

york.GISADMIN.Spot_Elevation

Metadata also available as

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Identification Information:

Citation:

Citation Information:

Originator: York County Government, York County, VA

Publication Date: 2nd Quarter 2008

Title: york.GISADMIN.Spot_Elevation

Geospatial Data Presentation Form: vector digital data

Publication Information:

Publication Place: York Town, York County, Virginia

Online Linkage:

Description:

Abstract:

These files contain contours at 2' interval for the York County, VA project area. The project encompasses approximately 51,943 acres (~81 sq. miles) area of the York County, Va. The project area has been subdivided to North (27 sq. miles) and South (54 sq. miles). LiDAR data is acquired using ATLM 3100 sensor for these two regions and classified as First return and bare-earth data. The files are created in LAS format in Virginia State plane, South zone, NAD1983 coordinate system with US_Survey feet units.

The LiDAR used for the generation of Digital Elevation Model (DEM) and Digital Surface Model (DSM). The bare earth LiDAR data was supplemented with 3D breaklines to provide a solid and very accurate base to use during the contour generation at 2 foot interval.

Purpose:

LIDAR data was collected for the purposes of generation of 2 foot contours, DEM and DSM files as well as a variety of other purposes including planning, emergency management, economic development and field reference.

Time Period of Content:

Time Period Information:

Single Date/Time:

Calendar Date:

REQUIRED: The year (and optionally month, or month and day) for which the data set corresponds to the ground.

Range of Dates/Times:

Beginning Date: February 2007

Ending Date: March 2007

Currentness Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -76.761680

East_Bounding_Coordinate: -76.385716

North_Bounding_Coordinate: 37.371842

South_Bounding_Coordinate: 37.091755

Keywords:

Theme:

Theme_Keyword_Thesaurus:

REQUIRED: Reference to a formally registered thesaurus or a similar authoritative source of theme keywords.

Theme_Keyword: LiDAR

Theme_Keyword: Digital Terrain Model (DTM)

Theme_Keyword: Digital Elevation Model (DEM)

Theme_Keyword: Digital Surface Model (DSM)

Theme_Keyword: Contour

Place:

Place_Keyword: York Town

Place_Keyword: York County

Place_Keyword: Virginia

Access_Constraints:

The data is property of York County, VA. Distribution of any of these data to anyone not licensed by the York County government is strictly prohibited.

Use_Constraints:

The data has been developed using procedures designed to produce data to National Standard for Spatial Data Accuracy (NSSDA) and is intended for use at 1 = 100 scale.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: County of York, Virginia

Contact_Person: Korine Leonard

Contact_Position: GIS Manager

Contact_Address:

Address_Type: mailing address

Address: 224 Ballard Street

Address: P. O. Box 532

City: Yorktown

State_or_Province: Virginia

Postal_Code: 23690-0532

Country: United States of America

Contact_Voice_Telephone: (757) 890-3300

Contact_Electronic_Mail_Address: gis@yorkcounty.gov

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.1.0.780

Data_Quality_Information:

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

Horizontal accuracy was tested by comparing the raw contours from each flightline against adjoining flightlines at specific points.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

LIDAR points were tested for vertical accuracy by comparing their values to known control points and kinematic GPS survey. Ground GPS techniques were used to establish the control locations. Survey control points were used to validate the accuracy of the LIDAR surface model and effects of filtering algorithms for vegetation removal. Contour lines were generated and were verified for accuracy against surveyed spot elevations. Supplemental breaklines were added to more accurately model certain features. This essential validation proves the accuracy of the surface relative to the adjustment of the LIDAR data

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: +/- .25 feet

Vertical_Positional_Accuracy_Explanation:

The vertical positional accuracy of the data is verified by a control report that matches 2994 kinematic GPS collection and reconnaissance survey control points against filtered model key points collected by LIDAR.

Lineage:

Process_Step:

Process_Description:

LIDAR data is acquired using ATLM 3100 sensor. The data is processed by utilizing a combination of automated filtering techniques and softcopy photogrammetry, data representing the earth's surface is derived. Supplemental breaklines are compiled in critical locations to ensure the final DTM and contours meet project accuracy specifications. Spot elevations were derived from the 2002 data. The spot elevations were adjusted and supplemented with the 2007 LiDAR data for positional and vertical accuracy using the softcopy photogrammetry techniques.

Process_Step:

Process_Description: Metadata imported.

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation: C:\YORK_CONTOURS\METADATA FILES\lidar_york.shp.xml

Process_Step:

Process_Description: Metadata imported.

Source_Used_Citation_Abbreviation: C:\DOCUME~1\leonardk\LOCALS~1\Temp\xml1043.tmp

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 84310

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 13

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 1

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: MultiPatch

Point_and_Vector_Object_Count: 1

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 0

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Map_Projection:
Map_Projection_Name: Lambert Conformal Conic
Lambert_Conformal_Conic:
Standard_Parallel: 36.766667
Standard_Parallel: 37.966667
Longitude_of_Central_Meridian: -78.500000
Latitude_of_Projection_Origin: 36.333333
False_Easting: 11482916.666667
False_Northing: 3280833.333333
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 0.000833
Ordinate_Resolution: 0.000833
Planar_Distance_Units: survey feet
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137.000000
Denominator_of_Flattening_Ratio: 298.257222
Vertical_Coordinate_System_Definition:
Altitude_System_Definition:
Altitude_Datum_Name: North American Vertical Datum of 1988
Altitude_Resolution: 0.000010
Altitude_Distance_Units: feet
Altitude_Encoding_Method:
Explicit elevation coordinate included with horizontal coordinates

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: york.GISADMIN.Spot_Elevation
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
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: LAYER
Attribute:
Attribute_Label: ELEVATION
Attribute:
Attribute_Label: SHAPE
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.
Detailed_Description:
Entity_Type:
Entity_Type_Label: Polyline
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: Color
Attribute:
Attribute_Label: Text
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: Entity
Attribute:
Attribute_Label: Layer
Attribute:
Attribute_Label: Handle
Attribute:
Attribute_Label: Elevation
Attribute:
Attribute_Label: Linetype
Attribute:
Attribute_Label: Thickness
Detailed_Description:
Entity_Type:
Entity_Type_Label: Polygon
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: Color
Attribute:
Attribute_Label: Text
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:

Attribute_Label: Entity
Attribute:
Attribute_Label: Layer
Attribute:
Attribute_Label: Handle
Attribute:
Attribute_Label: Elevation
Attribute:
Attribute_Label: Linetype
Attribute:
Attribute_Label: Thickness
Detailed_Description:
Entity_Type:
Entity_Type_Label: MultiPatch
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: Color
Attribute:
Attribute_Label: Text
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: Entity
Attribute:
Attribute_Label: Layer
Attribute:
Attribute_Label: Handle
Attribute:
Attribute_Label: Elevation
Attribute:
Attribute_Label: Linetype
Attribute:
Attribute_Label: Thickness
Detailed_Description:
Entity_Type:
Entity_Type_Label: Annotation
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: Text
Attribute:
Attribute_Label: Angle
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: Entity
Attribute:
Attribute_Label: Handle
Attribute:
Attribute_Label: Elevation
Attribute:
Attribute_Label: Layer
Attribute:
Attribute_Label: Color
Attribute:
Attribute_Label: Style
Attribute:
Attribute_Label: FontId
Attribute:
Attribute_Label: Height
Attribute:
Attribute_Label: Thickness

Distribution_Information:

Distributor:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: York County, Virginia
Contact_Person: Korine Leonard
Contact_Position: GIS Manager
Contact_Address:
Address_Type: mailing address
Address: 224 Ballard Street
Address: P. O. Box 532
City: Yorktown
State_or_Province: Virginia
Postal_Code: 23690-0532
Country: United States of America
Contact_Voice_Telephone: (757) 890-3300
Contact_Electronic_Mail_Address: leonardk@yorkcounty.gov
Resource_Description: Downloadable Data
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: DWG
Format_Version_Number: 2000
Transfer_Size: 0.420
Digital_Transfer_Option:
Online_Option:

Computer_Contact_Information:
Network_Address:
Network_Resource_Name: Not Available
Fees: Contact

Metadata_Reference_Information:

Metadata_Date: 20080606
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: County of York, Virginia
Contact_Person: Korine Leonard
Contact_Position: GIS Manager
Contact_Address:
Address_Type: mailing address
Address: 224 Ballard Street
Address: P. O. Box 532
City: Yorktown
State_or_Province: Virginia
Postal_Code: 23690-0532
Country: United States of America
Contact_Voice_Telephone: (757) 890-3300
Contact_Electronic_Mail_Address: leonardk@yorkcounty.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Security_Information:
Metadata_Security_Classification_System: Not Available
Metadata_Security_Classification: Unclassified
Metadata_Security_Handling_Description: Not Available
Metadata_Extensions:
Metadata_Extensions:
Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile
Metadata_Extensions:
Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile
