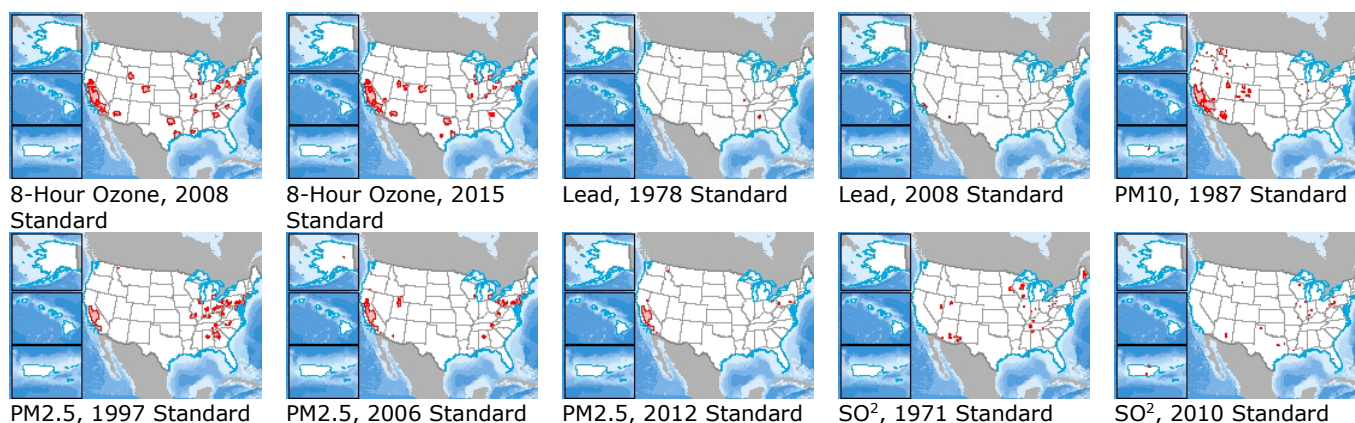


Non-Attainment Areas - National Ambient Air Quality Standard



Tags

non-attainment, National Ambient Air Quality Standard, EPA, environmental protection agency, lead, ozone, PM2.5, PM10, SO₂

Summary

Nonattainment Areas for Criteria Pollutants (Green Book): Areas of the country that meet or violate air quality standards.

The EPA Green Book provides detailed information about area National Ambient Air Quality Standards (NAAQS) designations, classifications and nonattainment status. Information is current as of the Green Book posted date and is available in reports, maps and data downloads. See <https://www.epa.gov/green-book> and <https://www.epa.gov/green-book/green-book-gis-download> for more information.

These metadata are for a set of layers depicting non-attainment areas for different types of pollutants, based on standards at different dates, as follows based on <https://www.epa.gov/green-book/green-book-gis-download> as of 1/16/2024:

Table 1: Shapefiles Developed as Part of the Nonattainment Area Designation Process

NAAQS	Last Update ¹	Shapefile Containing All Designated Nonattainment Areas	External Data Files with Area Status as of Green Book posting ²
8-Hour Ozone (2015 Standard)	02/01/2022	Download (file size ~12.3 MB)	Download
8-Hour Ozone (2008 Standard)	6/13/2012	Download (file size ~8.8 MB)	Download
8-Hour Ozone (1997 Standard-revoked 4/6/2015) ³	9/8/2015	Download (file size ~4.6 MB)	Download
PM-2.5 (2012 Standard)	3/21/2016	Download (file size ~200 KB)	Download
PM-2.5 (2006 Standard)	9/15/2011	Download (file size ~570 KB)	Download
PM-2.5 (1997 Standard)	8/23/2011	Download (file size ~380 KB)	Download
Sulfur Dioxide (2010 Standard) ³	6/30/2021	Download (file size ~970 KB)	Download
Lead (2008 Standard) ³	2/7/2017	Download (file size ~130 KB)	Download

¹ Updates are made to the posted Shapefiles to add or adjust area boundaries or make corrections. The "Last Shapefile Update" date indicates when a shapefile was last modified.

² External Data Files contain the nonattainment/maintenance status and classification at the time of the Green Book posting. External Data Files can be linked to the shapefiles through the composID field in each file and are provided in spreadsheet (xls) and xbase (dbf) formats compressed into one file. Multi-state nonattainment areas are not considered maintenance areas until all states in the area have been redesignated.

³ Not included in GEM.

Table 2: Shapefiles Developed from Part 81 Table Descriptions

NAAQS	Last Shapefile Update ¹	Shapefile Containing All Designated Nonattainment Areas	External Data Files with Area Status as of Green Book posting ²
1-Hour Ozone (1979 Standard-revoked 6/15/2005) Classified areas only ³	12/05/2013	Download (file size ~11 MB)	Download
PM-10 (1987 Standard)	12/05/2013	Download (file size ~1.1 MB)	Download
Sulfur Dioxide (1971 Standard)	12/05/2013	Download (file size ~320 KB)	Download
Lead (1978 Standard)	12/04/2013	Download (file size ~30 KB)	Download
Carbon Monoxide (1971 Standard) ³	12/04/2013	Download (file size ~1.3 MB)	Download
Nitrogen Dioxide (1971 Standard) ³	12/04/2013	Download (file size ~70 KB)	Download

¹ Updates are made to the posted Shapefiles to add or adjust area boundaries. The "Last Shapefile Update" date indicates when a shapefile was last modified.

² External Data Files contain the nonattainment/maintenance status and classification at the time of the Green Book posting. External Data Files can be linked to the shapefiles through the composID field in each file and are provided in spreadsheet (xls) and xbase (dbf) formats compressed into one file. Multi-state nonattainment areas are not considered maintenance areas until all states in the area have been redesignated.

³ Not included in GEM.

Description

Nonattainment Areas for Criteria Pollutants (Green Book): Areas of the country that meet or violate air quality standards.

Credits

Environmental Protection Agency

Use limitations

There are no access and use limitations for this item.

Extent

West -118.942974 **East** -66.656317
North 44.848088 **South** 18.416049

Scale Range

Maximum (zoomed in) 1:50,000
Minimum (zoomed out) 1:20,000,000

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE **climatologyMeteorologyAtmosphere, environment, transportation**
 * CONTENT TYPE **Downloadable Data**
 EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION **No**

Citation

TITLE Non-Attainment Area - National Ambient Air Quality Standard
PUBLICATION DATE 2017-02-07
PRESENTATION FORMATS digital map
OTHER CITATION DETAILS

Publication dates vary depending on the pollutant and the date of the associated standard.

Citation Contacts

RESPONSIBLE PARTY

ORGANIZATION'S NAME Environmental Protection Agency
CONTACT'S ROLE originator

Resource Details

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE vector

PROCESSING ENVIRONMENT Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.2.6.1500

CREDITS

Environmental Protection Agency

Note: Information below this point is based on Lead, 2008 Standard data. The other layers generally follow the same pattern.

ARCGIS ITEM PROPERTIES

* NAME naaqs_nonattainment_lead_08std_170207_v1
* SIZE 0.000
* ACCESS PROTOCOL Local Area Network

Extents

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -118.942974

* EAST LONGITUDE -66.656317

* NORTH LATITUDE 44.848088

* SOUTH LATITUDE 18.416049

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE -13240671.299118

* EAST LONGITUDE -7420147.261541

* SOUTH LATITUDE 2086304.270149

* NORTH LATITUDE 5597637.671291

* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT

ORGANIZATION'S NAME Environmental Protection Agency
CONTACT'S ROLE originator

Resource Maintenance

RESOURCE MAINTENANCE

UPDATE FREQUENCY unknown

Spatial Reference

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
- * PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102100
X ORIGIN -22041258.62706707
Y ORIGIN -33265068.604224768
XY SCALE 135385249.94349548
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.001
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 3857
WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS
["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER
["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER

- VALUE 0
- * CODESPACE EPSG
 - * VERSION 8.8(9.3.1.2)

Spatial Data Properties

VECTOR

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only
- GEOMETRIC OBJECTS
- FEATURE CLASS NAME naaqs_nonattainment_lead_08std_170207_v1
- * OBJECT TYPE composite

ARCGIS FEATURE CLASS PROPERTIES

- FEATURE CLASS NAME naaqs_nonattainment_lead_08std_170207_v1
- * FEATURE TYPE Simple
 - * GEOMETRY TYPE Polygon
 - * HAS TOPOLOGY FALSE
 - * FEATURE COUNT 22
 - * SPATIAL INDEX TRUE
 - * LINEAR REFERENCING FALSE

Distribution

DISTRIBUTOR

- AVAILABLE FORMAT
- NAME Shapefile

Fields

DETAILS FOR OBJECT `naaqs_nonattainment_lead_08std_170207_v1`

- * TYPE Feature Class
- * ROW COUNT 22

DEFINITION

2008 Lead NAAQS Nonattainment Areas

DEFINITION SOURCE

EPA OAQPS

FIELD `OBJECTID`

- * ALIAS `OBJECTID`
- * DATA TYPE `OID`
- * WIDTH 4
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Internal feature number.

- * DESCRIPTION SOURCE
Esri

- * DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

FIELD `Shape`

- * ALIAS `Shape`
- * DATA TYPE `Geometry`
- * WIDTH 0
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Feature geometry.

DESCRIPTION SOURCE

ESRI

DESCRIPTION OF VALUES

Coordinates defining the features.

FIELD `COMPOSID`

- * ALIAS `Composite ID`
- * DATA TYPE `String`
- * WIDTH 50
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

A unique ID associated with the nonattainment or maintenance area for a specific pollutant standard. The Composid format includes the pollutant, year of the standard, and a short areaname indicator.

DESCRIPTION SOURCE

Geographic Strategies Group

FIELD STATE

- * ALIAS State
- * DATA TYPE String
- * WIDTH 2
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

State Abbreviation for States containing nonattainment area

DESCRIPTION SOURCE

ESRI

FIELD NAME

- * ALIAS Name
- * DATA TYPE String
- * WIDTH 20
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Nonattainment Area county name(s)

FIELD AREA_NAME

- * ALIAS Area Name
- * DATA TYPE String
- * WIDTH 150
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

2008 Lead NAAQS Nonattainment Area Names

DESCRIPTION SOURCE

Bureau of the Census - 2000 Census Municipal Boundaries,
CAL-Atlas Geospatial Clearinghouse - ARB basins districts counties,
ESRI - 2008 Detailed County Boundaries,
Illinois Environmental Protection Agency - 2009 Municipalities in Illinois,
MapInfo Streetworks - 1996,
Missouri Department of Natural Resources (MoDNR),
Division of Geology and Land Survey (DGLS) - Public Land Survey,
Ohio Department of Transportation - Townships,
Pennsylvania Department of Transportation - 2004 Pennsylvania Municipality Boundaries

FIELD Shape_Length

- * ALIAS Shape_Length
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

* FIELD DESCRIPTION

Length of feature in internal units.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

FIELD Shape_Area

- * ALIAS Shape_Area
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Area of feature in internal units squared.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

OVERVIEW DESCRIPTION

ENTITY AND ATTRIBUTE OVERVIEW

2008 Lead NAAQS Nonattainment Areas-2010 designations

ENTITY AND ATTRIBUTE DETAIL CITATION

EPA OAQPS

Metadata Details

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME dataset

LAST UPDATE 2011-03-02

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2024-01-10

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-01-16

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-01-16

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2015-01-27

FROM L:\SOFTWARE\ARCMAP\Pollutants\Pb_NAA_2008

TO \\dhm-fs1\library\SOFTWARE\ARCMAP\Pollutants\PB_2008\Pb_NAA_2008Copy

Metadata Contacts

METADATA CONTACT

ORGANIZATION'S NAME Environmental Protection Agency

CONTACT'S ROLE originator

Metadata Maintenance

MAINTENANCE

UPDATE FREQUENCY unknown