

## Tuzigoot National Monument, Accuracy Assessment Metadata

### Identification\_Information:

#### Citation:

##### Citation\_Information:

Originator: U.S. Geological Survey

Originator: Department of the Interior

Publication\_Date: 199705

Title: Tuzigoot National Monument Accuracy Assessment

Geospatial\_Data\_Presentation\_Form: database and report

##### Series\_Information:

Series\_Name: USGS-NPS Vegetation Mapping Program

Issue\_Identification: Tuzigoot National Monument

##### Publication\_Information:

Publication\_Place: Denver, CO

Publisher: USGS Biological Resources Division, Center for Biological Informatics

Online\_Linkage: <http://biology.usgs.gov/npsveg/tuzi/index.html>

### Description:

#### Abstract:

The accuracy assessment field work was performed in May, 1997 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Tuzigoot National Monument. The data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program. Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data.

#### Purpose:

To verify the accuracy of the mapped vegetation communities at Tuzigoot National Monument

### Time\_Period\_of\_Content:

#### Time\_Period\_Information:

##### Single\_Date/Time:

Calendar\_Date: 199705

Currentness\_Reference: Source of data collection

### Status:

Progress: Complete

Maintenance\_and\_Update\_Frequency: None planned

### Spatial\_Domain:

#### Bounding\_Coordinates:

West\_Bounding\_Coordinate: -112.028

East\_Bounding\_Coordinate: -112.017

North\_Bounding\_Coordinate: 34.78583

South\_Bounding\_Coordinate: 34.6584

Description\_of\_Geographic\_Extent: Tuzigoot National Monument, Nebraska and environs.

### Keywords:

#### Theme:

Theme\_Keyword\_Thesaurus: None

Theme\_Keyword: National Park Service

Theme\_Keyword: U.S. Geological Survey

Theme\_Keyword: vegetation classification

Theme\_Keyword: accuracy assessment

Theme\_Keyword: sampling plots

Theme\_Keyword: alliance

Theme\_Keyword: association

#### Place:

Place\_Keyword\_Thesaurus: None

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Place\_Keyword: Arizona  
Place\_Keyword: Verde Valley  
Place\_Keyword: Cottonwood  
Place\_Keyword: Tuzigoot National Monument  
Place\_Keyword: Yavapai county  
Place\_Keyword: Verde Valley  
Place\_Keyword: Verde River  
Place\_Keyword: Clarkdale

**Taxonomy:**

**Keywords/Taxon:**

Taxonomic\_Keyword\_Thesaurus: None  
Taxonomic\_Keywords: vegetation classification  
Taxonomic\_Keywords: Standardized National Vegetation Classification System  
Taxonomic\_Keywords: alliance  
Taxonomic\_Keywords: community association

**Taxonomic\_System:**

**Classification\_System/Authority:**

**Classification\_System\_Citation:**

**Citation\_Information:**

Originator: U.S. Government; Federal Geographic Data Committee  
Publication\_Date: 19971022  
Title: National Vegetation Classification Standard (NVCS)  
Geospatial\_Data\_Presentation\_Form: document  
Publication\_Information:  
Publication\_Place: Washington D.C.  
Publisher: Federal Geographic Data Committee  
Online\_Linkage: [http://www.fgdc.gov/standards/projects/FGDC-standards-projects/vegetation/index\\_html](http://www.fgdc.gov/standards/projects/FGDC-standards-projects/vegetation/index_html)

**Taxonomic\_Procedures:**

Vegetation alliances were identified; no specimens nor vouchers were collected as a part of this process

**Taxonomic\_Completeness:**

Conforms with FGDC standardized vegetation classification system.

**Taxonomic\_Classification:**

Taxon\_Rank\_Name: Kingdom  
Taxon\_Rank\_Value: Plantae

**Access\_Constraints:** None

**Use\_Constraints:**

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**Point\_of\_Contact:**

**Contact\_Information:**

**Contact\_Organization\_Primary:**

Contact\_Person: USGS-NPS Vegetation Mapping Program Coordinator

**Contact\_Organization:**

USGS Biological Resources Division, Center for Biological Informatics

**Contact\_Address:**

Address\_Type: Physical Address  
Address: USGS  
Address: Biological Resources Division, CBI  
Address: Building 810, Room 8000  
City: Denver  
State\_or\_Province: Colorado  
Postal\_Code: 80225-0046  
Country: USA  
Contact\_Address:

**USGS-NPS Vegetation Mapping Program**  
**Tuzigoot National Monument**

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Address\_Type: Mailing Address  
Address: USGS  
Address: Biological Resources Division, CBI  
Address: PO BOX 25046, DFC, MS302  
City: Denver  
State\_or\_Province: Colorado  
Postal\_Code: 80225-0046  
Country: USA  
Contact\_Voice\_Telephone: (303) 202-4220  
Contact\_Facsimile\_Telephone: 303-202-4229  
Contact\_Facsimile\_Telephone: 303-202-4219 (org)  
Contact\_Electronic\_Mail\_Address: gs-b-npsveg@usgs.gov

**Browse\_Graphic:**

Browse\_Graphic\_File\_Name: <http://biology.usgs.gov/npsveg/tuzi/images/tuziaa.pdf>  
Browse\_Graphic\_File\_Description:  
507 kbyte file showing vegetation associations and location of accuracy assessment points  
Browse\_Graphic\_File\_Type: PDF  
Native\_Data\_Set\_Environment: text file

**Data\_Quality\_Information:**

**Attribute\_Accuracy:**

**Attribute\_Accuracy\_Report:**

The attributes for the accuracy assessment were recorded in the field in May, 1997. Vegetation associations were identified based on the field key and plant identification. If additional communities were found within a 50 meter radius of the plot center, they were recorded as well. During the analysis, it was concluded that some attributes were in error and changed to match the mapped attributes. This was done by examination of the aerial photographs under stereoscopic view. The attributes were in error due to 1) spatial error in the GPS derived coordinates (4-8 meters), 2) change of vegetation community due to temporal changes, or differences between observation team identifications.

**Logical\_Consistency\_Report:**

All attributes are codes that correspond to vegetation communities and have been checked for typographical and logical errors.

**Completeness\_Report:**

All points were collected and analyzed. Several points fell outside the mapping area, so were discarded.

**Positional\_Accuracy:**

**Horizontal\_Positional\_Accuracy:**

**Horizontal\_Positional\_Accuracy\_Report:**

X,Y UTM coordinates representing each of the 35 plots were collected by P-code PLGR (Precise Lightweight GPS Receiver) receivers, with an accuracy ranging from +/- 10 m. to +/- 30 m. based on 60 second averaging at each point.

**Vertical\_Positional\_Accuracy:**

Vertical\_Positional\_Accuracy\_Report: Not applicable

**Lineage:**

**Methodology:**

Methodology\_Type: Field

Methodology\_Identifier:

Methodology\_Keyword\_Thesaurus: None

Methodology\_Keyword: Accuracy Assessment

Methodology\_Description:

Data points were located by use of a PLGR GPS receiver. Vegetation communities were identified on the basis of a dichotomous field key and plant species present.

**Methodology:**

Methodology\_Type: Lab

Methodology\_Identifier:

Methodology\_Keyword\_Thesaurus: None

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Methodology\_Keyword: Accuracy Assessment

Methodology\_Description:

Accuracy assessment points were compiled into an ARCINFO point coverage and intersected with the vegetation community coverage. The resulting INFO file was exported into a text file, imported into a spreadsheet, and the attributes from the accuracy assessment and the spatial data were compared. If the attributes did not compare, an analysis of the mismatch was made and either the AA attribute or the map attribute was changed based on identification of the community on the aerial photo.

Source\_Information:

Source\_Citation:

Citation\_Information:

Originator: U.S. National Biological Survey

Originator: U.S. National Park Service

Originator: Department of the Interior

Publication\_Date: 199411

Title: Accuracy Assessment Procedures, NBS/NPS Vegetation Mapping Program

Geospatial\_Data\_Presentation\_Form: procedures document

Publication\_Information:

Publication\_Place: Denver, CO

Publisher:

USGS, Biological Resources Division, Center for Biological Informatics

Other\_Citation\_Details:

Prepared by: Environmental Systems Research Institute; Redlands, CA and National Center for Geographic Information and Analysis, University of California, Santa Barbara, CA and The Nature Conservancy, Arlington, VA under contract from U.S. Department of the Interior National Biological Survey and National Park Service.

Type\_of\_Source\_Media: electronic document

Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Range\_of\_Dates/Times:

Beginning\_Date: 199411

Ending\_Date: Present

Source\_Currentness\_Reference: publication date

Source\_Citation\_Abbreviation: Accuracy Assessment Procedures Document

Source\_Contribution:

This document established the procedures and protocols for the accuracy assessment at Tuzigoot National Monument.

Source\_Information:

Source\_Citation:

Citation\_Information:

Originator: U.S. Geological Survey

Originator: Department of the Interior

Publication\_Date: 199705

Title:

Tuzigoot National Monument Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System

Geospatial\_Data\_Presentation\_Form: report

Series\_Information:

Series\_Name: USGS-NPS Vegetation Mapping Program

Issue\_Identification: Tuzigoot National Monument

Publication\_Information:

Publication\_Place: Denver, CO

Publisher:

USGS, Biological Resources Division, Center for Biological Informatics

Other\_Citation\_Details:

Created in large part by Environmental Systems Research Institute, Inc. Redlands, CA under contract from USGS/BRD/CBI.

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Type\_of\_Source\_Media: Disc

Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: 19950725

Source\_Currentness\_Reference: ground condition

Source\_Citation\_Abbreviation: Spatial data of vegetation communities for Tuzigoot National Monument.

Source\_Contribution:

The vegetation spatial data were tested for accuracy with the AA data.

Process\_Step:

Process\_Description:

The accuracy assessment field work was performed in May, 1997 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Tuzigoot National Monument. The data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program.

Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data.

Source\_Used\_Citation\_Abbreviation: Spatial data of vegetation communities for Tuzigoot National Monument.

Source\_Used\_Citation\_Abbreviation: Accuracy Assessment Procedure Document

Process\_Date: 199810

Spatial\_Data\_Organization\_Information:

Direct\_Spatial\_Reference\_Method: Point

Spatial\_Reference\_Information:

Horizontal\_Coordinate\_System\_Definition:

Planar:

Grid\_Coordinate\_System:

Grid\_Coordinate\_System\_Name: Universal Transverse Mercator

Universal\_Transverse\_Mercator:

UTM\_Zone\_Number: 12

Transverse\_Mercator:

Longitude\_of\_Central\_Meridian: -111

Latitude\_of\_Projection\_Origin: 0

False\_Easting: 500000

False\_Northing: 0

Scale\_Factor\_at\_Central\_Meridian: .9996

Planar\_Coordinate\_Information:

Planar\_Coordinate\_Encoding\_Method: Coordinate Pair

Coordinate\_Representation:

Abscissa\_Resolution: 1

Ordinate\_Resolution: 1

Planar\_Distance\_Units: Meters

Geodetic\_Model:

Horizontal\_Datum\_Name: North American Datum of 1983

Ellipsoid\_Name: Geodetic Reference System 80

Semi-major\_Axis: 6378137

Denominator\_of\_Flattening\_Ratio: 298.257

Entity\_and\_Attribute\_Information:

Overview\_Description:

Entity\_and\_Attribute\_Overview:

The National Vegetation Classification Standard is organized hierarchically to support conservation and resource stewardship applications across multiple scales. The upper levels of the hierarchy are based on the physical form or structure of the vegetation (physiognomy) and have been refined from the international standards developed by the United Nations Educational, Scientific, and

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Cultural Organization (UNESCO). The two most detailed levels of the hierarchy are based on the species composition of existing vegetation (floristics) and reflect the phyto-sociological standards that were originally developed by European ecologists. The vegetation classification is continually advanced through the collection and analysis of new field data and will be greatly strengthened during the course of the USGS-NPS mapping efforts. Data file attributes include species, alliance, community element, and land cover.

### Entity\_and\_Attribute\_Detail\_Citation:

Grossman, D. Et al. 1994. National Park Service/National Biological Service Vegetation Mapping Project, Standardized National Vegetation Classification System 209 pp.

### Distribution\_Information:

#### Distributor:

#### Contact\_Information:

#### Contact\_Person\_Primary:

Contact\_Person: USGS-NPS Vegetation Mapping Program Coordinator

Contact\_Organization: Center For Biological Informatics, USGS/BRD

#### Contact\_Address:

Address\_Type: mailing address

Address: P.O. Box 24046, MS-302

City: Denver

State\_or\_Province: Colorado

Postal\_Code: 80225

Country: USA

Contact\_Voice\_Telephone: 303-202-4259

Contact\_Facsimile\_Telephone: 303-202-4229

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#### 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:

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Network\_Resource\_Name: <http://biology.usgs.gov/npsveg/tuzi/index.html>

Fees: None

Metadata\_Reference\_Information:

Metadata\_Date: 20011022

Metadata\_Review\_Date: 20071107

Metadata\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact\_Address:

Address\_Type: mailing and physical address

Address:

U.S. Geological Survey, Center for Biological Informatics, MS 302,

Room 8000, Building 810, Denver Federal Center

City: Denver

State\_or\_Province: Colorado

Postal\_Code: 80225

Country: USA

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

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

Contact\_Electronic\_Mail\_Address: [gs-b-npsveg@usgs.gov](mailto: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/](http://metadata.nbii.gov/portal/community/Communities/Toolkit/Metadata/FGDC_Metadata/)

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