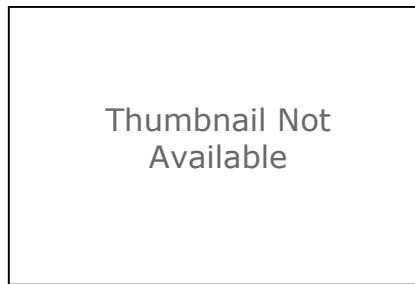


Limited Bedrock Aquifer Data and Nonaquifer Areas for Putnam County, Indiana

Shapefile



Tags

No data zone, water wells, bedrock aquifer, Indiana Department of Natural Resources (IDNR), Division of Water (DOW), Putnam County, Indiana, USA. Revised 2016.

Summary

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

Description

This file is a digital geospatial polygon coverage of the lack of available aquifer static water level data within bedrock aquifers for Putnam 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 | -87.014836 | East | -86.641221 |
| North | 39.866805 | South | 39.470020 |

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 Putnam 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 Revised 2016

*Hide Topics and Keywords ▲***Citation ►**

TITLE Limited Bedrock Aquifer Data and Nonaquifer Areas for Putnam County, Indiana

CREATION DATE 2015-09-01 00:00:00

PUBLICATION DATE 2015-12-30 00:00:00

REVISION DATE 2016-09-28 00:00:00

EDITION 1 (revised 9/2016)

PRESENTATION FORMATS * digital map

SERIES

NAME Bedrock Potentiometric Surface Map

ISSUE PSM 57-B

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: BELLMORE, BRAZIL EAST, CATARACT, CENTER POINT, CLINTON FALLS, CLOVERDALE, COATESVILLE, EMINENCE, GREENCASTLE, MANSFIELD, NORTH SALEM, POLAND, QUINCY, REELSVILLE, ROACHDALE, and RUSSELLVILLE.

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

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RESPONSIBLE PARTY

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INDIVIDUAL'S NAME Ginger C. Korinek
CONTACT'S POSITION Resource Assessment Section
CONTACT'S ROLE originator

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POSTAL CODE 46204

COUNTRY US

E-MAIL ADDRESS gkorinek@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_PUTNAM_revised_2016
 * SIZE 0.240
 * LOCATION file:///\\iotisip01pa\dnrgis\$!\Potentiometric\Putnam\1_Web_Products\Web revised_2016\zipfiles\BED_Limited_Data_Nonaquifer_PUTNAM_revised_2016.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

TEMPORAL EXTENT

DATE AND TIME 2015-12-30 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -87.014836

* EAST LONGITUDE -86.641221

* NORTH LATITUDE 39.866805

* SOUTH LATITUDE 39.470020

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 498731.187500

* EAST LONGITUDE 530685.000000

* SOUTH LATITUDE 4368998.089600

* NORTH LATITUDE 4412974.000000

* 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

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CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE point of contact

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COUNTRY US

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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 Resource Points of Contact ▲

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY not planned

Hide Resource Maintenance ▲

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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LEGAL CONSTRAINTS

LIMITATIONS OF USE

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[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_PUTNAM_revised_2016
 * OBJECT TYPE composite
 * OBJECT COUNT 13

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED_Limited_Data_Nonaquifer_PUTNAM_revised_2016
 * FEATURE TYPE Simple
 * GEOMETRY TYPE Polygon
 * HAS TOPOLOGY FALSE
 * FEATURE COUNT 13
 * 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 Ginger C. Korinek
 CONTACT'S POSITION Resource Assessment Section
 CONTACT'S ROLE processor

CONTACT INFORMATION ►

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 POSTAL CODE 46204
 COUNTRY US
 E-MAIL ADDRESS gkorinek@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**

ORGANIZATION'S NAME Indiana Department of Natural Resources Division of Water
 INDIVIDUAL'S NAME Ginger C. Korinek
 CONTACT'S POSITION Resource Assessment Section
 CONTACT'S ROLE originator

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 POSTAL CODE 46204
 COUNTRY US
 E-MAIL ADDRESS gkorinek@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 0.240

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_PUTNAM_revised_2016 ►](#)**

* TYPE Feature Class

* ROW COUNT 13

DEFINITION

No Data Zone

DEFINITION SOURCE

Ginger C. Korinek

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

Based on the limited amount of data or type of aquifer found

DESCRIPTION SOURCE

Author

[Hide Field Zone ▲](#)[Hide Details for object BED_Limited_Data_Nonaquifer_PUTNAM_revised_2016 ▲](#)[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 2016-08-15 11:33:40

LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-11-01 08:46:41

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2016-11-01 08:46:41

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2016-09-06 15:02:35

FROM M:\!Potentiometric\Putnam\Revised _2016

\BED_Limited_Data_Nonaquifer_PUTNAM_revised_2016

TO \\iotisip01pa\dnrgis\$\!Potentiometric\Putnam\1_Web_Products\WEB
Rvised\zipfiles\BED_Limited_Data_Nonaquifer_PUTNAM_revised_2016[Hide Metadata Details ▲](#)**Metadata Contacts ►**

METADATA CONTACT

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

INDIVIDUAL'S NAME Ginger C. Korinek

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE originator

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CITY Indianapolis
ADMINISTRATIVE AREA Indiana
POSTAL CODE 46204
COUNTRY US
E-MAIL ADDRESS gkorinek@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 Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE
UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS
Revised by Glenn Grove (9/2016)

MAINTENANCE CONTACT
ORGANIZATION'S NAME IDNR Division of Water, Resource Assessment Section
INDIVIDUAL'S NAME Glenn E. Grove,
CONTACT'S ROLE custodian

[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) ▼