

Identification_Information:

Citation:

Citation_Information:

Originator:

U.S. Department of Commerce

U.S. Census Bureau

Geography Division

Publication_Date: 2001

Title: TIGER/Line Files, Census 2000

Edition: Census 2000

Series_Information:

Series_Name: TIGER/Line Files

Issue_Identification: Version (MMYY) represents the month and year file created

Publication_Information:

Publication_Place: Washington, DC

Publisher:

U.S. Department of Commerce

U.S. Census Bureau

Geography Division

Description:

Abstract:

TIGER, TIGER/Line, and Census TIGER are registered trademarks of the U.S. Census Bureau. ZCTA is a trademark of the U.S. Census Bureau. The Census 2000 TIGER/Line files are an extract of selected geographic and cartographic information from the Census TIGER data base. The geographic coverage for a single TIGER/Line file is a county or statistical equivalent entity, with the coverage area based on January 1, 2000 legal boundaries. A complete set of Census 2000 TIGER/Line files includes all counties and statistically equivalent entities in the United States, Puerto Rico, and the Island Areas. The Census TIGER data base represents a seamless national file with no overlaps or gaps between parts. However, each county-based TIGER/Line file is designed to stand alone as an independent data set or the files can be combined to cover the whole Nation. The Census 2000 TIGER/Line files consist of line segments representing physical features and governmental and statistical boundaries. The boundary information in the TIGER/Line files 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. The Census 2000 TIGER/Line files do NOT contain the Census 2000 urban areas which have not yet been delineated. The files contain information distributed over a series of record types for the spatial objects of a county. There are 17 record types, including the basic data record, the shape coordinate points, and geographic codes that can be used with appropriate software to prepare maps. Other geographic information contained in the files includes attributes such as feature identifiers/census feature class codes (CFCC) used to differentiate feature types, address ranges and ZIP Codes, codes for legal and statistical entities, latitude/longitude coordinates of linear and point features, landmark point features, area landmarks, key geographic features, and area boundaries. The Census 2000 TIGER/Line data dictionary contains a complete list of all the fields in the 17 record types.

Purpose:

In order for others to use the information in the Census TIGER data base in a geographic information system (GIS) or for other geographic applications, the Census Bureau releases to the public extracts of the data base in the form of TIGER/Line files. Various versions of

the TIGER/Line files have been released; previous versions include the 1990 Census TIGER/Line files, the 1992 TIGER/Line files, the 1994 TIGER/Line files, the 1995 TIGER/Line files, the 1997 TIGER/Line files, the 1998 TIGER/Line files, the 1999 TIGER/Line files, and the Redistricting Census 2000 TIGER/Line files.

Supplemental_Information:

To find out more about TIGER/Line files and other Census TIGER data base derived data sets visit <http://www.census.gov/geo/www/tiger>.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2000

Currentness_Reference: 2000

Status:

Progress: Complete

Maintenance_and_Update_Frequency:

TIGER/Line files are extracted from the Census TIGER data base when needed for geographic programs required to support the census and survey programs of the U.S. Census Bureau. No changes or updates will be made to the Census 2000 TIGER/Line files. Future releases of TIGER/Line files will reflect updates made to the Census TIGER data base and will be released under a version numbering system based on the month and year the data is extracted.

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: +131.000000

East_Bounding_Coordinate: -64.000000

North_Bounding_Coordinate: +72.000000

South_Bounding_Coordinate: -15.000000

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Line Feature

Theme_Keyword: Feature Identifier

Theme_Keyword: Census Feature Class Code (CFCC)

Theme_Keyword: Address Range

Theme_Keyword: Geographic Entity

Theme_Keyword: Point/Node

Theme_Keyword: Landmark Feature

Theme_Keyword: Political Boundary

Theme_Keyword: Statistical Boundary

Theme_Keyword: Legal Entity

Theme_Keyword: Statistical Entity

Theme_Keyword: Polygon

Theme_Keyword: County and Statistical Equivalents

Theme_Keyword: TIGER/Line

Theme_Keyword: Topology

Theme_Keyword: Street Centerline

Theme_Keyword: Latitude/Longitude

Theme_Keyword: ZCTA

Theme_Keyword: ZIP Code Tabulation Area

Theme_Keyword: Vector

Theme_Keyword: TIGER/Line Identification Number (TLID)

Theme_Keyword: Street Segment

Theme_Keyword: Coordinate

Theme_Keyword: Boundary

Place:

Place_Keyword_Thesaurus:

FIPS Publication 6-4

FIPS Publication 55

Place_Keyword: United States

Place_Keyword: Puerto Rico

Place_Keyword: County

Access_Constraints: None

Use_Constraints:

None. Acknowledgment of the U.S. Census Bureau would be appreciated for products derived from these files. TIGER, TIGER/Line, and Census TIGER are registered trademarks of the U.S. Census Bureau. ZCTA is a trademark of the U.S. Census Bureau.

Native_Data_Set_Environment:

TIGER/Line files are created and processed in a VMS environment. The environment consists of two Alpha Server 8400s clustered together running OpenVMS version 6.2-1H3 used for production operations. The Census TIGER system is driven by DEC Command language (DCL) procedures which invoke C software routines to extract selected geographic and cartographic information (TIGER/Line files) from the operational Census TIGER data base.

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

Accurate against Federal information Processing Standards (FIPS), FIPS Publication 6-4, and FIPS-55 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.

Logical_Consistency_Report:

The feature network of lines (as represented by Record Types 1 and 2) is complete for census purposes. Spatial objects in TIGER/Line belong to the "Geometry and Topology" (GT) class of objects in the "Spatial Data Transfer Standard" (SDTS) FIPS Publication 173 and are topologically valid. Node/geometry and topology (GT)-polygon/chain relationships are collected or generated to satisfy topological edit requirements. These requirements include:

- * Complete chains must begin and end at nodes.
- * Complete chains must connect to each other at nodes.
- * Complete chains do not extend through nodes.
- * Left and right GT-polygons are defined for each complete chain element and are consistent throughout the extract process.
- * The chains representing the limits of the files are free of gaps.

The Census Bureau performed automated tests to ensure logical consistency and limits of files. 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 TIGER data base. Standard geographic codes, such as FIPS codes for states, counties, municipalities, and places, 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 TIGER data base files. Most of the Codes themselves were provided to the Census Bureau by the USGS, the agency responsible for maintaining FIPS 55. Feature attribute information has been examined but has not been fully tested for consistency.

Completeness_Report:

Data completeness of the TIGER/Line files reflects the contents of the Census TIGER data base at the time the TIGER/Line files (Census 2000 version) were created.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The information present in these files is provided for the purposes of statistical analysis and census operations only. Coordinates in the TIGER/Line files have six implied decimal places, but

the positional accuracy of these coordinates is not as great as the six decimal places suggest. The positional accuracy varies with the source materials used, but generally the information is no better than the established national map Accuracy standards for 1:100,000-scale maps from the U.S. Geological Survey (USGS); thus it is NOT suitable for high-precision measurement applications such as engineering problems, property transfers, or other uses that might require highly accurate measurements of the earth's surface. The USGS 1:100,000-scale maps met national map accuracy standards and use coordinates defined by the North American Datum, 1983. For the contiguous 48 States, the cartographic fidelity of most of the Census 2000 TIGER/Line files, in areas outside the 1980 census Geographic Base File/Dual Independent map Encoding (GBF/DIME) file coverage and selected other large metropolitan areas, compare favorably with the USGS 1:100,000-scale maps. The Census Bureau cannot specify the accuracy of features inside of what was the 1980 GBF/DIME-File coverage or selected metropolitan areas. The Census Bureau added updates to the TIGER/Line files that enumerators annotated on maps sheets prepared from the Census TIGER data base as they attempted to traverse every street feature shown on the Census 2000 map sheets; the Census Bureau also made other corrections from updated map sheets supplied by local participants for Census Bureau programs. The locational accuracy of these updates is of unknown quality. In addition to the Federal, State, and local sources, portions of the files may contain information obtained in part from maps and other materials prepared by private companies. Despite the fact the TIGER/Line data positional accuracy is not as high as the coordinate values imply, the six-decimal place precision is useful when producing maps. The precision allows features that are next to each other on the ground to be placed in the correct position, on the map, relative to each other, without overlap.

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 TIGER data base

Edition: Census 2000

Type_of_Source_Media: On line

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2000

Source_Currentness_Reference: Date the file was made available to create TIGER/Line File extracts.

Source_Citation_Abbreviation: TIGER

Source_Contribution:

Selected geographic and cartographic information (line segments) from the Census TIGER data base.

Process_Step:

Process_Description:

In order for others to use the information in the Census TIGER data base in a GIS or for other geographic applications, the Census Bureau releases periodic extracts of selected information from the Census TIGER data base, organized as topologically

consistent networks. Software (TIGER DB routines) written by the Geography Division allows for efficient access to Census TIGER system data. TIGER/Line files are extracted from the Census TIGER data base by county or statistical equivalent area. Census TIGER data for a given county or statistical equivalent area is then distributed among 17 fixed length record ASCII files, each one containing attributes for either line, polygon, or landmark geographic data types. The Census Bureau has released various versions of the TIGER/Line files since 1988, with each version having more updates (feature and feature names, address ranges and ZIP Codes, coordinate updates, revised field definitions, etc.) than the previous version.

Source_Used_Citation_Abbreviation: Census TIGER data base

Process_Date: 2000

Spatial_Data_Organization_Information:

Indirect_Spatial_Reference:

Federal Information Processing Standards (FIPS) and feature names and addresses.

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Node, network

Point_and_Vector_Object_Count: 570 to 56,000

SDTS_Point_and_Vector_Object_Type: Entity point

SDTS_Point_and_Vector_Object_Type: Complete chain

Point_and_Vector_Object_Count: 790 to 83,000

SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains

Point_and_Vector_Object_Count: 290 to 33,000

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000458

Longitude_Resolution: 0.000458

Geographic_Coordinate_Units: Decimal degrees

Entity_and_Attribute_Information:

Overview_Description:

Entity_and_Attribute_Overview:

The TIGER/Line files contain data describing three major types of features/entities;

Line Features -

- 1) Roads
- 2) Railroads
- 3) Hydrography
- 4) Miscellaneous transportation features and selected power lines and pipe lines
- 5) Political and statistical boundaries

Landmark Features -

- 1) Point landmarks, e.g., schools and churches.
- 2) Area landmarks, e.g., Parks and cemeteries.
- 3) Key geographic locations (KGLs), e.g., shopping centers and factories.

Polygon features -

- 1) Geographic entity codes for areas used to tabulate the Census 2000 census statistical data and 1990 geographic areas
- 2) Locations of area landmarks
- 3) Locations of KGLs

The line features and polygon information form the majority of data in the TIGER/Line files. Some of the data/attributes

describing the lines include coordinates, feature identifiers (names), CFCCs (used to identify the most noticeable characteristic of a feature), address ranges, and geographic entity codes. The TIGER/Line files contain point and area labels that describe landmark features and provide locational reference. Area landmarks consist of a feature name or label and feature type assigned to a polygon or group of polygons. Landmarks may overlap or refer to the same set of polygons. The Census TIGER data base uses collections of spatial objects (points, lines, and polygons) to model or describe real-world geography. The Census Bureau uses these spatial objects to represent features such as streets, rivers, and political boundaries and assigns attributes to these features to identify and describe specific features such as the 500 block of Market Street in Philadelphia, Pennsylvania.

Entity_and_Attribute_Detail_Citation:

U.S. Census Bureau, TIGER/Line files, Census 2000 Technical Documentation. The TIGER/Line documentation defines the terms and definitions used within the files.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

U.S. Department of Commerce
U.S. Census Bureau
Geography Division
Products and Services Staff

Contact_Address:

Address_Type: Physical address
Address: 8903 Presidential Parkway, Room 303 WP I
City: Upper Marlboro
State_or_Province: Maryland
Postal_Code: 20772

Contact_Voice_Telephone: (301) 457-1128

Contact_Address:

Address_Type: Mailing address
Address: 4700 Silver Hill Road, Stop 7400
City: Washington
State_or_Province: District of Columbia
Postal_Code: 20233-7400

Contact_Voice_Telephone: (301) 457-1128

Contact_Facsimile_Telephone:

(301) 457-4710

Contact_Electronic_Mail_Address: geo.tiger@census.gov

Resource_Description: Census 2000 TIGER/Line Files

Distribution_Liability:

No warranty, expressed or implied is made and no liability is assumed by the U.S. Government in general or the U.S. Census Bureau in specific as to the positional 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.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: TGRLN (compressed)
Format_Version_Number: Census 2000
Format_Version_Date: 2000
File-Decompression_Technique: PK-ZIP, version 1.93A or higher

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: www.census.gov/geo/www/tiger

Fees:

The online copy of the TIGER/Line files may be accessed without charge. See <http://www.census.gov/geo/www/tiger> for information on availability on CD-ROM/DVD and associated costs for these products.

Ordering_Instructions:

To obtain more information about ordering TIGER/Line files visit <http://www.census.gov/geo/www/tiger>.

Technical_Prequisites: The Census 2000 TIGER/Line files contain geographic data only and do not include display or mapping software or statistical data. For information on how to use the TIGER/Line data with a specific software package users should contact the company that produced the software. A list of vendors who have developed software capable of processing TIGER/Line files can be found by visiting <http://www.census.gov/geo/www/tiger>. The TIGER/Line files are provided in ASCII text format only. Users are responsible for converting or translating the files into a format used by their specific software package.

Metadata_Reference_Information:

Metadata_Date: 2000

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

U.S. Department of Commerce

U.S. Census Bureau

Geography Division

Products and Services Staff

Contact_Address:

Address_Type: Physical Address

Address: 8903 Presidential Parkway, Room 303 WP I

City: Upper Marlboro

State_or_Province: Maryland

Postal_Code: 20772

Contact_Voice_Telephone: (301) 457-1128

Contact_Electronic_Mail_Address: geo.tiger@census.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: 19940608