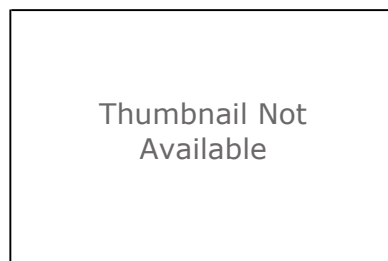


# Limited Bedrock Aquifer Data and Nonaquifer Areas for Clay County, Indiana

## Shapefile



## Tags

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

## Summary

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

## Description

This file is a digital geospatial polygon coverage of the lack of available aquifer static water level data within bedrock aquifers for Clay 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

<b>West</b>	-87.242310	<b>East</b>	-86.941375
<b>North</b>	39.607365	<b>South</b>	39.168103

## Scale Range

<b>Maximum (zoomed in)</b>	1:50,000
<b>Minimum (zoomed out)</b>	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    Clay 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 Clay County, Indiana

CREATION DATE    2016-11-01    00:00:00

EDITION    1

EDITION DATE    2016-11-01

PRESENTATION FORMATS    \* digital map

SERIES

NAME    Bedrock Potentiometric Surface Map

ISSUE    PSM 63-B

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Brazil East, Brazil West, Center Point, Clay City, Coal City, Jasonville, Patricksburg, Poland, Saline City, and Staunton.

[Hide Citation ▲](#)

### Citation Contacts ►

RESPONSIBLE PARTY

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

CONTACT'S ROLE    publisher

CONTACT INFORMATION ►

ADDRESS

TYPE

DELIVERY POINT    Indianapolis, Indiana, USA

[Hide Contact information ▲](#)

## RESPONSIBLE PARTY

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

## CONTACT INFORMATION ►

## PHONE

VOICE (317) 232-4175

FAX (317) 233-4579

## ADDRESS

TYPE both

DELIVERY POINT 402 W Washington Street W264

CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204

COUNTRY US

E-MAIL ADDRESS ggrove@dnr.in.gov

## 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 10.3.1.4959

## 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\_Clay

\* SIZE 0.066

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

Potentiometric\Clay\1\_Web\_Products\63\_Clay\_PSM\_Shapefiles\BED\_Limited\_Data\_Nonaquifer\_Clay.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 -87.242310  
 \* EAST LONGITUDE -86.941375  
 \* NORTH LATITUDE 39.607365  
 \* SOUTH LATITUDE 39.168103  
 \* EXTENT CONTAINS THE RESOURCE Yes

## EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 479198.406300  
 \* EAST LONGITUDE 505032.787600  
 \* SOUTH LATITUDE 4335459.000000  
 \* NORTH LATITUDE 4384180.000000  
 \* 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 ►

## PHONE

VOICE (317) 232-4175  
 FAX (317) 233-4579

## ADDRESS

TYPE both  
 DELIVERY POINT 402 W Washington Street W264  
 CITY Indianapolis  
 ADMINISTRATIVE AREA Indiana  
 POSTAL CODE 46204  
 COUNTRY US  
 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

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

### RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

### CONSTRAINTS

#### LIMITATIONS OF USE

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.

### 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 2016, 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 8.6.2

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

#### VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

#### GEOMETRIC OBJECTS

FEATURE CLASS NAME BED\_Limited\_Data\_Nonaquifer\_Clay  
 \* OBJECT TYPE composite  
 \* OBJECT COUNT 6

[Hide Vector ▲](#)

#### ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED\_Limited\_Data\_Nonaquifer\_Clay  
 \* FEATURE TYPE Simple  
 \* GEOMETRY TYPE Polygon  
 \* HAS TOPOLOGY FALSE  
 \* FEATURE COUNT 6  
 \* 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 ►

WHEN THE PROCESS OCCURRED 2015-09-01 00:00:00

##### 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

VOICE (317) 234-1102

FAX (317) 232-4175

##### ADDRESS

TYPE both

DELIVERY POINT 402 W Washington Street W264

CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204

COUNTRY US

E-MAIL ADDRESS 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

[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

##### CONTACT INFORMATION ►

##### PHONE

VOICE (317) 234-1102  
 FAX (317) 232-4175

##### ADDRESS

TYPE both  
 DELIVERY POINT 402 W Washington Street W264  
 CITY Indianapolis  
 ADMINISTRATIVE AREA Indiana  
 POSTAL CODE 46204  
 COUNTRY US  
 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

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

#### DISTRIBUTION FORMAT

\* NAME Shapefile

#### TRANSFER OPTIONS

UNITS OF DISTRIBUTION Shapefile  
 \* TRANSFER SIZE 0.066



## 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\\_Clay](#) ►

\* TYPE Feature Class

\* ROW COUNT 6

## 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 25  
 \* 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\\_Clay ▲](#)

[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 2016-11-01

#### 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 2016-11-07 08:20:49  
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-11-18 11:41:16

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
 LAST UPDATE 2016-11-18 11:41:16

#### ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2016-11-07 08:20:49  
 FROM M:\!  
 Potentiometric\Clay\2\_Shapefiles\Shapefiles\_Final\_Map\BED\_Limited\_Data\_Nonaquifer\_Clay  
 To \\iotisip01pa\dnrgis\$\!  
 Potentiometric\Clay\1\_Web\_Products\63\_Clay\_PSM\_Shapefiles\BED\_Limited\_Data\_Nonaquifer\_Clay

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

#### METADATA 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 originator

#### CONTACT INFORMATION ►

PHONE  
 VOICE (317) 232-4175  
 FAX (317) 233-4579

#### ADDRESS

TYPE both  
 DELIVERY POINT 402 W Washington Street W264

CITY Indianapolis  
ADMINISTRATIVE AREA Indiana  
POSTAL CODE 46204  
COUNTRY US  
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

[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) ▼