

Data Management Plan (DMP) for HazMat Routes 2006-2016 Dataset

U.S. Department of Transportation (USDOT)

Bureau of Transportation Statistics (BTS)

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Change log:

2021-09-07: Initial DMP written

2025-05-29: Document revised, including data description

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0. Dataset and Contact Information

Title of Dataset: HazMat Routes 2006-2016 Dataset

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

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

Organizational Contact Information

Institution: U.S. Department of Transportation (DOT), Bureau of Transportation Statistics (BTS)

Address: 1200 New Jersey Ave SE, Washington D.C. 20590

Contact: bts@dot.gov

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 HazMat Routes 2006-2016 dataset is from the Bureau of Transportation Statistics (BTS), and is part of the U.S. Department of Transportation (USDOT)/Bureau of Transportation Statistics' (BTS's) National Transportation Atlas Database (NTAD). The Federal Motor Carrier Safety Administration (FMCSA)

periodically publishes the most current National Hazardous Material Route Registry (NHMRR) via a Federal Register Notice (FRN). The NHMRR is the listing of all designated, preferred, and restricted routes provided by states, and tribal governments. The NHMRR does not include routes under Federal entities, except the National Park Service. The NHMRR has three types of routes published in the Registry.

1) Restricted Routes are the routes over which Hazardous Material (HM) shipments cannot be transported. 2) Designated Highway Route Controlled Quantities (HRCQ) / Radioactive Materials (RAM) Routes are mandatory assigned routes for the transportation of highway route-controlled quantities of Class 7 (radioactive) materials and 3) Designated Non-Radioactive Hazardous Materials (NRHM) Routes are mandatory assigned routes for the transportation of nonradioactive hazardous materials.

Although items (a)(2) and (b) of section 5112 of title 49, United States Code (U.S.C.) permit States and Tribal governments to designate and limit highway routes, it is up to the states to choose whether to designate Hazardous Material (HM) routes in the State. Some states may not identify routes to be listed under the NHMRR even though they have restrictions for HAZMAT on certain routes. Therefore, the geospatial representation of the NHMRR is not a comprehensive directory of all the HAZMAT routes across all states across the nation as it may have some missing HM routes.

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 2006-2016.

A Project Open Data Version 1.1 .xml metadata file will be created to describe the archival location of this data, and that .xml 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-used without restriction.

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

U.S. Department of Transportation, Bureau of Transportation Statistics (BTS) [distributor]. HazMat Routes 2006-2016 [datasets]. <https://doi.org/10.21949/1520830>

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 Routes 2006-2016” 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.