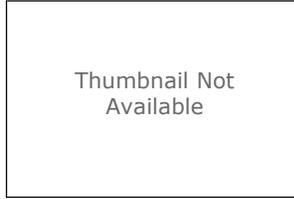


# Limited Bedrock Aquifer Data and Nonaquifer Areas for Jefferson County, Indiana

## Shapefile



## Tags

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

## Summary

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

## Description

This file is a digital geospatial polygon coverage of the lack of available aquifer static water level data within bedrock aquifers for Jefferson 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** -85.687907    **East** -85.195864  
**North** 38.920342    **South** 38.598351

## 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    Jefferson 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 Jefferson County, Indiana  
PUBLICATION DATE 2018-04-27 00:00:00

EDITION 1  
EDITION DATE 2018-04-06

PRESENTATION FORMATS \* digital map

SERIES  
NAME Bedrock Potentiometric Surface Map  
ISSUE PSM 77-B

OTHER CITATION DETAILS  
This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Bennington, Bethlehem, Blocher, Canaan, Carrollton, Clifty Falls, Cross Plains, Deputy, Kent, Madison East, Madison West, New Washington, Rexville, San Jacinto, Vernon, and Volga.

[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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COUNTRY US  
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ONLINE RESOURCE  
LOCATION 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\_Jefferson\_Co\_IN
- \* SIZE 0.104
- \* LOCATION file:///state.in.us/file1/dnr/shared/dnr1\down\common\RA\_FILES\_ONLINE\77\_Jefferson\77\_Jefferson\_County\_PSM\_shapefiles\BED\_Limited\_Data\_Nonaquifer\_Jefferson\_Co\_IN.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 -85.687907
- \* EAST LONGITUDE -85.195864
- \* NORTH LATITUDE 38.920342
- \* SOUTH LATITUDE 38.598351
- \* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- \* WEST LONGITUDE 614248.009400
- \* EAST LONGITUDE 656418.119300
- \* SOUTH LATITUDE 4273736.522900
- \* NORTH LATITUDE 4308762.490000
- \* 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

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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

[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

#### 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 ►

### ARC GIS 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\_Jefferson\_Co\_IN  
\* OBJECT TYPE composite  
\* OBJECT COUNT 1

[Hide Vector ▲](#)

#### ARCGIS FEATURE CLASS PROPERTIES ▶

FEATURE CLASS NAME BED\_Limited\_Data\_Nonaquifer\_Jefferson\_Co\_IN  
\* 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 ▶

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ONLINE RESOURCE

LOCATION 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  
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E-MAIL ADDRESS ggrove@dnr.in.gov

ONLINE RESOURCE

LOCATION www.in.gov/dnr/water/7256.htm  
FUNCTION PERFORMED download

HOURS OF SERVICE

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

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

\* NAME Shapefile

TRANSFER OPTIONS

UNITS OF DISTRIBUTION Shapefile  
\* TRANSFER SIZE 0.104

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\\_Jefferson\\_Co\\_IN](#) ▶

\* 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\\_Jefferson\\_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 **2018-04-26**

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 15:06:07  
LAST MODIFIED IN ARCGIS FOR THE ITEM 2018-04-26 12:47:44

AUTOMATIC UPDATES  
HAVE BEEN PERFORMED Yes  
LAST UPDATE 2018-04-26 12:47:44

ITEM LOCATION HISTORY  
ITEM COPIED OR MOVED 2017-12-18 10:22:11  
FROM C:\potentiometric\Jefferson\PSM\_Jefferson\_BED  
TO \\state.in.us\file1\DNR\HOME\ggrove\\_potentiometric\Jefferson\PSM\_Jefferson\_BED

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

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INDIVIDUAL'S NAME Glenn E. Grove  
CONTACT'S POSITION Resource Assessment Section  
CONTACT'S ROLE originator

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ONLINE RESOURCE  
LOCATION www.in.gov/dnr/water/7256.htm  
FUNCTION PERFORMED download

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

[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) ▼