

2020 Critical update to Caltrans Wildfire Vulnerability Analysis

Dataset available at: <https://doi.org/10.5061/dryad.sj3tx964v>

(This dataset supports report **2020 Critical Update to Caltrans Wildfire Vulnerability Analysis**)

This U.S. Department of Transportation-funded dataset is preserved by the Dryad digital repository (<https://datadryad.org/stash/>) and is available at <https://doi.org/10.5061/dryad.sj3tx964v>.

The related final report **2020 Critical Update to Caltrans Wildfire Vulnerability Analysis**, is available from the National Transportation Library's Digital Repository at <https://rosap.ntl.bts.gov/view/dot/56979>.

Metadata from the Dryad repository record:

Description:

The data and materials presented here support a research project conducted by UC Davis in support of Caltrans, a transportation agency that is conducting a wildfire vulnerability risk assessment for fuels reduction in the right of Way (ROW) to protect Caltrans' infrastructure and travelers. We reviewed the 21 layers used in a 2019 fire risk model and updated input spatial data as available. We then reran the risk assessment for 2020 and developed an updated risk map. The risk map was used to rank the highway network into 4 classes: Top 10%, top 17% (cross comparable with the 2019 priority routes), top 20%, & top 30%.

Keywords:

Earth and related environmental sciences

Recommended citation:

Boynton, Ryan; Thorne, James; Hollander, Allan (2021), 2020 Critical update to Caltrans wildfire vulnerability analysis, Dryad, Dataset, <https://doi.org/10.5061/dryad.sj3tx964v>

Dataset description:

This dataset contains 1 .zip file collection described below.

2020 Critical update to Caltrans wildfire vulnerability analysis.zip

This collection contains 3 .zip files and 1 .docx file, described below.

- ContextualData.gdb.zip
 - This .zip file contains 157 files and 8 file types.
- InputTiffFiles.zip
 - This .zip file contains 71 files and 8 file types.
- ModelOutputs.gdb.zip
 - This .zip file contains 73 files and 7 file types.
- README_2020StudyData.docx

File Type Descriptions:

- The atx file extension is mainly related to a plug-in format used by the Animation:Master program for Microsoft Windows and macOS (OS X). The software offers model, render, and animate features in single package. (for more information on .atx files and software, please visit <https://www.file-extensions.org/atx-file-extension>)
- The gdb file extension is related to database files that were originally used by InterBase database management system. The extension was also adopted in early versions of Firebird, but as both systems got more and more different with each versions, Firebird databases now have FDB extensions instead. (for more information on .gdb files and software, please visit <https://www.file-extensions.org/gdb-file-extension>)
- The freelist file extension is associated with ArcGIS, a geographic information system (GIS) for working with maps and geographic information available for Microsoft Windows operating system. (for more information on .freelist files and software, please visit <https://www.file-extensions.org/freelist-file-extension>)
- File extension gdbindexes is associated with ArcGIS, a complete system for designing and managing solutions through the application of geographic knowledge, developed by ESRI. (for more information on .gdbindexes files and software, please visit <https://www.file-extensions.org/gdbindexes-file-extension>)
- File extension gdbtable is associated with ArcGIS, a complete system for designing and managing solutions through the application of geographic knowledge, developed by ESRI. (for more information on .gdbtable files and software, please visit <https://www.file-extensions.org/gdbtable-file-extension>)
- The gdbtblx file extension is associated with the ArcGIS Geographic Information System (GIS) for Windows used to work with maps and geographic data. (for more information on .gdbtblx files and software, please visit <https://www.file-extensions.org/gdbtblx-file-extension>)
- .horizon
- The spx file extension is related to the ArcGIS, a geographic information system (GIS) for working with maps and geographic information, available for Microsoft Windows. (for more information on .spx files and software, please visit <https://www.file-extensions.org/spx-file-extension-arcgis-geodatabase-spx-data>)
- The cpg file extension is associated with the ArcGIS, a geographic information system for Microsoft Windows operating system, developed by Esri. (for more information on .cpg files and software, please visit <https://www.file-extensions.org/cpg-file-extension-arcgis-codepage>)
- File extension dbf is traditionally used for database file by many database applications. The original program, which used the DBF file extension for its database, was dBase. (for more information on .dbf files and software, please visit <https://www.file-extensions.org/dbf-file-extension>)
- The ovr file extension seems to be nowadays mostly related to a special overlay format from a program called The Overlay Maker. (for more information on .ovr files and software, please visit <https://www.file-extensions.org/ovr-file-extension>)

- The tfw file extension was also used in MrSID, a program for encoding of georeferenced raster graphics, such as orthophotos. MrSID was developed primarily for Geographic Information Systems (GIS). (for more information on .tfw files and software, please visit <https://www.file-extensions.org/tfw-file-extension-mrsid-data>)
- The tif file extension is traditionally used for Tagged Image File Format - one of the most widely supported lossless (does not lose information during compression) file formats for storing bit-mapped images (both PCs and Macintosh computers). (for more information on .tif files and software, please visit <https://www.file-extensions.org/tif-file-extension>)
- XML is a human-readable, machine-understandable, general syntax for describing hierarchical data, applicable to a wide range of applications (databases, e-commerce, Java, web development, searching, etc.). (for more information on .xml files and software, please visit <https://www.file-extensions.org/xml-file-extension>)
- The txt file extension is traditionally used for simple text files. Many MS-DOS, Unix, Windows applications and text editors used this file extension for common text file. Only character encoding charset may vary from simple ASCII to UTF etc. which depends on author language or operating system native charset. (for more information on .txt files and software, please visit <https://www.file-extensions.org/txt-file-extension>)
- The db file extension is used by various applications for database. Database is a structured collection of records or data that is stored in a computer system. (for more information on .db files and software, please visit <https://www.file-extensions.org/db-file-extension>)
- The docx file extension is best known for its use in Microsoft Word, a powerful word processor and authoring program that gives users the ability to create and share documents, which is available as part of Microsoft Office and Office 365 subscription based service. (for more information on .docx files and software, please visit <https://www.file-extensions.org/docx-file-extension>)

National Transportation Library (NTL) Curation Note:

As this dataset is preserved in a repository outside U.S. DOT control, as allowed by the U.S. DOT's Public Access Plan (<https://doi.org/10.21949/1503647>) Section 7.4.2 Data, the NTL staff has performed *NO* additional curation actions on this dataset.

NTL staff last accessed this dataset at <https://doi.org/10.5061/dryad.sj3tx964v> on 2021-08-11

If, in the future, you have trouble accessing this dataset at the host repository, please email NTLDataCurator@dot.gov describing your problem. NTL staff will do its best to assist you at that time.