 172 | Tree Cover = 72% |
| 173 | Tree Cover = 73% |
| 174 | Tree Cover = 74% |
| 175 | Tree Cover = 75% |
| 176 | Tree Cover = 76% |
| 177 | Tree Cover = 77% |
| 178 | Tree Cover = 78% |
| 179 | Tree Cover = 79% |
| 180 | Tree Cover = 80% |
| 181 | Tree Cover = 81% |
| 182 | Tree Cover = 82% |
| 183 | Tree Cover = 83% |
| 184 | Tree Cover = 84% |
| 185 | Tree Cover = 85% |
| 186 | Tree Cover = 86% |
| 187 | Tree Cover = 87% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|-------------------|
| Attribute | Description |
| 188 | Tree Cover = 88% |
| 189 | Tree Cover = 89% |
| 190 | Tree Cover = 90% |
| 191 | Tree Cover = 91% |
| 192 | Tree Cover = 92% |
| 193 | Tree Cover = 93% |
| 194 | Tree Cover = 94% |
| 195 | Tree Cover = 95% |
| 196 | Tree Cover = 96% |
| 197 | Tree Cover = 97% |
| 198 | Tree Cover = 98% |
| 199 | Tree Cover >= 99% |
| 210 | Shrub Cover = 10% |
| 211 | Shrub Cover = 11% |
| 212 | Shrub Cover = 12% |
| 213 | Shrub Cover = 13% |
| 214 | Shrub Cover = 14% |
| 215 | Shrub Cover = 15% |
| 216 | Shrub Cover = 16% |
| 217 | Shrub Cover = 17% |
| 218 | Shrub Cover = 18% |
| 219 | Shrub Cover = 19% |
| 220 | Shrub Cover = 20% |
| 221 | Shrub Cover = 21% |
| 222 | Shrub Cover = 22% |
| 223 | Shrub Cover = 23% |
| 224 | Shrub Cover = 24% |
| 225 | Shrub Cover = 25% |
| 226 | Shrub Cover = 26% |
| 227 | Shrub Cover = 27% |
| 228 | Shrub Cover = 28% |
| 229 | Shrub Cover = 29% |
| 230 | Shrub Cover = 30% |
| 231 | Shrub Cover = 31% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|-------------------|
| Attribute | Description |
| 232 | Shrub Cover = 32% |
| 233 | Shrub Cover = 33% |
| 234 | Shrub Cover = 34% |
| 235 | Shrub Cover = 35% |
| 236 | Shrub Cover = 36% |
| 237 | Shrub Cover = 37% |
| 238 | Shrub Cover = 38% |
| 239 | Shrub Cover = 39% |
| 240 | Shrub Cover = 40% |
| 241 | Shrub Cover = 41% |
| 242 | Shrub Cover = 42% |
| 243 | Shrub Cover = 43% |
| 244 | Shrub Cover = 44% |
| 245 | Shrub Cover = 45% |
| 246 | Shrub Cover = 46% |
| 247 | Shrub Cover = 47% |
| 248 | Shrub Cover = 48% |
| 249 | Shrub Cover = 49% |
| 250 | Shrub Cover = 50% |
| 251 | Shrub Cover = 51% |
| 252 | Shrub Cover = 52% |
| 253 | Shrub Cover = 53% |
| 254 | Shrub Cover = 54% |
| 255 | Shrub Cover = 55% |
| 256 | Shrub Cover = 56% |
| 257 | Shrub Cover = 57% |
| 258 | Shrub Cover = 58% |
| 259 | Shrub Cover = 59% |
| 260 | Shrub Cover = 60% |
| 261 | Shrub Cover = 61% |
| 262 | Shrub Cover = 62% |
| 263 | Shrub Cover = 63% |
| 264 | Shrub Cover = 64% |
| 265 | Shrub Cover = 65% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|--------------------|
| Attribute | Description |
| 266 | Shrub Cover = 66% |
| 267 | Shrub Cover = 67% |
| 268 | Shrub Cover = 68% |
| 269 | Shrub Cover = 69% |
| 270 | Shrub Cover = 70% |
| 271 | Shrub Cover = 71% |
| 272 | Shrub Cover = 72% |
| 273 | Shrub Cover = 73% |
| 274 | Shrub Cover = 74% |
| 275 | Shrub Cover = 75% |
| 276 | Shrub Cover = 76% |
| 277 | Shrub Cover = 77% |
| 278 | Shrub Cover = 78% |
| 279 | Shrub Cover = 79% |
| 280 | Shrub Cover = 80% |
| 281 | Shrub Cover = 81% |
| 282 | Shrub Cover = 82% |
| 283 | Shrub Cover = 83% |
| 284 | Shrub Cover = 84% |
| 285 | Shrub Cover = 85% |
| 286 | Shrub Cover = 86% |
| 287 | Shrub Cover = 87% |
| 288 | Shrub Cover = 88% |
| 289 | Shrub Cover = 89% |
| 290 | Shrub Cover = 90% |
| 291 | Shrub Cover = 91% |
| 292 | Shrub Cover = 92% |
| 293 | Shrub Cover = 93% |
| 294 | Shrub Cover = 94% |
| 295 | Shrub Cover = 95% |
| 296 | Shrub Cover = 96% |
| 297 | Shrub Cover = 97% |
| 298 | Shrub Cover = 98% |
| 299 | Shrub Cover >= 99% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| 310 | Herb Cover = 10% |
| 311 | Herb Cover = 11% |
| 312 | Herb Cover = 12% |
| 313 | Herb Cover = 13% |
| 314 | Herb Cover = 14% |
| 315 | Herb Cover = 15% |
| 316 | Herb Cover = 16% |
| 317 | Herb Cover = 17% |
| 318 | Herb Cover = 18% |
| 319 | Herb Cover = 19% |
| 320 | Herb Cover = 20% |
| 321 | Herb Cover = 21% |
| 322 | Herb Cover = 22% |
| 323 | Herb Cover = 23% |
| 324 | Herb Cover = 24% |
| 325 | Herb Cover = 25% |
| 326 | Herb Cover = 26% |
| 327 | Herb Cover = 27% |
| 328 | Herb Cover = 28% |
| 329 | Herb Cover = 29% |
| 330 | Herb Cover = 30% |
| 331 | Herb Cover = 31% |
| 332 | Herb Cover = 32% |
| 333 | Herb Cover = 33% |
| 334 | Herb Cover = 34% |
| 335 | Herb Cover = 35% |
| 336 | Herb Cover = 36% |
| 337 | Herb Cover = 37% |
| 338 | Herb Cover = 38% |
| 339 | Herb Cover = 39% |
| 340 | Herb Cover = 40% |
| 341 | Herb Cover = 41% |
| 342 | Herb Cover = 42% |
| 343 | Herb Cover = 43% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| 344 | Herb Cover = 44% |
| 345 | Herb Cover = 45% |
| 346 | Herb Cover = 46% |
| 347 | Herb Cover = 47% |
| 348 | Herb Cover = 48% |
| 349 | Herb Cover = 49% |
| 350 | Herb Cover = 50% |
| 351 | Herb Cover = 51% |
| 352 | Herb Cover = 52% |
| 353 | Herb Cover = 53% |
| 354 | Herb Cover = 54% |
| 355 | Herb Cover = 55% |
| 356 | Herb Cover = 56% |
| 357 | Herb Cover = 57% |
| 358 | Herb Cover = 58% |
| 359 | Herb Cover = 59% |
| 360 | Herb Cover = 60% |
| 361 | Herb Cover = 61% |
| 362 | Herb Cover = 62% |
| 363 | Herb Cover = 63% |
| 364 | Herb Cover = 64% |
| 365 | Herb Cover = 65% |
| 366 | Herb Cover = 66% |
| 367 | Herb Cover = 67% |
| 368 | Herb Cover = 68% |
| 369 | Herb Cover = 69% |
| 370 | Herb Cover = 70% |
| 371 | Herb Cover = 71% |
| 372 | Herb Cover = 72% |
| 373 | Herb Cover = 73% |
| 374 | Herb Cover = 74% |
| 375 | Herb Cover = 75% |
| 376 | Herb Cover = 76% |
| 377 | Herb Cover = 77% |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|--|
| Attribute | Description |
| 378 | Herb Cover = 78% |
| 379 | Herb Cover = 79% |
| 380 | Herb Cover = 80% |
| 381 | Herb Cover = 81% |
| 382 | Herb Cover = 82% |
| 383 | Herb Cover = 83% |
| 384 | Herb Cover = 84% |
| 385 | Herb Cover = 85% |
| 386 | Herb Cover = 86% |
| 387 | Herb Cover = 87% |
| 388 | Herb Cover = 88% |
| 389 | Herb Cover = 89% |
| 390 | Herb Cover = 90% |
| 391 | Herb Cover = 91% |
| 392 | Herb Cover = 92% |
| 393 | Herb Cover = 93% |
| 394 | Herb Cover = 94% |
| 395 | Herb Cover = 95% |
| 396 | Herb Cover = 96% |
| 397 | Herb Cover = 97% |
| 398 | Herb Cover = 98% |
| 399 | Herb Cover >= 99% |
| Count | number of pixels for the corresponding value |
| CLASSNAMES | Display attribute. EVC has a potential range of 0 to 100 percent canopy cover. |
| NoData | No data background value. |
| Open Water | LANDFIRE Mapped. |
| Snow/Ice | NLCD 2011 Snow/Ice |
| Developed-Upland Deciduous Forest | LANDFIRE Mapped. |
| Developed-Upland Evergreen Forest | LANDFIRE Mapped. |
| Developed-Upland Mixed Forest | LANDFIRE Mapped. |
| Developed-Upland Herbaceous | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| Developed-Upland Shrubland | LANDFIRE Mapped. |
| Developed-Herbaceous Wetland Vegetation | LANDFIRE Mapped. |
| Developed-Woody Wetland Vegetation | LANDFIRE Mapped. |
| Developed - General | LANDFIRE Mapped. |
| Developed - Open Space | LANDFIRE Mapped. |
| Developed - Low Intensity | LANDFIRE Mapped. |
| Developed - Medium Intensity | LANDFIRE Mapped. |
| Developed - High Intensity | LANDFIRE Mapped. |
| Developed-Roads | LANDFIRE Mapped. |
| Barren | LANDFIRE Mapped. |
| Quarries-Strip Mines-Gravel Pits-Well and Wind Pads | LANDFIRE Mapped using information from multiple sources. |
| NASS-Orchard | Agricultural mapping from NASS and local sources if available. |
| NASS-Vineyard | Agricultural mapping from NASS and local sources if available. |
| NASS-Bush fruit and berries | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Row Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Close Grown Crop | Agricultural mapping from NASS and local sources if available. |
| NASS-Fallow/Idle Cropland | Agricultural mapping from NASS and local sources if available. |
| NASS-Pasture and Hayland | Agricultural mapping from NASS and local sources if available. |
| NASS-Wheat | Agricultural mapping from NASS and local sources if available. |
| NASS-Aquaculture | Agricultural mapping from NASS and local sources if available. |
| Herbaceous Semi-dry | LANDFIRE Mapped. |
| Herbaceous Semi-wet | LANDFIRE Mapped. |
| Recently Disturbed Forest | LANDFIRE Mapped. |
| Agriculture - General | Agricultural mapping from NASS and local sources if available. |
| Pasture/Hay | Agricultural mapping from NASS and local sources if available. |
| Cultivated Crops | Agricultural mapping from NASS and local sources if available. |
| Small Grains | Agricultural mapping from NASS and local sources if available. |
| Fallow | Agricultural mapping from NASS and local sources if available. |
| Urban-Recreational Grasses | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Herbaceous Wetlands | LANDFIRE Mapped. |
| Sparse Vegetation Canopy | LANDFIRE Mapped. |
| Tree Cover = 10% | LANDFIRE Mapped. |
| Tree Cover = 11% | LANDFIRE Mapped. |
| Tree Cover = 12% | LANDFIRE Mapped. |
| Tree Cover = 13% | LANDFIRE Mapped. |
| Tree Cover = 14% | LANDFIRE Mapped. |
| Tree Cover = 15% | LANDFIRE Mapped. |
| Tree Cover = 16% | LANDFIRE Mapped. |
| Tree Cover = 17% | LANDFIRE Mapped. |
| Tree Cover = 18% | LANDFIRE Mapped. |
| Tree Cover = 19% | LANDFIRE Mapped. |
| Tree Cover = 20% | LANDFIRE Mapped. |
| Tree Cover = 21% | LANDFIRE Mapped. |
| Tree Cover = 22% | LANDFIRE Mapped. |
| Tree Cover = 23% | LANDFIRE Mapped. |
| Tree Cover = 24% | LANDFIRE Mapped. |
| Tree Cover = 25% | LANDFIRE Mapped. |
| Tree Cover = 26% | LANDFIRE Mapped. |
| Tree Cover = 27% | LANDFIRE Mapped. |
| Tree Cover = 28% | LANDFIRE Mapped. |
| Tree Cover = 29% | LANDFIRE Mapped. |
| Tree Cover = 30% | LANDFIRE Mapped. |
| Tree Cover = 31% | LANDFIRE Mapped. |
| Tree Cover = 32% | LANDFIRE Mapped. |
| Tree Cover = 33% | LANDFIRE Mapped. |
| Tree Cover = 34% | LANDFIRE Mapped. |
| Tree Cover = 35% | LANDFIRE Mapped. |
| Tree Cover = 36% | LANDFIRE Mapped. |
| Tree Cover = 37% | LANDFIRE Mapped. |
| Tree Cover = 38% | LANDFIRE Mapped. |
| Tree Cover = 39% | LANDFIRE Mapped. |
| Tree Cover = 40% | LANDFIRE Mapped. |
| Tree Cover = 41% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Tree Cover = 42% | LANDFIRE Mapped. |
| Tree Cover = 43% | LANDFIRE Mapped. |
| Tree Cover = 44% | LANDFIRE Mapped. |
| Tree Cover = 45% | LANDFIRE Mapped. |
| Tree Cover = 46% | LANDFIRE Mapped. |
| Tree Cover = 47% | LANDFIRE Mapped. |
| Tree Cover = 48% | LANDFIRE Mapped. |
| Tree Cover = 49% | LANDFIRE Mapped. |
| Tree Cover = 50% | LANDFIRE Mapped. |
| Tree Cover = 51% | LANDFIRE Mapped. |
| Tree Cover = 52% | LANDFIRE Mapped. |
| Tree Cover = 53% | LANDFIRE Mapped. |
| Tree Cover = 54% | LANDFIRE Mapped. |
| Tree Cover = 55% | LANDFIRE Mapped. |
| Tree Cover = 56% | LANDFIRE Mapped. |
| Tree Cover = 57% | LANDFIRE Mapped. |
| Tree Cover = 58% | LANDFIRE Mapped. |
| Tree Cover = 59% | LANDFIRE Mapped. |
| Tree Cover = 60% | LANDFIRE Mapped. |
| Tree Cover = 61% | LANDFIRE Mapped. |
| Tree Cover = 62% | LANDFIRE Mapped. |
| Tree Cover = 63% | LANDFIRE Mapped. |
| Tree Cover = 64% | LANDFIRE Mapped. |
| Tree Cover = 65% | LANDFIRE Mapped. |
| Tree Cover = 66% | LANDFIRE Mapped. |
| Tree Cover = 67% | LANDFIRE Mapped. |
| Tree Cover = 68% | LANDFIRE Mapped. |
| Tree Cover = 69% | LANDFIRE Mapped. |
| Tree Cover = 70% | LANDFIRE Mapped. |
| Tree Cover = 71% | LANDFIRE Mapped. |
| Tree Cover = 72% | LANDFIRE Mapped. |
| Tree Cover = 73% | LANDFIRE Mapped. |
| Tree Cover = 74% | LANDFIRE Mapped. |
| Tree Cover = 75% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Tree Cover = 76% | LANDFIRE Mapped. |
| Tree Cover = 77% | LANDFIRE Mapped. |
| Tree Cover = 78% | LANDFIRE Mapped. |
| Tree Cover = 79% | LANDFIRE Mapped. |
| Tree Cover = 80% | LANDFIRE Mapped. |
| Tree Cover = 81% | LANDFIRE Mapped. |
| Tree Cover = 82% | LANDFIRE Mapped. |
| Tree Cover = 83% | LANDFIRE Mapped. |
| Tree Cover = 84% | LANDFIRE Mapped. |
| Tree Cover = 85% | LANDFIRE Mapped. |
| Tree Cover = 86% | LANDFIRE Mapped. |
| Tree Cover = 87% | LANDFIRE Mapped. |
| Tree Cover = 88% | LANDFIRE Mapped. |
| Tree Cover = 89% | LANDFIRE Mapped. |
| Tree Cover = 90% | LANDFIRE Mapped. |
| Tree Cover = 91% | LANDFIRE Mapped. |
| Tree Cover = 92% | LANDFIRE Mapped. |
| Tree Cover = 93% | LANDFIRE Mapped. |
| Tree Cover = 94% | LANDFIRE Mapped. |
| Tree Cover = 95% | LANDFIRE Mapped. |
| Tree Cover = 96% | LANDFIRE Mapped. |
| Tree Cover = 97% | LANDFIRE Mapped. |
| Tree Cover = 98% | LANDFIRE Mapped. |
| Tree Cover >= 99% | LANDFIRE Mapped. |
| Shrub Cover = 10% | LANDFIRE Mapped. |
| Shrub Cover = 11% | LANDFIRE Mapped. |
| Shrub Cover = 12% | LANDFIRE Mapped. |
| Shrub Cover = 13% | LANDFIRE Mapped. |
| Shrub Cover = 14% | LANDFIRE Mapped. |
| Shrub Cover = 15% | LANDFIRE Mapped. |
| Shrub Cover = 16% | LANDFIRE Mapped. |
| Shrub Cover = 17% | LANDFIRE Mapped. |
| Shrub Cover = 18% | LANDFIRE Mapped. |
| Shrub Cover = 19% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Shrub Cover = 20% | LANDFIRE Mapped. |
| Shrub Cover = 21% | LANDFIRE Mapped. |
| Shrub Cover = 22% | LANDFIRE Mapped. |
| Shrub Cover = 23% | LANDFIRE Mapped. |
| Shrub Cover = 24% | LANDFIRE Mapped. |
| Shrub Cover = 25% | LANDFIRE Mapped. |
| Shrub Cover = 26% | LANDFIRE Mapped. |
| Shrub Cover = 27% | LANDFIRE Mapped. |
| Shrub Cover = 28% | LANDFIRE Mapped. |
| Shrub Cover = 29% | LANDFIRE Mapped. |
| Shrub Cover = 30% | LANDFIRE Mapped. |
| Shrub Cover = 31% | LANDFIRE Mapped. |
| Shrub Cover = 32% | LANDFIRE Mapped. |
| Shrub Cover = 33% | LANDFIRE Mapped. |
| Shrub Cover = 34% | LANDFIRE Mapped. |
| Shrub Cover = 35% | LANDFIRE Mapped. |
| Shrub Cover = 36% | LANDFIRE Mapped. |
| Shrub Cover = 37% | LANDFIRE Mapped. |
| Shrub Cover = 38% | LANDFIRE Mapped. |
| Shrub Cover = 39% | LANDFIRE Mapped. |
| Shrub Cover = 40% | LANDFIRE Mapped. |
| Shrub Cover = 41% | LANDFIRE Mapped. |
| Shrub Cover = 42% | LANDFIRE Mapped. |
| Shrub Cover = 43% | LANDFIRE Mapped. |
| Shrub Cover = 44% | LANDFIRE Mapped. |
| Shrub Cover = 45% | LANDFIRE Mapped. |
| Shrub Cover = 46% | LANDFIRE Mapped. |
| Shrub Cover = 47% | LANDFIRE Mapped. |
| Shrub Cover = 48% | LANDFIRE Mapped. |
| Shrub Cover = 49% | LANDFIRE Mapped. |
| Shrub Cover = 50% | LANDFIRE Mapped. |
| Shrub Cover = 51% | LANDFIRE Mapped. |
| Shrub Cover = 52% | LANDFIRE Mapped. |
| Shrub Cover = 53% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Shrub Cover = 54% | LANDFIRE Mapped. |
| Shrub Cover = 55% | LANDFIRE Mapped. |
| Shrub Cover = 56% | LANDFIRE Mapped. |
| Shrub Cover = 57% | LANDFIRE Mapped. |
| Shrub Cover = 58% | LANDFIRE Mapped. |
| Shrub Cover = 59% | LANDFIRE Mapped. |
| Shrub Cover = 60% | LANDFIRE Mapped. |
| Shrub Cover = 61% | LANDFIRE Mapped. |
| Shrub Cover = 62% | LANDFIRE Mapped. |
| Shrub Cover = 63% | LANDFIRE Mapped. |
| Shrub Cover = 64% | LANDFIRE Mapped. |
| Shrub Cover = 65% | LANDFIRE Mapped. |
| Shrub Cover = 66% | LANDFIRE Mapped. |
| Shrub Cover = 67% | LANDFIRE Mapped. |
| Shrub Cover = 68% | LANDFIRE Mapped. |
| Shrub Cover = 69% | LANDFIRE Mapped. |
| Shrub Cover = 70% | LANDFIRE Mapped. |
| Shrub Cover = 71% | LANDFIRE Mapped. |
| Shrub Cover = 72% | LANDFIRE Mapped. |
| Shrub Cover = 73% | LANDFIRE Mapped. |
| Shrub Cover = 74% | LANDFIRE Mapped. |
| Shrub Cover = 75% | LANDFIRE Mapped. |
| Shrub Cover = 76% | LANDFIRE Mapped. |
| Shrub Cover = 77% | LANDFIRE Mapped. |
| Shrub Cover = 78% | LANDFIRE Mapped. |
| Shrub Cover = 79% | LANDFIRE Mapped. |
| Shrub Cover = 80% | LANDFIRE Mapped. |
| Shrub Cover = 81% | LANDFIRE Mapped. |
| Shrub Cover = 82% | LANDFIRE Mapped. |
| Shrub Cover = 83% | LANDFIRE Mapped. |
| Shrub Cover = 84% | LANDFIRE Mapped. |
| Shrub Cover = 85% | LANDFIRE Mapped. |
| Shrub Cover = 86% | LANDFIRE Mapped. |
| Shrub Cover = 87% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Shrub Cover = 88% | LANDFIRE Mapped. |
| Shrub Cover = 89% | LANDFIRE Mapped. |
| Shrub Cover = 90% | LANDFIRE Mapped. |
| Shrub Cover = 91% | LANDFIRE Mapped. |
| Shrub Cover = 92% | LANDFIRE Mapped. |
| Shrub Cover = 93% | LANDFIRE Mapped. |
| Shrub Cover = 94% | LANDFIRE Mapped. |
| Shrub Cover = 95% | LANDFIRE Mapped. |
| Shrub Cover = 96% | LANDFIRE Mapped. |
| Shrub Cover = 97% | LANDFIRE Mapped. |
| Shrub Cover = 98% | LANDFIRE Mapped. |
| Shrub Cover >= 99% | LANDFIRE Mapped. |
| Herb Cover = 10% | LANDFIRE Mapped. |
| Herb Cover = 11% | LANDFIRE Mapped. |
| Herb Cover = 12% | LANDFIRE Mapped. |
| Herb Cover = 13% | LANDFIRE Mapped. |
| Herb Cover = 14% | LANDFIRE Mapped. |
| Herb Cover = 15% | LANDFIRE Mapped. |
| Herb Cover = 16% | LANDFIRE Mapped. |
| Herb Cover = 17% | LANDFIRE Mapped. |
| Herb Cover = 18% | LANDFIRE Mapped. |
| Herb Cover = 19% | LANDFIRE Mapped. |
| Herb Cover = 20% | LANDFIRE Mapped. |
| Herb Cover = 21% | LANDFIRE Mapped. |
| Herb Cover = 22% | LANDFIRE Mapped. |
| Herb Cover = 23% | LANDFIRE Mapped. |
| Herb Cover = 24% | LANDFIRE Mapped. |
| Herb Cover = 25% | LANDFIRE Mapped. |
| Herb Cover = 26% | LANDFIRE Mapped. |
| Herb Cover = 27% | LANDFIRE Mapped. |
| Herb Cover = 28% | LANDFIRE Mapped. |
| Herb Cover = 29% | LANDFIRE Mapped. |
| Herb Cover = 30% | LANDFIRE Mapped. |
| Herb Cover = 31% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Herb Cover = 32% | LANDFIRE Mapped. |
| Herb Cover = 33% | LANDFIRE Mapped. |
| Herb Cover = 34% | LANDFIRE Mapped. |
| Herb Cover = 35% | LANDFIRE Mapped. |
| Herb Cover = 36% | LANDFIRE Mapped. |
| Herb Cover = 37% | LANDFIRE Mapped. |
| Herb Cover = 38% | LANDFIRE Mapped. |
| Herb Cover = 39% | LANDFIRE Mapped. |
| Herb Cover = 40% | LANDFIRE Mapped. |
| Herb Cover = 41% | LANDFIRE Mapped. |
| Herb Cover = 42% | LANDFIRE Mapped. |
| Herb Cover = 43% | LANDFIRE Mapped. |
| Herb Cover = 44% | LANDFIRE Mapped. |
| Herb Cover = 45% | LANDFIRE Mapped. |
| Herb Cover = 46% | LANDFIRE Mapped. |
| Herb Cover = 47% | LANDFIRE Mapped. |
| Herb Cover = 48% | LANDFIRE Mapped. |
| Herb Cover = 49% | LANDFIRE Mapped. |
| Herb Cover = 50% | LANDFIRE Mapped. |
| Herb Cover = 51% | LANDFIRE Mapped. |
| Herb Cover = 52% | LANDFIRE Mapped. |
| Herb Cover = 53% | LANDFIRE Mapped. |
| Herb Cover = 54% | LANDFIRE Mapped. |
| Herb Cover = 55% | LANDFIRE Mapped. |
| Herb Cover = 56% | LANDFIRE Mapped. |
| Herb Cover = 57% | LANDFIRE Mapped. |
| Herb Cover = 58% | LANDFIRE Mapped. |
| Herb Cover = 59% | LANDFIRE Mapped. |
| Herb Cover = 60% | LANDFIRE Mapped. |
| Herb Cover = 61% | LANDFIRE Mapped. |
| Herb Cover = 62% | LANDFIRE Mapped. |
| Herb Cover = 63% | LANDFIRE Mapped. |
| Herb Cover = 64% | LANDFIRE Mapped. |
| Herb Cover = 65% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|------------------|
| Attribute | Description |
| Herb Cover = 66% | LANDFIRE Mapped. |
| Herb Cover = 67% | LANDFIRE Mapped. |
| Herb Cover = 68% | LANDFIRE Mapped. |
| Herb Cover = 69% | LANDFIRE Mapped. |
| Herb Cover = 70% | LANDFIRE Mapped. |
| Herb Cover = 71% | LANDFIRE Mapped. |
| Herb Cover = 72% | LANDFIRE Mapped. |
| Herb Cover = 73% | LANDFIRE Mapped. |
| Herb Cover = 74% | LANDFIRE Mapped. |
| Herb Cover = 75% | LANDFIRE Mapped. |
| Herb Cover = 76% | LANDFIRE Mapped. |
| Herb Cover = 77% | LANDFIRE Mapped. |
| Herb Cover = 78% | LANDFIRE Mapped. |
| Herb Cover = 79% | LANDFIRE Mapped. |
| Herb Cover = 80% | LANDFIRE Mapped. |
| Herb Cover = 81% | LANDFIRE Mapped. |
| Herb Cover = 82% | LANDFIRE Mapped. |
| Herb Cover = 83% | LANDFIRE Mapped. |
| Herb Cover = 84% | LANDFIRE Mapped. |
| Herb Cover = 85% | LANDFIRE Mapped. |
| Herb Cover = 86% | LANDFIRE Mapped. |
| Herb Cover = 87% | LANDFIRE Mapped. |
| Herb Cover = 88% | LANDFIRE Mapped. |
| Herb Cover = 89% | LANDFIRE Mapped. |
| Herb Cover = 90% | LANDFIRE Mapped. |
| Herb Cover = 91% | LANDFIRE Mapped. |
| Herb Cover = 92% | LANDFIRE Mapped. |
| Herb Cover = 93% | LANDFIRE Mapped. |
| Herb Cover = 94% | LANDFIRE Mapped. |
| Herb Cover = 95% | LANDFIRE Mapped. |
| Herb Cover = 96% | LANDFIRE Mapped. |
| Herb Cover = 97% | LANDFIRE Mapped. |
| Herb Cover = 98% | LANDFIRE Mapped. |
| Herb Cover >= 99% | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Cover Attribute Data Dictionary | |
|--|-------------------------------|
| Attribute | Description |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| Red | Red color value range 0 - 1 |
| Green | Green color value range 0 - 1 |
| Blue | Blue color value range 0 - 1 |

5.4.3 Existing Vegetation Height (EVH) LF 2020

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| VALUE | Existing Vegetation Height (EVH) product represents the average height of the dominant vegetation for a 30-m grid cell and is binned separately for each life form. |
| -9999 | Fill - NoData |
| 11 | Open Water |
| 12 | Snow/Ice |
| 13 | Developed-Upland Deciduous Forest |
| 14 | Developed-Upland Evergreen Forest |
| 15 | Developed-Upland Mixed Forest |
| 16 | Developed-Upland Herbaceous |
| 17 | Developed-Upland Shrubland |
| 22 | Developed - Low Intensity |
| 23 | Developed - Medium Intensity |
| 24 | Developed - High Intensity |
| 25 | Developed-Roads |
| 31 | Barren |
| 32 | Quarries-Strip Mines-Gravel Pits-Well and Wind Pads |
| 61 | NASS-Vineyard |
| 63 | NASS-Row Crop-Close Grown Crop |
| 64 | NASS-Row Crop |
| 65 | NASS-Close Grown Crop |
| 68 | NASS-Wheat |
| 69 | NASS-Aquaculture |
| 100 | Sparse Vegetation Canopy |
| 101 | Tree Height = 1 meter |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|-------------------------|
| Attribute | Description |
| 102 | Tree Height = 2 meters |
| 103 | Tree Height = 3 meters |
| 104 | Tree Height = 4 meters |
| 105 | Tree Height = 5 meters |
| 106 | Tree Height = 6 meters |
| 107 | Tree Height = 7 meters |
| 108 | Tree Height = 8 meters |
| 109 | Tree Height = 9 meters |
| 110 | Tree Height = 10 meters |
| 111 | Tree Height = 11 meters |
| 112 | Tree Height = 12 meters |
| 113 | Tree Height = 13 meters |
| 114 | Tree Height = 14 meters |
| 115 | Tree Height = 15 meters |
| 116 | Tree Height = 16 meters |
| 117 | Tree Height = 17 meters |
| 118 | Tree Height = 18 meters |
| 119 | Tree Height = 19 meters |
| 120 | Tree Height = 20 meters |
| 121 | Tree Height = 21 meters |
| 122 | Tree Height = 22 meters |
| 123 | Tree Height = 23 meters |
| 124 | Tree Height = 24 meters |
| 125 | Tree Height = 25 meters |
| 126 | Tree Height = 26 meters |
| 127 | Tree Height = 27 meters |
| 128 | Tree Height = 28 meters |
| 129 | Tree Height = 29 meters |
| 130 | Tree Height = 30 meters |
| 131 | Tree Height = 31 meters |
| 132 | Tree Height = 32 meters |
| 133 | Tree Height = 33 meters |
| 134 | Tree Height = 34 meters |
| 135 | Tree Height = 35 meters |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|-------------------------|
| Attribute | Description |
| 136 | Tree Height = 36 meters |
| 137 | Tree Height = 37 meters |
| 138 | Tree Height = 38 meters |
| 139 | Tree Height = 39 meters |
| 140 | Tree Height = 40 meters |
| 141 | Tree Height = 41 meters |
| 142 | Tree Height = 42 meters |
| 143 | Tree Height = 43 meters |
| 144 | Tree Height = 44 meters |
| 145 | Tree Height = 45 meters |
| 146 | Tree Height = 46 meters |
| 147 | Tree Height = 47 meters |
| 148 | Tree Height = 48 meters |
| 149 | Tree Height = 49 meters |
| 150 | Tree Height = 50 meters |
| 151 | Tree Height = 51 meters |
| 152 | Tree Height = 52 meters |
| 153 | Tree Height = 53 meters |
| 154 | Tree Height = 54 meters |
| 155 | Tree Height = 55 meters |
| 156 | Tree Height = 56 meters |
| 157 | Tree Height = 57 meters |
| 158 | Tree Height = 58 meters |
| 159 | Tree Height = 59 meters |
| 160 | Tree Height = 60 meters |
| 161 | Tree Height = 61 meters |
| 162 | Tree Height = 62 meters |
| 163 | Tree Height = 63 meters |
| 164 | Tree Height = 64 meters |
| 165 | Tree Height = 65 meters |
| 166 | Tree Height = 66 meters |
| 167 | Tree Height = 67 meters |
| 168 | Tree Height = 68 meters |
| 169 | Tree Height = 69 meters |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|--------------------------|
| Attribute | Description |
| 170 | Tree Height = 70 meters |
| 171 | Tree Height = 71 meters |
| 172 | Tree Height = 72 meters |
| 173 | Tree Height = 73 meters |
| 174 | Tree Height = 74 meters |
| 175 | Tree Height = 75 meters |
| 176 | Tree Height = 76 meters |
| 177 | Tree Height = 77 meters |
| 178 | Tree Height = 78 meters |
| 179 | Tree Height = 79 meters |
| 180 | Tree Height = 80 meters |
| 181 | Tree Height = 81 meters |
| 182 | Tree Height = 82 meters |
| 183 | Tree Height = 83 meters |
| 184 | Tree Height = 84 meters |
| 185 | Tree Height = 85 meters |
| 186 | Tree Height = 86 meters |
| 187 | Tree Height = 87 meters |
| 188 | Tree Height = 88 meters |
| 189 | Tree Height = 89 meters |
| 190 | Tree Height = 90 meters |
| 191 | Tree Height = 91 meters |
| 192 | Tree Height = 92 meters |
| 193 | Tree Height = 93 meters |
| 194 | Tree Height = 94 meters |
| 195 | Tree Height = 95 meters |
| 196 | Tree Height = 96 meters |
| 197 | Tree Height = 97 meters |
| 198 | Tree Height = 98 meters |
| 199 | Tree Height >= 99 meters |
| 201 | Shrub Height = 0.1 meter |
| 202 | Shrub Height = 0.2 meter |
| 203 | Shrub Height = 0.3 meter |
| 204 | Shrub Height = 0.4 meter |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|----------------------------|
| Attribute | Description |
| 205 | Shrub Height = 0.5 meter |
| 206 | Shrub Height = 0.6 meter |
| 207 | Shrub Height = 0.7 meter |
| 208 | Shrub Height = 0.8 meter |
| 209 | Shrub Height = 0.9 meter |
| 210 | Shrub Height = 1 meter |
| 211 | Shrub Height = 1.1 meters |
| 212 | Shrub Height = 1.2 meters |
| 213 | Shrub Height = 1.3 meters |
| 214 | Shrub Height = 1.4 meters |
| 215 | Shrub Height = 1.5 meters |
| 216 | Shrub Height = 1.6 meters |
| 217 | Shrub Height = 1.7 meters |
| 218 | Shrub Height = 1.8 meters |
| 219 | Shrub Height = 1.9 meters |
| 220 | Shrub Height = 2.0 meters |
| 221 | Shrub Height = 2.1 meters |
| 222 | Shrub Height = 2.2 meters |
| 223 | Shrub Height = 2.3 meters |
| 224 | Shrub Height = 2.4 meters |
| 225 | Shrub Height = 2.5 meters |
| 226 | Shrub Height = 2.6 meters |
| 227 | Shrub Height = 2.7 meters |
| 228 | Shrub Height = 2.8 meters |
| 229 | Shrub Height = 2.9 meters |
| 230 | Shrub Height >= 3.0 meters |
| 301 | Herb Height = 0.1 meter |
| 302 | Herb Height = 0.2 meter |
| 303 | Herb Height = 0.3 meter |
| 304 | Herb Height = 0.4 meter |
| 305 | Herb Height = 0.5 meter |
| 306 | Herb Height = 0.6 meter |
| 307 | Herb Height = 0.7 meter |
| 308 | Herb Height = 0.8 meter |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|---|
| Attribute | Description |
| 309 | Herb Height = 0.9 meter |
| 310 | Herb Height >= 1 meter |
| Count | number of pixels for the corresponding value |
| CLASSNAMES | Display attribute, EVH is represented in meters and life forms are binned separately. |
| NoData | NoData |
| Open Water | Open Water |
| Snow/Ice | Snow/Ice |
| Developed-Upland Deciduous Forest | Developed-Upland Deciduous Forest |
| Developed-Upland Evergreen Forest | Developed-Upland Evergreen Forest |
| Developed-Upland Mixed Forest | Developed-Upland Mixed Forest |
| Developed-Upland Herbaceous | Developed-Upland Herbaceous |
| Developed-Upland Shrubland | Developed-Upland Shrubland |
| Developed-Herbaceous Wetland Vegetation | Developed-Herbaceous Wetland Vegetation |
| Developed-Woody Wetland Vegetation | Developed-Woody Wetland Vegetation |
| Developed - General | Developed - General |
| Developed - Open Space | Developed - Open Space |
| Developed - Low Intensity | Developed - Low Intensity |
| Developed - Medium Intensity | Developed - Medium Intensity |
| Developed - High Intensity | Developed - High Intensity |
| Developed-Roads | Developed-Roads |
| Barren | Barren |
| Quarries-Strip Mines-Gravel Pits-Well and Wind Pads | Quarries-Strip Mines-Gravel Pits-Well and Wind Pads |
| NASS-Orchard | NASS-Orchard |
| NASS-Vineyard | NASS-Vineyard |
| NASS-Bush fruit and berries | NASS-Bush fruit and berries |
| NASS-Row Crop-Close Grown Crop | NASS-Row Crop-Close Grown Crop |
| NASS-Row Crop | NASS-Row Crop |
| NASS-Close Grown Crop | NASS-Close Grown Crop |
| NASS-Fallow/Idle Cropland | NASS-Fallow/Idle Cropland |
| NASS-Pasture and Hayland | NASS-Pasture and Hayland |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|----------------------------|
| Attribute | Description |
| NASS-Wheat | NASS-Wheat |
| NASS-Aquaculture | NASS-Aquaculture |
| Herbaceous Semi-dry | Herbaceous Semi-dry |
| Herbaceous Semi-wet | Herbaceous Semi-wet |
| Recently Disturbed Forest | Recently Disturbed Forest |
| Agriculture - General | Agriculture - General |
| Pasture/Hay | Pasture/Hay |
| Cultivated Crops | Cultivated Crops |
| Small Grains | Small Grains |
| Fallow | Fallow |
| Urban-Recreational Grasses | Urban-Recreational Grasses |
| Herbaceous Wetlands | Herbaceous Wetlands |
| Sparse Vegetation Canopy | Sparse Vegetation Canopy |
| Tree Height = 1 meter | LANDFIRE Mapped. |
| Tree Height = 2 meters | LANDFIRE Mapped. |
| Tree Height = 3 meters | LANDFIRE Mapped. |
| Tree Height = 4 meters | LANDFIRE Mapped. |
| Tree Height = 5 meters | LANDFIRE Mapped. |
| Tree Height = 6 meters | LANDFIRE Mapped. |
| Tree Height = 7 meters | LANDFIRE Mapped. |
| Tree Height = 8 meters | LANDFIRE Mapped. |
| Tree Height = 9 meters | LANDFIRE Mapped. |
| Tree Height = 10 meters | LANDFIRE Mapped. |
| Tree Height = 11 meters | LANDFIRE Mapped. |
| Tree Height = 12 meters | LANDFIRE Mapped. |
| Tree Height = 13 meters | LANDFIRE Mapped. |
| Tree Height = 14 meters | LANDFIRE Mapped. |
| Tree Height = 15 meters | LANDFIRE Mapped. |
| Tree Height = 16 meters | LANDFIRE Mapped. |
| Tree Height = 17 meters | LANDFIRE Mapped. |
| Tree Height = 18 meters | LANDFIRE Mapped. |
| Tree Height = 19 meters | LANDFIRE Mapped. |
| Tree Height = 20 meters | LANDFIRE Mapped. |
| Tree Height = 21 meters | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|------------------|
| Attribute | Description |
| Tree Height = 22 meters | LANDFIRE Mapped. |
| Tree Height = 23 meters | LANDFIRE Mapped. |
| Tree Height = 24 meters | LANDFIRE Mapped. |
| Tree Height = 25 meters | LANDFIRE Mapped. |
| Tree Height = 26 meters | LANDFIRE Mapped. |
| Tree Height = 27 meters | LANDFIRE Mapped. |
| Tree Height = 28 meters | LANDFIRE Mapped. |
| Tree Height = 29 meters | LANDFIRE Mapped. |
| Tree Height = 30 meters | LANDFIRE Mapped. |
| Tree Height = 31 meters | LANDFIRE Mapped. |
| Tree Height = 32 meters | LANDFIRE Mapped. |
| Tree Height = 33 meters | LANDFIRE Mapped. |
| Tree Height = 34 meters | LANDFIRE Mapped. |
| Tree Height = 35 meters | LANDFIRE Mapped. |
| Tree Height = 36 meters | LANDFIRE Mapped. |
| Tree Height = 37 meters | LANDFIRE Mapped. |
| Tree Height = 38 meters | LANDFIRE Mapped. |
| Tree Height = 39 meters | LANDFIRE Mapped. |
| Tree Height = 40 meters | LANDFIRE Mapped. |
| Tree Height = 41 meters | LANDFIRE Mapped. |
| Tree Height = 42 meters | LANDFIRE Mapped. |
| Tree Height = 43 meters | LANDFIRE Mapped. |
| Tree Height = 44 meters | LANDFIRE Mapped. |
| Tree Height = 45 meters | LANDFIRE Mapped. |
| Tree Height = 46 meters | LANDFIRE Mapped. |
| Tree Height = 47 meters | LANDFIRE Mapped. |
| Tree Height = 48 meters | LANDFIRE Mapped. |
| Tree Height = 49 meters | LANDFIRE Mapped. |
| Tree Height = 50 meters | LANDFIRE Mapped. |
| Tree Height = 51 meters | LANDFIRE Mapped. |
| Tree Height = 52 meters | LANDFIRE Mapped. |
| Tree Height = 53 meters | LANDFIRE Mapped. |
| Tree Height = 54 meters | LANDFIRE Mapped. |
| Tree Height = 55 meters | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|------------------|
| Attribute | Description |
| Tree Height = 56 meters | LANDFIRE Mapped. |
| Tree Height = 57 meters | LANDFIRE Mapped. |
| Tree Height = 58 meters | LANDFIRE Mapped. |
| Tree Height = 59 meters | LANDFIRE Mapped. |
| Tree Height = 60 meters | LANDFIRE Mapped. |
| Tree Height = 61 meters | LANDFIRE Mapped. |
| Tree Height = 62 meters | LANDFIRE Mapped. |
| Tree Height = 63 meters | LANDFIRE Mapped. |
| Tree Height = 64 meters | LANDFIRE Mapped. |
| Tree Height = 65 meters | LANDFIRE Mapped. |
| Tree Height = 66 meters | LANDFIRE Mapped. |
| Tree Height = 67 meters | LANDFIRE Mapped. |
| Tree Height = 68 meters | LANDFIRE Mapped. |
| Tree Height = 69 meters | LANDFIRE Mapped. |
| Tree Height = 70 meters | LANDFIRE Mapped. |
| Tree Height = 71 meters | LANDFIRE Mapped. |
| Tree Height = 72 meters | LANDFIRE Mapped. |
| Tree Height = 73 meters | LANDFIRE Mapped. |
| Tree Height = 74 meters | LANDFIRE Mapped. |
| Tree Height = 75 meters | LANDFIRE Mapped. |
| Tree Height = 76 meters | LANDFIRE Mapped. |
| Tree Height = 77 meters | LANDFIRE Mapped. |
| Tree Height = 78 meters | LANDFIRE Mapped. |
| Tree Height = 79 meters | LANDFIRE Mapped. |
| Tree Height = 80 meters | LANDFIRE Mapped. |
| Tree Height = 81 meters | LANDFIRE Mapped. |
| Tree Height = 82 meters | LANDFIRE Mapped. |
| Tree Height = 83 meters | LANDFIRE Mapped. |
| Tree Height = 84 meters | LANDFIRE Mapped. |
| Tree Height = 85 meters | LANDFIRE Mapped. |
| Tree Height = 86 meters | LANDFIRE Mapped. |
| Tree Height = 87 meters | LANDFIRE Mapped. |
| Tree Height = 88 meters | LANDFIRE Mapped. |
| Tree Height = 89 meters | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|------------------|
| Attribute | Description |
| Tree Height = 90 meters | LANDFIRE Mapped. |
| Tree Height = 91 meters | LANDFIRE Mapped. |
| Tree Height = 92 meters | LANDFIRE Mapped. |
| Tree Height = 93 meters | LANDFIRE Mapped. |
| Tree Height = 94 meters | LANDFIRE Mapped. |
| Tree Height = 95 meters | LANDFIRE Mapped. |
| Tree Height = 96 meters | LANDFIRE Mapped. |
| Tree Height = 97 meters | LANDFIRE Mapped. |
| Tree Height = 98 meters | LANDFIRE Mapped. |
| Tree Height >= 99 meters | LANDFIRE Mapped. |
| Shrub Height = 0.1 meter | LANDFIRE Mapped. |
| Shrub Height = 0.2 meter | LANDFIRE Mapped. |
| Shrub Height = 0.3 meter | LANDFIRE Mapped. |
| Shrub Height = 0.4 meter | LANDFIRE Mapped. |
| Shrub Height = 0.5 meter | LANDFIRE Mapped. |
| Shrub Height = 0.6 meter | LANDFIRE Mapped. |
| Shrub Height = 0.7 meter | LANDFIRE Mapped. |
| Shrub Height = 0.8 meter | LANDFIRE Mapped. |
| Shrub Height = 0.9 meter | LANDFIRE Mapped. |
| Shrub Height = 1 meter | LANDFIRE Mapped. |
| Shrub Height = 1.1 meters | LANDFIRE Mapped. |
| Shrub Height = 1.2 meters | LANDFIRE Mapped. |
| Shrub Height = 1.3 meters | LANDFIRE Mapped. |
| Shrub Height = 1.4 meters | LANDFIRE Mapped. |
| Shrub Height = 1.5 meters | LANDFIRE Mapped. |
| Shrub Height = 1.6 meters | LANDFIRE Mapped. |
| Shrub Height = 1.7 meters | LANDFIRE Mapped. |
| Shrub Height = 1.8 meters | LANDFIRE Mapped. |
| Shrub Height = 1.9 meters | LANDFIRE Mapped. |
| Shrub Height = 2.0 meters | LANDFIRE Mapped. |
| Shrub Height = 2.1 meters | LANDFIRE Mapped. |
| Shrub Height = 2.2 meters | LANDFIRE Mapped. |
| Shrub Height = 2.3 meters | LANDFIRE Mapped. |
| Shrub Height = 2.4 meters | LANDFIRE Mapped. |

| LANDFIRE Existing Vegetation Height Attribute Data Dictionary | |
|---|-------------------------------|
| Attribute | Description |
| Shrub Height = 2.5 meters | LANDFIRE Mapped. |
| Shrub Height = 2.6 meters | LANDFIRE Mapped. |
| Shrub Height = 2.7 meters | LANDFIRE Mapped. |
| Shrub Height = 2.8 meters | LANDFIRE Mapped. |
| Shrub Height = 2.9 meters | LANDFIRE Mapped. |
| Shrub Height >= 3.0 meters | LANDFIRE Mapped. |
| Herb Height = 0.1 meter | LANDFIRE Mapped. |
| Herb Height = 0.2 meter | LANDFIRE Mapped. |
| Herb Height = 0.3 meter | LANDFIRE Mapped. |
| Herb Height = 0.4 meter | LANDFIRE Mapped. |
| Herb Height = 0.5 meter | LANDFIRE Mapped. |
| Herb Height = 0.6 meter | LANDFIRE Mapped. |
| Herb Height = 0.7 meter | LANDFIRE Mapped. |
| Herb Height = 0.8 meter | LANDFIRE Mapped. |
| Herb Height = 0.9 meter | LANDFIRE Mapped. |
| Herb Height >= 1 meter | LANDFIRE Mapped. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

5.4.4 Existing Vegetation Type (EVT) LF 2020

| LANDFIRE Existing Vegetation Type Attribute Data Dictionary | |
|---|--|
| Attribute | Description |
| VALUE | The LF assigned code identifying vegetation and land cover types. |
| -9999 | Fill - NoData |
| 4401 - 9994 | The code identifies the vegetation and land cover types. |
| Count | The number of pixels for the corresponding value. |
| EVT_NAME | Class name in the LANDFIRE EVT legend. |
| LFRDB | Code stored in the LFRDB. |
| 4401 - 9994 | The code identifies the EVT value stored in the LFRDB. Some LFRDB codes have been split into more than one value, this field provides the codes lineage. |

| LANDFIRE Existing Vegetation Type Attribute Data Dictionary | |
|--|---|
| Attribute | Description |
| EVT_FUEL | Fuels EVT code. |
| | The code identifies the vegetation and land cover types used for fuels mapping. |
| EVT_Fuel_N | Fuels EVT class name. |
| EVT_LF | EVT Lifeform. |
| EVT_GP | EVT Group code. |
| EVT_PHYS | EVT Physiognomy. |
| EVT_GP_N | EVT Group name. |
| SAF_SRM | Crosswalk to Society of American Foresters and Society for Range Management cover type. |
| EVT_ORDER | EVT Physiognomic Order from Federal Geographic Data Committee classification system. |
| EVT_CLASS | EVT Physiognomic Class from Federal Geographic Data Committee classification system. |
| EVT_SBCLS | EVT Physiognomic Subclass from Federal Geographic Data Committee classification system. |
| R | Red color value/255 |
| G | Green color value/255 |
| B | Blue color value/255 |
| RED | Red color value range 0 - 1 |
| GREEN | Green color value range 0 - 1 |
| BLUE | Blue color value range 0 - 1 |

Section 6 Glossaries of Terms

6.1 Agencies and Organizations

| Acronym | Definition |
|---------|--|
| AAIC | Alaska Avalanche Information Center |
| AFE | Association for Fire Ecology |
| BIA | [US] Bureau of Indian Affairs |
| BLM | [US] Bureau of Land Management |
| CALMIT | Center for Advanced Land Management Information Technologies |
| C-CAP | [NOAA] Coastal Change Analysis Program |
| CSC | Climate Science Center |
| DMID | Data Management and Information Delivery (an EDC group) |
| DNR | Department of Natural Resources |
| DOD | Department Of Defense |
| DOI | [US] Department Of the Interior |
| EPA | Environmental Protection Agency |
| EROS | [USGS] Earth Resources Observation and Science Center |
| ESPG | Environment, Society and Policy Group |
| FEMA | Federal Emergency Management Agency |
| FERA | Fire and Environmental Research Applications |
| FFS | Fire, Fuel, and Smoke Science Program |
| FGDC | Federal Geographic Data Committee |
| FIA | [FS] Forest Inventory and Analysis |
| FMI | Federal Modelling Institute |
| FS | [USDA] Forest Service |
| GAO | Government Accountability Office |
| GAP | [USGS] Gap Analysis Program |
| GTAC | [FS] Geospatial Technology and Applications Center |
| ISRO | Indian Space Research Organization |
| JFSP | Joint Fire Science Program |
| LAG | LANDFIRE Advisory Group |
| LPDAAC | Land Processes Distributed Active Archive Center |
| LSRD | [EROS] LSDS Science Research and Development |
| MACGA | MesoAmerican & Caribbean Geospatial Alliance |
| MFSL | [USFS] [MFRS] Missoula Fire Sciences Lab |
| MRLC | Landsat Multi-Resolution Land Characteristics Consortium |

| Acronym | Definition |
|---------|---|
| NAC | National Association of Counties |
| NAIP | National Agriculture Imagery Program |
| NASA | National Aeronautics and Space Administration |
| NASF | National Association of State Foresters |
| NASS | [USDA] National Agricultural Statistics Service |
| NCCWSC | National Climate Change and Wildlife Science Center |
| NGA | National Geospatial-Intelligence Agency |
| NIFC | National Interagency Fire Center |
| NIFCG | National Interagency Fuels Coordination Group |
| NIFTT | [NIFCG] National Interagency Fuels, Fire, and Vegetation Technology Transfer Team |
| NPS | National Park Service |
| NRCS | [USDA] Natural Resources Conservation Service |
| NS | NatureServe |
| NWCG | National Wildfire Coordinating Group |
| ODF | Oregon Department of Forestry |
| OGC | Open Geospatial Consortium |
| OWF | [DOI] Office of Wildland Fire |
| PMBOK | Project Management Body Of Knowledge |
| PMI | Project Management Institute |
| PWFSL | Pacific Wildland Fire Sciences Laboratory |
| RMRS | [FS] Rocky Mountain Research Station |
| RSAC | [USDA] [FS] Remote Sensing Applications Center |
| SAF | Society of American Foresters |
| SGT | Stinger Ghaffarian Technologies |
| TNC | The Nature Conservatory |
| TSSC | [EROS] Technical Services Support Contract |
| US | United States |
| USDA | US Department of Agriculture |
| USFS | US Forest Service |
| USFWS | US Fish and Wildlife Service |
| USGS | US Geological Survey |
| WFIT | Wildland Fire Information and Technology |

6.2 Terms, Information, and Systems

| Acronym | Definition |
|------------|--|
| 3DEP | USGS 3D Elevation Program |
| AAR | After Action Review |
| AG | Agriculture |
| AIM | [BLM] Assessment, Inventory, and Monitoring |
| AK | Alaska |
| AML | Arc Meta Language |
| AOI | Area Of Interest |
| ARD | [Landsat] Analysis Ready Data |
| ASP | Aspect |
| BA | Burned Area |
| BAECV | Burned Area Essential Climate Variable |
| BAER | [USDA] [FS] Burned Area Emergency Response |
| BARC | [USDA] [FS] Burned Area Reflectance Classification |
| BehavePlus | BehavePlus fire behavior model (Andrews and others 2005) |
| BFB | Basic Fire Behavior |
| LBG | [LANDFIRE] Business Group |
| BpS | Biophysical Settings Models and Descriptions (non-spatial) |
| BPS | Biophysical Settings |
| BUG | Biomass Utilization Group |
| C-CAP | [NOAA] Coastal Change Analysis Program |
| CART | Classification And Regression Trees (modelling) |
| CDL | Crop Data Layer |
| CBD | (Forest) Canopy Bulk Density |
| CBH | (Forest) Canopy Base Height |
| CC | (Forest) Canopy Cover |
| CCO | California Contract Counties |
| CDF | California Department of Forestry |
| CDL | Cropland Data Layer |
| CE | Categorical Exclusions |
| CFFDRS | Canadian Forest Fire Danger Rating System |
| CFI | [BIA] Continuous Forest Inventory |
| CH | (Forest) Canopy Height |
| CLU | Climate and Land Use |

| Acronym | Definition |
|---------|---|
| CNMI | Commonwealth of the Northern Mariana Islands |
| CONUS | Conterminous United States |
| CONSUME | Software program - predicts fuel consumption and emissions |
| CSG | Communications Strategy Group |
| CSV | Comma Separated Value |
| CTI | Compound Topographic Index |
| CWD | Coarse woody debris |
| CY | Calendar Year |
| dNBR | differenced Normalized Burn Ratio |
| dNDMI | differenced Normalized Difference Moisture Index |
| dNDVI | differenced Normalized Difference Vegetation Index |
| DBA | Database Administrator |
| DBFD | Drought Based Fuel Dynamic |
| DDS | (LANDFIRE) Data Distribution Site |
| DEM | Digital Elevation Model |
| DSWE | Dynamic Surface Water Extent |
| DWD | Dead and downed Woody Debris |
| DWM | Downed woody Material |
| DYEAR | Disturbance (year) |
| dyn | dynamic |
| EA | [IFTDSS] Exposure Analysis |
| ECS | Ecological Classification System |
| EDNA | Elevation Derivatives for National Applications |
| EHD | External Hard Drive |
| EMDS | Ecosystem Management Decision Support |
| ES | Ecological System |
| ESF | Emergency Support Functions |
| ESP | Environmental Site Potential |
| ESPA | EROS Science Processing Architecture |
| ESRI | Environmental Systems Research Institute |
| ESSA | Environmental and Social Systems Analysts (ESSA Technologies, Inc.) |
| ETM | [Landsat 7] Enhanced Thematic Mapper |
| EVC | Existing Vegetation Cover |
| EVG | from the Fuel Rules Database Existing Vegetation Groups |
| EVH | Existing Vegetation Height |

| Acronym | Definition |
|-----------|---|
| EVS | from the Fuel Rules Database Existing Vegetation Systems |
| EVT | Existing Vegetation Type |
| FACTS | Forest Atmosphere Carbon Transfer and Storage |
| FACTS | Forest Service Activity Tracking System |
| FAQs | Frequently Asked Questions |
| FARSITE | FARSITE fire growth simulation model (Finney 1998) |
| FBAN | [Tech Plan] Fire Behavior Analysts |
| FBAT | [NIFTT] Fire Behavior Assessment Tool |
| FBFM | Fire Behavior Fuel Model |
| FBFM10 | Fire Behavior Fuel Models (10 Albini) |
| FBFM13 | Fire Behavior Fuel Models 13 (Anderson) |
| FBFM40 | Fire Behavior Fuel Models 40 (Scott and Burgan) |
| FBP | Fire Behavior Prediction |
| FCC | Forest Canopy Cover |
| FCCS | Fuel Characteristics Classification System |
| FCH | Forest Canopy Height |
| FDist | Fuel Disturbance |
| FdistYEAR | Fuel Disturbance (year) |
| FEAT | Fire Ecology Assessment Tool |
| FEIS | USFS] Fire Effects Information System |
| FETM | Fire Emissions Tradeoff Model |
| FFE | Fire and Fuels Extension |
| FFI | FEAT-FIREMON Integrated/Integration |
| FFT | Fuel and Fire Tools |
| FHTET | Forest Health Technology Enterprise Team |
| FIREMON | Fire Effects Monitoring and Inventory Protocol |
| FL | Flame Length |
| FLAME | Federal Land Assistance, Management and Enhancement Act of 2009 |
| FlamMap | FlamMap fire potential simulator (Stratton 2004) |
| FLM | Fuel Loading Models |
| FMC | Fuels Management Committee |
| FOD | Fire Occurrence Database |
| FOFEM | First Order Fire Effects Model (Reinhart and others 1997) |
| FOIA | Freedom of Information Act |
| FPA | Fire Program Analysis |

| Acronym | Definition |
|----------|--|
| FPI | Fire Potential Index |
| FPU | Fire Planning Unit |
| FRAMES | Fire Research and Management Exchange System |
| FRCC | Fire Regime Condition Class |
| FRCCMT | FRCC Mapping Tool |
| FRG | Fire Regime Groups |
| FRID | [USDA] [FS] Fire Return Interval Departure |
| FSM | Federated States of Micronesia |
| FSPro | Fire Spread Probability |
| FSVeg | [USDA] [FS] Field Sampled Vegetation |
| FuelCalc | [USDA] [FS] [RMRS] Fire, Fuel, Smoke Science Program a desktop software application for determining changes in surface and crown fuel loading after thinning, pruning, piling and/or prescribed fire |
| FVC | Fuel Vegetation Cover |
| FVC | Fuel Vegetation Height |
| FVH | Fuel Vegetation Type |
| FVTDB | [USDA] [FS] Forest Vegetation Simulator |
| FBFM40 | Fire Behavior Fuel Models 40 (Scott and Burgan) |
| FVSDDDB | [USDA] [FS] Forest Vegetation Simulator Disturbance Database |
| FVSRDB | [USDA] [FS] Forest Vegetation Simulator Ready Database |
| FVTDB | Forest Vegetation Transitions Database |
| FWD | Fine Woody Debris |
| FWS | [US] Fish & Wildlife Service |
| FY | Fiscal Year |
| GA | [LANDFIRE] Geographic Area(s) |
| GDAL | Geospatial Data Abstraction Library |
| GIS | Geographic Information System |
| GLAS | Geoscience Laser Altimeter System |
| GLM | General Linear Model |
| gNEXUS | NASA Engineering Extendible United Software System |
| GNG | Go, NoGo |
| GNIS | Geographic Names Information System |
| GOES | Geostationary Operational Environment Satellite |
| GPS | Global Positioning System |
| GTG | Geospatial Task Group |

| Acronym | Definition |
|----------|--|
| HFPAS | Hazardous Fuels Prioritization and Allocation System |
| HI | Hawaii |
| HLS | Harmonized Landsat and Sentinel-2 |
| HMS | Hazard Mapping System |
| HUC | Hydrologic Unit Code |
| IA | Insular Area(s) |
| IFTDSS | Interagency Fuels Treatment Decision Support System |
| IIS | Microsoft (.NET Framework) Internet Information Services |
| IMS | Information Management Systems |
| IRM | Information Resource Management |
| KBDI | Keetch-Byram Drought Index |
| LANDFIRE | Landscape Fire and Resource Management Planning Tools |
| LANDSAT | LAND SATellite |
| LANDSUM | LANDscape SUccession Model |
| LBG | LANDFIRE Business Group |
| LCMAP | Land Cover Map |
| LCMAP | Land Change Monitoring, Assessment, and Projection |
| LCMS | Landscape Change Monitoring System |
| LCP | [FARSITE] Landscape (.LCP) file |
| LF | LANDFIRE |
| LFCSG | LANDFIRE Communications Strategy Group |
| LFDAT | LANDFIRE Data Access Tool |
| LFRDB | LANDFIRE Reference Database |
| LFTFC | LANDFIRE Total Fuel Change |
| LFTFCT | LANDFIRE Total Fuel Change Tool |
| LFWG | LANDFIRE Website Group |
| lidar | Light Detection and Ranging |
| LOE | Level Of Effort |
| LSDS | Land Satellite Data Systems |
| LTAN | [Tech Plan] Long-Term Analysts |
| LTG | LANDFIRE Technical Group |
| LTSS | Landsat Time Series Stacks |
| LUT | LookUp Table |
| MFRI | Mean Fire Return Interval |
| MIICA | Multi Index Integrated Change Analysis |

| Acronym | Definition |
|----------|--|
| MNDWI | Modified Normalized Difference Water Index |
| MoD-FIS | Modeling Dynamic-Fuels with an Index System |
| MODIS | MODerate resolution Imaging Spectrometer |
| MOU | Memorandum of Understanding |
| MRLC | Multiresolution Land Characteristics |
| MSAVI | Modified Soil-Adjusted Vegetation Index |
| MTBS | Monitoring Trends in Burn Severity |
| MTDB | ModelTracker Database |
| MXT | Moisture of eXTinction |
| MZ | [LANDFIRE] Map Zone(s) |
| NAD | North American Datum |
| NALCMS | North American Land Change Monitoring System |
| NBCD | National Biomass and Carbon Dataset |
| NBR | Normalized Burn Ratio |
| NC | North Central |
| NDMI | Normalized Difference Moisture Index |
| NDVI | Normalized Difference Vegetation Index |
| NE | Northeast |
| NED | National Elevation Dataset |
| NEPA | National Environmental Policy Act |
| NEXUS | NEXUS crown fire potential model (Scott 2003) |
| NFDRS | National Fire Danger Rating System |
| NFPORS | [BLM] National Fire Plan Reporting and Operations System |
| NFRDRS88 | National Fire Danger Rating System-Revision of 1988 |
| NFS | National Forest System |
| NFVTDB | Non-Forest Vegetation Transitions Database |
| NGO | Non-Government Organization |
| NHD | National Hydrography Dataset |
| NIR | Near InfraRed |
| NLCD | [MRLC] National Land Cover Database |
| NRCS | National Resource Conservation Services |
| NRF | National Response Framework |
| NRI | National Resources Inventory {from Technical Plan} |
| NRI | [NRCS] Natural Resources Inventory |
| NRIS | Natural Resource Information System |

| Acronym | Definition |
|---------|---|
| NTFB | [Tech Plan] Near-Term Fire Behavior |
| NVC | National Vegetation Classification |
| NVCS | National Vegetation Classification Standard |
| NW | Northwest |
| NWCG | National Wildfire Coordinating Group |
| NWI | National Wetlands Inventory {from Technical Plan} |
| O&M | Operations and Maintenance |
| OLI | [Landsat 8/9] Operational Land Imager |
| OVR | Overlay Maker (.OVR) File |
| PAD | [USGS] Protected Areas Database |
| PADUS | [USGS] Protected Areas Database of the United States |
| PCR | Project Close-out Report |
| PCS | Projected Coordinate System |
| PLS | Percent Low-Severity Fire |
| PMS | Percent Mixed-Severity Fire |
| PNVG | Potentially Natural Vegetation Groups |
| PODs | Potential Operations Delineations |
| PQCA | Product Quality Control and Assessment |
| PQWT | Product Quality Working Team |
| PRS | Percent Replacement-Severity Fire |
| PVT | Potential Vegetation Type |
| PYR | Python Repository (.PYR) File |
| QA | Quality Assurance |
| QC | Quality Control |
| QFR | Quadrennial Fire Review |
| RAVG | [USDA] [FS] Rapid Assessment of Vegetation Condition after Wildfire |
| RAWS | Remote Automated Weather Station |
| RD&A | [WFM] Research Development & Application |
| REST | REpresentational State Transfer |
| RMI | Republic of Marshall Islands |
| RMT | Refresh Model Tracker |
| ROS | Rate Of Spread |
| RSLC | Remote Sensing of Landscape Change |
| RST | Remap Strategy Team |
| RTA | Regression Tree Analysis |

| Acronym | Definition |
|----------|--|
| SAF | Society of American Foresters {LANDFIRE Technical Plan} |
| SAP | Stewardship Spatial Analysis |
| SATVI | Soil-Adjusted Total Vegetation Index |
| SC | South Central |
| SC | Species Composition |
| SCA | Sensor Chip Assembly |
| SClass | Succession Class |
| SDC | Science Data Catalog |
| SDE | Spatial Data Engine |
| SDW | Spatial Data Warehouse |
| SDWCLUA | Spatial Data Warehouse Cluster A |
| SE | Southeast |
| SEM | System for Environmental Management |
| SIMPPLLE | SIMulating vegetative Patterns and Processes at Landscape scaLES |
| SLA | Service Level Agreement |
| SLC | Scan Line Corrector (Landsat 7) |
| SLP | Slope |
| SlpD | Slope Degrees |
| SlpP | Slope Percent Rise |
| SME | Subject Matter Expert |
| SOW | Statement Of Work |
| SRM | Society for Range Management |
| SRTM | Shuttle Radar Topography Mission |
| SSG | Spectral Similarity Grouping |
| SSURGO | Soil Survey Geographic Database |
| STARFM | Spatial and Temporal Adaptive Reflectance Fusion Model |
| STATSGO | STATe Soil GeOgraphic |
| stc | static |
| STFB | [Tech Plan] Short-Term Fire Behavior |
| SW | Southwest |
| SWI | Shared Web Infrastructure |
| SWIR | Short Wave InfraRed |
| TC | Tasseled Cap |
| TCC | [RSAC] Tree Canopy Cover |
| TGZ | GZIP Compressed Tar Archive (.TGZ) file |

| Acronym | Definition |
|-------------|--|
| LTG | [LANDFIRE] Technical Group |
| TM | [Landsat] Thematic Mapper |
| TNM | The National Map |
| TSD | Time Since Disturbance |
| USNG | US National Grid |
| USVI | US Virgin Islands |
| VBZ | Valley Bottom Zone |
| VCC | Vegetation Condition Class (formerly known as LF FRCC) |
| VCT | Vegetation Change Tracker |
| VDDT | Vegetation Dynamics Development Tool |
| VDep | Vegetation Departure Index (formerly known as LF FRCC Departure Index) |
| VdistYEAR | Vegetation Disturbance |
| VdistYEAR | Vegetation Disturbance (year) |
| VIIRS | Visible and Infrared Imager Radiometer Suite |
| VNIR | Visual + Near InfraRed |
| VPU | Vegetation Production Unit |
| VTDB | Vegetation Transition Database |
| VTM | Vegetation Transition Magnitude |
| WAF | Web Application Firewall |
| WBS | Work Breakdown Structure |
| WCS | Web Coverage Service |
| WELD | [EROS] Web Enabled Landsat Data |
| WFAS | Wildland Fire Assessment System |
| WFAT | Wildland Fire Assessment Tool |
| WFDS | Wildland-Urban Interface Fire Dynamics Simulator |
| WFDSS | Wildland Fire Decision Support System |
| WFIPS | Wildland Fire Investment Planning System |
| WFIT | Wildland Fire Information and Technology |
| WFLC | Wildland Fire Leadership Council |
| WFM | Wildland Fire Management |
| WFMRD&A | Wildland Fire Management RD&A |
| WFMRD&A-FFE | [WFMRD&A] Fuels and Fire Ecology |
| WIMS | Weather Information Management System |
| WMS | Web Mapping Service |
| WUI | Wildland Urban Interface |