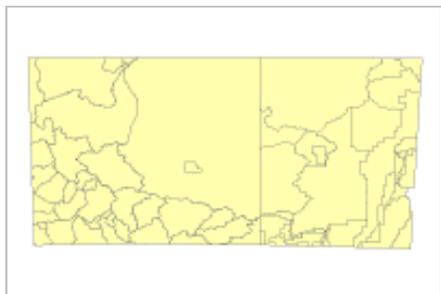


Groundwater Basins for the Navajo Nation



Data format: Shapefile

File or table name: NN_GW_Basins

Coordinate system: Geographic

Theme keywords: Groundwater Basins, Groundwater Sub-basins, Declared Groundwater Basins

Abstract: This polygon shapefile delineates Groundwater Basins for the Navajo Nation. This dataset was developed by merging datasets from the Arizona Department of Water Resources (ADWR) and the New Mexico Office of the State Engineer/Interstate Stream Commission (OSE/ISC). On the Arizona side basins and sub-basins are delineated. On the New Mexico side State Engineer declared basins are delineated. The names of the basins and in AZ the sub-basins are provided.

FGDC and ESRI Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)
- [Binary Enclosures](#)

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: US EPA Region 9

Title:

Groundwater Basins for the Navajo Nation

***File or table name:** NN_GW_Basins

Publication date: 2003

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

Publication information:

Publication place: San Francisco, CA

Publisher: US EPA Region 9

***Online linkage:** \\Terra_dc\Navajo\NAUM_NN_Summary\Products\FINAL\TSG-07066

[\DVD_GIS\DB\Water\NN_GW_Basins.shp](#)

Description:

Abstract:

This polygon shapefile delineates Groundwater Basins for the Navajo Nation. This dataset was developed by merging datasets from the Arizona Department of Water Resources (ADWR) and the New Mexico Office of the State Engineer/Interstate Stream Commission (OSE/ISC). On the Arizona side basins and sub-basins are delineated. On the New Mexico side State Engineer declared basins are delineated. The names of the basins and in AZ the sub-basins are provided.

Purpose:

Groundwater basins are provided for the purpose of delineating and identifying state recognized groundwater basins.

***Language of dataset:** en

Time period of content:

Time period information:

Single date/time:

Calendar date: 2003

Currentness reference:

publication date

Status:

Progress: Complete

Maintenance and update frequency: None planned

Spatial domain:

Bounding coordinates:

***West bounding coordinate:** -113.472361

***East bounding coordinate:** -105.944689

***North bounding coordinate:** 37.003854

***South bounding coordinate:** 33.345145

Local bounding coordinates:

***Left bounding coordinate:** -113.472361

***Right bounding coordinate:** -105.944689

***Top bounding coordinate:** 37.003854

***Bottom bounding coordinate:** 33.345145

Keywords:

Theme:

Theme keywords: Groundwater Basins, Groundwater Sub-basins, Declared Groundwater Basins

Theme keyword thesaurus: None

Place:

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

Place keyword thesaurus: None

Access constraints: None.

Use constraints:

This dataset covers only the Navajo Nation area within the states of Arizona and New Mexico; and not within Utah. Only within Arizona are sub-basins delineated. The stateline is maintained in this dataset because the delineations in NM or AZ do not necessarily carryover into AZ or NM, respectively. These data are appropriate for 1:100,000 scale and smaller on the New Mexico side. Appropriate scale on the Arizona side is unknown, but is certainly

1: 100,000 scale and likely smaller scale.

Use of these data generally requires computer workstations with ESRI's Arc/Info (7.x or above), ArcGIS (8.x or above), or ArcView (3.x or 8.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

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

[Back to Top](#)

Data Quality Information:

Attribute accuracy:

Attribute accuracy report:

On the NM side, The following methods were used to test attribute accuracy: manual comparison of the source with hardcopy plots, symbolized display of the POU on an interactive computer system, and selected attributes that could not be visually verified. In addition, software validated feature types and characteristics against a master set of types and characteristics. No report was provided by AZ, however, the attributes were checked against the AZ source dataset.

Logical consistency report:

Points, nodes, lines, and areas conform to topological rules on the NM side. None provided by AZ.

Completeness report:

This dataset covers only the Navajo Nation area within the states of Arizona and New Mexico; and not within Utah. Only within Arizona are sub-basins delineated. The stateline is maintained in this dataset because the delineations in NM or AZ do not necessarily carryover

into AZ or NM, respectively. These data are appropriate for 1:100,000 scale and smaller.

Positional accuracy:

Horizontal positional accuracy:

Horizontal positional accuracy report:

The basins are administratively defined and scaled from 1:24,000 USGS quads on the NM side. None information was available for the AZ data.

Lineage:

Source information:

Source citation:

Citation information:

Originators: New Mexico Office of the State Engineer/Interstate Stream Commission (OSE/ISC)

Title:

DECLARED_GROUND_WATER_BASIN

Publication date: November 6, 2001

Geospatial data presentation form: vector digital data

Publication information:

Publication place: Santa Fe, NM

Publisher: New Mexico Office of the State Engineer/Interstate Stream Commission (OSE/ISC)

Online linkage: <http://www.seo.state.nm.us/>

Source scale denominator: 100,000

Type of source media: download

Source citation abbreviation:

NM Declared Basins

Source contribution:

This NM dataset was the sole source of locational and attribute information for the on the groundwater basins on the NM side of the Navajo Nation.

Source time period of content:

Time period information:

Single date/time:

Calendar date: November 6, 2001

Source currentness reference:

publication date

Source information:

Source citation:

Citation information:

Originators: Arizona Department of Water Resources

Title:

Groundwater subbasin polygons

Publication date: 04/04/1999

Geospatial data presentation form: vector digital data

Publication information:

Publication place: Phoenix, Arizona

Publisher: Arizona Department of Water Resources

Other citation details:

Arizona Well Registry CD-ROM, 1st beta Arizona Department of Water Resources Information Technology Division Geographic Information Services 500 North Third Street Phoenix, Arizona 85004 (602) 417-2404 Customer Service phone (602) 417-2401 fax adwrgis@adwr.state.az.us

Online linkage: <http://www.water.az.gov/adwr/>

Source scale denominator: NA

Type of source media: CD-ROM

Source citation abbreviation:

AZ subbasin.shp

Source contribution:

This AZ dataset was the sole source of locational and attribute information on the groundwater basins and subbasins for the AZ side of the Navajo Nation.

Source time period of content:

Time period information:

Single date/time:

Calendar date: 04/04/1999

Source currentness reference:

publication date

Process step:

Process description:

From the AZ subbasin.shp only the attributes BASIN and SUBBASIN were kept. From the NM Declared Basins only BASIN was kept after calcing the BASIN_DESC attribute to it. SUBBASIN was added with no values. The two shape files were merged. Only maintaining the attributes BASIN and SUBBASIN. The stateline boundary between the two state datasets was edited to perfectly merge them along the stateline. This dataset was clipped to the Navajo Nation area, producing the final nn_gw_basins.shp.

Process software and version: ESRI ArcGIS 8.2

Process date: 2003

Source used citation abbreviation:

NM Declared Basins

Source used citation abbreviation:

AZ subbasin.shp

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

[Back to Top](#)

Spatial Data Organization Information:

***Direct spatial reference method:** Vector

Point and vector object information:

SDTS terms description:

- ***Name:** NN_GW_Basins
- ***SDTS point and vector object type:** G-polygon
- ***Point and vector object count:** 78

ESRI terms description:

- ***Name:** NN_GW_Basins
- ***ESRI feature type:** Simple
- ***ESRI feature geometry:** Polygon
- ***ESRI topology:** FALSE
- ***ESRI feature count:** 78
- ***Spatial index:** TRUE
- ***Linear referencing:** FALSE

[Back to Top](#)

Spatial Reference Information:

Horizontal coordinate system definition:

Coordinate system name:

- ***Geographic coordinate system name:** GCS_North_American_1983

Geographic:

- Latitude resolution:** 0.000001
- Longitude resolution:** 0.000001
- ***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

[Back to Top](#)

Entity and Attribute Information:

Detailed description:

- ***Name:** NN_GW_Basins

Entity type:

- ***Entity type label:** NN_GW_Basins
- ***Entity type type:** Feature Class
- ***Entity type count:** 78

Entity type definition:

Groundwater basins of the Navajo Nation

Entity type definition source:

TerraSpectra Geomatics

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:** Id
 ***Attribute alias:** Id
Attribute definition:
 Arbitrary integer
Attribute definition source:
 ESRI

***Attribute type:** Number
 ***Attribute width:** 6

Attribute:

***Attribute label:** BASIN
 ***Attribute alias:** BASIN
Attribute definition:
 Basin Name
Attribute definition source:
 OSE/ISC and ADWR

***Attribute type:** String
 ***Attribute width:** 40

Attribute:

***Attribute label:** SUBBASIN
 ***Attribute alias:** SUBBASIN
Attribute definition:

Subbasin name only in AZ
Attribute definition source:
 ADWR

***Attribute type:** String
 ***Attribute width:** 80

Overview description:

Dataset overview:

Seventy-eight polygons identify basins on the NM side of the Navajo Nation and basins and subbasins on the AZ side. The stateline is maintained in this dataset because the delineations in NM or AZ do not necessarily carryover into AZ or NM, respectively.

Entity and attribute overview:

There are two thematic attributes. BASIN identifies the basin name. SUBBASIN identifies the subbasin name only in AZ. None are identified in NM.

[Back to Top](#)

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 US EPA, no warranty expressed or implied is made by the US EPA 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 US EPA or its contractors in the use of these data.

Standard order process:

Digital form:

Digital transfer information:

***Transfer size:** 0.664

***Dataset size:** 0.664

Custom order process:

Contact the US EPA for a custom order.

Technical prerequisites:

Use of this data generally requires computer workstations with ESRI's Arc/Info (7.x or above), ArcGIS (8.x or above), or ArcView (3.x or 8.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:

[Back to Top](#)

Metadata Reference Information:

***Metadata date:** 20070811

***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>

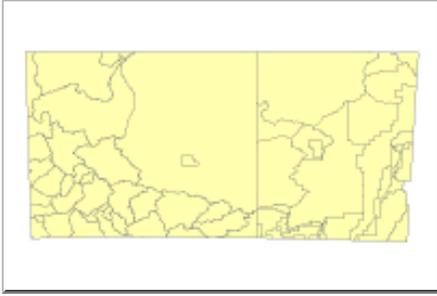
***Profile name:** ESRI Metadata Profile

[Back to Top](#)

Binary Enclosures:

Thumbnail:

Enclosure type: Picture



[Back to Top](#)