

Polygonal Wetlands of the Navajo Nation



Data format: Shapefile

File or table name: NN_Wetlands_Polys

Coordinate system: Geographic

Theme keywords: Wetlands, Riparian, Palustrine, Lacustrine, Intermittent, Perennial, National Wetlands Inventory, NWI, Areal

Abstract: Polygon shapefile of Wetlands of the Navajo Nation, based upon generalized 1:100,000 scale National Wetlands Inventory (NWI) Maps, covering only the areas of the Navajo Nation in Arizona and New Mexico and within the Six AUM Regions.

FGDC and ESRI Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
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Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) [Content Standard for Digital Geospatial Metadata \(CSDGM\)](#). Elements shown with green text are defined in the [ESRI Profile of the CSDGM](#). Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:

Citation information:

Originators: Jim Dick, Regional Wetlands Coordinator, U. S. Fish and Wildlife Service, Albuquerque, NM

Title:

Polygonal Wetlands of the Navajo Nation

***File or table name:** NN_Wetlands_Polys

Publication date: 1997 to Present

***Geospatial data presentation form:** vector digital data

Publication information:

Publication place: Albuquerque, NM

Publisher: US Fish and Wildlife Service, Region 2

Other citation details:

Jim Dick provided the following 1:100,000 scale NWI maps: Cameron, Canyon De Chelly, Chaco Canyon, Chaco Mesa, Farmington, Flagstaff, Gallup, Ganado, Glen Canyon Dam, Grants, Kayenta, Pinon, Polacca, Rock Point, Sanders, Toadlena, Tuba City, Winslow, and Zuni. Exact ground condition data for each quad is unknown.

***Online linkage:**

\\Terra_dc\Navajo\NAUM_NN_Summary\DB\Sens_Env\NN_Wetlands_Polys.shp

Description:

Abstract:

Polygon shapefile of Wetlands of the Navajo Nation, based upon generalized 1:100,000 scale National Wetlands Inventory (NWI) Maps, covering only the areas of the Navajo Nation in Arizona and New Mexico and within the Six AUM Regions.

Purpose:

This dataset was developed to support the U.S. Environmental Protection Agency (USEPA) in its undertaking of an extensive scientific study to determine if abandoned uranium mines (AUM) and related mine features pose a significant risk to human health and the environment, and to identify areas requiring action to reduce risk for the Navajo Nation.

***Language of dataset:** en

Time period of content:

Time period information:

Range of dates/times:

Beginning date: 1977

Ending date: Present

Currentness reference:

ground condition

Status:

Progress: Complete

Maintenance and update frequency: None planned

Spatial domain:

Bounding coordinates:

***West bounding coordinate:** -111.892804

***East bounding coordinate:** -107.866188

***North bounding coordinate:** 37.001847

***South bounding coordinate:** 35.133542

Local bounding coordinates:

***Left bounding coordinate:** -111.892804

***Right bounding coordinate:** -107.866188

***Top bounding coordinate:** 37.001847

***Bottom bounding coordinate:** 35.133542

Keywords:

Theme:

Theme keywords: Wetlands, Riparian, Palustrian, Lacustrine, Intermittent, Perennial,

National Wetlands Inventory, NWI, Areal

Theme keyword thesaurus: None

Place:

Place keywords: Navajo Nation, Arizona, New Mexico, United States

Place keyword thesaurus: None

Access constraints: None

Use constraints:

Polygonal wetlands of the Navajo Nation, based upon generalized 1:100,000 scale National Wetlands Inventory (NWI) Maps, covering only the areas of the Navajo Nation in Arizona and New Mexico and within the Six AUM Regions.

Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

The data are provided "as-is," without warranty of any kind, either express or implied.

These data have been compiled as part of a desktop project to collect existing spatial data to support the study of Navajo abandoned uranium mines. No field verifications were undertaken as part of this desktop study.

Point of contact:

Contact information:

Contact organization primary:

Contact organization: U. S. Environmental Protection Agency, Region 9, Superfund Program

Contact address:

Address type: mailing and physical address

Address:

75 Hawthorne St (SFD 8-2)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-972-3167

Data set credit:

Jim Dick, Regional Wetlands Coordinator, U. S. Fish and Wildlife Service, Albuquerque, NM provided NWI mylar 1:100,000 scale maps for scanning.

Security information:

Security classification system: None

***Native dataset format:** Shapefile

***Native data set environment:**

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

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Data Quality Information:

Attribute accuracy:**Attribute accuracy report:**

Checked against source NWI maps

Completeness report:

Polygonal wetlands of the Navajo Nation, based upon generalized 1:100,000 scale National Wetlands Inventory (NWI) Maps, covering only the areas of the Navajo Nation in Arizona and New Mexico and within the Six AUM Regions.

Positional accuracy:**Horizontal positional accuracy:****Horizontal positional accuracy report:**

consistent at best with 1:100,000 to 1:250,000 scale

Lineage:**Source information:****Source citation abbreviation:**

NWI

Source contribution:

Jim Dick provided the following 1:100,000 scale NWI maps: Cameron, Canyon De Chelly, Chaco Canyon, Chaco Mesa, Farmington, Flagstaff, Gallup, Ganado, Glen Canyon Dam, Grants, Kayenta, Pinon, Polacca, Rock Point, Sanders, Toadlena, Tuba City, Winslow, and Zuni. Exact ground condition data for each quad is unknown. Some maps appear to have been enlarged 1:250,000 scale maps, rather than 1:100,000. This is the sole source of data for this shapefile.

Process step:**Process description:**

Mylar NWI maps were obtained on loan from the USFWS, SW Region. Maps were available only for AZ and NM. The maps were scanned and georeferenced to 1:100,000 scale DRGs. The wetlands lines were digitized and attributed with the codes identified on the wetlands maps. Only the areas within the six AUM regions were automated.

Line features were used to create polygons via an Arc coverage, and the NWI maps were used to attribute the wetlands polygons.

Wetlands polygons were merged into a few broad classes, identified in the attribute SYSTEM:

Lacustrine
Palustrine
Riverine, Intermittent
Riverine, Perennial

The features were merged based upon Cowardin's Classification of Wetlands and Deepwater Habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Washington, DC. FWS/OBS-79/31. Polygons were dissolved based upon SYSTEM.

Wetlands that are within drainages directly downstream from Abandoned Uranium Mines (AUMs) were identified in the AUM_Drain attribute with a Yes for the affirmative and No otherwise.

Process software and version: ESRI ArcGIS 9.1

Process date: July 2007

Source used citation abbreviation:

NWI

Process contact:

Contact information:

Contact organization primary:

Contact organization: TerraSpectra Geomatics

Contact address:

Address type: mailing and physical address

Address:

2700 E Sunset Rd, Ste A-10

City: Las Vegas

State or province: NV

Postal code: 89120

Country: USA

Contact voice telephone: 702-795-8254

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Spatial Data Organization Information:

***Direct spatial reference method:** Vector

Point and vector object information:

SDTS terms description:

***Name:** NN_Wetlands_Polys

***SDTS point and vector object type:** G-polygon

***Point and vector object count:** 2814

ESRI terms description:

***Name:** NN_Wetlands_Polys

***ESRI feature type:** Simple

***ESRI feature geometry:** Polygon

***ESRI topology:** FALSE

***ESRI feature count:** 2814

***Spatial index:** TRUE

***Linear referencing:** FALSE

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Spatial Reference Information:

Horizontal coordinate system definition:

Coordinate system name:

***Geographic coordinate system name:** GCS_North_American_1983

Geographic:

***Latitude resolution:** 0.000000

- ***Longitude resolution:** 0.000000
- ***Geographic coordinate units:** Decimal degrees

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

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Entity and Attribute Information:**Detailed description:**

- ***Name:** NN_Wetlands_Polys

Entity type:

- ***Entity type label:** NN_Wetlands_Polys
- ***Entity type type:** Feature Class
- ***Entity type count:** 2814

Entity type definition:

Wetlands

Attribute:

- ***Attribute label:** FID
- ***Attribute alias:** FID
- ***Attribute definition:**
Internal feature number.
- ***Attribute definition source:**
ESRI

- ***Attribute type:** OID
- ***Attribute width:** 4
- ***Attribute precision:** 0
- ***Attribute scale:** 0

Attribute domain values:

- ***Unrepresentable domain:**
Sequential unique whole numbers that are automatically generated.

Attribute:

- ***Attribute label:** Shape
- ***Attribute alias:** Shape
- ***Attribute definition:**
Feature geometry.
- ***Attribute definition source:**
ESRI

- ***Attribute type:** Geometry
- ***Attribute width:** 0
- ***Attribute precision:** 0
- ***Attribute scale:** 0

Attribute domain values:

***Unrepresentable domain:**
Coordinates defining the features.

Attribute:

***Attribute label:** SYSTEM

***Attribute alias:** SYSTEM

***Attribute type:** String

***Attribute width:** 254

Attribute:

***Attribute label:** AUM_Drain

***Attribute alias:** AUM_Drain

***Attribute type:** String

***Attribute width:** 8

Overview description:

Dataset overview:

There are 2814 Wetlands polygons.

Entity and attribute overview:

There are two thematic attributes:

SYSTEM - Broad class of wetlands, including:

Lacustrine - lakes usually greater than 2 acres

Palustrine - marshes, swamps, bogs, bottomlands, etc.

Riverine, Intermittent - intermitent rivers, streams, arroyos, washes, etc.

Riverine, Perennial - perennial rivers, streams, arroyos, washes, etc.

AUM_Drain - Identifies with a Yes that a polygonal wetland is within a drainage directly downstream from an Abandoned Uranium Mine (AUMs). Others recieved a No.

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Distribution Information:

Distributor:

Contact information:

Contact organization primary:

Contact organization: U. S. Environmental Protection Agency, Region 9,
Superfund Records Center

Contact address:

Address type: mailing address

Address:

95 Hawthorne St (SFD-7C)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-536-2033

Resource description: Downloadable Data

Distribution liability:

Although these data have been processed successfully on a computer system for the USEPA, no warranty expressed or implied is made by the USEPA or its contractors regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. No responsibility is assumed by USEPA or its contractors in the use of these data.

Standard order process:**Digital form:****Digital transfer information:**

*Transfer size: 1.914

*Dataset size: 1.914

Custom order process:

Contact the USEPA for a custom order.

Technical prerequisites:

Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

Available time period:**Time period information:****Single date/time:**

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Metadata Reference Information:

*Metadata date: 20070803

*Language of metadata: en

Metadata contact:**Contact information:****Contact person primary:**

Contact person: Andrew Bain

Contact organization: U. S. Environmental Protection Agency, Region 9,
Superfund Program

Contact position: Project Manager

Contact address:

Address type: mailing and physical address

Address:

75 Hawthorne St (SFD 8-2)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-972-3167

*Metadata standard name: FGDC Content Standards for Digital Geospatial Metadata

*Metadata standard version: FGDC-STD-001-1998

*Metadata time convention: local time

Metadata access constraints: None.

Metadata use constraints:

None.

Metadata security information:

Metadata security classification system: None

Metadata extensions:

***Online linkage:** <http://www.esri.com/metadata/esriprof80.html>

***Profile name:** ESRI Metadata Profile

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Geoprocessing History:

Process:

***Process name:** Project_2

***Date:** 20070803

***Time:** 145052

***Tool location:** C:\Program Files\ArcGIS\ArcToolbox\Toolboxes\Data Management Tools.tbx\Project

***Command issued:** Project

S:\NAUM_NN_Summary\DB\Sens_Env\NN_Wetlands_Polys_u83.shp

S:\NAUM_NN_Summary\DB\Sens_Env\NN_Wetlands_Polys.shp GEOGCS

['GCS_North_American_1983', DATUM['D_North_American_1983', SPHEROID

['GRS_1980', 6378137.0, 298.257222101]], PRIMEM['Greenwich', 0.0], UNIT

['Degree', 0.0174532925199433]] #

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Binary Enclosures:

Thumbnail:

Enclosure type: Picture



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