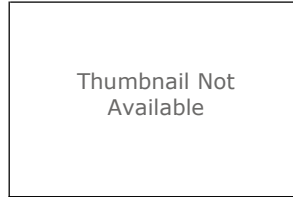


Limited Bedrock Aquifer Data and Nonaquifer Areas for Switzerland County, Indiana

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 ►

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CONTACT'S ROLE publisher

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

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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 10.5.1.7333

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

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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

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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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LIMITATIONS OF USE

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[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 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

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COUNTRY US
E-MAIL ADDRESS ggrove@dnr.in.gov

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

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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 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\dnrgis\$\!

Potentiometric\Switzerland\1_Web_Products\76_Switzerland_County_PSM_shapefiles\BED_Limited_Data_Nonaquifer_Switzerland

[Hide Metadata Details ▲](#)

Metadata Contacts ►

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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

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) ▼