MS County Roads 2010

Shapefile

Thumbnail Not Available

Tags

roads, TIGER

Summary

Statewide County Roads extracted from the US Census Bureau 2010 TIGER Line files. MARIS coded all TIGER roads based on US Census' Bureau's MTFCC attribute along with the MS Department of Transportation County Highway maps (2006-2010) as follows: 1 - Interstates, 2 - US Highways, 3 - MS Highways 1- 99 , 4 - MS Highways 100 - 999, 5 - Natchez Trace, 6 - County Roads, 8 - Trails . MARIS also distinguished between city streets and county roads by running an IDENTITY command with the TIGER 2010 City boundaries layer. Those county roads inside city limits were then coded as Class = 7.

NOTE: This dataset should be used in conjunction with DESIGNATED HIGHWAYS and STREETS_TRAILS10 data sets to form a complete road network. Also note this dataset does NOT include address range data. For geocoding, use TIG_RDS_W_ADDR10 dataset.

Description

The TIGER/Line Files are shapefiles and related database files (.dbf) that 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 File is designed to stand alone as an independent data set, or they can be combined to cover the entire nation. The All Roads Shapefile includes all features within the MTDB Super Class "Road/Path Features" distinguished where the MAF/TIGER Feature Classification Code (MTFCC) for the feature in MTDB that begins with "S". This includes all primary, secondary, local neighborhood, and rural roads, city streets, vehicular trails (4wd), ramps, service drives, alleys, parking lot roads, private roads for service vehicles (logging, oil fields, ranches, etc.), bike paths or trails, bridle/horse paths, walkways/pedestrian trails, and stairways

Credits

U.S. Department of Commerce, U.S. Census Bureau, Geography Division, MARIS, MS Department of Transportation. Note: Please see .shp.xml for complete metadata from US Census Bureau.

Access and use limitations

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.

ArcGIS Metadata ►

Resource Identification ►

CITATION
TITLE MS County Roads 2010
ALTERNATE TITLES County Roads for MS

PRESENTATION FORMAT digital map

THEMES OR CATEGORIES OF THE RESOURCE transportation

TAGS FOR SEARCHING roads, TIGER

THEME KEYWORDSroads

KEYWORDS002
THESAURUS

ABSTRACT (DESCRIPTION)
The TIGER/Line Files are shapefiles and related database files (.dbf) that 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 File is designed to stand alone as an independent data set, or they can be combined to cover the entire nation. The All Roads Shapefile includes all features within the MTDB Super Class "Road/Path Features" distinguished where the MAF/TIGER Feature Classification Code (MTFCC) for the feature in MTDB that begins with "S". This includes all primary, secondary, local neighborhood, and rural roads, city streets, vehicular trails (4wd), ramps, service drives, alleys, parking lot roads, private roads for service vehicles (logging, oil fields, ranches, etc.), bike paths or trails, bridle/horse paths, walkways/pedestrian trails, and stairways

PURPOSE (SUMMARY)
Statewide County Roads extracted from the US Census Bureau 2010 TIGER Line files. MARIS coded all TIGER roads based on US Census' Bureau's MTFCC attribute along with the MS Department of Transportation County Highway maps (2006-20010) as follows:

1 - Interstates, 2 - US Highways, 3 - MS Highways 1- 99 , 4 - MS Highways 100 - 999, 5 - Natchez Trace, 6 - County Roads, 8 - Trails . MARIS also distinguished between city streets and county roads by running an IDENTITY command with the TIGER 2010 City boundaries layer. Those county roads inside city limits were then coded as Class = 7.

DATASET LANGUAGES English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

RESOURCE CONSTRAINTS
CONSTRAINTS
LIMITATIONS OF USE
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 product or publication, however acknowledgement must be given to the U.S. Census Bureau as the source. The horizontal spatial accuracy information present in these files is provided for the purposes of statistical analysis and census operations only. No warranty, expressed or implied is made with regard to the accuracy of the spatial accuracy, and no liability is assumed by the U.S. Government in general or the U.S. Census Bureau, specifically as to the spatial or attribute accuracy of the data. The TIGER/Line Shapefiles may not be 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. 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.

SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcGIS 10.0.2.3200

OTHER EXTENT INFORMATION
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
* EXTENT TYPE Extent used for searching
* WEST LONGITUDE-91.689953
* EAST LONGITUDE-88.097746
* NORTH LATITUDE35.005292
* SOUTH LATITUDE30.192031
* EXTENT CONTAINS THE RESOURCE Yes

SUPPLEMENTAL INFORMATION
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. There may be some inconsistencies in feature names along features. An anomaly exists with the sporadic occurrence of road segments comprising a complete chain with different MAF/TIGER Feature Census Class Code (MTFCC) values assigned. This problem could affect applications that use the MTFCC values for network analysis, routing, or for assigning symbology to a feature when creating a map. The Census Bureau performed automated tests to ensure logical consistency and limits of shapefiles. Node/geometry and topology relationships are collected or generated to satisfy topological edit requirements. These requirements include: (1) Complete chains must begin and end at nodes. (2) Complete chains must connect to each other at nodes. (3) Complete chains do not extend through nodes. (4) Left and right polygons are defined for each complete chain element and are consistent throughout the extract process. (5) The chains representing the limits of the files are free of gap. There may be some inconsistencies in feature names along features. An anomaly exists with the sporadic occurrence of road segments comprising a complete chain with different MAF/TIGER Feature Census Class Code (MTFCC) values assigned. This problem could affect applications that use the MTFCC values for network analysis, routing, or for assigning symbology to a feature when creating a map. The Census Bureau performed automated tests to ensure logical consistency and limits of shapefiles. Node/geometry and topology relationships are collected or generated to satisfy topological edit requirements. These requirements include: (1) Complete chains must begin and end at nodes. (2) Complete chains must connect to each other at nodes. (3) Complete chains do not extend through nodes. (4) Left and right polygons are defined for each complete chain element and are consistent throughout the extract process. (5) The chains representing the limits of the files are free of gaps. The Census Bureau uses Global Positioning System (GPS) coordinates at road centerline

intersections to evaluate the horizontal spatial accuracy of source files that may be used to realign road features in the MAF/TIGER database and test the horizontal spatial accuracy of the road features in the TIGER/Line Shapefiles. The test compares a survey-grade GPS coordinate to its associated road centerline intersection in the TIGER/Line Shapefiles. The test is based on an independent collection of GPS coordinates for a random sample of road intersections from a centerline file that meet certain criteria. The points are referred to as the sample points and are gathered through a private contractor working for the Census Bureau. Since the collection method uses survey-quality GPS-based field techniques, the resulting control points are considered 'ground truth' against which the TIGER road centerline intersection coordinates are compared. The distances between the coordinates are calculated and the Census Bureau determines the Circular Error 95% (CE95). That is, the accuracy of the file in meters with 95% confidence. The CE95 can be calculated from the mean and standard deviation by using the formula: mean of differences plus (2.65 times the standard deviation). CE95 results reported for each file tested are determined using a spreadsheet with embedded statistical formula. The use and applicability of the spreadsheet and its embedded formula have been verified by Census Bureau statisticians. The basis of the calculation is the use of the root mean square error (RMSE). This is the method as stated in the U.S. Government's Federal Geographic Data Committee Standard FGDC-STD-007.3-1998, Geospatial Positioning Accuracy Standards. Part 3: National Standard for Spatial Data Accuracy. The results of using this measure of accuracy are in compliance with Federal Spatial Data requirements. In terms of the Census Bureau application, the dataset coordinate values are those taken from the centerline file and the coordinate values from an independent source of higher accuracy are those acquired through the Census Bureau's contractor. Please note that the horizontal spatial accuracy, where reported, refers only to the realigned road features identified as matched to the positionally accurate source file with that accuracy. It is not the spatial accuracy of the TIGER/Line Shapefile as a whole

CREDITS

U.S. Department of Commerce, U.S. Census Bureau, Geography Division, MARIS, MS Department of Transportation. Note: Please see .shp.xml for complete metadata from US Census Bureau.

Spatial Representation ►

Vector

LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS
OBJECT TYPE composite

Reference System ►

REFERENCE SYSTEM IDENTIFIER
VALUE0

Data Quality ►

LINEAGE
SOURCE DATA

DESCRIPTION U.S. Department of Commerce, U.S. Census Bureau, Geography Division, Geographic Products Branch

Distribution Information ►

DISTRIBUTION FORMAT
* FORMAT NAME Shapefile

TRANSFER OPTIONS
* TRANSFER SIZE49.738

Metadata Details ►

METADATA LANGUAGE English
METADATA CHARACTER SET 8859part1 - Latin alphabet No. 1

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset
* SCOPE NAMEdataset

METADATA CONTACT
INDIVIDUAL'S NAME Steve Walker
ORGANIZATION'S NAME MARIS
CONTACT'S POSITION GIS Operations Manager
CONTACT'S ROLE distributor

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METADATA CONTACT
ORGANIZATION'S NAME US Census Bureau
CONTACT'S ROLE publisher

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* LAST UPDATE2012-01-19

METADATA CONSTRAINTS
CONSTRAINTS
LIMITATIONS OF USE
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

ESRI Metadata and Item Properties ►

METADATA PROPERTIES
ARCGISArcGIS1.0
METADATA STYLE ISO 19139 Metadata Implementation Specification
METADATA STANDARD OR PROFILEISO19139

CREATED IN ARCGIS2012-01-19T10:42:27
LAST MODIFIED IN ARCGIS2012-01-19T11:32:47

AUTOMATIC UPDATES
LAST UPDATE2012-01-19T11:08:54
HAVE BEEN PERFORMED Yes

ITEM PROPERTIES
NAME County_rds10
SIZE 49.738
CONTENT TYPE Downloadable Data

ESRI Spatial Information ►

EXTENT IN THE ITEM'S COORDINATE REFERENCE
BOUNDING RECTANGLE
* WEST LONGITUDE322901.068136
* EAST LONGITUDE650824.303623
* NORTH LATITUDE1577835.721091
* SOUTH LATITUDE1045575.195462
* EXTENT CONTAINS THE RESOURCE Yes

COORDINATE REFERENCE
TYPE Projected
PROJECTION mstm
GEOGRAPHIC COORDINATE REFERENCEGCS_North_American_1983
COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
X ORIGIN-5122200
Y ORIGIN-12297100
XY SCALE450339697.45066422

Z ORIGIN-100000
Z SCALE10000
M ORIGIN-100000
M SCALE10000
XY TOLERANCE0.001
Z TOLERANCE0.001
M TOLERANCE0.001
HIGH PRECISIONtrue
WELL-KNOWN
TEXT PROJCS["mstm",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",1300000.0],PARAMETER["Central_Meridian",-89.75],PARAMETER["Scale_Factor",0.9998335],PARAMETER["Latitude_Of_Origin",32.5],UNIT["Meter",1.0]]

ESRI Feature Class ►

FEATURE CLASS NAMECounty_rds10
* FEATURE TYPE Simple
* GEOMETRY TYPE Polyline
* HAS TOPOLOGY FALSE
* FEATURE COUNT82645
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

ESRI Fields and Subtypes ►

County_rds10 Feature Class
* ROW COUNT82645
DEFINITION
All Roads County-based
DEFINITION SOURCE
U.S. Census Bureau

FIELD FID
* ALIAS FID
* DATA TYPE OID
* WIDTH4
* 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
* FIELD DESCRIPTION

Feature geometry.

* DESCRIPTION SOURCE
ESRI

* DESCRIPTION OF VALUES Coordinates defining the features.

FIELD FID_SW_roa
* ALIAS FID_SW_roa
* DATA TYPE Integer
* WIDTH9
* PRECISION9

FIELD STATEFP
* ALIAS STATEFP
* DATA TYPE String
* WIDTH2
FIELD DESCRIPTION
Current state Federal Information Processing Standards (FIPS)

code

DESCRIPTION SOURCE
U.S. Census Bureau

CODED VALUES
NAME OF CODELISTINCITS.38-200x (R2004), Codes for the Identification of the States, the District of Columbia, Puerto Rico, and the Insular Areas of the United States (Formerly FIPS 5-2)
SOURCE U.S. Census Bureau

FIELD COUNTYFP
* ALIAS COUNTYFP
* DATA TYPE String
* WIDTH3
FIELD DESCRIPTION
Current county Federal Information Processing Standards (FIPS)

code

DESCRIPTION SOURCE
U.S. Census Bureau

CODED VALUES
NAME OF CODELISTINCITS.31-200x (R2007), Codes for the Identification of the Counties and Equivalent Areas of the United States, Puerto Rico, and the Insular Areas of the United States (Formerly FIPS 6-4)
SOURCE U.S. Census Bureau

FIELD LINEARID
* ALIAS LINEARID
* DATA TYPE String
* WIDTH22
FIELD DESCRIPTION
Linear feature identifier

DESCRIPTION SOURCE
U.S. Census Bureau

DESCRIPTION OF VALUESdata are unavailable

FIELD FULLNAME
* ALIAS FULLNAME
* DATA TYPE String
* WIDTH100
FIELD DESCRIPTION
Concatenation of expanded text for prefix qualifier, prefix

direction, prefix type, base name, suffix type, suffix

direction, and suffix qualifier (as available) with a space

between each expanded text field

DESCRIPTION SOURCE
U.S. Census Bureau

DESCRIPTION OF VALUESdata are unavailable

FIELD RTTYP
* ALIAS RTTYP
* DATA TYPE String
* WIDTH1
FIELD DESCRIPTION
Route type code

DESCRIPTION SOURCE
U.S. Census Bureau

LIST OF VALUES
VALUE C
DESCRIPTION County
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUE I
DESCRIPTION Interstate
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUE M
DESCRIPTION Common Name
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUE O
VALUE S
DESCRIPTION Other
DESCRIPTION State recognized
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau
Enumerated_Domain:
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUE U
DESCRIPTION U.S.

ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

FIELD MTFCC
* ALIAS MTFCC
* DATA TYPE String
* WIDTH5
FIELD DESCRIPTION
MAF/TIGER feature class code

DESCRIPTION SOURCE
U.S. Census Bureau

LIST OF VALUES
VALUES1100
DESCRIPTION Primary Road
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1200
DESCRIPTION Secondary Road
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1400
DESCRIPTION Local Neighborhood Road, Rural Road, City Street
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1500
DESCRIPTION Vehicular Trail (4WD)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census

VALUES1630
DESCRIPTION Ramp
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1640
DESCRIPTION Service Drive usually along a limited access highway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census

VALUES1710
DESCRIPTION Walkway/Pedestrian Trail
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1720
DESCRIPTION Stairway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1730
DESCRIPTION Alley
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census

VALUES1740
DESCRIPTION Private Road for service vehicles (logging, oil fields, ranches, etc.)
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1750
DESCRIPTION Private Driveway
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census

VALUES1780
DESCRIPTION Parking Lot Road
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1820
DESCRIPTION Bike Path or Trail
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

VALUES1830
DESCRIPTION Bridle Path
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census

VALUES2000
DESCRIPTION Road Median
ENUMERATED DOMAIN VALUE DEFINITION SOURCE U.S. Census Bureau

FIELD Class
* ALIAS Class
* DATA TYPE SmallInteger
* WIDTH4
* PRECISION4
FIELD DESCRIPTION
Type of Road

DESCRIPTION SOURCE
MARIS

ACCURACY INFORMATION
EXPLANATION
6 - County Road

ESRI Geoprocessing History ►

PROCESS
PROCESS NAME
DATE2010-12-06
TIME14:15:16
TOOL LOCATION C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\Project
COMMAND ISSUED Project E:\DATA\TIGER_DEC2010\Raw_TIG_2010_roads\tl_2010_28001_roads.shp E:\DATA\TIGER_DEC2010\mstm_TIG_2010_rds\tl_2010_28001_roads.shp PROJCS['mstm',GEOGCS['GCS_North_American_1983',DATUM['D_North_American_1983',SPHEROID['GRS_1980',6378137.0,298.257222101]],PRIMEM['Greenwich',0.0],UNIT['Degree',0.0174532925199433]],PROJECTION['Transverse_Mercator'],PARAMETER['False_Easting',500000.0],PARAMETER['False_Northing',1300000.0],PARAMETER['Central_Meridian',-89.75],PARAMETER['Scale_Factor',0.9998335],PARAMETER['Latitude_Of_Origin',32.5],UNIT['Meter',1.0]] # GEOGCS['GCS_North_American_1983',DATUM['D_North_American_1983',SPHEROID['GRS_1980',6378137.0,298.257222101]],PRIMEM['Greenwich',0.0],UNIT['Degree',0.0174532925199433]]