

# Limited Bedrock Aquifer Data and Nonaquifer Areas for Switzerland County, Indiana

## Shapefile



## Tags

No data zone, water wells, bedrock aquifer, Indiana Department of Natural Resources (IDNR), Division of Water (DOW), Switzerland County, Indiana, USA

## Summary

Display and/or analyses requiring spatial distribution of lack of static water levels in bedrock aquifers of Switzerland County.

## Description

This file is a digital geospatial polygon coverage of the lack of available aquifer static water level data within bedrock aquifers for Switzerland County in 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** -85.208920 **East** -84.783038  
**North** 38.930633 **South** 38.680765

## Scale Range

**Maximum (zoomed in)** 1:50,000  
**Minimum (zoomed out)** 1:5,000,000

## 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 [Switzerland County, Indiana, USA](#)

THEME KEYWORDS [Bedrock](#)

THEME KEYWORDS [static water level](#)

THEME KEYWORDS [groundwater](#)

THEME KEYWORDS [water wells](#)

THEME KEYWORDS [Indiana Department of Natural Resources \(IDNR\)](#)

THEME KEYWORDS [Division of Water \(DOW\)](#)

THEME KEYWORDS [No data or limited data or Nonaquifer material area](#)

[Hide Topics and Keywords ▲](#)

## Citation ►

TITLE Limited Bedrock Aquifer Data and Nonaquifer Areas for Switzerland County, Indiana  
PUBLICATION DATE 2018-04-06 00:00:00

EDITION 1  
EDITION DATE 2018-04-06

PRESENTATION FORMATS \* digital map

SERIES  
NAME Bedrock Potentiometric Surface Map  
ISSUE PSM 76-B

OTHER CITATION DETAILS  
This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Aberdeen, Bear Branch, Bennington, Carrollton, Cross Plains, Florence, Patriot, Rising Sun, Vevay North, and Vevay South.

[Hide Citation ▲](#)

## Citation Contacts ►

RESPONSIBLE PARTY  
ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water  
CONTACT'S ROLE publisher

CONTACT INFORMATION ►  
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DELIVERY POINT Indianapolis, Indiana, USA

[Hide Contact information ▲](#)

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CONTACT'S POSITION Resource Assessment Section  
CONTACT'S ROLE originator

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ONLINE RESOURCE  
LOCATION [www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)  
FUNCTION PERFORMED information

HOURS OF SERVICE  
8:15am - 4:15pm M-F except Government Holidays

[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 10.5.1.7333

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 BED\_Limited\_Data\_Nonaquifer\_Switzerland

\* SIZE 0.010  
\* LOCATION file:///state.in.us/file1/dnr/shared/dnr1  
dow\common\RA\_FILES\_ONLINE\76\_Switzerland\76\_Switzerland\_County\_PSM\_shapefiles\BED\_Limited\_Data\_Nonaquifer\_Switzerland.shp  
\* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Extents ►

### EXTENT

#### DESCRIPTION

Extent used for searching

#### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

WEST LONGITUDE -85.644456

EAST LONGITUDE -85.331288

SOUTH LATITUDE 40.998355

NORTH LATITUDE 41.189792

EXTENT CONTAINS THE RESOURCE Yes

### EXTENT

#### DESCRIPTION

Publication Date

### EXTENT

#### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -85.208920

\* EAST LONGITUDE -84.783038

\* NORTH LATITUDE 38.930633

\* SOUTH LATITUDE 38.680765

\* EXTENT CONTAINS THE RESOURCE Yes

#### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 655777.316600

\* EAST LONGITUDE 692187.625400

\* SOUTH LATITUDE 4283668.289700

\* NORTH LATITUDE 4310614.385700

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

### POINT OF CONTACT

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

INDIVIDUAL'S NAME Glenn E. Grove

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE point of contact

#### CONTACT INFORMATION ►

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##### ONLINE RESOURCE

LOCATION [www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)

FUNCTION PERFORMED download

##### HOURS OF SERVICE

8:15am - 4:15pm M-F except Government Holidays

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[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

#### LIMITATIONS OF USE

The Indiana Department of Natural Resources, Division of Water has compiled this data set using data believed to be reasonably accurate. However, the Division makes no representation as to the accuracy, completeness, or usefulness of the data or data set. A degree of error is inherent in all maps. This map is intended for use only at the published scale. Reference to any specific commercial product, process, or service does not constitute an endorsement, recommendation, or favoring by the Division. Copyright 2018, Indiana Department of Natural Resources, Division of Water All Rights Reserved Any copying, adaptation, or distribution of these data without the express written consent of the Indiana Department of Natural Resources, Division of Water is discouraged.

[ACCESS CONSTRAINTS](#) other restrictions

#### OTHER CONSTRAINTS

This file is available to anyone, but access may be contingent on written request, specific terms relevant to the agency or person making the request, and/or current freedom of information statutes in the State of Indiana.

[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 BED\_Limited\_Data\_Nonaquifer\_Switzerland  
\* OBJECT TYPE composite  
\* OBJECT COUNT 1

[Hide Vector ▲](#)

#### ARCGIS FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME BED\_Limited\_Data\_Nonaquifer\_Switzerland  
\* FEATURE TYPE Simple  
\* GEOMETRY TYPE Polygon  
\* HAS TOPOLOGY FALSE  
\* FEATURE COUNT 1  
\* 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 ▶

##### 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. This layer is based on areas in the county with sparse information because of lack of well records or incomplete records, or poorly producing aquifers.

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

#### DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

##### MEASURE DESCRIPTION

The layer was created 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

Coverage was selected by careful evaluation of the lack of water well records within an area by determine a minimum of one mile from available data. Using field located wells that contained complete and reasonable information a half mile buffer was applied. Areas outside of the compiled buffer were considered a no data zone and delineated as such.

#### PROCESS CONTACT

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

#### CONTACT INFORMATION ▶

##### PHONE

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COUNTRY US  
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ONLINE RESOURCE  
LOCATION [www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)  
FUNCTION PERFORMED download

[Hide Contact information ▲](#)

[Hide Process step ▲](#)

SOURCE DATA ▶

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

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

**Distribution ▶**

DISTRIBUTOR ▶

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

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E-MAIL ADDRESS [ggrove@dnr.in.gov](mailto:ggrove@dnr.in.gov)

ONLINE RESOURCE

LOCATION [www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)  
FUNCTION PERFORMED download

HOURS OF SERVICE

8:15am - 4:15pm M-F except Government Holidays

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[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

\* NAME Shapefile

TRANSFER OPTIONS

UNITS OF DISTRIBUTION Shapefile  
\* TRANSFER SIZE 0.010

ONLINE SOURCE

LOCATION <http://www.in.gov/dnr/water/7256.htm>  
DESCRIPTION Data and Maps

[Hide Distribution ▲](#)

**Fields ▶**

DETAILS FOR OBJECT [BED\\_Limited\\_Data\\_Nonaquifer\\_Switzerland ▶](#)

\* TYPE Feature Class  
\* ROW COUNT 1

DEFINITION  
No Data Zone

DEFINITION SOURCE  
Glenn E. Grove

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 Zone ▶

- \* ALIAS Zone
- \* DATA TYPE String
- \* WIDTH 50
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
This layer is based on areas in the county with sparse information because of lack of well records, incomplete records, or poorly producing aquifers.

[Hide Field Zone ▲](#)

[Hide Details for object BED\\_Limited\\_Data\\_Nonaquifer\\_Switzerland ▲](#)

[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 2018-04-20

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 2018-03-23 08:12:36  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2018-04-20 14:51:17

AUTOMATIC UPDATES  
HAVE BEEN PERFORMED Yes  
LAST UPDATE 2018-04-20 14:51:17

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2018-03-23 10:45:12

FROM M:\!Potentiometric\Switzerland\1\_Web\_Products\BED\_Limited\_Data\_Nonaquifer\_Switzerland

TO \\iotisip01pa\dnr\gis\!

Potentiometric\Switzerland\1\_Web\_Products\76\_Switzerland\_County\_PSM\_shapefiles\BED\_Limited\_Data\_Nonaquifer\_Switzerland

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

METADATA CONTACT

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INDIVIDUAL'S NAME Glenn E. Grove

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE originator

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TYPE both

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ONLINE RESOURCE

LOCATION [www.in.gov/dnr/water/7256.htm](http://www.in.gov/dnr/water/7256.htm)

FUNCTION PERFORMED download

HOURS OF SERVICE

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[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

## Metadata Maintenance ►

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) ▼