

GRSM_TRANS_ROADS

Metadata also available as

Metadata:

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Identification Information:

Citation:

Citation Information:

Originator:

United States Department of the Interior, National Park Service, Great Smoky Mountains National Park

Publication Date: 20150727

Publication Time: unknown

Title: GRSM_TRANS_ROADS

Geospatial Data Presentation Form: vector digital data

Description:

Abstract:

These data depict Road Segment Centerlines and attributes for roads that are managed and maintained by the National Park Service. Road data are used for many purposes including planning and management, mapping and condition assessment, routing and navigation, public information, emergency response, and research. A current, accurate representation of park roads is needed for national reporting and a variety of mapping requirements at all levels of the National Park Service and the general public. A National-level dataset allows the NPS to communicate a consistent and high-quality roads database to NPS staff, partners, visitors, and entities that produce maps and location-based services of park units. The collection, storage, and management of road-related data are important components of everyday business activities in many Federal and State land-managing agencies, road organizations, and businesses. From a management perspective, road data must often mesh closely with other types of infrastructure, resource, and facility enterprise data. For the public using paper maps, the internet, GPS or other instrumentation, standard data formats enable users to consistently and predictably identify specific trails and a core set of corresponding information. Today, digital road data are a necessity throughout a road data management life-cycle, from road planning through design, construction, operation, and maintenance. Automating, sharing, and leveraging road data through this widely accepted standard can provide a variety of important benefits: Efficiency – creating and gathering road data that are standardized and readily usable. Compatibility – compiling data from one project or discipline that can be compatible with other applications; Consistency – using the same standards, meshing data produced by one organization with that developed by another; Speed – hastening the availability of data through a reduction in duplicative efforts and lowered production costs (Applications can be developed more quickly and with more interoperability by using existing standards-compliant data); Conflict resolution – resolving conflicting road data more easily if compliant to the same standards; Reliability – improving the quality of shared road data by increasing

the number of individuals who find and correct errors; and Reusability – allow maximum reuse across agencies and support objectives of EGovernment (E-Gov) initiatives and enterprise architecture.

Purpose: National Park Service Park Road Centerlines

Supplemental_Information:

“Road segment”, as used in the FHA attribute definitions, is used as an informal term to identify that portion of road that corresponds to the attribute "answer" or value selected for that attribute. It is not used in the FHA definitions to identify or indicate officially recognized portions of road, but rather to define the portion or entire section of road to which a particular attribute value corresponds. The "segment" identified depends on the question being asked, or the data attribute and attribute value being recorded. The native format of these data may have been configured to render and display in National Park Service applications. Users should consult their GIS software documentation for instructions on altering the symbology of these data for display in proprietary applications.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20150727

Time_of_Day: unknown

Currentness_Reference: Publication Date

Status:

Progress: In work

Maintenance_and_Update_Frequency: Continually

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -84.140641

East_Bounding_Coordinate: -82.789702

North_Bounding_Coordinate: 35.919488

South_Bounding_Coordinate: 35.412663

Keywords:

Theme:

Theme_Keyword_Thesaurus: National Park Service Theme Category Thesaurus

Theme_Keyword: Roads

Theme_Keyword: Transportation

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Category

Theme_Keyword: transportation

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Transportation

Theme_Keyword: Driving

Theme_Keyword: Roads

Theme_Keyword: Surface Route

Theme:

Theme_Keyword_Thesaurus: American Society of Photogrammetry and Remote Sensing

Theme_Keyword: National Standards for Spatial Digital Accuracy (NSSDA)

Theme:

Theme_Keyword_Thesaurus: ISO 19115 Topic Categories

Theme_Keyword: transportation

Temporal:

Temporal_Keyword_Thesaurus: None

Temporal_Keyword: Current

Access_Constraints: None

Use_Constraints:

Commercial entities using these data for Location Based Service, map publication, or other redistributions of these data should thoroughly read the contents of this metadata. Improper application of these data by failure to do so could result in inappropriate use of these data, including, but not limited to, errors in navigation resulting in hazardous conditions, for which the National Park Service is not liable. If a road is not depicted within these data, entities redistributing these data should not produce applications and publications that display such road, nor communicate or advise travel or navigation on a road not depicted in these data. Travel on a road not depicted in these data is considered "Off-Road" travel, and not endorsed by the National Park Service. The National Park Service shall not be held liable for improper or incorrect use of the data described and/or contained herein. These data and related graphics (i.e. GIF or JPG format files) are not legal documents and are not intended to be used as such. The information contained in these data is dynamic and may change over time. The data are not better than the original sources from which they were derived. It is the responsibility of the data user to use the data appropriately and consistent within the limitations of geospatial data in general and these data in particular. The related graphics are intended to aid the data user in acquiring relevant data; it is not appropriate to use the related graphics as data. The National Park Service gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data. It is strongly recommended that these data are directly acquired from an NPS server and not indirectly through other sources which may have changed the data in some way. Although these data have been processed successfully on computer systems at the National Park Service, no warranty expressed or implied is made regarding the utility of the data on other systems for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Great Smoky Mountains National Park

Contact_Person: Thomas Colson

Contact_Position: GIS Specialist

Contact_Address:

Address_Type: physical

Address: 107 Park HQ Road

City: Gatlinburg

State_or_Province: TN

Postal_Code: 37783

Country: US

Contact_Voice_Telephone: (865)436-1701

Contact_Electronic_Mail_Address: thomas_colson@nps.gov

Hours_of_Service: 0800-1630

Contact_Instructions: email only

*Point_of_Contact:**Contact_Information:**Contact_Organization_Primary:*

Contact_Organization: United States Department of the Interior, National Park Service

Contact_Person: Great Smoky Mountains National Park

Contact_Address:

Address_Type: physical

Address: 107 Park HQ Road

City: Gatlinburg

State_or_Province: TN

Postal_Code: 37783

Country: US

Contact_Voice_Telephone: (865)436-1701

Hours_of_Service: 0800-1630

Data_Set_Credit:

United States Department of the Interior, National Park Service, Great Smoky Mountains National Park

Security_Information:

Security_Classification_System: None

Security_Classification: Unclassified

Security_Handling_Description: None

Native_Data_Set_Environment:

Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.1.4959

*Cross_Reference:**Citation_Information:*

Originator: Department of the Interior, National Park Service

Publication_Date: 20140509

Publication_Time: unknown

Title: NPS Business Practice: Roads (1100) Asset

Online_Linkage:

http://classicinside.nps.gov/documents/1100_Roads_BP_2014.05.091.pdf

*Cross_Reference:**Citation_Information:*

Originator: Department of the Interior, National Park Service

Publication_Date: 20070101

Publication_Time: unknown

Title: NPS Life-Cycle Business Practices Volume 1

Online_Linkage:

<http://classicinside.nps.gov/documents/Life%20cycle%20business%20practices%20volume%201%20final.pdf>

*Cross_Reference:**Citation_Information:*

Originator: Department of the Interior, National Park Service

Publication_Date: 20110519

Publication_Time: unknown

Title: Enterprise Generic Geodatabase Standard

Online_Linkage:

http://share.inside.nps.gov/sites/IR/RIM/Standards%20Repository/GIS%20Standards/Standards%20Process/GIS_Stds_Requirements_20110519.pdf

Cross_Reference:

Citation_Information:

Publication_Date: 20090401

Title:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009

Online_Linkage:

<http://www.fs.fed.us/r5/rsi/clearinghouse/r5gis/transportation/TravelRoutesDataDictionary.pdf>

Cross_Reference:

Citation_Information:

Publication_Date: 20150807

Title: United States Census, MAF/TIGER Feature Class Code Definitions

Online_Linkage: <http://www.census.gov/geo/reference/mtfcc.html>

Cross_Reference:

Citation_Information:

Publication_Date: 20080101

Title:

Federal Geographic Data Committee, Geographic Information Framework Data Content, Part 7c: Transportation - Roads, 2008

Online_Linkage:

http://www.fgdc.gov/standards/projects/FGDC-standards-projects/framework-data-standard/GI_FrameworkDataStandard_Part7c_Transportation_Road.pdf

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

Attribute accuracy was tested by manual comparison of the source with hard copy plots and/or symbolized display of the map data on an interactive computer graphic system. Selected attributes that cannot be visually verified on plots or on screen are interactively queried and verified on screen. In addition, the attributes are tested against a master set of valid attributes. All attribute data conform to the attribute codes in the signed classification and correlation document and amendment(s). Subject-matter experts for these data were also consulted and reviewed the fitness of these data when applied to the park mission of visitor experience and resource protection.

Quantitative_Attribute_Accuracy_Assessment:

Attribute_Accuracy_Value: 10

Attribute_Accuracy_Explanation: No Method is given.

Logical_Consistency_Report:

Spatial quality of these data have been reviewed to provide error-free functionality in the broadest range of mapping software. Line segments are a set of sequentially numbered coordinate pairs. No duplicate features exist nor duplicate points in a data string. Intersecting lines are separated into individual line segments at the point of intersection. Point data are represented by two sets of coordinate pairs, each with the same

coordinate values. All nodes are represented by a single coordinate pair which indicates the beginning or end of a line segment.

Completeness_Report:

Data completeness reflects the content of the original data. Features may have been eliminated or generalized during data processing, due to scale and legibility constraints.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

These data meet United States National Map Accuracy Standards for Horizontal data, which are as follows: For maps on publication scales larger than 1:20,000, not more than 10 percent of the points tested shall be in error by more than 1/30 inch, measured on the publication scale; for maps on publication scales of 1:20,000 or smaller, 1/50 inch. These limits of accuracy shall apply in all cases to positions of well-defined points only. Well-defined points are those that are easily visible or recoverable on the ground, such as the following: monuments or markers, such as bench marks, property boundary monuments; intersections of roads, railroads, etc.; corners of large buildings or structures (or center points of small buildings); etc. In general what is well defined will be determined by what is plottable on the scale of the map within 1/100 inch. Thus while the intersection of two road or property lines meeting at right angles would come within a sensible interpretation, identification of the intersection of such lines meeting at an acute angle would obviously not be practicable within 1/100 inch. Similarly, features not identifiable upon the ground within close limits are not to be considered as test points within the limits quoted, even though their positions may be scaled closely upon the map. In this class would come timber lines, soil boundaries, etc.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: 10

Horizontal_Positional_Accuracy_Explanation: No Method is given.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

When vertical measurements are used to supplement measurements, these data meet United States National Map Accuracy Standards for Vertical data, which are as follows: Vertical accuracy, as applied to contour maps on all publication scales, shall be such that not more than 10 percent of the elevations tested shall be in error more than one-half the contour interval. In checking elevations taken from the map, the apparent vertical error may be decreased by assuming a horizontal displacement within the permissible horizontal error for a map of that scale. Vertical measurements may have been used in these data to calculate area, length, or vertical (Z) coordinates.

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 10

Vertical_Positional_Accuracy_Explanation: No Method is given.

Lineage:

Process_Step:

Process_Description: Numerous processing steps occurred on these data.

Process_Date: 20151110

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Great Smoky Mountains National Park

Contact_Person: Thomas Colson

Contact_Position: GIS Specialist

Contact_Address:

Address_Type: physical

Address: 107 Park HQ Road

City: Gatlinburg

State_or_Province: TN

Postal_Code: 37783

Country: US

Contact_Voice_Telephone: (865)436-1701

Contact_Electronic_Mail_Address: thomas_colson@nps.gov

Hours_of_Service: 0800-1630

Contact_Instructions: email only

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 1874

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 2.0000000000000001e-009

Longitude_Resolution: 2.0000000000000001e-009

Geographic_Coordinate_Units: Decimal Degrees

Geodetic_Model:

Horizontal_Datum_Name: D North American 1983

Ellipsoid_Name: GRS 1980

Semi-major_Axis: 6378137.0

Denominator_of_Flattening_Ratio: 298.257222101

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: GRSM_TRANS_ROADS

Entity_Type_Definition:

A Road is defined as an open way for the passage of vehicles, persons, or animals on land by the American National Standard for Information Systems Spatial Data Transfer Standard - Part 2, Spatial Features.

Entity_Type_Definition_Source:

http://mcmweb.er.usgs.gov/sdts/SDTS_standard_nov97/p2anxa.html#342523

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: SHAPE
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: Esri
Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: ASSETID
Attribute_Definition:
Asset ID from FMSS database for relationship with FMSS and further population of attributes.
String format in order to merge with FMSS output in Excel format.
Attribute_Definition_Source: NPS Business Practice: Roads (1100) Asset.
Attribute_Domain_Values:

Unrepresentable_Domain: Free text.

Attribute:

Attribute_Label: CREATEDATE
Attribute_Definition: Date the geometry was initially created.
Attribute_Definition_Source: Enterprise Generic Geodatabase Standard
Attribute_Domain_Values:

Unrepresentable_Domain: Valid date.

Beginning_Date_of_Attribute_Values: 20150717

Attribute:

Attribute_Label: CREATEUSER
Attribute_Definition: The person who initially created the geometry.
Attribute_Definition_Source: NPS Roads GIS Center-Line Standard
Attribute_Domain_Values:

Unrepresentable_Domain: NPS domain user name.

Attribute:

Attribute_Label: DISTRIBUTE
Attribute_Definition:
Feature is available for public distribution or consumption by a public facing system or service. This flag indicates whether or not this feature may be displayed to the public. This flag can be used by any automated service planning to consume and display this dataset publicly. This attribute does not necessarily coincide with the sensitivity flag in the sense that a feature could have no sensitivity restriction, but still have a value here that prevents it from being distributed. However, any feature marked as restricted should automatically have a false value here. Still, to prevent distribution of sensitive data, the appropriate query for feature accessibility to the public is: RESTRICTION = "Unrestricted" AND DISTRIBUTE = "Public".
Attribute_Definition_Source: NPS Roads GIS Center-Line Standard

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:* DEFAULT: Internal Only*Enumerated_Domain_Value_Definition:* Internal Only: The data is for use by NPS only.*Enumerated_Domain_Value_Definition_Source:* NPS Roads GIS Center-Line Standard*Enumerated_Domain:**Enumerated_Domain_Value:* Public*Enumerated_Domain_Value_Definition:* Public: The data is for use by NPS only.*Enumerated_Domain_Value_Definition_Source:* NPS Roads GIS Center-Line Standard*Attribute:**Attribute_Label:* EDITDATE*Attribute_Definition:* The last edit, update, or official review of this GIS record.*Attribute_Definition_Source:* Enterprise Generic Geodatabase Standard*Attribute_Domain_Values:**Unrepresentable_Domain:* Valid date.*Beginning_Date_of_Attribute_Values:* 20150717*Attribute:**Attribute_Label:* EDITUSER*Attribute_Definition:*

The person who last edited, updated, or officially reviewed this GIS record.

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard*Attribute_Domain_Values:**Unrepresentable_Domain:* NPS domain user name.*Attribute:**Attribute_Label:* FEATUREID*Attribute_Definition:*

Associated road attributes can be linked using this ID (this ID is not FMSS related).

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard*Attribute_Domain_Values:**Unrepresentable_Domain:* GUID (Globally Unique Identifier).*Attribute:**Attribute_Label:* GEOMETRYID*Attribute_Definition:*

A unique identifier for the road geometry (feature) controlled by the user.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard*Attribute_Domain_Values:**Unrepresentable_Domain:* GUID (Globally Unique Identifier).*Attribute:**Attribute_Label:* GROUPCODE*Attribute_Definition:*

Administrative unit code that is different from the individual park units but includes the unit identified in the UnitCode; The NPS unit code of the NPS unit that administers the unit listed in

UnitCode. Generally 4 characters from the first two characters of the first two words of the name.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Unrepresentable_Domain:

Administrative unit code that is different from the individual park units but includes the unit identified in the UnitCode; The NPS unit code of the NPS unit that administers the unit listed in UnitCode. Generally 4 characters from the first two characters of the first two words of the name.

Attribute:

Attribute_Label: ISEXTANT

Attribute_Definition:

Is there a physical road observable on the ground? Some instances are an area rather than an actual route or path on the ground.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Yes

Enumerated_Domain_Value_Definition: Yes

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: No

Enumerated_Domain_Value_Definition: No

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: DEFAULT: Unknown

Enumerated_Domain_Value_Definition: Unknown

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: Other

Enumerated_Domain_Value_Definition: Other

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute:

Attribute_Label: LOCATIONID

Attribute_Definition:

Location ID from FMSS database for relationship with FMSS and further population of attributes. String format in order to merge with FMSS output in Excel format.

Attribute_Definition_Source: NPS Life-Cycle Business Practices Volume 1

Attribute_Domain_Values:

Unrepresentable_Domain: Free text.

Attribute:

Attribute_Label: MAINTAINER

Attribute_Definition:

The agency or party having primary (largest share) financial responsibility for maintenance.

Attribute_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Unknown

Enumerated_Domain_Value_Definition: Unknown

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Bureau of Indian Affairs

Enumerated_Domain_Value_Definition: Bureau of Indian Affairs

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Bureau of Land Management

Enumerated_Domain_Value_Definition: Bureau of Land Management

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Bureau of Reclamation

Enumerated_Domain_Value_Definition: Bureau of Reclamation

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Commercial User

Enumerated_Domain_Value_Definition: Commercial User

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Cooperator

Enumerated_Domain_Value_Definition: Cooperator

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Corps of Engineers

Enumerated_Domain_Value_Definition: Corps of Engineers

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: County, Parish, Borough

Enumerated_Domain_Value_Definition: County, Parish, Borough

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Department of Defense

Enumerated_Domain_Value_Definition: Department of Defense

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Department of Energy

Enumerated_Domain_Value_Definition: Department of Energy

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Federal Aviation Administration

Enumerated_Domain_Value_Definition: Federal Aviation Administration

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Fish and Wildlife Service

Enumerated_Domain_Value_Definition: Fish and Wildlife Service

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Local Government

Enumerated_Domain_Value_Definition: Local Government

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Non-Governmental Organization

Enumerated_Domain_Value_Definition: Non-Governmental Organization

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

*Enumerated_Domain:**Enumerated_Domain_Value:* National Park Service*Enumerated_Domain_Value_Definition:* National Park Service*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

*Enumerated_Domain:**Enumerated_Domain_Value:* Other Federal Highway*Enumerated_Domain_Value_Definition:* Other Federal Highway*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

*Enumerated_Domain:**Enumerated_Domain_Value:* Other Local Highway*Enumerated_Domain_Value_Definition:* Other Local Highway*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

*Enumerated_Domain:**Enumerated_Domain_Value:* Private*Enumerated_Domain_Value_Definition:* Private*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

*Enumerated_Domain:**Enumerated_Domain_Value:* State Government*Enumerated_Domain_Value_Definition:* State Government*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

*Enumerated_Domain:**Enumerated_Domain_Value:* State Highway*Enumerated_Domain_Value_Definition:* State Highway*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

*Enumerated_Domain:**Enumerated_Domain_Value:* State Lands Road*Enumerated_Domain_Value_Definition:* State Lands Road*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009.

*Attribute:**Attribute_Label:* MAPMETHOD*Attribute_Definition:* How the geospatial feature was derived.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Digitized

Enumerated_Domain_Value_Definition:

Digitized: The spatial data was created by tracing or drawing features based on a digital base map or aerial photograph.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: Differential GPS

Enumerated_Domain_Value_Definition:

Differential GPS: The spatial data was created via GPS and is differentially corrected.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: Autonomous GPS

Enumerated_Domain_Value_Definition:

Autonomous GPS: The spatial data was created via GPS and was not post-processed.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: Surveyed/Geodetically Derived

Enumerated_Domain_Value_Definition:

Surveyed/Geodetically Derived: The spatial data was created by using georeferenced survey-grade equipment.

Enumerated_Domain_Value_Definition_Source: NPS Trails GIS Center-Line Standard

Enumerated_Domain:

Enumerated_Domain_Value: COGO

Enumerated_Domain_Value_Definition:

COGO: The spatial data was constructed from written descriptions, such as legal descriptions, containing line lengths and directions from a known control point.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: Feature Extraction

Enumerated_Domain_Value_Definition:

Feature Extraction: The spatial data was derived from computer-aided machine learning.

Enumerated_Domain_Value_Definition_Source: NPS Trails GIS Center-Line Standard

Enumerated_Domain:

Enumerated_Domain_Value: Geocoded

Enumerated_Domain_Value_Definition:

Geocoded: The spatial data was created by interpolating a location based on a street address.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: DEFAULT: Unknown

Enumerated_Domain_Value_Definition: Unknown: The spatial data was created via some other method.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: Feature Extraction

Enumerated_Domain_Value_Definition:

Feature Extraction: The identification of geographic features and their outlines in remote-sensing imagery through postprocessing technology that enhances feature definition, often by increasing feature-to-background contrast or using pattern recognition software

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute:

Attribute_Label: MAPSOURCE

Attribute_Definition: Source from which the feature was derived.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Free-text.

Attribute:

Attribute_Label: NOTES

Attribute_Definition:

Notes or remarks regarding unusual or important aspects of the data. Data Width is flexible based on local technology limits.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Free text.

Attribute:

Attribute_Label: PLACESID

Attribute_Definition:

A unique identifier assigned in the NPS Places System. Used to cross-walk, cross-reference, and synchronize geographic data with the NPS Places Database.

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers.

Attribute:

Attribute_Label: RDALTNAME

Attribute_Definition:

Alternative name(s) of the road separated by a pipe-delimiter. Data Width is flexible based on local technology limits.

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Free text.

Attribute:

Attribute_Label: RDCLASS

Attribute_Definition:

The grouping of roads by the character of service they provide. Values are from the US Census MAF/TIGER Feature Class Codes (MTFCC) for roads.

Attribute_Definition_Source: US Census, 2009.

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value: DEFAULT: Unknown

Enumerated_Domain_Value_Definition: Unknown

Enumerated_Domain_Value_Definition_Source: US Census, 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Primary

Enumerated_Domain_Value_Definition:

MTFCC S1100: Primary roads are generally divided, limited-access highways within the interstate highway system or under state management, and are distinguished by the presence of interchanges. These highways are accessible by ramps and may include some toll highways.

Enumerated_Domain_Value_Definition_Source: US Census, 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Secondary

Enumerated_Domain_Value_Definition:

MTFCC S1200: Secondary roads are main arteries, usually in the U.S. Highway, State Highway or County Highway system. These roads have one or more lanes of traffic in each direction, may or may not be divided, and usually have at-grade intersections with many other roads and driveways. They often have both a local name and a route number.

Enumerated_Domain_Value_Definition_Source: US Census, 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Local

Enumerated_Domain_Value_Definition:

MTFCC S1400: Generally a paved non-arterial street, road, or byway that usually has a single lane of traffic in each direction. Roads in this feature class may be privately or publicly maintained. Scenic park roads would be included in this feature class, as would (depending on the region of the country) some unpaved roads

Enumerated_Domain_Value_Definition_Source: US Census, 2009.

Enumerated_Domain:

Enumerated_Domain_Value: 4WD

Enumerated_Domain_Value_Definition:

MTFCC S1500: An unpaved dirt trail where a four-wheel drive vehicle is required. These vehicular trails are found almost exclusively in very rural areas. Minor, unpaved roads usable by ordinary cars and trucks belong in the S1400 category

Enumerated_Domain_Value_Definition_Source: US Census, 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Service

Enumerated_Domain_Value_Definition:

MTFCC S1640/S1780: A road, usually paralleling a limited access highway, that provides access to structures along the highway. These roads can be named and may intersect with other roads. Or, The main travel route for vehicles through a paved

Enumerated_Domain_Value_Definition_Source: US Census, 2009.

Enumerated_Domain:

Enumerated_Domain_Value: Private

Enumerated_Domain_Value_Definition:

MTFCC S1740: A road within private property that is privately maintained for service, extractive, or other purposes. These roads are often unnamed.

Enumerated_Domain_Value_Definition_Source: US Census, 2009.

Attribute:

Attribute_Label: RDLABEL

Attribute_Definition:

Road label used for labelling purposes where the park or official name does not meet the need of a particular cartographic product.

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Free text.

Attribute:

Attribute_Label: RDLANES

Attribute_Definition: Total number of lanes the travel way has.

Attribute_Definition_Source:

Federal Geographic Data Committee, Geographic Information Framework Data Content, Part 7c: Transportation - Roads, 2008

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 8

Attribute_Measurement_Frequency: 009

Attribute:

Attribute_Label: RDNAME

Attribute_Definition: Official name of road.

Attribute_Definition: Official name of road.

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Free text.

Attribute:

Attribute_Label: RDONEWAY

Attribute_Definition:

Direction of one way roads. Use GIS software to define direction when symbolized. This value is left NULL if mutli-directional travel is allowed on the road.

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:* With Digitized*Enumerated_Domain_Value_Definition:*

Travel on the road is allowed only in the direction of digitization, from the first vertex to the last.

Enumerated_Domain_Value_Definition_Source: NPS Roads GIS Center-Line Standard*Enumerated_Domain:**Enumerated_Domain_Value:* Against Digitized*Enumerated_Domain_Value_Definition:*

Travel on the road is allowed only in the opposite direction of digitization, from the last vertex to the first.

Enumerated_Domain_Value_Definition_Source: NPS Roads GIS Center-Line Standard*Attribute:**Attribute_Label:* RDSTATUS*Attribute_Definition:* Current physical state of the road or road segment.*Attribute_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009; NPS Roads GIS Center-Line Standard

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:* Unknown*Enumerated_Domain_Value_Definition:* The road status is unknown*Enumerated_Domain_Value_Definition_Source:* NPS Roads GIS Center-Line Standard*Enumerated_Domain:**Enumerated_Domain_Value:* DEFAULT: Existing*Enumerated_Domain_Value_Definition:* A road that physically exists.*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009

*Enumerated_Domain:**Enumerated_Domain_Value:* Temporarily Closed*Enumerated_Domain_Value_Definition:* A road that is closed for some reason (seasonal, repair).*Enumerated_Domain_Value_Definition_Source:* NPS Roads GIS Center-Line Standard*Enumerated_Domain:**Enumerated_Domain_Value:* Decommissioned*Enumerated_Domain_Value_Definition:*

A road that was no longer needed and has been removed from service but may still physically exist.

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009

*Enumerated_Domain:**Enumerated_Domain_Value:* Proposed

Enumerated_Domain_Value_Definition:

A road that is proposed but not yet planned (has not been vetted via NEPA (PEPC) process).

Enumerated_Domain_Value_Definition_Source: NPS Roads GIS Center-Line Standard

Enumerated_Domain:

Enumerated_Domain_Value: Planned

Enumerated_Domain_Value_Definition:

Planned route identified in a completed NEPA document, with a Record of Decision.

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009

Attribute:

Attribute_Label: RDSURFACE

Attribute_Definition:

The wearing course; usually designed to resist skidding, traffic abrasion, and the disintegrating effects of weather.

Attribute_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009; US Forest Service Travel Routes Data Dictionary

*Attribute_Domain_Values:**Enumerated_Domain:*

Enumerated_Domain_Value: DEFAULT: Unknown

Enumerated_Domain_Value_Definition: The road surface is unknown.

Enumerated_Domain_Value_Definition_Source: NPS Roads GIS Center-Line Standard

Enumerated_Domain:

Enumerated_Domain_Value: Asphalt

Enumerated_Domain_Value_Definition: Asphaltic Concrete

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009

Enumerated_Domain:

Enumerated_Domain_Value: Brick/Pavers

Enumerated_Domain_Value_Definition: Brick/Pavers

Enumerated_Domain_Value_Definition_Source: NPS Roads GIS Center-Line Standard

Enumerated_Domain:

Enumerated_Domain_Value: Cobblestone

Enumerated_Domain_Value_Definition: Cobblestone

Enumerated_Domain_Value_Definition_Source: NPS Roads GIS Center-Line Standard

Enumerated_Domain:

Enumerated_Domain_Value: Concrete

Enumerated_Domain_Value_Definition: Portland Cement Concrete

Enumerated_Domain_Value_Definition_Source:

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009

*Enumerated_Domain:**Enumerated_Domain_Value:* Native or Dirt*Enumerated_Domain_Value_Definition:* No imported or processed materials or Compacted Native Material*Enumerated_Domain_Value_Definition_Source:*

US Forest Service, Travel Routes, National Data Dictionary, Roads, Infrastructure Application, Version 2.0, April 2009

*Enumerated_Domain:**Enumerated_Domain_Value:* Paved Other*Enumerated_Domain_Value_Definition:* Other Paved Surface Type - Specify in Notes*Enumerated_Domain_Value_Definition_Source:* NPS Roads GIS Center-Line Standard*Enumerated_Domain:**Enumerated_Domain_Value:* Sand*Enumerated_Domain_Value_Definition:* Sand*Enumerated_Domain_Value_Definition_Source:* NPS Roads GIS Center-Line Standard*Enumerated_Domain:**Enumerated_Domain_Value:* Unpaved Other*Enumerated_Domain_Value_Definition:* Other Unpaved Surface Type - Specify in Notes*Enumerated_Domain_Value_Definition_Source:* NPS Roads GIS Center-Line Standard*Attribute:**Attribute_Label:* REGIONCODE*Attribute_Definition:*

The alpha code of the NPS Region associated with the unit identified in UnitCode. Unique alpha codes for the NPS region: AKR, IMR, MWR, NCR, NER, PWR, SER.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:* None*Enumerated_Domain_Value_Definition:* Not in a Region*Enumerated_Domain_Value_Definition_Source:* Enterprise Generic Geodatabase Standard*Enumerated_Domain:**Enumerated_Domain_Value:* AKR*Enumerated_Domain_Value_Definition:* Alaska Region*Enumerated_Domain_Value_Definition_Source:* Enterprise Generic Geodatabase Standard*Enumerated_Domain:**Enumerated_Domain_Value:* IMR*Enumerated_Domain_Value_Definition:* Intermountain Region*Enumerated_Domain_Value_Definition_Source:* Enterprise Generic Geodatabase Standard*Enumerated_Domain:**Enumerated_Domain_Value:* MWR*Enumerated_Domain_Value_Definition:* Midwest Region

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: NCR

Enumerated_Domain_Value_Definition: National Capital Region

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: NER

Enumerated_Domain_Value_Definition: Northeast Region

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: PWR

Enumerated_Domain_Value_Definition: Pacific West Region

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: SER

Enumerated_Domain_Value_Definition: Southeast Region

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute:

Attribute_Label: RESTRICTION

Attribute_Definition: Any usage restrictions or restricted status of the feature.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Unrestricted

Enumerated_Domain_Value_Definition: Unrestricted: The data has no restriction.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: No 3rd Party Release

Enumerated_Domain_Value_Definition:

No 3rd Party Release: The data may not be released to a third party.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: DEFAULT: Agency Concurrence

Enumerated_Domain_Value_Definition:

Agency Concurrence: The data may not be released without consent of the NPS.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

*Enumerated_Domain:**Enumerated_Domain_Value:* Program Concurrence*Enumerated_Domain_Value_Definition:*

Program Concurrence: The data may not be released without consent of the program that manages it.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard*Enumerated_Domain:**Enumerated_Domain_Value:* No Release*Enumerated_Domain_Value_Definition:* No Release: The data may not be released.*Enumerated_Domain_Value_Definition_Source:* Enterprise Generic Geodatabase Standard*Attribute:**Attribute_Label:* ROUTEID*Attribute_Definition:*

NPS-UNITCODE-ROUTENUMBER. This ID is a Federal Highway Administration (FHWA) identifier that was created for the Road Inventory Program (RIP). This is a unique identifier that can be used to relate to RIP data. The route number contained within this ID is also related to a FMSS road functional class and must be four characters minimum. See Table 7 in Conceptual Model document.

Attribute_Definition_Source: NPS Roads GIS Center-Line Standard*Attribute_Domain_Values:**Unrepresentable_Domain:* Free text.*Attribute:**Attribute_Label:* RTENUMBER*Attribute_Definition:*

The ID-number of a particular route in a given road network as attributed by a national, sub-national or international organization (IE. Federal, state or county). Can be used for labeling purposes using “shields”. Value must have a space between designation and number. Values will be Pipe-delimited for routes that share several numerical designations.

Attribute_Definition_Source:

Federal Geographic Data Committee, Geographic Information Framework Data Content, Part 7c: Transportation - Roads, 2008

*Attribute_Domain_Values:**Unrepresentable_Domain:* Free text.*Attribute:**Attribute_Label:* SOURCEDATE*Attribute_Definition:* Date of the source map (mm/dd/yyyy).*Attribute_Definition_Source:* NPS Trails GIS Center-Line Standard.*Attribute_Domain_Values:**Unrepresentable_Domain:* Valid date.*Attribute:**Attribute_Label:* SRCESCALE*Attribute_Definition:* Numerical denominator of the scale of the source map.*Attribute_Definition_Source:* Enterprise Generic Geodatabase Standard*Attribute_Domain_Values:*

Unrepresentable_Domain: Free text.

Attribute:

Attribute_Label: UNITCODE

Attribute_Definition:

NPS alphabetic code for a NPS organizational unit. Generally 4 characters from the first two characters of the first two words of the name of the Unit or "Other".

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Unrepresentable_Domain:

NPS alphabetic code for a NPS organizational unit. Generally 4 characters from the first two characters of the first two words of the name of the Unit or "Other".

Attribute:

Attribute_Label: UNITNAME

Attribute_Definition: Full name of the NPS organizational unit.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Unrepresentable_Domain: Full name of the NPS organizational unit.

Attribute:

Attribute_Label: XYERROR

Attribute_Definition:

Estimate of the measurement of error in the horizontal direction. For editors: Accuracy testing must use National Standards for Spatial Data Accuracy (NSSDA) testing guidelines or be reported based on compiled, published test reports appropriate for the data collection method and equipment. The method of determining accuracy should be documented in the process step of the dataset metadata record. If published accuracy results are used, use the statement 'Compiled to meet ___ (meters, feet) horizontal accuracy at 95% confidence interval in the metadata record, and identify the testing source used. If accuracy is locally tested to NSSDA standards, the statement 'Tested to meet ___ (meters, feet) horizontal accuracy at 95% confidence interval' should be added to the metadata record. Accuracy for legacy data may be reported according to the accuracy standard in place at the time of data collection (typically National Map Accuracy Standards). Document the standard used in the metadata record.

Attribute_Definition_Source: Enterprise Generic Geodatabase Standard

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: DEFAULT: Unknown

Enumerated_Domain_Value_Definition: Unknown: The horizontal error is not known.

Enumerated_Domain_Value_Definition_Source: NPS Roads GIS Center-Line Standard

Enumerated_Domain:

Enumerated_Domain_Value: >10m

Enumerated_Domain_Value_Definition: The horizontal error is greater than 10 meters.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: > 5 m and <= 10 m

Enumerated_Domain_Value_Definition:

The horizontal error is greater than 5 meters and less than or equal to 10 meters.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: > 1 m and <= 5 m

Enumerated_Domain_Value_Definition:

The horizontal error is greater than 1 meter and less than or equal to 5 meters.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: > 15 cm and <= 1 m

Enumerated_Domain_Value_Definition:

The horizontal error is greater than 15 centimeters and less than or equal to 1 meter.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: <=15cm

Enumerated_Domain_Value_Definition: The horizontal error is less than or equal to 15 centimeters.

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

Enumerated_Domain:

Enumerated_Domain_Value: Not Applicable

Enumerated_Domain_Value_Definition: Not Applicable

Enumerated_Domain_Value_Definition_Source: Enterprise Generic Geodatabase Standard

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: FACILITYTYPE

Attribute_Definition: NPS Facility Type

Attribute_Definition_Source: Great Smoky Mountains National Park, FMSS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1110

Enumerated_Domain_Value_Definition: Road: Paved

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park, FMSS

Enumerated_Domain:

Enumerated_Domain_Value: 1120

Enumerated_Domain_Value_Definition: Road:Unpaved

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park, FMSS

Enumerated_Domain:

Enumerated_Domain_Value: 1130

Enumerated_Domain_Value_Definition: Road: Paved/Unpaved

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park, FMSS

Enumerated_Domain:

Enumerated_Domain_Value: 1310

Enumerated_Domain_Value_Definition: Parking: Paved

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park, FMSS

Enumerated_Domain:

Enumerated_Domain_Value: 1320

Enumerated_Domain_Value_Definition: Parking: Unpaved

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park, FMSS

Enumerated_Domain:

Enumerated_Domain_Value: 1330

Enumerated_Domain_Value_Definition: Parking: Paved/Unpaved

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park, FMSS

Attribute:

Attribute_Label: ASSETCODE

Attribute_Definition: NPS Asset Code

Attribute_Definition_Source: Great Smoky Mountains National Park, FMSS

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1100

Enumerated_Domain_Value_Definition: Road

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park, FMSS

Enumerated_Domain:

Enumerated_Domain_Value: 1300

Enumerated_Domain_Value_Definition: Parking Area

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park, FMSS

Attribute:

Attribute_Label: COUNTY

Attribute_Definition: County that the centroid of this road segment occurs in.

Attribute_Definition_Source: Great Smoky Mountains National Park

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Cocke

Enumerated_Domain_Value_Definition: Cocke, TN

Enumerated_Domain_Value_Definition_Source:

United States Census, 2010 FIPS Codes for Counties and County Equivalent Entities

Enumerated_Domain:

Enumerated_Domain_Value: Sevier

Enumerated_Domain_Value_Definition: Sevier, TN

Enumerated_Domain_Value_Definition_Source:

United States Census, 2010 FIPS Codes for Counties and County Equivalent Entities

Enumerated_Domain:

Enumerated_Domain_Value: Blount

Enumerated_Domain_Value_Definition: Blount, TN

Enumerated_Domain_Value_Definition_Source:

United States Census, 2010 FIPS Codes for Counties and County Equivalent Entities

Enumerated_Domain:

Enumerated_Domain_Value: Graham

Enumerated_Domain_Value_Definition: Graham, NC

Enumerated_Domain_Value_Definition_Source:

United States Census, 2010 FIPS Codes for Counties and County Equivalent Entities

Enumerated_Domain:

Enumerated_Domain_Value: Swain

Enumerated_Domain_Value_Definition: Swain, NC

Enumerated_Domain_Value_Definition_Source:

United States Census, 2010 FIPS Codes for Counties and County Equivalent Entities

Enumerated_Domain:

Enumerated_Domain_Value: Henderson

Enumerated_Domain_Value_Definition: Henderson, NC

Enumerated_Domain_Value_Definition_Source:

United States Census, 2010 FIPS Codes for Counties and County Equivalent Entities

Attribute:

Attribute_Label: STATE

Attribute_Definition: State that the centroid of this road segment occurs in.

Attribute_Definition_Source: Great Smoky Mountains National Park

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Tennessee

Enumerated_Domain_Value_Definition: Tennessee

Enumerated_Domain_Value_Definition_Source:

U.S. Federal Information Processing Standard Publication ("FIPS PUB") 5-2

Enumerated_Domain:

Enumerated_Domain_Value: North Carolina

Enumerated_Domain_Value_Definition: North Carolina

Enumerated_Domain_Value_Definition_Source:

U.S. Federal Information Processing Standard Publication ("FIPS PUB") 5-2

*Attribute:**Attribute_Label:* PARKDISTRICT*Attribute_Definition:* Park District that the centroid of this road segment occurs in.*Attribute_Definition_Source:* Great Smoky Mountains National Park*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:* Cades Cove District*Enumerated_Domain_Value_Definition:* Cades Cove District*Enumerated_Domain_Value_Definition_Source:* Great Smoky Mountains National Park*Enumerated_Domain:**Enumerated_Domain_Value:* Little River District*Enumerated_Domain_Value_Definition:* Little River District*Enumerated_Domain_Value_Definition_Source:* Great Smoky Mountains National Park*Enumerated_Domain:**Enumerated_Domain_Value:* Cosby District*Enumerated_Domain_Value_Definition:* Cosby District*Enumerated_Domain_Value_Definition_Source:* Great Smoky Mountains National Park*Enumerated_Domain:**Enumerated_Domain_Value:* Deep Creek District*Enumerated_Domain_Value_Definition:* Deep Creek District*Enumerated_Domain_Value_Definition_Source:* Great Smoky Mountains National Park*Enumerated_Domain:**Enumerated_Domain_Value:* Oconaluftee District*Enumerated_Domain_Value_Definition:* Oconaluftee District*Enumerated_Domain_Value_Definition_Source:* Great Smoky Mountains National Park*Enumerated_Domain:**Enumerated_Domain_Value:* Cataloochee District*Enumerated_Domain_Value_Definition:* Cataloochee District*Enumerated_Domain_Value_Definition_Source:* Great Smoky Mountains National Park*Attribute:**Attribute_Label:* PARK_FUNCT*Attribute_Definition:*

General Park Road Functional Classification Table. A park road system contains those roads within or giving access to a park or other unit of the NPS which are administered by the NPS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a park road is not based on traffic volumes or design speed, but on the intended use or function of that road or route. The historic route numbering system also included a 300 number series for interpretive roads, and a 500 series for one-way roads. There are approximately 250 roads nationwide which are designated by the 300 and 500 series. The numbers for these roads will be maintained for reporting consistency. However, since these interpretive and one-way routes are not as clearly tied to a specific functional class, the 300 and 500 series will be discontinued for future use. 5000 route numbers are assigned to Non-NPS Routes that are State, County or City owned which border, traverse, or provide access to Park Facilities or Locations. 5000 Routes are driven for GPS and Video Log only.

Attribute_Definition_Source: Cycle 5 NPS/RIP Route ID Report

*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value: 1**Enumerated_Domain_Value_Definition:*

Class 1: Principal Park Road/Rural Parkway (Public Roads) Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Route Numbers 1 - 99. Note: Rural parkways (e.g. Natchez Trace) are numbered 1 - 9. State Routes Inventoried for Park. Route Numbers 5000-5999

Enumerated_Domain_Value_Definition_Source: Cycle 5 NPS/RIP Route ID Report*Enumerated_Domain:**Enumerated_Domain_Value: 2**Enumerated_Domain_Value_Definition:*

Class 2: Connector Park Road (Public Roads) - Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.

Enumerated_Domain_Value_Definition_Source: Cycle 5 NPS/RIP Route ID Report*Enumerated_Domain:**Enumerated_Domain_Value: 3**Enumerated_Domain_Value_Definition:*

Class 3: Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.

Enumerated_Domain_Value_Definition_Source: Cycle 5 NPS/RIP Route ID Reportle 5 NPS/RIP Route ID Report*Enumerated_Domain:**Enumerated_Domain_Value: 4**Enumerated_Domain_Value_Definition:*

Class 4: Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299. Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.

Enumerated_Domain_Value_Definition_Source: Cycle 5 NPS/RIP Route ID Reportle 5 NPS/RIP Route ID Report*Enumerated_Domain:**Enumerated_Domain_Value: 5**Enumerated_Domain_Value_Definition:*

Class 5: Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.

Enumerated_Domain_Value_Definition_Source: Cycle 5 NPS/RIP Route ID Reportle 5 NPS/RIP Route ID Report*Enumerated_Domain:**Enumerated_Domain_Value: 6**Enumerated_Domain_Value_Definition:*

Class 6: Restricted Road (Administrative Roads) - All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499. Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5

Enumerated_Domain_Value_Definition_Source: Cycle 5 NPS/RIP Route ID Reportle 5 NPS/RIP Route ID Report

Enumerated_Domain:

Enumerated_Domain_Value: 7

Enumerated_Domain_Value_Definition:

Class 7: Urban Parkway (Urban Parkways and City Streets) - These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.

Enumerated_Domain_Value_Definition_Source: Cycle 5 NPS/RIP Route ID Reportle 5 NPS/RIP Route ID Report

Enumerated_Domain:

Enumerated_Domain_Value: 8

Enumerated_Domain_Value_Definition:

Class 8: City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.

Enumerated_Domain_Value_Definition_Source: Cycle 5 NPS/RIP Route ID Reportle 5 NPS/RIP Route ID Report

Enumerated_Domain:

Enumerated_Domain_Value: 9

Enumerated_Domain_Value_Definition: Parking

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park

Attribute:

Attribute_Label: MTFCC

Attribute_Definition:

The MAF/TIGER Feature Class Code (MTFCC) is a 5-digit code assigned by the Census Bureau intended to classify and describe geographic objects or features. These codes can be found in the TIGER/Line products.

Attribute_Definition_Source: United States Census

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: S1780

Enumerated_Domain_Value_Definition:

Parking Lot Road. The main travel route for vehicles through a paved parking area.

Enumerated_Domain_Value_Definition_Source: MAF/TIGER Feature Class Code (MTFCC)

Enumerated_Domain:

Enumerated_Domain_Value: S1740

Enumerated_Domain_Value_Definition:

Private Road for service vehicles (logging, oil fields, ranches, etc.). A road within private property that is privately maintained for service, extractive, or other purposes. These roads are often unnamed.

Enumerated_Domain_Value_Definition_Source: MAF/TIGER Feature Class Code (MTFCC)

Enumerated_Domain:

Enumerated_Domain_Value: S1640

Enumerated_Domain_Value_Definition:

Service Drive usually along a limited access highway. A road, usually paralleling a limited access highway, that provides access to structures along the highway. These roads can be named and may intersect with other roads.

Enumerated_Domain_Value_Definition_Source: MAF/TIGER Feature Class Code (MTFCC)

Enumerated_Domain:

Enumerated_Domain_Value: S1630

Enumerated_Domain_Value_Definition:

Ramp. A road that allows controlled access from adjacent roads onto a limited access highway, often in the form of a cloverleaf interchange. These roads are unaddressable.

Enumerated_Domain_Value_Definition_Source: MAF/TIGER Feature Class Code (MTFCC)

Enumerated_Domain:

Enumerated_Domain_Value: S1500

Enumerated_Domain_Value_Definition:

Vehicular Trail (4WD). An unpaved dirt trail where a four-wheel drive vehicle is required. These vehicular trails are found almost exclusively in very rural areas. Minor, unpaved roads usable by ordinary cars and trucks belong in the S1400 category.

Enumerated_Domain_Value_Definition_Source: MAF/TIGER Feature Class Code (MTFCC)

Enumerated_Domain:

Enumerated_Domain_Value: S1400

Enumerated_Domain_Value_Definition:

Local Neighborhood Road, Rural Road, City Street. Generally a paved non-arterial street, road, or byway that usually has a single lane of traffic in each direction. Roads in this feature class may be privately or publicly maintained. Scenic park roads would be included in this feature class, as would (depending on the region of the country) some unpaved roads.

Enumerated_Domain_Value_Definition_Source: MAF/TIGER Feature Class Code (MTFCC)

Enumerated_Domain:

Enumerated_Domain_Value: S1200

Enumerated_Domain_Value_Definition:

Secondary Road. Secondary roads are main arteries, usually in the U.S. Highway, State Highway or County Highway system. These roads have one or more lanes of traffic in each direction, may or may not be divided, and usually have at-grade intersections with many other roads and driveways. They often have both a local name and a route number

Enumerated_Domain_Value_Definition_Source: MAF/TIGER Feature Class Code (MTFCC)

Enumerated_Domain:

Enumerated_Domain_Value: S1100

Enumerated_Domain_Value_Definition: Primary Road.

Enumerated_Domain_Value_Definition_Source: MAF/TIGER Feature Class Code (MTFCC)

Attribute:

Attribute_Label: ROADLEVEL

Attribute_Definition:

For symbolizing, indicates if a cased road is shown under or over another cased road.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: -2

Enumerated_Domain_Value_Definition: Second Subsurface

Enumerated_Domain_Value_Definition_Source: Esri

Enumerated_Domain:

Enumerated_Domain_Value: -1

Enumerated_Domain_Value_Definition: Subsurface

Enumerated_Domain_Value_Definition_Source: Esri

Enumerated_Domain:

Enumerated_Domain_Value: 0

Enumerated_Domain_Value_Definition: Ground Level

Enumerated_Domain_Value_Definition_Source: Esri

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: First Level

Enumerated_Domain_Value_Definition_Source: Esri

Enumerated_Domain:

Enumerated_Domain_Value: 2

Enumerated_Domain_Value_Definition: Second Level

Enumerated_Domain_Value_Definition_Source: Esri

Enumerated_Domain:

Enumerated_Domain_Value: 3

Enumerated_Domain_Value_Definition: Third Level

Enumerated_Domain_Value_Definition_Source: Esri

Enumerated_Domain:

Enumerated_Domain_Value: 4

Enumerated_Domain_Value_Definition: Fourth Level

Enumerated_Domain_Value_Definition_Source: Esri

Attribute:

Attribute_Label: PUBRESTRICT

Attribute_Definition: Indicates road accessibility.

Attribute_Definition_Source: Great Smoky Mountains National Park

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Open Year Round

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park

Enumerated_Domain:

Enumerated_Domain_Value: 2

Enumerated_Domain_Value_Definition: Open Seasonally

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park

Enumerated_Domain:

Enumerated_Domain_Value: 3

Enumerated_Domain_Value_Definition: Closed to Public Year Round

Enumerated_Domain_Value_Definition_Source: Great Smoky Mountains National Park

Attribute:

Attribute_Label: FEDROUTE

Attribute_Definition: Federal Route #.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Free-Text

Attribute:

Attribute_Label: AFEDRTE

Attribute_Definition: Alternate Federal Route #.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Free Text

Attribute:

Attribute_Label: STRROUTE

Attribute_Definition: State Route #.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Free Text

Attribute:

Attribute_Label: ASTRTE

Attribute_Definition: Alternate State Route #.

Attribute_Definition_Source: Esri

Attribute_Domain_Values:

Unrepresentable_Domain: Free Text

Attribute:

Attribute_Label: CTYROUTE
Attribute_Definition: County Route #
Attribute_Definition_Source: Esri
Attribute_Domain_Values:

Unrepresentable_Domain: Free-Text

Overview_Description:

Entity_and_Attribute_Overview:

Entity attributes reflect approved standards and schemas sourced from the NPS Roads GIS Center-Line Standard. Where applicable, mandatory attributes have been identified with the text "REQUIRED:" indicating that editors must populate this attribute for these data to be distributed outside of the NPS. Where applicable, default enumerated domain values have been annotated in this document. Multiple attribute values for a field will be handled by a delimiter (where necessary). These fields will be noted that multiple values are optional and a delimiter value will be provided and some will allow for varying formats.

Entity_and_Attribute_Detail_Citation: NPS Roads GIS Center-Line Standard

Distribution_Information:

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Contact_Organization: Department of the Interior, National Park Service
Contact_Person: National Park Service

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Available_Time_Period:

*Time_Period_Information:**Single_Date/Time:**Calendar_Date:* 20150727*Time_of_Day:* unknown

*Metadata_Reference_Information:**Metadata_Date:* 20151111*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* United States Department of the Interior, National Park Service*Contact_Person:* Great Smoky Mountains National Park*Contact_Address:**Address_Type:* physical*Address:* 107 Park HQ Road*City:* Gatlinburg*State_or_Province:* TN*Postal_Code:* 37783*Country:* US*Contact_Voice_Telephone:* (865)436-1701*Hours_of_Service:* 0800-1630*Metadata_Standard_Name:* FGDC Content Standard for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Use_Constraints:*

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*Metadata_Security_Information:**Metadata_Security_Classification_System:* None*Metadata_Security_Classification:* Unclassified*Metadata_Security_Handling_Description:* None

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