

# 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

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*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](mailto: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

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*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

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*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>

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*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.

Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government. The U.S. Department of Agriculture, nor any of its agencies are liable for misuse of the data, for damage, for transmission of viruses, or for computer contamination through the distribution of these data sets. The U.S. Department of Agriculture prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs.)

*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

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*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*Contact\_Person:* Geospatial Data Branch*Contact\_Address:*



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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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