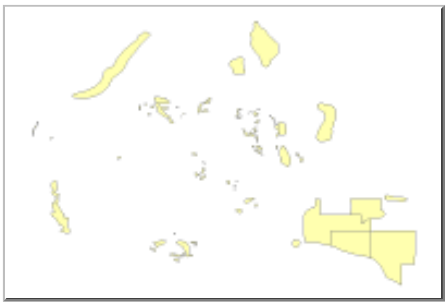
Navajo Nation Mining Districts



Data format: Shapefile

File or table name: NN_Mining_Districts

Coordinate system: Geographic

Theme keywords: Mining Districts, Mineral Commodities, Uranium Districts, Uranium-Vanadium Districts

Abstract: This is a polygon shapefile that locates and provides information on the mining districts of the Navajo Nation.

FGDC and ESRI Metadata:

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: Arizona Geological Survey, New Mexico Bureau of Geology and Mineral Resources, Utah Geological and Mineral Survey and U.S. Geological Survey

Title:

Navajo Nation Mining Districts

***File or table name:** NN_Mining_Districts

Publication date: July 2007

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

Publication information:

Publication place: San Francisco, CA

Publisher: US EPA Region 9 Superfund

*Online linkage:
\\Terra_dc\Navajo\NAUM_NN_Summary\DB\Geology\NN_Mining_Districts.shp

Description:

Abstract:

This is a polygon shapefile that locates and provides information on the mining districts of the Navajo Nation.

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:

Single date/time:

Calendar date: July 2007

Currentness reference:

publication date

Status:

Progress: Complete

Maintenance and update frequency: None planned

Spatial domain:

Bounding coordinates:

***West bounding coordinate:** -111.650637

***East bounding coordinate:** -107.589018

***North bounding coordinate:** 37.872168

***South bounding coordinate:** 35.077979

Local bounding coordinates:

***Left bounding coordinate:** -111.650637

***Right bounding coordinate:** -107.589018

***Top bounding coordinate:** 37.872168

***Bottom bounding coordinate:** 35.077979

Keywords:

Theme:

Theme keywords: Mining Districts, Mineral Commodities, Uranium Districts, Uranium-Vanadium Districts

Theme keyword thesaurus: None

Place:

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

Place keyword thesaurus: None

Access constraints: None

Use constraints:

This dataset identifies mining districts for the area of the Navajo Nation.

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

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:

Completeness report:
This dataset identifies mining districts for the area of the Navajo Nation.

Lineage:
Source information:
Type of source media: Digital Download
Source citation abbreviation:
AZ DI-23
Source contribution:
Arizona Geological Survey
Digital Information Series DI-23
Stephen M. Richard, editor
Database for Mineral Districts in the State of Arizona
Published January 2001
Published dataset for AZ mining districts is "mineraldistricts.shp"

Source information:

Source citation abbreviation:

NM OFR-494

Source contribution:

New Mexico Bureau of Geology and Mineral Resources
Open-file Report 494
Virginia T. McLemore, Gretchen K. Hoffman, Mark Mansell, Glen R. Jones, Christian B. Krueger, and Maureen Wilks
MINING DISTRICTS IN NEW MEXICO
Published dataset for the NM mining districts is the Geodatabase "NMMD_14nov05.mdb".

Source information:

Source citation abbreviation:

UT Map M-215 and Map M-70

Source contribution:

Utah Geological Survey

Map-215
Uranium and vanadium map of Utah
Robert W. Gloyn, Roger L. Bon, Sharon Wakefield, and Ken Krahulec, 2005
1:750000

Map-70
Utah mining district areas and principal metal occurrences
Hellmut H Doelling and Edwin W Tooker, 1983

These are both Acrobat PDF maps.

Process step:

Process description:

An empty polygon shapefile was created. The following attributes were set up as generally common to all the data sources:

DistrictID - Alphanumeric mining district identifier used by data source
District - District Name provided by data source
Alias - alternative or alias names for the mining district provided by data source
Subdist - Subdistrict name provided by data source
Commodity - primary commodity mined in the mining district provided by data source
YrDiscover - Year of Discovery for the fprimary commodity in the mining district provided by data source
YrInitProd - Year of Initial Production provided by data source
YrLastProd - Year of Last Production provided by data source
EstProd - Estimated Production provided by data source
Comments - Comments from the data source
Source - data source for the mining district polygon and attributes (NM OFR-494, AZ DI-23, UT Map M-125, UT Map M-70)

From the NM OFR-494 geodatabase and the AZ DI-23 shapefile polygons were selected that covered the Navajo Nation, and transferred into this dataset. Attributes were transferred.

The mining district polygons in Utah were from the UT Map M-125 source and one

from the UT Map M-70. These PDF maps were exported to JPEG and georeferenced. Mining districts that covered the Navajo Nation in UT were digitized heads up, and attributed based upon the map sources.

In AZ note that the four polygons of the Chimle and the three polygons of the Nazlini Districts are noted by the AZ Geological Survey to be based upon MILS lications or Wilson, et al., 1969, and are also considered areas of uranium prospects and no production.

Some attributes are absent any information based upon the various data sources.

Process software and version: ESRI ArcGIS 9.1
Process date: July 2007

Source used citation abbreviation:
NM OFR-494, AZ DI-23, UT Map M-125, UT Map M-70

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

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Spatial Data Organization Information:

Direct spatial reference method: Vector

Point and vector object information:
SDTS terms description:
Name: NN_Mining_Districts
SDTS point and vector object type: G-polygon
Point and vector object count: 71

ESRI terms description:
Name: NN_Mining_Districts
ESRI feature type: Simple
ESRI feature geometry: Polygon
ESRI topology: FALSE
ESRI feature count: 71
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_Mining_Districts

Entity type:

*__Entity type label:__ NN_Mining_Districts
*__Entity type type:__ Feature Class
*__Entity type count:__ 71

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: DistrictID
*Attribute alias: DistrictID

*Attribute type: String
*Attribute width: 7

Attribute:
*Attribute label: District
*Attribute alias: District

*Attribute type: String
*Attribute width: 50

Attribute:
*Attribute label: Aliases
*Attribute alias: Aliases

*Attribute type: String
*Attribute width: 50

Attribute:
*Attribute label: Subdist
*Attribute alias: Subdist

*Attribute type: String
*Attribute width: 50

Attribute:
*Attribute label: Commodity
*Attribute alias: Commodity

*Attribute type: String
*Attribute width: 50

Attribute:
*Attribute label: YrDiscover
*Attribute alias: YrDiscover

*Attribute type: Number
*Attribute width: 9

Attribute:
*Attribute label: YrInitProd
*Attribute alias: YrInitProd

*Attribute type: Number

*Attribute width: 9

Attribute:
*Attribute label: YrLastProd
*Attribute alias: YrLastProd

*Attribute type: Number
*Attribute width: 9

Attribute:
*Attribute label: EstProd
*Attribute alias: EstProd

*Attribute type: Number
*Attribute width: 9

Attribute:
*Attribute label: Comments
*Attribute alias: Comments

*Attribute type: String
*Attribute width: 254

Attribute:
*Attribute label: Source
*Attribute alias: Source

*Attribute type: String
*Attribute width: 35

Overview description:
Dataset overview:
There are 71 polygons for mining districts.

Entity and attribute overview:
There are eleven thematic attributes:

DistrictID - Alphanumeric mining district identifier used by data source
District - District Name provided by data source
Alias - alternative or alias names for the mining district provided by data source
Subdist - Subdistrict name provided by data source
Commodity - primary commodity mined in the mining district provided by data source
YrDiscover - Year of Discovery for the fprimary commodity in the mining district provided by data source
YrInitProd - Year of Initial Production provided by data source
YrLastProd - Year of Last Production provided by data source
EstProd - Estimated Production provided by data source
Comments - Comments from the data source
Source - data source for the mining district polygon and attributes (NM OFR-494, AZ DI-23, UT Map M-125, UT Map M-70)

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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

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:** 0.029
***Dataset size:** 0.029

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:** 20070720

***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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Binary Enclosures:

Thumbnail:
Enclosure type: Picture

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