

Data Management Plan (DMP) for Hazmat 2006 Dataset
Federal Motor Carrier Safety Administration (FMCSA)
U.S. Department of Transportation (USDOT)
Bureau of Transportation Statistics (BTS)
2021-09-07

Persistent link: <https://doi.org/10.21949/1520830>

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Change log:

2021-09-07: Initial DMP written

2023-09-15: Review and updates

2023-10-16: Updating end year

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0. Dataset and Contact Information

Title of Dataset: Hazmat 2006 Dataset

URL: <https://doi.org/10.21949/1520830>

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

Organizational Contact Information

Name: Hazmat

Institution: Federal Motor Carrier Safety Administration (FMCSA)

Address: 800 Independence Avenue, SW, Washington D.C. 20032

Phone: 301-427-4891

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

1. Data Description:

The Federal Motor Carrier Safety Administration (FMCSA) Hazardous Material Routes were developed using the 2004 First Edition TIGER/Line files. The routes are described in the National Hazardous Material Route Registry (NMHRR). The on-line NMHRR linkage is <http://hazmat.fmcsa.dot.gov/nhmrr/index.asp> With the

exception of 13 features that were not identified with the Tiger/Lines, Hazmat routes were created by extracting the TIGER/Line segments that corresponded to each individual route. Hazmat routes in the NTAD, are organized into 3 database files, hazmat.shp, hmroutes.dbf, and hmstcnty.dbf. Each record in each database represents a unique Tiger/Line segment. These Tiger/Line segments are grouped into routes identified as character strings in the ROUTE_ID field in the hmroutes.dbf table. The route name appearing in the ROUTE_ID is assigned by FMCSA and is unique for each State. The hmstcnty.dbf table allows the user to select routes by State and County. A single shapefile, called hazmat.shp, represents geometry for all routes in the United States.

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 2021.

Documentation will also include the shapefiles, data dictionary, and relevant supporting files created alongside the data from 2006.

A DCAT-US Schema v1.1 .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:

Federal Motor Carrier Safety Administration (FMCSA); U.S. Department of Transportation, Bureau of Transportation Statistics (BTS) [distributor]. (2021). Hazmat 2006 [datasets].

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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/10.21949/1520830>

The assigned DOI resolves to the repository landing page for the “Hazmat 2006” 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 document 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://doi.org/10.21949/1520559> >> and guidelines suggested by the DOT Public Access website << <https://doi.org/10.21949/1503647> >>, in effect and current as of December 03, 2020.