

## **README for “Nonattainment Areas 2004-Present” dataset.**

U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards (OAQPS); U.S. Department of Transportation (USDOT), Bureau of Transportation Statistics (BTS) [distributor]  
2021-02-18

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### **LINKS TO DATASET**

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A. Dataset archive link:

<https://doi.org/10.21949/1520833>

B. Dataset documentation link:

<https://doi.org/10.21949/1519145>

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### **SUMMARY OF DATASET**

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The Nonattainment Area datasets are 2004-Present and are from the Environmental Protection Agency (EPA), and part of the U.S. Department of Transportation (USDOT)/Bureau of Transportation Statistics' (BTS') National Transportation Atlas Database (NTAD). This U.S. EPA Office of Air and Radiation (OAR) - Office of Air Quality Planning and Standards (OAQPS) web service contains the following state level layers related to nonattainment areas and designations: Ozone 8-hr (1997 standard), Ozone 8-hr (2008 standard), Lead (2008 standard), SO<sub>2</sub> 1-hr (2010 standard), PM<sub>2.5</sub> 24hr (2006 standard), PM<sub>2.5</sub> Annual (1997 standard), PM<sub>2.5</sub> Annual (2012 standard), and PM<sub>10</sub> (1987 standard). Layers are drawn at all scales.

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## A. GENERAL INFORMATION

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0. Title of Dataset:

Nonattainment Areas 2004-Present [datasets]

1. Description of Dataset:

The Nonattainment Area datasets are 2004-Present and are from the Environmental Protection Agency (EPA), and part of the U.S. Department of Transportation (USDOT)/Bureau of Transportation Statistics' (BTS') National Transportation Atlas Database (NTAD). This U.S. EPA Office of Air and Radiation (OAR) - Office of Air Quality Planning and Standards (OAQPS) web service contains the following state level layers related to nonattainment areas and designations: Ozone 8-hr (1997 standard), Ozone 8-hr (2008 standard), Lead (2008 standard), SO<sub>2</sub> 1-hr (2010 standard), PM<sub>2.5</sub> 24hr (2006 standard), PM<sub>2.5</sub> Annual (1997 standard), PM<sub>2.5</sub> Annual (2012 standard), and PM<sub>10</sub> (1987 standard). Layers are drawn at all scales.

2. Dataset archive link:

<https://doi.org/10.21949/1520833>

3. Authorship Information:

Principal Data Creator or Data Manager Contact Information

Institution: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards (OAQPS)

Address: 109 TW Alexander Dr, Durham, NC 27709

Email: [OIG\\_WEBCOMMENTS@epa.gov](mailto:OIG_WEBCOMMENTS@epa.gov)

Data Distributor Contact Information

Name: National Transportation Atlas Database (NTAD)

Institution: U.S. Department of Transportation, Bureau of Transportation Statistics (BTS), The Office of Spatial Analysis and Visualization (OSAV)

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

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

4. Date of data collection and update interval:

Weekly

5. Geographic location of data collection:

United States of America

6. Information about funding sources that supported the collection of the data:

U.S. Environmental Protection Agency (EPA); Office of Air Quality Planning and Standards (OAQPS)

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## B. SHARING/ACCESS & POLICIES INFORMATION

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0. Recommended citation for the data:

U.S. EPA Office of Air and Radiation (OAR) - Office of Air Quality Planning and Standards (OAQPS) and the Bureau of Transportation Statistics (BTS) [distributor]. (2020). Nonattainment Areas 2004-Present [datasets]. <https://doi.org/10.21949/1520833>

1. Licenses/restrictions placed on the data:

These data are in the Public Domain.

2. Was data derived from another source?:

No.

3. This dataset and its documentation was created and shared to meet the requirements enumerated in the U.S. 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.

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## C. DATA & RELATED FILE OVERVIEW

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### 1. File List for the bts\_NonattainmentArea\_20210218.zip collection

#### A. Filename:

naa\_XXXX.zip

#### Short description:

Compressed file folders containing the geospatial data for Hydrographic Features 2002-Present dataset.

Listed below are the names of the compressed file folders, classified by vintage date:

naa\_2004, naa\_2006, naa\_2013, naa\_2014, naa\_2015

#### B. Filename:

bts\_Nonattainment\_Area\_DMP\_20210218.pdf

#### Short description:

A PDF file containing the Data Management Plan that was created for current and future management of the data and associated files.

#### C. Filename:

bts\_Nonattainment\_Area\_20210218\_README.txt

#### Short description:

The README.txt file that includes human-readable information about the data, variable definitions, contact information, and other contextual information. The file you are reading now.

### 2. File List for the naa\_XXXX.zip collection

#### A. Filename:

CO\_1971NAAQS.shp

#### Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

#### B. Filename:

CO\_1971NAAQS.txt

#### Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

#### C. Filename:

CO\_1990NAAQS.shp

#### Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

D. Filename:

CO\_1990NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

E. Filename:

NO2\_1971NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

F. Filename:

NO2\_1971NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

G. Filename:

NO2\_1990NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

H. Filename:

NO2\_1990NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

I. Filename:

Ozone\_1hr\_1979NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

J. Filename:

Ozone\_1hr\_1979NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

K. Filename:

Ozone\_1hr\_1990NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

L. Filename:

Ozone\_1hr\_1990NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

M. Filename:

Ozone\_8hr\_1997NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

N. Filename:

Ozone\_8hr\_1997NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

O. Filename:

Ozone\_8hr\_2008NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

P. Filename:

Ozone\_8hr\_2008NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

Q. Filename:

Pb\_1978NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

R. Filename:

Pb\_1978NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

S. Filename:

Pb\_2008NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

T. Filename:

Pb\_2008NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

U. Filename:

PM10\_1987NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

V. Filename:

PM10\_1987NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

W. Filename:

PM10\_1990NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

X. Filename:

PM10\_1990NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

Y. Filename:

PM25\_24hr\_2006NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

Z. Filename:

PM25\_24hr\_2006NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

AA. Filename:

PM25\_Annual\_1997NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

BB. Filename:

PM25\_Annual\_1997NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

CC. Filename:

SO2\_1971NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

DD. Filename:

SO2\_1971NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

EE. Filename:

SO2\_1978NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

FF. Filename:

SO2\_1978NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

GG. Filename:

SO2\_2010NAAQS.shp

Short description:

A shapefile containing the geospatial data for Hydrographic Features 2002-Present dataset. This includes associated files with extensions .prj, .dbf, .sbn, .sbx, .shx.

HH. Filename:

SO2\_2010NAAQS.txt

Short description:

A text file containing key metadata and documentation information such as methodology, procedures, data dictionary, etc.

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## **D. METHODOLOGICAL INFORMATION**

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### 1. Description of methods used for collection/generation of data:

A geographic area that meets or does better than the primary standard is called an attainment area; areas that don't meet the primary standard are called nonattainment areas. In some cases, a designated nonattainment area can include portions of 2, 3, or 4 states rather than falling entirely within a single state. Multi-state areas have had different state portions handled through up to 3 separate EPA regional offices. The actions of EPA and the state governments for separate portions of such areas are not always simultaneous. While some areas have had coordinated action from all related states on the same day, other areas (so-called "split areas") have had delays of several months, ranging up to more than 2 years, between different states. EPA must designate areas as meeting (attainment) or not meeting (nonattainment) the standard.

A designation is the term EPA uses to describe the air quality in a given area for any of the six common air pollutants (criteria pollutants). After EPA establishes or revises a primary and/or secondary National Ambient Air Quality Standard (NAAQS), the Clean Air Act requires EPA to designate areas as "attainment" (meeting), "nonattainment" (not meeting), or "unclassifiable" (insufficient data) after monitoring data is collected by state, local and tribal governments. Once nonattainment designations take effect, the state and local governments have three years to develop implementation plans outlining how areas will attain and maintain the standards by reducing air pollutant emissions.

### 2. Instrument- or software-specific information needed to interpret the data:

The data and documentation files can be opened with Esri ArcMap and any GIS software package.

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## **E. DATA-SPECIFIC INFORMATION**

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### 1. XXXXXX data table

Data is updated weekly. Dataset Manager is contacted to verify changes to data resulting in NTAD update. The metadata is updated in the same manner. For the most recent data, please visit the NTAD catalog at <https://data-usdot.opendata.arcgis.com/>

#### A. Number of variables (columns):

The data dictionary found in (PDF documentation) provides definitions for the variables

#### B. Data Dictionary/Variable List:

Because of the large number of variables, please refer to the Data Dictionary found within the file XXXXXX.txt for names, definitions, and formats of variables.

#### C. Missing data codes:

None

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## **F. UPDATE LOG**

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This bts\_Nonattainment\_Area\_20210218\_README.txt file was originally created on 2021-02-18 by Dominic Menegus, Geographer, dominic.menegus@dot.gov

[Note changes or update to the readme.txt file, e.g.:]

2021-02-18: Original file created