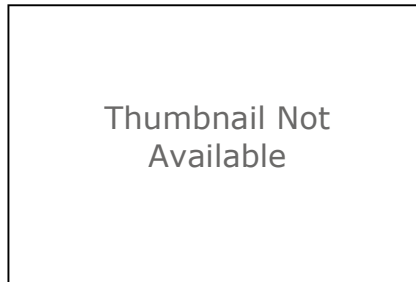


# Potentiometric Surface Map of the Bedrock Aquifers of Rush County, IN

## Shapefile



## Tags

Potentiometric surface, static water level, groundwater, water wells, water tables, bedrock, Indiana Department of Natural Resources (IDNR), Division of Water (DOW), Rush County, Indiana, USA

## Summary

Display and/or analyses requiring spatial distribution of potentiometric surface elevations in Rush County, Indiana.

## Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Rush 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>	-85.639004	<b>East</b>	-85.291153
<b>North</b>	39.788692	<b>South</b>	39.448762

## 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

PLACE KEYWORDS    Rush County, Indiana, USA

THEME KEYWORDS    Bedrock

THEME KEYWORDS    potentiometric surface

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)

*Hide Topics and Keywords ▲*

### Citation ►

TITLE    Potentiometric Surface Map of the Bedrock Aquifers of Rush County, IN

PUBLICATION DATE    2014-07-01    00:00:00

CREATION DATE    2014-07-01    00:00:00

EDITION    1

PRESENTATION FORMATS    digital map

FGDC GEOSPATIAL PRESENTATION FORMAT    vector digital data

#### SERIES

NAME    Bedrock Potentiometric Surface Map

ISSUE    PSM 42-B

#### OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: ADAMS, CARTHAGE, CLARKSBURG, CLEVELAND, DUNREITH, FALMOUTH, KNIGHTSTOWN, LEWISVILLE, MANILLA, MAYS, MILROY, MORRISTOWN, NEW SALEM, RAYS CROSSING, RUSHVILLE, and WALDRON

*Hide Citation ▲*

## Citation Contacts ►

### RESPONSIBLE PARTY

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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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 XP Version 5.1 (Build 2600) Service Pack 3; Esri ArcGIS 10.2.0.3348

### 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\_PSM\_Rush\_Co\_IN  
\*SIZE 0.463  
\*LOCATION file:///\\iotfilp19pw\dnr\dow\TS\Water\_Resources\_and\_Rights\!  
Potentiometric\Rush\1\_Web\_Products\Zip\_Products\BED\_PSM\_Rush\_Co\_IN.shp  
\*ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Extents ►

### EXTENT

DESCRIPTION  
publication date

### TEMPORAL EXTENT

DATE AND TIME 2014-07-01 00:00:00

### EXTENT

#### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\*WEST LONGITUDE -85.639004

\*EAST LONGITUDE -85.291153

\*NORTH LATITUDE 39.788692

\*SOUTH LATITUDE 39.448762

\*EXTENT CONTAINS THE RESOURCE Yes

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

\*WEST LONGITUDE 617097.608146

\*EAST LONGITUDE 646328.873853

\*SOUTH LATITUDE 4367958.155071

\*NORTH LATITUDE 4405198.920873

\*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 Ginger C. Korinek

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE point of contact

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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 ►

#### 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 2014, 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.

##### 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.

#### 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  8.1.1
```

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

### VECTOR ►

```
*LEVEL OF TOPOLOGY FOR THIS DATASET  geometry only
```

#### GEOMETRIC OBJECTS

FEATURE CLASS NAME BED\_PSM\_Rush\_Co\_IN  
\*OBJECT TYPE composite  
\*OBJECT COUNT 128

[Hide Vector ▲](#)

#### ARCgis FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED\_PSM\_Rush\_Co\_IN  
\*FEATURE TYPE Simple  
\*GEOMETRY TYPE Polyline  
\*HAS TOPOLOGY FALSE  
\*FEATURE COUNT 128  
\*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. There are areas in the county with sparse information because of lack of well records or incomplete records.

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

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

##### MEASURE DESCRIPTION

The mapping was conducted 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 2014-04-01 00:00:00

#### DESCRIPTION

Data were selected by careful evaluation of water well records to determine if the wells were field located and if they contained complete and reasonable information.

#### 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](mailto:gkorinek@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 ▲](#)



PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2014-05-01 00:00:00

DESCRIPTION

After selection of water well records was complete, specific well data and other maps and reports were considered in the mapping process. For example, ground elevation, static water level, well depth, aquifer top and bottom elevation and lithology were obtained from well records. Other maps and reports included regional potentiometric surface elevations, hydrogeologic settings, ground-water availability, bedrock topography, and surface topography.

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 owner

CONTACT INFORMATION ►

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ONLINE RESOURCE

LOCATION www.in.gov/dnr/water/7256.htm

FUNCTION PERFORMED download

*Hide Contact information ▲*

SOURCE DATA ►

RELATIONSHIP TO THE PROCESS STEP used

SOURCE CITATION ►

ALTERNATE TITLES IDNR-DOW water well records for domestic and other supply wells submitted by water well drillers from 1959-2012

*Hide Source citation ▲*

*Hide Source data ▲*

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2014-06-02 00:00:00

DESCRIPTION

Lines of equal potentiometric surface elevation were generated based on static elevation from selected data. Lines were generated and reviewed prior to publication.

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 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

[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

RESOLUTION OF THE SOURCE DATA

SCALE DENOMINATOR 24000

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

## Geoprocessing history ►

[Hide Geoprocessing history ▲](#)

## 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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#### ONLINE RESOURCE

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

FUNCTION PERFORMED download

[Hide Contact information ▲](#)

#### AVAILABLE FORMAT

NAME VPF

FILE DECOMPRESSION TECHNIQUE no compression applied

[Hide Distributor ▲](#)

#### DISTRIBUTION FORMAT

\*NAME Shapefile

#### TRANSFER OPTIONS

\*TRANSFER SIZE 0.463

ONLINE SOURCE

LOCATION <http://www.in.gov/dnr/water/7256.htm>

DESCRIPTION Data and Maps

[Hide Distribution](#) ▲

## Fields ►

DETAILS FOR OBJECT [BED\\_PSM\\_Rush\\_Co\\_IN](#) ►

\*TYPE Feature Class

\*ROW COUNT 128

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 Static\_E ►

\*ALIAS Static\_E  
\*DATA TYPE SmallInteger  
\*WIDTH 4  
\*PRECISION 4  
\*SCALE 0

#### FIELD DESCRIPTION

Potentiometric surface contours are developed here based on the static water levels from the bedrock aquifer systems with 10-foot contours and 50-foot index contours.

#### DESCRIPTION SOURCE

Author

[Hide Field Static\\_E ▲](#)

[Hide Details for object BED\\_PSM\\_Rush\\_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 2014-08-27

#### 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 2014-08-15 13:10:32

LAST MODIFIED IN ARCGIS FOR THE ITEM 2014-08-27 15:32:19

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2014-08-27 15:32:19

#### ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2014-08-05 14:05:49

FROM J:\!Potentiometric\Rush\6\_Reviews\Review Files\Review 2\BED\_PSM\_RUSH\_V4  
TO \\iotfilp19pw\dnr\dow\TS\Water\_Resources\_and\_Rights\!  
Potentiometric\Rush\6\_Reviews\Review Files\BED\_PSM\_RUSH\_V4

[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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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 not planned

[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) ▼**