# Delaware Water Gap National Recreation Area, Spatial Vegetation Data Metadata

Identification Information:

Citation:

Citation\_Information:

Originator: Pennsylvania Natural Heritage Program

Publication\_Date: 20060831

Title: DEWA\_Vegetation\_2006\_public

Geospatial\_Data\_Presentation\_Form: vector digital data

Larger\_Work\_Citation: Citation Information:

Originator: Pennsylvania Natural Heritage Program

Publication Date: 20060831

Title: Vegetation Classification and Mapping of Vegetation and Fire Fuel Models at Delaware Water Gap

National Recreation Area

Geospatial\_Data\_Presentation\_Form: Document: final technical report

Online\_Linkage: http://nrdata.nps.gov/dewa/dewadata/

Online\_Linkage: http://biology.usgs.gov/npsveg/dewa/index.html

Description:

Abstract: Vegetation map of Delaware Water Gap National Recreation Area provides local park-specific names for vegetation types, as well as crosswalks to the National Vegetation Classification System (NVCS), including association, alliance and formation level attributes. Crosswalks to the NVCS were determined on 29 June 2006.

Purpose: To provide an up-to-date digital geospatial vegetation database containing base line information about the park's vegetation associations to the park's resource managers in order to ensure effective, long-term management of the natural resources held in trust.

Time\_Period\_of\_Content:

Time\_Period\_Information:

 $Single\_Date/Time:$ 

Calendar\_Date: 20060831 Currentness Reference: 20060831

Status:

Progress: Complete

Maintenance\_and\_Update\_Frequency: None planned

Spatial Domain:

Description\_of\_Geographic\_Extent: Delaware Water Gap National Recreation Area and environs

Bounding Coordinates:

West\_Bounding\_Coordinate: -77.281698 East\_Bounding\_Coordinate: -77.153808 North\_Bounding\_Coordinate: 39.858207 South\_Bounding\_Coordinate: 39.773127

Keywords: Theme:

Theme\_Keyword\_Thesaurus: none

Theme\_Keyword: vegetation association Theme\_Keyword: vegetation classification Theme\_Keyword: National Park Service Theme\_Keyword: vegetation map

Theme\_Keyword: vegetation alliance Theme\_Keyword: vegetation formation

Place:

Place\_Keyword\_Thesaurus: none

Place\_Keyword: Delaware Water Gap National Recreation Area

Place\_Keyword: Pennsylvania Place Keyword: New Jersey

Taxonomy:

Keywords/Taxon:

Taxonomic Keyword Thesaurus: none

Taxonomic Keywords: Standardized National Vegetation Classification System

Taxonomic Keywords: vegetation classification

Taxonomic Keywords: alliance

Taxonomic\_Keywords: community association

Taxonomic\_Classification:
Taxon\_Rank\_Name: Kingdom
Taxon\_Rank\_Value: Plantae
Access\_Constraints: none
Use\_Constraints: none
Point\_of\_Contact:
Contact Information:

Contact\_Organization\_Primary:

Contact Organization: Pennsylvania Natural Heritage Program

Contact Position: Ecologist

Contact\_Address:

Address\_Type: mailing and physical address

Address: 208 Airport Drive

City: Middletown

State or Province: Pennsylvania

Postal\_Code: 10755 Country: USA

Contact\_Voice\_Telephone: (717) 948-3962 Contact Facsimile Telephone: (717) 948-3957

Native\_Data\_Set\_Environment: Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI

ArcCatalog 9.2.4.1420

### Data\_Quality\_Information:

Attribute Accuracy:

Attribute\_Accuracy\_Report:

The Kappa index for the preliminary vegetation association map was  $55.0\% \pm 2.5\%$ , with the overall percent accuracy calculated as 56.1%. The Kappa index and errors of commission and omission reported for the vegetation association map and many vegetation associations fall below the USGS/NPS vegetation mapping protocol requirement of 80%. However, this low level of accuracy is typical for vegetation mapping efforts of large parks.

Based on the thematic accuracy assessment data, the preliminary vegetation association map was revised and corrected to create the final vegetation association map depicted in this shapefile. Therefore, the thematic accuracy of this final vegetation association map is greater than that reported above for the preliminary vegetation association map. However, re-assessing the thematic accuracy of the final vegetation association map would require another round of intensive field sampling. The costs of a second round of sampling do not seem justified simply to quantify the level of increased accuracy in the final map.

Logical\_Consistency\_Report: Check Topology script was run on shapefile in ArcView 3.2. No silvers or gaps were found.

Completeness Report: Shapefile covers entire park area.

Lineage:

Process Step:

Process\_Description: A vegetation cover type map was delineated from a 2002 digital aerial photo mosaic. Then, 251 vegetation plots were sampled in the park. These data were analyzed to determine the number and distribution of vegetation associations present in the park. The vegetation cover type map was then revised and attributed with the association names. Then 1,130 thematic accuracy assessment points were randomly placed

within the association map, following a stratified random sampling plan. Based on the accuracy assessment data, the association map was revised further.

Process\_Date: 20060831

Process Step:

Process\_Description: Five polygons were identified to contain sensitive information and were merged into

surrounding polygons to protect the location information

Process Date: 20070201

#### Spatial\_Data\_Organization\_Information:

Direct\_Spatial\_Reference\_Method: Vector Point\_and\_Vector\_Object\_Information:

SDTS\_Terms\_Description:

SDTS Point and Vector Object Type: G-polygon

Point and Vector Object Count: 4682

## 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: coordinate pair

Coordinate\_Representation: Abscissa\_Resolution: 0.000016 Ordinate\_Resolution: 0.000016 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:

Detailed Description:

Entity\_Type:

Entity\_Type\_Label: DEWA\_Vegetation\_2006\_public Entity\_Type\_Definition: attribute from shapefile table

Entity\_Type\_Definition\_Source: Pennsylvania Natural Heritage Program

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: ALLIANCEID

Attribute\_Definition: record number of polygon

Attribute\_Definition\_Source: Add Record Number script in ArcView 3.2

Attribute\_Domain\_Values: Unrepresentable Domain: unque number for each polygon Attribute: Attribute Label: VEG STRC Attribute Definition: vegetation structure, leaf phenology and hydrologic regime of vegetation in polygon Attribute Definition Source: Pennsylvania Natural Heritage Program Attribute Domain Values: Unrepresentable\_Domain: vegetation structure, leaf phenology and hydrologic regime of vegetation in polygon Attribute: Attribute Label: FUEL MODEL Attribute Definition: fire behavior fuel model Attribute Definition Source: Anderson (1982) Attribute Domain Values: Unrepresentable Domain: Anderson (1982) fire behavior fuel models Attribute: Attribute Label: Shape Attribute Definition: Feature geometry. Attribute Definition Source: ESRI Attribute Domain Values: Unrepresentable\_Domain: Coordinates defining the features. Attribute: Attribute Label: FORM NAME Attribute\_Definition: formation level vegetation type Attribute Definition Source: National Vegetation Classification System Attribute Domain Values: Unrepresentable\_Domain: National Vegetation Classification System formation-level vegetation type names Attribute: Attribute Label: FORM CODE Attribute\_Definition: code for formation level vegetation type Attribute Definition Source: National Vegetation Classification System Attribute Domain Values: Unrepresentable\_Domain: National Vegetation Classification System code for formation-level vegetation types Attribute: Attribute Label: CVR CLSS Attribute Domain Values: Enumerated Domain: Enumerated Domain Value: 1 Enumerated\_Domain\_Value\_Definition: 0 - 20% canopy cover Enumerated Domain Value Definition Source: Finney (1998) Attribute Domain Values: Enumerated\_Domain: Enumerated Domain Value: 2 Enumerated\_Domain\_Value\_Definition: 21 - 50% canopy cover Enumerated\_Domain\_Value\_Definition\_Source: Finney (1998) Attribute Domain Values: Enumerated Domain: Enumerated Domain Value: 3 Enumerated\_Domain\_Value\_Definition: 51 - 80 % canopy cover Enumerated Domain Value Definition Source: Finney (1998) Attribute Domain Values: Enumerated Domain: Enumerated Domain Value: 4 Enumerated\_Domain\_Value\_Definition: 81 - 100% Enumerated\_Domain\_Value\_Definition\_Source: Finney (1998) Attribute\_Definition: canopy cover class

Attribute\_Definition\_Source: FARSITE model, Finney (1998)

Attribute:

Attribute\_Label: SIG\_DEAD Attribute\_Domain\_Values: Enumerated Domain:

Enumerated\_Domain\_Value: Y

Enumerated\_Domain\_Value\_Definition: denotes concentrations of dead and dying trees, typically eastern hemlocks

Enumerated\_Domain\_Value\_Definition\_Source: Pennsylvania Natural Heritage Program

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: <blank>

Enumerated\_Domain\_Value\_Definition: no dense concentrations of dead and dying trees, normal natural level of mortality

Enumerated\_Domain\_Value\_Definition\_Source: Pennsylvania Natural Heritage Program Attribute Definition: concentrations of dead and dying trees, typically eastern hemlocks

Attribute Definition Source: Pennsylvania Natural Heritage Program

Attribute:

Attribute\_Label: LOCAL\_NAME

Attribute\_Definition: local park-specific name for vegetation type

Attribute\_Definition\_Source: Fike 1999, Pennsylvania Natural Heritage Program, Walz et al 2006, New Jersey Natural Heritage Program, National Vegetation Classification System

Attribute Domain Values:

Unrepresentable\_Domain: park-specific local names for vegetation association

Attribute:

Attribute Label: ALLIA CODE

Attribute\_Definition: code for alliance-level vegetation type

Attribute\_Definition\_Source: National Vegetation Classification System

Attribute Domain Values:

Unrepresentable\_Domain: National Vegetation Classification System code for alliance-level vegetation types Attribute:

Attribute\_Label: ASSOC\_SCI

Attribute\_Definition: scientific name for vegetation association

Attribute\_Definition\_Source: National Vegetation Classification System

Attribute\_Domain\_Values:

Unrepresentable\_Domain: National Vegetation Classification System scientific name for vegetation associations

Attribute:

Attribute Label: ASSOC ENG

Attribute Definition: English name for vegetation association

Attribute\_Definition\_Source: National Vegetation Classification System

Attribute\_Domain\_Values:

Unrepresentable\_Domain: National Vegetation Classification System English name for vegetation associations Attribute:

Attribute\_Label: ASSOC\_CODE

Attribute\_Definition: code for vegetation association

Attribute\_Definition\_Source: National Vegetation Classification System

Attribute Domain Values:

Unrepresentable\_Domain: National Vegetation Classification System CEGL code for vegetation associations Attribute:

Attribute Label: ALLIAN SCI

Attribute Definition: scientific name for vegetation alliance

Attribute\_Definition\_Source: National Vegetation Classification System

Attribute Domain Values:

Unrepresentable\_Domain: National Vegetation Classification System scientific name for vegetation alliances Attribute:

Attribute\_Label: ALLIAN\_ENG

Attribute\_Definition: English name for vegetation alliance

Attribute Definition Source: National Vegetation Classification System

Attribute\_Domain\_Values:

Unrepresentable\_Domain: National Vegetation Classification System English name for vegetation alliances

#### Distribution Information:

Distributor:

Contact Information:

Contact\_Organization\_Primary:

Contact\_Organization: USGS Center for Biological Informatics

Contact\_Position: USGS-NPS Vegetation Mapping Program Coordinator

Contact Address:

Address Type: mailing and physical address

Address: United States Geological Survey, Center for Biological Informatics

Address: MS 302, Bldg 810, Room 8000

Address: Denver Federal Center

City: Denver

State or Province: Colorado

Postal\_Code: 80225 Country: USA

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Resource Description: Downloadable Data

Distribution\_Liability:

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Standard\_Order\_Process:

Digital\_Form:

Digital\_Transfer\_Information:
Format\_Name: HTML
Digital\_Transfer\_Option:

Online\_Option:

Computer\_Contact\_Information:

Network\_Address:

Network\_Resource\_Name: http://biology.usgs.gov/npsveg/dewa/index.html

Access\_Instructions: Internet Access

Fees: None

Metadata\_Reference\_Information: Metadata\_Date: 20080423 Metadata Review Date: 20080728

Metadata\_Contact:
Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact\_Address:

Address Type: mailing and physical address

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Contact\_Voice\_Telephone: (303) 202-4220 Contact\_Facsimile\_Telephone: (303) 202-4219

 $Contact\_Electronic\_Mail\_Address: gs-b-npsveg@usgs.gov$ 

Metadata\_Standard\_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part

1: Biological Data Profile, 1999

Metadata Standard Version: FGDC-STD-001-1998

Metadata\_Extensions:

Online\_Linkage: http://metadata.nbii.gov/portal/community/Communities/Toolkit/Metadata/FGDC\_Metadata/

Profile\_Name: Biological Data Profile FGDC-STD-001.1-1999