

LANDFIRE 2020 Elevation (Elev) CONUS

Metadata also available as

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Identification Information:

Citation:

Citation_Information:

Originator:
LANDFIRE, Earth Resources Observation and Science Center (EROS), U.S. Geological Survey

Publication_Date: 20220131

Title: LANDFIRE 2020 Elevation (Elev) CONUS

Edition: LF 2020

Geospatial_Data_Presentation_Form: raster digital data

Publication_Information:

Publication_Place: Sioux Falls, SD

Publishers:
Earth Resources Observation and Science Center (EROS), U.S. Geological Survey

Online_Linkage: <https://www.landfire.gov>

Description:

Abstract:
In late 2021 the LANDFIRE (LF) team responded to feedback and created new topographic products (Elevation, Slope, and Aspect) for the Conterminous US, Alaska, Hawaii, and Puerto Rico and the Virgin Islands to release in early 2022. To create the new LF 2020 Elevation product, the 1 arc-second (approximately 30 meters) Digital Elevation Model (DEM) tiles were mosaicked from the National Map (TNM) Viewer (v2.0) on Nov. 09, 2021. The tiles were mosaicked in the native coordinate system (GCS_North_American_1983 WKID: 4269 Authority: EPSG) and format (32-bit). The file was projected to NAD_1983_Contiguous_USA_Albers (WKID: 5670 Authority: EPSG) using the Project Raster tool in ArcGIS Desktop (ArcGIS) with Bilinear Interpolation re-sampling method, cell size and spacing set to the LF grid. This file was used to calculate aspect and slope. The file was then converted to Signed 16-bit using the Copy Raster tool in ArcGIS and then clipped to the LF boundary using the Extract by Mask tool in ArcGIS. Several NoData areas were assigned value zero (0) that overlap the LF data extent which includes a 3 nautical mile buffer along coastal areas. Otherwise, -9999 indicates NoData.

Purposes:
LANDFIRE 2020 Update (LF 2020) represents circa 2020 ground conditions and is designed to produce vegetation, disturbance, and fuels products that inform wildland fire and ecological decision systems. LF 2020 is an update to the new base map, LF 2016 Remap (LF Remap), which improved past methodologies and processes to incorporate current satellite imagery, contemporary data sources, and the latest software and hardware technologies. LF 2020 utilizes the most recent and relevant geospatial data available to offer products that reflect current conditions. LF 2020 products are designed to facilitate national and regional level strategic fire and resource management planning and reporting of management activities. The principal purposes of the products include providing, 1) national level, landscape scale geospatial products to support fire and fuels management planning, and 2) consistent fuels products to support fire planning, analysis, and budgeting to evaluate fire management alternatives. Products are created at a 30 meter raster; however, the applicability of products varies by location and specific use. LF products were designed to support 1) national (all states) strategic planning, 2) regional (single large states or groups of smaller states), and 3) strategic/tactical planning for large sub regional landscapes and Fire Management Units (FMUs) (such as significant portions of states or multiple federal administrative entities). The applicability of LF products to support fire and land management planning on smaller areas will vary by product, location, and specific use. Managers and planners must evaluate LF products according to the scale and requirements specific to their needs.

Supplemental_Information: LF 2020 Elevation products are in meters above sea level.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2020

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Biennially

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -127.9878

East_Bounding_Coordinate: 465.2544

North_Bounding_Coordinate: 51.6497

South_Bounding_Coordinate: 22.7654

Keywords:

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: biota

Theme:

Theme_Keyword_Thesaurus: USGS Thesaurus

Theme_Keyword: fires

Theme_Keyword: hazard preparedness

Theme_Keyword: remote sensing

Theme_Keyword: image collections

Theme_Keyword: geospatial datasets

Theme_Keyword: geographic information systems

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: raster digital data

Theme_Keyword: Elevation

Theme_Keyword: U.S. Geological Survey (USGS)

Theme_Keyword: LANDFIRE 2020

Theme_Keyword: topography

Theme_Keyword: topo

Place:

Place_Keyword_Thesaurus: Common geographic areas

Place_Keyword: US

Place_Keyword: CONUS

Place_Keyword: United States

Place_Keyword: Continental U.S.

Place_Keyword: Conterminous United States

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:
LANDFIRE, Earth Resources Observation and Science Center (EROS), U.S. Geological Survey

Contact_Position: Customer Service Representative

Contact_Address:

Address_Type: physical

Address: 47914 252nd Street

City: Sioux Falls

State_or_Province: SD

Postal_Code: 57198

Country: U.S.

Contact_Voice_Telephone: 605-594-6151

Contact_Electronic_Mail_Address: helpdesk@landfire.gov

Data_Set_Credits:
These products were created by the LF team at USGS EROS, Sioux Falls, SD. Refer to the contact information throughout this metadata to contact the LF team.

Security_Information:

Security_Classification_System: None in place

Security_Classification: Unclassified

Security_Handling_Description:
If there is ever doubt, contact the LF Help Desk at helpdesk@landfire.gov

Native_Data_Set_Environment: Microsoft Windows 10; ESRI ArcCatalog 10.6.1

Cross_Reference:

Citation_Information:

Originator: USGS

Publication_Date: 2021

Title: USGS National Geospatial Program The National Map Viewer

Geospatial_Data_Presentation_Form: raster digital data

Other_Citation_Details:
TNM Viewer v2.0

Online_Linkage:
National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Structures Dataset, and National Transportation Dataset

Online_Linkage: <https://www.usgs.gov/programs/national-geospatial-program/national-map>

Online_Linkage: <https://www.usgs.gov/national-hydrography>

Online_Linkage: <https://www.usgs.gov/3d-elevation-program>

Online_Linkage: <https://apps.nationalmap.gov/datasets/>

Cross_Reference:

Citation_Information:

Originator: USGS

Publication_Date: 2009

Title: USGS Global Ecosystems

Geospatial_Data_Presentation_Form: publication

Online_Linkage:
<https://www.usgs.gov/centers/geosciences-and-environmental-change-science-center/science/global-ecosystems>

Cross_Reference:

Citation_Information:

Originator: Collin G. Homer

Originator: Joyce A. Fry

Originator: Christopher A. Barnes

Publication_Date: 2012

Title: The National Land Cover Database

Geospatial_Data_Presentation_Form: publication

Publication_Information:

Publication_Place: n/a

Publisher: US Geological Survey

Online_Linkage: <https://doi.org/10.3133/620123020>

Cross_Reference:

Citation_Information:

Originator: NOAA

Publication_Date: 1998

Title:
NOAA National Centers for Environmental Information U.S. Coastal Relief Model

Geospatial_Data_Presentation_Form: publication

Online_Linkage: <https://www.ngdc.noaa.gov/ngg/coastal/crm.html>

Cross_Reference:

Citation_Information:

Originator: US Census Bureau

Publication_Date: 2021

Title: U.S. Census Bureau TIGER/Line data

Geospatial_Data_Presentation_Form: publication

Online_Linkage:
<https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-geodatabase-file.html>

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:
Products were tested to ensure that each attribute is represented consistently across all data sets. Attributes were not validated against in person observations.

Logical_Consistency_Report:
The products were pixel "truth" tested for consistency of land or water characteristics across all products.

Completeness_Report:
Products were formally tested to ensure that valid data was produced for all pixels. Each product was then validated and tested for duplicates, omissions, and errors.

Lineage:

Process_Step:

Process_Description:
Beginning in 2016 LF Remap products were created using recent advances in image compositing, tiling algorithms, and faster computing hardware to ensure that LF products remained relevant. LF Remap leveraged the Landsat archive, lidar data, and user contributed field plot data compiled into the LF Reference Database (LFRDB), to create new base map vegetation products. Reference resources included, but were not limited to, Forest Inventory and Analysis (FIA) program plot data (USFS <https://fia.fs.fed.us/>), Landsat Dynamic Surface Water Extent (DSWE) USGS <https://www.usgs.gov/landsat-missions/>), the National Land Cover Dataset (NLCD) USGS <https://www.nlcd.usgs.gov/>), and National Agricultural Statistics Service (NASS) USDA - <https://www.nass.usda.gov/>). To read more about LF reference resources go to <https://www.landfire.gov/reference-php>. Information about LF Remap product testing is available by request or via the website at <https://www.landfire.gov>.

Process_Date: 20220131

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Raster

Raster_Object_Information:

Raster_Object_Type: Grid Cell

Row_Count: 20729

Column_Count: 24853

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Map_Projection:

Map_Projection_Name: Albers Conical Equal Area

Albers_Conical_Equal_Area:

Standard_Parallel: 29.5

Standard_Parallel: 45.5

Longitude_of_Central_Meridian: -96.0

Latitude_of_Projection_Origin: 23.0

False_Easting: 0

False_Northing: 0

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: row and column

Coordinate_Representation:

Abscissa_Resolution: 30

Ordinate_Resolution: 30

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983 (NAD 83)

Ellipsoid_Name: Geodetic Reference System 1980

Semi-major_Axis: 6378137.000000

Denominator_of_Flatening_Ratio: 298.257222

Entity_and_Attribute_Information:

Overview_Description:

Entity_and_Attribute_Overview:
LANDFIRE (LF) 2020 Elevation CONUS. An Attribute Table is included with each product download as a .dbf and embedded in the metadata. The Attribute Data Dictionary (ADD) can be found at <https://www.landfire.gov/>.

Entity_and_Attribute_Detail_Citation: <https://landfire.gov/elevation.php>

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:
LANDFIRE, Earth Resources Observation and Science Center (EROS), U.S. Geological Survey

Contact_Position: Customer Service Representative

Contact_Address:

Address_Type: physical

Address: 47914 252nd Street

City: Sioux Falls

State_or_Province: SD

Postal_Code: 57198

Country: U.S.

Contact_Voice_Telephone: 605-594-6151

Contact_Electronic_Mail_Address: helpdesk@landfire.gov

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: ARCG

Format_Version: 20220131

Format_Specification: LF 2020

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: <https://www.landfire.gov>

Fees: none

Metadata_Reference_Information:

Metadata_Date: 20220131

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:
LANDFIRE, Earth Resources Observation and Science Center (EROS), U.S. Geological Survey

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Address_Type: physical

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Postal_Code: 57198

Country: U.S.

Contact_Voice_Telephone: 605-594-6151

Contact_Electronic_Mail_Address: helpdesk@landfire.gov

Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Security_Information:

Metadata_Security_Classification_System: None

Metadata_Security_Classification: Unclassified

Metadata_Security_Handling_Description: None