

# **Data Management Plan (DMP) for Census TIGERLine Hydrographic Features 2002-2016 Dataset**

U.S. Department of Transportation (USDOT)

Bureau of Transportation Statistics (BTS)

2025-05-29

**Persistent link:** <https://doi.org/10.21949/1520831>

## **Recommended Citation:**

U.S. Department of Transportation (USDOT), Bureau of Transportation Statistics (BTS). Census TIGERLine Hydrographic Features 2002-2016 [datasets]. <https://doi.org/10.21949/1520831>.

## **Change log:**

2021-02-18: Initial DMP written

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

## **CONTENTS**

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

1. Data Description
2. Standards Employed
3. Access Policies
4. Re-Use, Redistribution, and Derivative Products Policies
5. Archiving and Preservation Plans
6. Policies Affecting this Data Management Plan

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

Title of Dataset: Census TIGERLine Hydrographic Features 2002-2016 Dataset

URL: <https://doi.org/10.21949/1520831>

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](mailto: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](mailto:ntad@dot.gov)

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

The Census TIGERLine Hydrographic Features 2002-2016 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 hydro polygon/arc coverages were

created using TIGER/LINE shapefile data gathered from ESRI's Geography Network. The individual county hydrography line shapefiles were processed into Arc/Info coverages and then appended together to create complete state coverages. They were then edited to remove unwanted features, leaving a state-by-state database of both important and navigable water features. Attributes were added to denote navigable features and names. Also, an attribute was added to the polygons to denote which were water and which were land features. The state databases were then appended together to create a single, nationwide hydrography network containing named arcs and polygons. These features also contain a state FIPS. Because some of the hydro features are represented by lines instead of polygons, the complete hydro dataset consists of 2 shapefiles, one for lines and one for polygons. They must be used together to paint a complete picture.

## **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 2002-2016.

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]. Census TIGERLine Hydrographic Features 2002-2016 [datasets]. <https://doi.org/10.21949/1520831>

## **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/10.21949/1520831>

The assigned DOI resolves to the repository landing page for the “Census TIGERLine Hydrographic Features 2002-2016” 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.