

# **Data Management Plan (DMP) for Freight Analysis Framework Network (FAFN) 2003-Present Dataset**

U.S. Department of Transportation (USDOT)  
Federal Highway Administration (FHWA);  
Bureau of Transportation Statistics (BTS)  
2021-02-17

**Persistent link:** <https://doi.org/10.21949/1520829>

## **Recommended Citation:**

U.S. Department of Transportation, Federal Highway Administration; Bureau of Transportation Statistics [distributor]. (2020). Freight Analysis Framework Network (FAFN) 2003-Present [datasets]. <https://doi.org/10.21949/1520829>.

## **Change log:**

2021-02-17: Initial DMP written

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### **0. Dataset and Contact Information**

Title of Dataset: Freight Analysis Framework Network (FAFN) 2003-Present Dataset

URL: <https://doi.org/10.21949/1520829>

This is an ☒ initial DMP or a ☐ revised DMP.

#### **Organizational Contact Information**

Name: Freight Analysis Framework Network (FAFN) 2003-Present  
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#### **Data Distributor Contact Information**

Name: National Transportation Atlas Database (NTAD)  
Institution: U.S. Department of Transportation, Bureau of Transportation Statistics (BTS)  
Address: 1200 New Jersey Ave. SE, Washington D.C. 20590  
Email: [ntad@dot.gov](mailto:ntad@dot.gov)

### **1. Data Description:**

The Freight Analysis Framework Network (FAF) 2003-Present dataset is from the Federal Highway Administration (FHWA), and part of the U.S. Department of Transportation (USDOT) National Transportation Atlas Database (NTAD). It is produced through a partnership between Bureau of Transportation Statistics

(BTS) and Federal Highway Administration (FHWA) by integrating data from a variety of sources to create a comprehensive picture of freight movement among states and major metropolitan areas by all modes of transportation. The spatial component of the FAF network is derived from National Highway System Version 2016.09 and contains state primary and secondary roads, National Highway System (NHS), National Network (NN) and several intermodal connectors as appropriate for the freight network modeling. The network consists of over 440,000 miles of equivalent road mileage. The data set covers the 48 contiguous States plus the District of Columbia, Alaska, and Hawaii.

## **2. Standards Employed:**

The data files collected here are saved in the ubiquitous and common geospatial shapefile (.shp) format. As the files created for this ingest were migrations from the original format in a SQL geodatabase, each data file name includes a date stamp indicating when the data in the shapefile was from. Documentation will include this data management plan, and the metadata and readme files created in 2020. Documentation will also include the shapefiles, data dictionary, and relevant supporting files created alongside the data from 2003-Present.

A Project Open Data Version 1.1 .json metadata file will be created to describe the archival location of this data, and that .json file will be uploaded to data.gov and transportation.data.gov

Necessary software tools: The file formats found in the zip files include: .txt files which can be opened using any text editor; .dbf files, which can be opened with Microsoft Excel; .shapefiles (.shp, .shx, and .dbf) which can be opened with any GIS software program; and, .pdf files which can be opened with PDF readers.

## **3. Access Policies:**

These data files are in the public domain, and can be shared without restriction. The data files contain no sensitive information.

## **4. Re-Use, Redistribution, and Derivative Products Policies:**

These data are managed by the Bureau of Transportation Statistics. The data are in the public domain, and may be re-use without restriction.

Citation of the data is appreciated. Please use the following recommended citation:

U.S. Department of Transportation, Federal Highway Administration; Bureau of Transportation Statistics (BTS) [distributor]. (2020). Freight Analysis Framework Network (FAFN) 2003-Present [datasets]. <https://doi.org/10.21949/1520829>

## **5. Archiving and Preservation Plans:**

The dataset will be archived in the National Transportation Library Repository and Open Science Access Portal (ROSA P). Prior to archiving, the data are stored on the secured BTS networks and drives, which are backed up nightly. The US DOT systems are secured from outside users and backed up daily.

Files in ROSA P are backed up in NTL drives at US DOT, daily; at the Centers for Disease Control, the repository managing facility, daily; and in Amazon Web Service Cloud servers in Virginia and Oregon daily.

The dataset will be retained in perpetuity.

NTL staff will mint persistent Digital Object Identifiers (DOIs) for each dataset stored in ROSA P. These DOIs will be associated with dataset documentation as soon as they become available for use.

The DOIs associated with this dataset include: <https://doi.org/10.21949/1519110>, <https://doi.org/10.21949/1520829>

The assigned DOI resolves to the repository landing page for the “Freight Analysis Framework Network (FAFN) 2003-Present” dataset, so that users may locate associated metadata and supporting files.

ROSA P meets all the criteria outlined on the “Guidelines for Evaluating Repositories for Conformance with the DOT Public Access Plan” page: <https://ntl.bts.gov/publicaccess/evaluatingrepositories.html>

## **6. Policies Affecting this Data Management Plan**

This data management plan was created to meet the requirements enumerated in the U.S. Department of Transportation's "Plan to Increase Public Access to the Results of Federally-Funded Scientific Research" Version 1.1 <<

<https://www.transportation.gov/sites/dot.gov/files/docs/Official%20DOT%20Public%20Access%20Plan%20ver%201.1.pdf> >> and guidelines suggested by the DOT Public Access website <<

<https://ntl.bts.gov/publicaccess/> >>, in effect and current as of April 10, 2019.