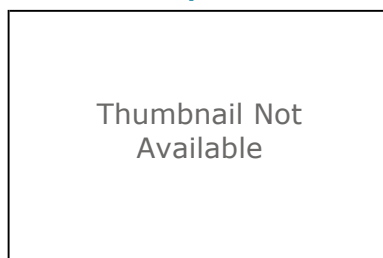


Potentiometric Surface Map of the Unconsolidated Aquifers of Greene County, Indiana

Shapefile



Tags

Potentiometric surface, static water level, groundwater, water wells, water tables, Greene County, Indiana, USA

Summary

Display and/or analyses requiring spatial distribution of potentiometric surface elevations in Greene County, Indiana.

Description

This file is a digital geospatial polyline coverage of the unconsolidated potentiometric surface elevations mapped for Greene County, Indiana.

Credits

It is requested that the Indiana Department of Natural Resources, Division of Water be cited in any products generated from this data.

Use limitations

Acknowledgement of the following agency in products derived from these data: Indiana Department of Natural Resources, Division of Water. This map was compiled by staff of the Indiana Department of Natural Resources, Division of Water using data believed to be reasonably accurate. However, a degree of error is inherent in all maps. This product is distributed "as-is" without warranties of any kind, either expressed or implied. The maps are intended for use only at the published scale. The information on these media is proprietary to the State of Indiana, Indiana Department of Natural Resources, Division of Water. Any copying, adaptation, or distribution of these data without the express written consent of IDNR-DOW is discouraged. It is not recommended that these data be used for purposes other than general estimate of static water level elevations. Site specific conditions may vary considerably from mapped estimates.

Extent

West	-87.063707	East	-86.942835
North	39.128688	South	38.924169

Scale Range

Maximum (zoomed in)	1:5,000
Minimum (zoomed out)	1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE [geoscientificInformation](#)

* CONTENT TYPE [Downloadable Data](#)

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION [No](#)

PLACE KEYWORDS [Greene County, Indiana, USA](#)

THEME KEYWORDS [Potentiometric surface, static water level, groundwater, water wells, water tables](#)

[Hide Topics and Keywords](#) ▲

Citation ►

TITLE [Potentiometric Surface Map of the Unconsolidated Aquifers of Greene County, Indiana](#)

PUBLICATION DATE [2017-04-27 00:00:00](#)

EDITION [1](#)

PRESENTATION FORMATS * [digital map](#)

SERIES

NAME [Unconsolidated Potentiometric Surface Map](#)

ISSUE [PSM 65-A](#)

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Arney, Bloomfield, Coal City, Freedom, Jasonville, Kolen, Linton, Lyons, Owensburg, Sandborn, Scotland, Solsberry, Stanford, Switz City, and Whitehall.

[Hide Citation](#) ▲

Citation Contacts ►

RESPONSIBLE PARTY

INDIVIDUAL'S NAME [Glenn E. Grove](#)

ORGANIZATION'S NAME [Indiana Department of Natural Resources, Division of Water](#)

CONTACT'S POSITION [Resource Assessment Section](#)

CONTACT'S ROLE [originator](#)

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CONTACT INFORMATION ►

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DELIVERY POINT Indianapolis, Indiana, USA

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.4.1.5686

CREDITS

It is requested that the Indiana Department of Natural Resources, Division of Water be cited in any products generated from this data.

ARCGIS ITEM PROPERTIES

* NAME UNC_PSM_Greene_CO_IN

* SIZE 0.053

* LOCATION file:///\\iotisip01pa\dnrgis\$!\

Potentiometric\Green\1_Web_Products\65_Greene_County_PSM_Shapefiles\UNC_PSM_Greene_CO_IN.shp

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

Latitude Longitude

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -87.063707

* EAST LONGITUDE -86.942835

* NORTH LATITUDE 39.128688

* SOUTH LATITUDE 38.924169

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 494493.531400

* EAST LONGITUDE 504941.023800

* SOUTH LATITUDE 4308363.557800

* NORTH LATITUDE 4331057.356200

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Glenn E. Grove
ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water
CONTACT'S POSITION Resource Assessment Section
CONTACT'S ROLE author

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[Hide Contact information](#) ▲[Hide Resource Points of Contact](#) ▲**Resource Maintenance** ►**RESOURCE MAINTENANCE**

UPDATE FREQUENCY as needed

[Hide Resource Maintenance](#) ▲**Resource Constraints** ►**CONSTRAINTS****LIMITATIONS OF USE**

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LEGAL CONSTRAINTS**ACCESS CONSTRAINTS** other restrictions**OTHER CONSTRAINTS**

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

```

* TYPE      Projected
* GEOGRAPHIC COORDINATE REFERENCE  GCS_North_American_1983
* PROJECTION  NAD_1983_UTM_Zone_16N
* COORDINATE REFERENCE DETAILS
  PROJECTED COORDINATE SYSTEM
    WELL-KNOWN IDENTIFIER  26916
    X ORIGIN  -5120900
    Y ORIGIN  -9998100
    XY SCALE  450445547.3910538
    Z ORIGIN  -100000
    Z SCALE  10000
    M ORIGIN  -100000
    M SCALE  10000
    XY TOLERANCE  0.001
    Z TOLERANCE  0.001
    M TOLERANCE  0.001
    HIGH PRECISION  true
    LATEST WELL-KNOWN IDENTIFIER  26916
    WELL-KNOWN TEXT  PROJCS["NAD_1983_UTM_Zone_16N",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]],PROJECTION["Transverse_Mercator"],PARAMETER
["False_Easting",500000.0],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-
87.0],PARAMETER["Scale_Factor",0.9996],PARAMETER["Latitude_Of_Origin",0.0],UNIT
["Meter",1.0],AUTHORITY["EPSG",26916]]

```

REFERENCE SYSTEM IDENTIFIER

```

* VALUE  26916
* CODESPACE  EPSG
* VERSION  6.13(3.0.1)

```

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

```

* LEVEL OF TOPOLOGY FOR THIS DATASET  geometry only

```

GEOMETRIC OBJECTS

```

FEATURE CLASS NAME  UNC_PSM_Greene_CO_IN
* OBJECT TYPE  composite
* OBJECT COUNT  17

```

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

```

FEATURE CLASS NAME  UNC_PSM_Greene_CO_IN
* FEATURE TYPE  Simple
* GEOMETRY TYPE  Polyline
* HAS TOPOLOGY  FALSE
* FEATURE COUNT  17
* SPATIAL INDEX  TRUE
* LINEAR REFERENCING  FALSE

```

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►
RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - COMPLETENESS OMISSION ►
DIMENSION horizontal

MEASURE DESCRIPTION

In conducting the mapping, the author(s) evaluated hundreds of water well records, especially those having relatively complete information on well location, static water level, well depth, ground elevation, and lithology. There were areas in the county with sparse information because of lack of well records or incomplete records.

[Hide Data quality report - Completeness omission ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ►
DIMENSION horizontal

MEASURE DESCRIPTION

The mapping was conducted after a thorough documentation of well locations and water well record details.

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY ►
MEASURE DESCRIPTION

The locations of many wells were field checked and the locations posted on 7.5 minute topographic maps. Visual confirmation of wells was not always possible. Many locations were based only on the street address, driving directions, or other location information provided on the well record.

[Hide Data quality report - Absolute external positional accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

PROCESS STEP ►
DESCRIPTION

Data were selected by careful evaluation of water well records to determine if the wells were field located and if they contained complete and reasonable information.

[Hide Process step ▲](#)

PROCESS STEP ►
DESCRIPTION

After selection of water well records was complete, specific well data and other maps and reports were considered in the mapping process. For example, ground elevation, static water level, well depth, aquifer top and bottom elevation and lithology were obtained from well records. Other maps and reports included regional potentiometric surface elevations, hydrogeologic settings, groundwater availability, bedrock topography, and surface topography.

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

A polyline coverage was created using the heads-up method and attributed by Glenn E. Grove. Attribute definitions are described below.

[Hide Process step ▲](#)

SOURCE DATA ►

DESCRIPTION

Water well records from the IDNR-DOW well record database; USGS topography maps; various consultant geotechnical reports

SOURCE CITATION ►

TITLE Potentiometric Surface Map of the Unconsolidated Aquifers of Greene County, Indiana

PUBLICATION DATE 2017-04-27 00:00:00

EDITION 1

SERIES

NAME Unconsolidated Potentiometric Surface Map

ISSUE PSM 65-A

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Glenn E. Grove

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE originator

RESPONSIBLE PARTY

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S ROLE publisher

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

INDIVIDUAL'S NAME Glenn E. Grove

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[Hide Contact information ▲](#)[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.053

ONLINE SOURCE

LOCATION <http://www.in.gov/dnr/water/7256.htm>[Hide Distribution ▲](#)**Fields ►**

DETAILS FOR OBJECT UNC_PSM_Greene_CO_IN ►

* TYPE Feature Class

* ROW COUNT 17

DEFINITION

polyline

DEFINITION SOURCE

ESRI

FIELD FID ►

* ALIAS FID

* DATA TYPE OID

* WIDTH 4

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Internal feature number.

* DESCRIPTION SOURCE

ESRI

* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

[Hide Field FID ▲](#)

FIELD Shape ►

- * **ALIAS** Shape
- * **DATA TYPE** Geometry
- * **WIDTH** 0
- * **PRECISION** 0
- * **SCALE** 0
- * **FIELD DESCRIPTION**
Feature geometry.
- * **DESCRIPTION SOURCE**
ESRI
- * **DESCRIPTION OF VALUES**
Coordinates defining the features.

[Hide Field Shape ▲](#)

FIELD SWL ►

- * **ALIAS** SWL
- * **DATA TYPE** Integer
- * **WIDTH** 10
- * **PRECISION** 10
- * **SCALE** 0

[Hide Field swl ▲](#)

[Hide Details for object UNC_PSM_Greene_CO_IN ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

- * **METADATA LANGUAGE** English (UNITED STATES)
- METADATA CHARACTER SET** utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

- * **LAST UPDATE** 2017-06-13

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2017-04-20 10:02:42
LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-06-13 08:32:58

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2017-06-13 08:32:58

[Hide Metadata Details ▲](#)

Metadata Contacts ►

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MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)**Metadata Constraints ►**

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS other restrictions

OTHER CONSTRAINTS

Access constraints: This metadata file is intended to accompany the subject geospatial set. This file may be updated, and the most recent version is available by contacting the IDNR Division of Water.

[Hide Metadata Constraints ▲](#)**FGDC Metadata (read-only) ▼**