Elevations at Mileposts and Other Landmarks on the Washington & Old Dominion Railroad Trail (2013)

Metadata also available as

Metadata:

- Identification_Information
- Data_Quality_Information
- Spatial_Data_Organization_Information
- Spatial_Reference_Information
- Entity_and_Attribute_Information
- Distribution_Information
- Metadata_Reference_Information

Identification_Information:
    Citation:
        Citation_Information:
            Originator: Northern Virginia Regional Park Authority
            Publication_Date: Unpublished Material
            Publication_Time: Unknown
            Title:
                Elevations at Mileposts and Other Landmarks on the Washington & Old Dominion Railroad Trail (2013)
            Geospatial_Data_Presentation_Form: vector digital data
            Publication_Information:
                Publication_Place: Ashburn, VA
                Publisher: Northern Virginia Regional Park Authority
            Other_Citation_Details:
                Material not yet published; expected publication date not known.
    Description:
        Abstract:
            The point features represent mileposts, road crossings, and the trail's highest point on the Washington & Old Dominion Railroad Trail in the Washington & Old Dominion Railroad Regional Park in northern Virginia. Miscellaneous other points of interest that are signposted on the trail are also included in this dataset. Attributes include elevation above sea level in feet and meters, as well as some other information, such as time mapped.
        Purpose:
            This is a data layer to be used for creating maps, graphs, and similar documents that serve as a reference to users of the Washington & Old Dominion Railroad Regional Park.
        Supplemental_Information:
            The Northern Virginia Regional Park Authority already carried out the mapping of elevations (at mile and half-mile markers only) on the Washington & Old Dominion Railroad Trail in early June 2001. However, the Northern Virginia Regional Park Authority,

realizing the limitations of GPS technology as it existed at the time, intended to repeat the mapping of elevations in the future after GPS technology advances. This dataset is the result of this repeated mapping of elevations. The GPS device used was a Garmin eTrex Legend HCx, and the elevations were mapped between November 12, 2012 and April 4, 2013.

Time_Period_of_Content:
    Time_Period_Information:
        Single_Date/Time:
            Calendar_Date: 04/22/2013
            Time_of_Day: 23:06:25
    Currentness_Reference: ground condition
Status:
    Progress: Complete
    Maintenance_and_Update_Frequency: None planned
Spatial_Domain:
    Bounding_Coordinates:
        West_Bounding_Coordinate: -77.716262
        East_Bounding_Coordinate: -77.085873
        North_Bounding_Coordinate: 39.147947
        South_Bounding_Coordinate: 38.844309
    Data_Set_G-Polygon:
        Data_Set_G-Polygon_Outer_G-Ring:
Keywords:
    Theme:
        Theme_Keyword_Thesaurus: ISO 19115 Topic Category
        Theme_Keyword: road crossings
        Theme_Keyword: points of interest
        Theme_Keyword: elevations
        Theme_Keyword: trail
        Theme_Keyword: park
    Place:
        Place_Keyword_Thesaurus: none
        Place_Keyword: Virginia
        Place_Keyword: United States
        Place_Keyword: Loudoun
        Place_Keyword: Fairfax
        Place_Keyword: Arlington
        Place_Keyword: Washington & Old Dominion Railroad Regional Park
    Stratum:
        Stratum_Keyword: surface
    Temporal:
        Temporal_Keyword: 2013
Access_Constraints: None.
Use_Constraints:
    Every reasonable effort has been made to ensure the accuracy of these data. The Northern Virginia Regional Park Authority does not assume any liability arising from the use of these data. These data are provided without warranty of any kind, expressed or implied. Acknowledgement of the Northern Virginia Regional Park Authority as the source of the data is encouraged in any products derived from these data.
Point_of_Contact:
    Contact_Information:

Contact_Person_Primary:
 Contact_Organization:
  Northern Virginia Regional Park Authority Washington & Old Dominion
  Railroad Regional Park
Contact_Position: Park Manager
Contact_Address:
 Address_Type: mailing and physical address
 Address: 21293 Smith Switch Road
 City: Ashburn
 State_or_Province: Virginia
 Postal_Code: 20147
 Country: United States
Contact_Voice_Telephone: (703) 729-0596
Browse_Graphic:
 Browse_Graphic_File_Name: C\...\TrailGraphic.jpg
 Browse_Graphic_File_Description:
  A vector dataset of all mileposts and other landmarks exported from ArcGIS to a JPEG file.
 Browse_Graphic_File_Type: JPEG
Data_Set_Credit:
 This dataset was developed for the Northern Virginia Regional Park Authority by Dmitriy
 Tarasov, a volunteer with the NVRPA.
Security_Information:
 Security_Classification: Unclassified
Native_Data_Set_Environment:
 Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 1; ESRI ArcCatalog 9.0.0.535
Cross_Reference:
 Citation_Information:
  Originator: Virginia Department of Conservation and Recreation
  Publication_Date: 06/19/2009
  Publication_Time: 12:41:44
  Title: conslands.shp
  Geospatial_Data_Presentation_Form: vector digital data
  Series_Information:
   Series_Name: Conservation Lands Shapefiles and Metadata
  Publication_Information:
   Publication_Place: Richmond, VA
   Publisher: Virginia Department of Conservation and Recreation
  Other_Citation_Details:
   The date of the last modification to the shapefile, according to the ESRI
   Geoprocessing History section of the shapefile's ArcGIS metadata, is presumed to be
   the publication date.
  Online_Linkage:
   <http://www.dcr.virginia.gov/natural_heritage/documents/conslands.zip>

Data_Quality_Information:
 Attribute_Accuracy:
  Attribute_Accuracy_Report:
   The "ident" (name) attribute has been verified to ensure that each feature is correctly
   labeled and the dataset contains no duplicates.
  Quantitative_Attribute_Accuracy_Assessment:

Attribute_Accuracy_Value: > 90% attribute accuracy exists

Attribute_Accuracy_Explanation:

Each feature has been checked against street maps, and, where possible, USGS topographic maps to ensure accuracy in the "ident" (name) attribute.

Logical_Consistency_Report:

All feature names (the "ident" attribute) have been verified to contain no errors, and the dataset verified to contain no duplicates. The elevations of all points have been checked against a USGS topographic map to ensure that the elevation values are accurate to within 10 feet.

Completeness_Report:

Users need to be aware that, due to development in the area, new features, especially road crossings, may appear that are not included in this dataset because they did not exist at the time of mapping.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The mileposts and other landmarks were mapped with the Wide Area Augmentation System setting enabled on the GPS device.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: > 95% positional accuracy exists

Horizontal_Positional_Accuracy_Explanation:

The use of the WAAS setting theoretically means a positional accuracy (for both horizontal and vertical measurements) of 25 feet or better at least 95 percent of the time.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

The mileposts and other landmarks were mapped with the Wide Area Augmentation System setting enabled on the GPS device.

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: > 95% positional accuracy exists

Vertical_Positional_Accuracy_Explanation:

The use of the WAAS setting theoretically means a positional accuracy (for both horizontal and vertical measurements) of 25 feet or better at least 95 percent of the time.

Lineage:

Process_Step:

Process_Description:

Data on features' locations and elevations collected using a GPS device (Garmin eTrex Legend HCx).

Process_Date: 11/12/2012 - 04/04/2013

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

Northern Virginia Regional Park Authority Washington & Old Dominion Railroad Regional Park

Contact_Person: Dmitriy Tarasov

Contact_Position: volunteer

Contact_Address:

Address_Type: mailing and physical address

Address: 21293 Smith Switch Road

City: Ashburn

      State_or_Province: Virginia
      Postal_Code: 20147
      Country: United States
     Contact_Voice_Telephone: (703) 729-0596
  Process_Step:
   Process_Description: Data exported from the GPS device to a shapefile.
   Process_Date: 04/22/2013
   Process_Contact:
    Contact_Information:
     Contact_Organization_Primary:
      Contact_Organization:
       Northern Virginia Regional Park Authority Washington & Old
       Dominion Railroad Regional Park
      Contact_Person: Dmitriy Tarasov
     Contact_Position: volunteer
     Contact_Address:
      Address_Type: mailing and physical address
      Address: 21293 Smith Switch Road
      City: Ashburn
      State_or_Province: Virginia
      Postal_Code: 20147
      Country: United States
     Contact_Voice_Telephone: (703) 729-0596
  Process_Step:
   Process_Description:
    All unnecessary attributes (i.e., all empty fields in the attribute table except City)
    deleted.
   Process_Date: 04/25/2013
   Process_Contact:
    Contact_Information:
     Contact_Organization_Primary:
      Contact_Organization:
       Northern Virginia Regional Park Authority Washington & Old
       Dominion Railroad Regional Park
      Contact_Person: Dmitriy Tarasov
     Contact_Position: volunteer
     Contact_Address:
      Address_Type: mailing and physical address
      Address: 21293 Smith Switch Road
      City: Ashburn
      State_or_Province: Virginia
      Postal_Code: 20147
      Country: United States
     Contact_Voice_Telephone: (703) 729-0596
  Process_Step:
   Process_Description:
    Some fields (i.e., InMeters, which was obtained by multiplying the contents of the
    "altitude" field by 0.3048, and CaptionField, which is needed for labeling purposes
    and which concatenates the feature's name with its altitude) added.
   Process_Date: 04/25/2013 - 05/20/2013
   Process_Contact:

Contact_Information:
 Contact_Organization_Primary:
  Contact_Organization:
   Northern Virginia Regional Park Authority Washington & Old
   Dominion Railroad Regional Park
  Contact_Person: Dmitriy Tarasov
 Contact_Position: volunteer
 Contact_Address:
  Address_Type: mailing and physical address
  Address: 21293 Smith Switch Road
  City: Ashburn
  State_or_Province: Virginia
  Postal_Code: 20147
  Country: United States
 Contact_Voice_Telephone: (703) 729-0596
Process_Step:
 Process_Description:
  The dataset projected from its original geographic coordinate system (GCS WGS
  1984) to a state plane coordinate system (NAD 1983 HARN State Plane Virginia
  North FIPS 4501 (Feet)).
 Process_Date: 05/20/2013
 Process_Contact:
  Contact_Information:
   Contact_Organization_Primary:
    Contact_Organization:
     Northern Virginia Regional Park Authority Washington & Old
     Dominion Railroad Regional Park
    Contact_Person: Dmitriy Tarasov
   Contact_Position: volunteer
   Contact_Address:
    Address_Type: mailing and physical address
    Address: 21293 Smith Switch Road
    City: Ashburn
    State_or_Province: Virginia
    Postal_Code: 20147
    Country: United States
   Contact_Voice_Telephone: (703) 729-0596

Spatial_Data_Organization_Information:
 Direct_Spatial_Reference_Method: Vector
 Point_and_Vector_Object_Information:

Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
  Planar:
   Planar_Coordinate_Information:
    Planar_Coordinate_Encoding_Method: coordinate pair
    Coordinate_Representation:
     Abscissa_Resolution: 0.000000
     Ordinate_Resolution: 0.000000

      Planar_Distance_Units: survey feet
    Geodetic_Model:
      Horizontal_Datum_Name: North American 1983 HARN
      Ellipsoid_Name: Geodetic Reference System 80
      Semi-major_Axis: Equatorial radius
      Denominator_of_Flattening_Ratio: 0.003352810681225

Entity_and_Attribute_Information:
  Detailed_Description:
    Entity_Type:
      Entity_Type_Label: Elevations on the W&OD Railroad Trail
      Entity_Type_Definition:
        Mile markers, road crossings, and selected other features on the Washington and Old Dominion Railroad Trail, with elevation in feet and meters, time mapped, latitude, longitude, and make and model of GPS device used for mapping the features.
      Entity_Type_Definition_Source: Northern Virginia Regional Park Authority
    Attribute:
      Attribute_Label: FID
      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: type
      Attribute_Definition: Waypoint, track, or route; only waypoints in this dataset
      Attribute_Definition_Source: Garmin
    Attribute:
      Attribute_Label: ident
      Attribute_Definition: Name of the feature.
      Attribute_Definition_Source: Northern Virginia Regional Park Authority
    Attribute:
      Attribute_Label: Latitude
      Attribute_Definition: Latitude of the feature.
      Attribute_Definition_Source: Garmin
    Attribute:
      Attribute_Label: Longitude
      Attribute_Definition: Longitude of the feature.
      Attribute_Definition_Source: Garmin
    Attribute:
      Attribute_Label: y_proj
      Attribute_Definition:
        The y-coordinate of the feature (latitude shown, since projection not defined when exporting data from GPS device using DNRGPS).

Attribute_Definition_Source: DNRGPS (Minnesota Department of Natural Resources)

Attribute:

 Attribute_Label: x_proj

 Attribute_Definition:

  The x-coordinate of the feature (longitude shown, since projection not defined when exporting data from GPS device using DNRGPS).

 Attribute_Definition_Source: DNRGPS (Minnesota Department of Natural Resources)

Attribute:

 Attribute_Label: altitude

 Attribute_Definition: Elevation of the feature in feet above sea level.

 Attribute_Definition_Source: Garmin

Attribute:

 Attribute_Label: city

 Attribute_Definition:

  City or town in which feature is located; field created by default when exporting data from GPS device to shapefile using DNRGPS; field not deleted in case of future need to provide this information.

 Attribute_Definition_Source: Northern Virginia Regional Park Authority

Attribute:

 Attribute_Label: model

 Attribute_Definition: Model of GPS device used to collect the data.

 Attribute_Definition_Source: Northern Virginia Regional Park Authority

Attribute:

 Attribute_Label: IsHighest

 Attribute_Definition:

  Type of point feature (mile marker, road crossing, highest point, or other feature; originally there were only two types, Highest Point and Other Point, hence the name of the attribute).

 Attribute_Definition_Source: Northern Virginia Regional Park Authority

Attribute:

 Attribute_Label: InMeters

 Attribute_Definition:

  Elevation of the point feature in meters above sea level; calculated by multiplying the value of the "altitude" attribute by 0.3048

 Attribute_Definition_Source: Northern Virginia Regional Park Authority.

Attribute:

 Attribute_Label: TimeMapped

 Attribute_Definition: Time the feature was mapped.

 Attribute_Definition_Source: Garmin/Northern Virginia Regional Park Authority.

Overview_Description:

 Entity_and_Attribute_Overview:

  The "altitude" attribute contains the feature's elevation above sea level in feet, while the "InMeters" attribute holds the same elevation in meters. The "City" attribute was generated automatically while exporting the data to a shapefile from the GPS device, and was not deleted in case the need arises to fill in this field in the future. The x_proj and y_proj fields in the attribute table contain the same information (degrees of longitude and latitude) as the Longitude and Latitude fields, respectively, because no projection was specified when exporting the data to a shapefile, and the dataset was originally unprojected. The "IsHighest" attribute is the subtype field showing the type of the feature, the subtypes being as follows: 0 = other feature 1 = trail's highest point 2 = milepost 3 = road crossing. The attribute's name is due to the fact that originally, only two subtypes (1 for trail's highest

point and 0 for all other points) were envisioned. The "ident" attribute holds the feature's name, while the "type" attribute was generated automatically when the data was exported from the GPS device; possible values are waypoint, track, and route, but in this dataset all features are waypoints. The criteria for inclusion of features in the dataset are as follows: All mile and half-mile markers on the trail are "mileposts." Road crossings are locations where the trail intersects those thoroughfares that are signposted as such. The trail's highest point was, at the time of mapping, not signposted; rather, its location was identified by Dmitriy Tarasov in parallel with the mapping of the elevations of other features. "Other" features are any features that are signposted on the trail but do not fit into the other three categories. All features except the trail's highest point were signposted on the trail at the time of mapping.

Entity_and_Attribute_Detail_Citation:

Please contact the originator of this dataset with further questions regarding the attributes using the contact information provided in the Contact section of the metadata.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Northern Virginia Regional Park Authority

Contact_Person: Dmitriy Tarasov

Contact_Position: volunteer

Contact_Instructions:

The contact information of the individual responsible for this dataset can be obtained from the Northern Virginia Regional Park Authority Washington & Old Dominion Railroad Regional Park headquarters; see the Contact section of the metadata for details.

Resource_Description: Unpublished data.

Distribution_Liability:

The originator of this dataset does not assume any liability arising from the use of this dataset. The dataset was originally created for the purpose of displaying the elevations at mile markers and other landmarks in the Northern Virginia Regional Park Authority's Washington & Old Dominion Railroad Park.

Standard_Order_Process:

Fees: None.

Ordering_Instructions:

This dataset has not been published and is not intended for distribution.

Turnaround: Not applicable

Custom_Order_Process: None.

Metadata_Reference_Information:

Metadata_Date: 07/08/2013

Metadata_Review_Date: 07/09/2013

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

Northern Virginia Regional Park Authority Washington & Old Dominion Railroad Regional Park

Contact_Person: Dmitriy Tarasov

Contact_Position: volunteer
Contact_Instructions:
　　　The contact information of the individual responsible for this dataset can be obtained
　　　from the Northern Virginia Regional Park Authority Washington & Old Dominion
　　　Railroad Regional Park headquarters; see the Contact section of the metadata for
　　　details.
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Access_Constraints: None.
Metadata_Security_Information:
　　　Metadata_Security_Classification: Unclassified

Generated by mp version 2.9.6 on Thu Jul 11 22:29:58 2013