

Digital Raster Graph Mosaic of Burlington County, New Jersey

Metadata also available as

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Identification_Information:

Citation:

Citation_Information:

Originator:

U.S. Department of Agriculture, Natural Resources Conservation Service

Publication_Date: 20010814

Title: Digital Raster Graph Mosaic of Burlington County, New Jersey

Geospatial_Data_Presentation_Form: remote-sensing image

Description:

Abstract:

The Digital Raster Graphic (DRG) is a scanned image of a US Geological Survey (USGS) standard series topographic map that includes all collar information (e.g., legend, scale bar, index map, etc.) The DRGE is a non-proprietary product of a USGS DRG in which the map collar information has been removed.

Purpose:

The DRGE is useful as a source or background layer in a GIS, as a means to perform quality assurance on other digital products, and as a source for the collection and revision of DLG data. The DRGE can also be merged with other digital data, e.g. DEM's or DOQ's, to produce a hybrid digital file. The removal of the collar information allows the DRGE to be edge-matched and displayed simultaneously in a Geographic Information System.

These data are prepared for use by the Natural Resources Conservation Service for USDA Service Center personnel to administer agency programs.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: unknown

Ending_Date: unknown

Currentness_Reference: Source Map

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -75.125322

East_Bounding_Coordinate: -74.367782

North_Bounding_Coordinate: 40.251194

South_Bounding_Coordinate: 39.498711

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Digital Raster Graph

Theme_Keyword: Digital Raster Graph Enhanced

Theme_Keyword: DRG

Theme_Keyword: DRGE

Theme_Keyword: Topographic Map

Place:

Place_Keyword_Thesaurus:

Counties and County Equivalents of the States of the United States and the District of Columbia (FIPS Pub 6-3)

Place_Keyword: Burlington County

Place_Keyword: New Jersey

Place_Keyword: United States

Access_Constraints: None.

Use_Constraints:

These data were prepared for Official Use Only by USDA employees as part of the Service Center Initiative.

*Point_of_Contact:**Contact_Information:**Contact_Person_Primary:**Contact_Person:* Geospatial Data Branch*Contact_Organization:*

U.S. Department of Agriculture, Natural Resources Conservation Service

*Contact_Address:**Address_Type:* mailing and physical address*Address:* Federal Center, 501 W. Felix St., Bldg 23, P.O Box 6567*City:* Fort Worth*State_or_Province:* Texas*Postal_Code:* 76115*Country:* USA*Contact_Voice_Telephone:* (817) 509-3400*Contact_Facsimile_Telephone:* (817) 509-3469*Hours_of_Service:* 8:00 am to 4:30 pm, Central*Browse_Graphic:**Browse_Graphic_File_Name:* unavailable*Browse_Graphic_File_Description:* unavailable*Browse_Graphic_File_Type:* unavailable*Data_Set_Credit:*

The original DRG was produced through an Innovative partnership agreement between The Land Information Technology Company, Ltd., of Aurora, CO and the USGS.

Native_Data_Set_Environment:

Microsoft Windows NT Version 4.0 (Build 1381) Service Pack 6; ESRI ArcCatalog 8.1.0.642

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:*

In the source data, the DRGE is an 8-bit color image that employs a color palette to ensure uniform colors throughout a particular DRG series. All DRG's within a series have the same RGB value.

Logical_Consistency_Report: Not Applicable*Completeness_Report:*

According to the USGS, the DRG is a faithfully reproduced digital image of the original source map. Some differences may be detected between the source graphic used and the DRG due to the

RGB values assigned that particular color. The intent is to recreate those colors as near as possible. Data completeness for DRG files reflect content of the source graphic. Features may have been eliminated or generalized on the source graphic due to scale and legibility constraints.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The datum of the published map is retained to be consistent with other USGS digital data.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: NA

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: Beartooth Mapping, Inc.

Publication_Date: 2000

Publication_Time: Unknown

Title: DRGE

Geospatial_Data_Presentation_Form: map

Publication_Information:

Publication_Place: Reston, VA

Publisher: U.S. Geological Survey

Source_Scale_Denominator: 24,000

Type_of_Source_Media: CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: unknown

Ending_Date: unknown

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: DRGE

Source_Contribution:

The DRG source map imagery was processed using the Spatial Analyst Extension to

ArcView 3.1 (ESRI, Inc). The map collar was removed and portions of adjacent quadrangles were appended to the input image to produce a UTM rectangle output. DRGE images from the same map series (large, intermediate, and small scale) were processed by UTM zone to produce seamless output imagery within each Zone.

The output ArcView Grid was converted to a TIFF 6.0 / GeoTIFF 1.0 image using the GridIO API (ESRI, Inc.), LibTiff Library (Copyright 1988-1998 Sam Leffler, 1991-1998 Silicon Graphics, Inc) and LibGeoTiff Library.

Additional information about DRGE imagery can be obtained from:

Beartooth Mapping, Inc. PO Box 2075 Red Lodge, MT 59068 Telephone: (406) 446-1007 Email: info@beartoothmaps.com

Process_Step:

Process_Description:

Enhanced Digital Raster Graphs (DRGE) are used to create mosaics. All DRGE's for the area of interest, typically a county, are processed using geo-referencing information from the input images to create a consolidated MrSID image. The input images are in GeoTIFF format. The mosaic is compressed to a ratio of about 1:20 to save on storage requirements and to accelerate computer processing and display.

All DRGE's must be in the same UTM zone for MrSID Version 1.3 software to create a mosaic. In areas split by a UTM zone, DRGE's in the lesser zone are reprojected to the dominant UTM zone using ArcInfo, ERDAS Imagine or similar software

Source_Used_Citation_Abbreviation: DRGE

Process_Date: 20010813

Source_Produced_Citation_Abbreviation: MrSID

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Raster

Raster_Object_Information:

Raster_Object_Type: Pixel

Row_Count: 34174

Column_Count: 26422

Vertical_Count: 1

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:

UTM_Zone_Number: 18
Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600
Longitude_of_Central_Meridian: -75.000000
Latitude_of_Projection_Origin: 0.000000
False_Easting: 500000.000000
False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: row and column
Coordinate_Representation:

Abscissa_Resolution: 2.438400
Ordinate_Resolution: 2.438400

Planar_Distance_Units: meters

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

*Entity_and_Attribute_Information:**Overview_Description:**Entity_and_Attribute_Overview:*

In the source TIFF image (DRGE), each raster entity or pixel contains a color index from 0 through 12 referencing a color palette of RGB values from 0 through 255 in which the standard colors used in the DRGE are defined. The DRGE Color Palette (Digital Number, Color, Red, Green, Blue), 0 Black 0 0 0, 1 White 255 255 255, 2 Blue 0 151 164, 3 Red 203 0 23, 4 Brown 131 66 37, 5 Green 201 234 157, 6 Purple 137 51 128, 7 Yellow 255 234 0, 8 Light Blue 167 226 226, 9 Light Red 255 184 184, 10 Light Purple 218 179 214, 11 Light Grey 209 209 209, 12 Light Brown 207 164 142.

Essentially, the compressed mosaic contains three bands resulting in six colors when red, blue, and green are used for image display. The colors represent the following:
Contours - brown, Hydrography - blue, Public Land Survey System and other surveys - red, Updates - purple/magenta, Miscellaneous - black, and Vegetation - green.

Entity_and_Attribute_Detail_Citation:

U.S. Department of the Interior, U.S. Geological Survey, 1997, Standards for Digital Raster Graphs: Reston, VA.

Softcopy in Adobe Acrobat Portable Document File (PDF) format:

<http://rmmcweb.cr.usgs.gov/public/nmpstds/drgstds.html>

*Distribution_Information:**Distributor:**Contact_Information:**Contact_Person_Primary:*

Contact_Person: Geospatial Data Branch

Contact_Organization:

U.S. Department of Agriculture, Natural Resources Conservation Service,
National Cartography and Geospatial Center

Contact_Address:

Address_Type: mailing and physical address

Address: Federal Center, 501 W. Felix St., Bldg. 23, P.O. Box 6567

City: Fort Worth

State_or_Province: Texas

Postal_Code: 76115

Country: USA

Contact_Voice_Telephone: (817) 509-3400

Contact_Facsimile_Telephone: (817) 509-3469

Hours_of_Service: 8:00 am to 4:30 pm, Central

Resource_Description: Digital Raster Graph Mosaic*Distribution_Liability:*

Although these data have been processed successfully on a computer system at the U.S. Department of Agriculture, no warranty expressed or implied is made by the Agency regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty.

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: MrSID

File-Decompression_Technique: No compression applied

Transfer_Size: 79.524

Digital_Transfer_Option:

Offline_Option:

Offline_Media: CD-ROM

Recording_Capacity:

Recording_Density: 650

Recording_Density_Units: MB

Recording_Format: ISO 9660, Level 2, Mode 1

Fees: \$50 per CD-ROM

Available_Time_Period:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: unknown

Ending_Date: unknown

Metadata_Reference_Information:

Metadata_Date: 20010814

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

U.S. Department of Agriculture, Natural Resources Conservation Service,
National Cartography and Geospatial Center

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City: Fort Worth
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Hours_of_Service: 8:00 am to 4:30 pm, Central

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile

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