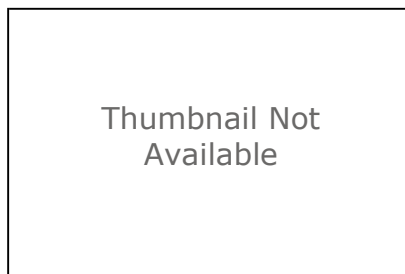


# Potentiometric Surface Map of the Bedrock Aquifers of Jasper County, Indiana

Shapefile



## Tags

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

## Summary

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

## Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Jasper 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>	-87.277611	<b>East</b>	-86.930197
<b>North</b>	41.211716	<b>South</b>	40.736552

## 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    Jasper 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 Jasper County, Indiana

PUBLICATION DATE    2015-03-01 00:00:00

CREATION DATE    2015-01-01 00:00:00

EDITION    1

PRESENTATION FORMATS    digital map

FGDC GEOSPATIAL PRESENTATION FORMAT    vector digital data

SERIES

NAME    Bedrock Potentiometric Surface Map

ISSUE    PSM 52-B

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: DEMOTTE, FAIR OAKS, FRANCESVILLE, GIFFORD, GOODLAND, HEBRON, KOUTS, MCCOYSBURG, MEDARYVILLE, MONON, MOUNT AYR, MOUNT GILBOA, PARR, REMINGTON, RENSSELAER, SAN PIERRE, SHELBY, TEMPLETON NE, WADENA, WHEATFIELD, and WOLCOTT.

*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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TYPE both

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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 10.2.2.3552

**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\_JASPER\_CO\_IN

\* SIZE 0.190

\* LOCATION file:///\\iotisip01pa.state.in.us\dnrgis\$!\Potentiometric\Jasper\1\_Web\_Products\Zip File\BED\_PSM\_JASPER\_CO\_IN.shp

\* ACCESS PROTOCOL Local Area Network

[Hide Resource Details](#) ▲**Extents** ▶**EXTENT****DESCRIPTION**

publication date

**TEMPORAL EXTENT**

DATE AND TIME 2015-03-01 00:00:00

## EXTENT

## GEOGRAPHIC EXTENT

## BOUNDING RECTANGLE

EXTENT TYPE    Extent used for searching

\* WEST LONGITUDE    -87.277611

\* EAST LONGITUDE    -86.930197

\* NORTH LATITUDE    41.211716

\* SOUTH LATITUDE    40.736552

\* EXTENT CONTAINS THE RESOURCE    Yes

## EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE    476727.266300

\* EAST LONGITUDE    505851.677300

\* SOUTH LATITUDE    4509549.076700

\* NORTH LATITUDE    4562259.994000

\* 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

## CONTACT INFORMATION ►

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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    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 2015, 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

#### 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.

[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 8.2.6

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

#### VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

#### GEOMETRIC OBJECTS

FEATURE CLASS NAME BED\_PSM\_JASPER\_CO\_IN

\* OBJECT TYPE composite  
 \* OBJECT COUNT 32

[Hide Vector ▲](#)

#### ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED\_PSM\_JASPER\_CO\_IN

\* FEATURE TYPE Simple  
 \* GEOMETRY TYPE Polyline  
 \* HAS TOPOLOGY FALSE  
 \* FEATURE COUNT 32  
 \* 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 ►

## 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 ►

## PHONE

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## ADDRESS

TYPE both

DELIVERY POINT 402 W Washington Street W264

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

FUNCTION PERFORMED download

*Hide Contact information ▲*

[Hide Process step ▲](#)

PROCESS STEP ►

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, groundwater 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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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 ▲](#)

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 1959-2013

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

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

**CONTACT INFORMATION** ►**PHONE**

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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 48000

[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

**CONTACT INFORMATION** ►

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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 0.190

## ONLINE SOURCE

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

DESCRIPTION Data and Maps

*Hide Distribution ▲***Fields ►**DETAILS FOR OBJECT [BED\\_PSM\\_JASPER\\_CO\\_IN ►](#)

\* TYPE Feature Class

\* ROW COUNT 32

## 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\\_JASPER\\_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 2015-03-27

**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 2015-03-12 08:49:24  
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-03-27 15:16:10

#### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes  
 LAST UPDATE 2015-03-27 15:16:10

#### ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2015-03-12 08:49:24  
 FROM \\iotisip01pa.state.in.us\dnrgis\$\!  
 Potentiometric\Jasper\2\_Shapefiles\Shapefiles\_Misc\_Analytical\PSM\Final\BED\_PSM\_Jasper\_R3  
 TO \\iotisip01pa.state.in.us\dnrgis\$\!  
 Potentiometric\Jasper\2\_Shapefiles\Shapefiles\_FINAL\_Map\BED\_PSM\_Jasper\_R3

[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

#### CONTACT INFORMATION ►

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 DELIVERY POINT 402 W Washington Street W264  
 CITY Indianapolis  
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 E-MAIL ADDRESS [gkorinek@dnr.in.gov](mailto: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) ▼