Metadata for Other Populated Areas

Version 6 (Derived from 2020 Census / 2024 TIGER/Line Geodatabases)

Metadata:

 Identification_Information:

  Citation:

   Citation_Information:

    Originator: U.S. Department of Transportation (DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA)

    Publication_Date: 20250430

    Title: OPA_V6

    Edition: 2025

    Geospatial_Data_Presentation_Form: vector digital data

    Online_Linkage: http://www2.census.gov/geo/tiger/TIGER2017/PLACE/tl_2017_08_place.zip

  Description:

    Abstract: Other Populated Areas (OPAs) are considered High Consequence Areas (HCAs) as defined in 49 CFR § 195.450. The OPA data is derived from the U.S. Census Bureau's TIGER Census-Designated Places (CDP) and Incorporated Places geospatial data layers, which were downloaded from the Census website. After merging the CDP and Incorporated Places layers, any portions of polygons overlapped by Census Urban Areas (High Population Areas) data were erased from the data layer using the Esri ArcGIS ERASE command since those areas are included as part of the High Population Areas dataset. The resultant data layer represents the Other Populated Areas data layer. OPAs are all CDP/Incorporated Places that lie outside of the boundaries of Census Urban Areas that contain 50,000 or more people with a population density of at least 1,000 people per square mile. Depending on the version, the metadata is included as an .XML file within the downloadable Esri Shapefile or as an independent link. Shapefile available for public download from www.npms.phmsa.dot.gov.Version: 6 (Derived from U.S. Census 2024 National Sub-state Geography Geodatabase)Census Places (Source Data): The TIGER/Line shapefiles and related database files (.dbf) are an extract of selected geographic and cartographic information from the U.S. Census Bureau's Master Address File / Topologically Integrated Geographic Encoding and Referencing (MAF/TIGER) Database (MTDB). The MTDB represents a seamless national file with no overlaps or gaps between parts, however, each TIGER/Line shapefile is designed to stand alone as an independent data set, or they can be combined to cover the entire nation. The TIGER/Line shapefiles include both incorporated places (legal entities) and census designated places or CDPs

(statistical entities). Incorporated places are those reported to the Census Bureau as legally in existence as of January 1, 2022, under the laws of their respective states. An incorporated place provides governmental functions for a concentration of people. Incorporated places may extend across county and county subdivision boundaries, but never across state boundaries. An incorporated place usually is a city, town, village, or borough, but can have other legal descriptions. CDPs are the statistical counterparts of incorporated places. CDPs are settled concentrations of population that are identifiable by name but not legally incorporated under the laws of the state in which the CDPs are located. The Census Bureau defines CDP boundaries in cooperation with local partners as part of the PSAP. CDP boundaries usually coincide with visible features or the boundary of an adjacent Incorporated Place or another legal entity boundary. CDPs have no legal status and do not have officials elected to serve traditional municipal functions. CDP boundaries may change from one decennial census to the next with changes in the settlement pattern; a CDP with the same name as in an earlier census does not necessarily have the same boundary. There are no population size requirements for CDPs. In the nine states of the Northeast (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont) as well as Michigan, Minnesota, and Wisconsin, a CDP may represent a densely settled concentration of population within a town or township; in other instances, a CDP represents an entire town or township. All places shown in data products for Hawaii are CDPs. The Census Bureau (in an agreement with Hawaii) does not show data separately for the city of Honolulu (coextensive with Honolulu County). Puerto Rico only has CDPs, which are comunidades or zonas urbanas. Guam and the Commonwealth of the Northern Mariana Islands also have only CDPs. The boundaries of most incorporated places in this shapefile are as of January 1, 2022, as reported through the Census Bureau's Boundary and Annexation Survey (BAS). In order for others to use the information in the Census MAF/TIGER database in a geographic information system (GIS) or for other geographic applications, the Census Bureau releases to the public extracts of the database in the form of TIGER/Line Shapefiles.HCAs are defined in 49 CFR § 195.450. This dataset is one resource available to assist operators with identifying locations that meet the regulatory definition of an HCA. If a location meets the regulatory definition of an HCA but it is not mapped in the HCA data currently available from PHMSA, that location is still an HCA. Operators must continually assess the locations in which their lines are located, to include reference to NPMS as one avenue to obtain data but not the sole avenue, to determine if they are in or could affect an HCA.

Purpose: An Other Populated Area (OPA) is defined in 49 CFR 195.450 as a place, as defined and delineated by the Census Bureau, that contains a concentrated population, such as an incorporated or unincorporated city, town, village, or other designated residential or commercial area. OPAs are one type of High Consequence Area (HCA) used by pipeline operators for integrity management purposes. Available for public download from www.npms.phmsa.dot.gov.

Supplemental_Information: The Other Populated Areas (OPA) data is derived from the U.S. Census Bureau's TIGER Census-Designated Places (CDP)/Incorporated Places data layers, which was downloaded from the Census website. After merging the CDP and Incorporated Places layers, any portions of polygons overlapped by Census Urban Areas (High Population Areas) data were erased from the data layer using the Esri ArcGIS ERASE command since those areas are included as part of the High Population Areas dataset. The resultant data layer represents the Other Populated Areas data layer. OPAs are all CDP/Incorporated Places that lie outside of the boundaries of Census Urban Areas that contain 50,000 or more people with a population density of at least 1,000 people per square mile.

Time_Period_of_Content:

 Time_Period_Information:

  Range_of_Dates/Times:

   Beginning_Date: 20240101

   Currentness_Reference: Other Populated Areas data is updated every two years (if necessary) and immediately upon release of updated Census Data.

 Status:

  Progress: Complete

  Maintenance_and_Update_Frequency: Biannually

 Spatial_Domain:

  Bounding_Coordinates:

   West_Bounding_Coordinate: -176.696692

   East_Bounding_Coordinate: 174.156022

   North_Bounding_Coordinate: 71.340186

   South_Bounding_Coordinate: -14.419950

 Keywords:

  Theme:

   Theme_Keyword_Thesaurus: ISO 19115 Topic Categories

   Theme_Keyword: boundaries

  Theme:

   Theme_Keyword_Thesaurus: None

   Theme_Keyword: Other Populated Area

   Theme_Keyword: OPA

   Theme_Keyword: PHMSA

   Theme_Keyword: boundaries

   Theme_Keyword: nation

   Theme_Keyword: United States

   Theme_Keyword: Polygon

   Theme_Keyword: City

Theme_Keyword: Village

Theme_Keyword: Town

Theme_Keyword: Census Designated Place

Theme_Keyword: Census Incorporated Place

Theme_Keyword: Polygon

Theme_Keyword: National

Theme_Keyword: United States

Theme_Keyword: boundaries

Access_Constraints: None

Use_Constraints: The TIGER/Line Shapefile products are not copyrighted however TIGER/Line and Census TIGER are registered trademarks of the U.S. Census Bureau. These products are free to use in a derived record or publication, however acknowledgement must be given to the U.S. Census Bureau as the source. The boundary information in the TIGER/Line Shapefiles are for statistical data collection and tabulation purposes only; their depiction and designation for statistical purposes does not constitute a determination of jurisdictional authority or rights of ownership or entitlement and they are not legal land descriptions. Coordinates in the TIGER/Line shapefiles have six implied decimal places, but the positional accuracy of these coordinates is not as great as the six decimal places suggest.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Contact_Person: Nathaniel Thompson

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing

Address: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, East Building, 2nd floor, 1200 New Jersey Ave., SE

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Country: US

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Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Contact_Person: Leigha Gooding

Contact_Position: GIS Manager

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Contact_Electronic_Mail_Address: geo.geography@census.gov

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

Contact_Person: Nathaniel Thompson

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Data_Set_Credit: Pipeline and Hazardous Materials Safety Administration (PHMSA); U.S. Census Bureau

Native_Data_Set_Environment: Esri ArcGIS 13.3.2.52636

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

Census attributes are accurate against National Standard Codes, Federal Information Processing (FIPS) and the Geographic Names Information System (GNIS) at the 100% level for the codes and base names. The remaining attribute information has been examined but has not been fully tested for accuracy.

NPMS added fields related to OPA attributes.

Quantitative_Attribute_Accuracy_Assessment:

Attribute_Accuracy_Explanation: For more information view the TIGER/Line Technical Documentation at https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html or contact PHMSA/NPMS.

Logical_Consistency_Report: The Census Bureau performed automated tests to ensure logical consistency and limits of shapefiles. Segments making up the outer and inner boundaries of a polygon tie end-to-end to completely enclose the area. All polygons are tested for closure. The Census Bureau uses its internally developed geographic update system to enhance and modify spatial and attribute data in the Census MAF/TIGER database. Standard geographic codes, such as FIPS codes for states, counties, municipalities, county subdivisions, places, American Indian/Alaska Native/Native Hawaiian areas, and congressional districts are used when encoding spatial entities. The Census Bureau performed spatial data tests for logical consistency of the codes during the compilation of the original Census MAF/TIGER database files. Most of the codes for geographic entities except states, counties, urban areas, Core Based Statistical Areas (CBSAs), American Indian Areas (AIAs), and congressional districts were provided to the Census Bureau by the USGS, the agency responsible for maintaining the

Geographic Names Information System (GNIS). Feature attribute information has been examined but has not been fully tested for consistency. For the TIGER/Line Shapefiles, the Point and Vector Object Count for the G-polygon SDTS Point and Vector Object Type reflects the number of records in the shapefile attribute table. For multi-polygon features, only one attribute record exists for each multi-polygon rather than one attribute record per individual G-polygon component of the multi-polygon feature. TIGER/Line Shapefile multi-polygons are an exception to the G-polygon object type classification. Therefore, when multi-polygons exist in a shapefile, the object count will be less than the actual number of G-polygons.

Completeness_Report: Data completeness of the TIGER/Line Shapefiles reflects the contents of the Census MAF/TIGER database at the time the TIGER/Line Shapefiles were created.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. Department of Commerce, U.S. Census Bureau, Geography Division

Publication_Date: unpublished material

Title: Census MAF/TIGER database

Type_of_Source_Media: onLine

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 20160601

Ending_Date: 20170501

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: MAF/TIGER

Source_Contribution: All line segments

Process_Step:

Process_Description:

TIGER/Line Shapefiles are extracted from the Census MAF/TIGER database by nation, state, county, and entity. Census MAF/TIGER data for all of the aforementioned geographic entities are then distributed among the shapefiles each containing attributes for line, polygon, or landmark geographic data.

After merging the CDP and Incorporated Places layers, Census Urban Areas (High Population Areas) were erased from the data layer using the Esri ArcGIS ERASE command. The resultant data layer represents the "Other Populated Areas" data layer. Other Populated Areas are all CDP/Incorporated Places that lie outside of the boundaries of Census Urban Areas containing 50,000 or more people with a population density of at least 1,000 people per square mile.

Process_Date: 20170101

Spatial_Data_Organization_Information:

Indirect_Spatial_Reference: Federal Information Processing Series (FIPS), Geographic Names Information System (GNIS), and feature names.

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains

Point_and_Vector_Object_Count: 47113

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: OPA_V6

Entity_Type_Definition: Current Place State-based

Entity_Type_Definition_Source: U.S. Census Bureau

Attribute:

Attribute_Label: OBJECTID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: PLACENS

Attribute_Definition: Current place GNIS code

Attribute_Definition_Source: U.S. Census Bureau

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: INCITS 446:2008 (Geographic Names Information System (GNIS)), Identifying Attributes for Named Physical and Cultural Geographic Features (Except Roads and Highways) of the United States, Its Territories, Outlying Areas, and Freely Associated Areas, and the Waters of the Same to the Limit of the Twelve-Mile Statutory Zone

Codeset_Source: U.S. Geological Survey (USGS)

Attribute:

Attribute_Label: GEOID

Attribute_Definition: Place identifier; a concatenation of Current state FIPS code and place FIPS code

Attribute_Definition_Source: U.S. Census Bureau

Attribute_Domain_Values:

Unrepresentable_Domain: The GEOID attribute is a concatenation of: a) the state FIPS code, and b) the place FIPS code. No spaces are allowed between the two codes. The State FIPS code is taken from "National Standard Codes (ANSI INCITS 38-2009), Federal Information Processing Series(FIPS) - States". The place FIPS code is taken from FederalInformation Processing Series Census Codes for Named Populated Places, Primary County Divisions, and other Locational Entities of the United States, Puerto Rico, and the Island Areas (Formerly FIPS 55-3)

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: Shape_Length

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: Shape_Area

Attribute_Definition: Area of feature in internal units squared.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: OPA_NAME

Attribute_Definition: The name of the OPA. Also the name of the Census Designate Place/ Incorporated Place as determined by the U.S. Census.

Attribute_Definition_Source: U.S. Census

Attribute_Domain_Values:

Unrepresentable_Domain: Place name as determined by the U.S. Census

Attribute:

Attribute_Label: DATA_YEAR

Attribute_Definition: The year the dataset was updated/ made available to the public (the year of the TIGER/line data)

Attribute_Definition_Source: U.S. Census

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Year

Enumerated_Domain_Value_Definition: Calendar year that the data was updated/ made available

Enumerated_Domain_Value_Definition_Source: PHMSA

Attribute:

Attribute_Label: HCA_TYPE

Attribute_Definition: The type of High Consequence Area (HCA) that the data represents

Attribute_Definition_Source: PHMSA

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: OPA

Enumerated_Domain_Value_Definition: Other Populated Area

Enumerated_Domain_Value_Definition_Source: PHMSA

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Department of Commerce, U.S. Census Bureau, Geography Division, Spatial Data Collection and Products Branch

Contact_Address:

Address_Type: mailing

Address: 4600 Silver Hill Road, Stop 7400

City: Washington

State_or_Province: DC

Postal_Code: 20233-7400

Country: US

Contact_Voice_Telephone: 301-763-1128

Contact_Facsimile_Telephone: 301-763-4710

Contact_Electronic_Mail_Address: geo.geography@census.gov

Distribution_Liability: No warranty, expressed or implied is made with regard to the accuracy of these data, and no liability is assumed by the U.S. Government in general or the U.S. Census Bureau in specific as to the spatial or attribute accuracy of the data. The act of distribution shall not constitute any such warranty and no responsibility is assumed by the U.S. government in the use of these files. The boundary information in the TIGER/Line Shapefiles is for statistical data collection and tabulation purposes only; their depiction and designation for statistical purposes do not constitute a determination of jurisdictional authority or rights of ownership or entitlement and they are not legal land descriptions.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: TGRSHP (compressed)

File_Decompression_Technique: PK-ZIP, version 1.93 A or higher

Digital_Transfer_Option:

Online_Option:

  Computer_Contact_Information:

   Network_Address:

    Network_Resource_Name: http://www2.census.gov/geo/tiger/TIGER2017/PLACE/tl_2017_08_place.zip

   Fees: The online copy of the TIGER/Line Shapefiles may be accessed without charge.

   Ordering_Instructions: To obtain more information about ordering TIGER/Line Shapefiles visit http://www.census.gov/geo/www/tiger

  Technical_Prerequisites: The TIGER/Line shapefiles contain geographic data only and do not include display mapping software or statistical data. For information on how to use the TIGER/Line shapefile data with specific software package users shall contact the company that produced the software.

 Distribution_Information:

 Distributor:

  Contact_Information:

   Contact_Organization_Primary:

    Contact_Organization: U.S. Department of Transportation (DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA)

   Contact_Address:

    Address_Type: mailing and physical

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 Metadata_Reference_Information:

 Metadata_Date: 20250415

Metadata_Contact:

  Contact_Information:

    Contact_Organization_Primary:

      Contact_Organization: U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

      Contact_Person: Nathaniel Thompson

    Contact_Position: GIS Coordinator

    Contact_Address:

      Address_Type: mailing

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      State_or_Province: DC

      Postal_Code: 20590

      Country: US

    Contact_Voice_Telephone: 202-843-3818

    Contact_Electronic_Mail_Address: nathaniel.thompson@dot.gov

  Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata

  Metadata_Standard_Version: FGDC-STD-001-1998

  Metadata_Time_Convention: local time