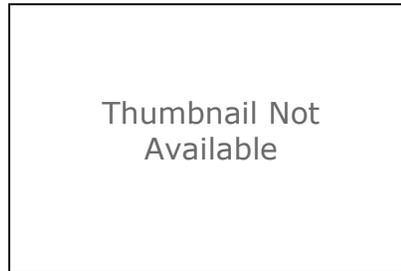


Potentiometric Surface Map of the Bedrock Aquifers of Jasper County, Indiana

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

West -87.277611 **East** -86.930197
North 41.211716 **South** 40.736552

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 [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

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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

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

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CONTACT'S POSITION Resource Assessment Section

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ONLINE RESOURCE

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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 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

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CONSTRAINTS

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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
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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

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ONLINE RESOURCE

LOCATION 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

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

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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
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ONLINE RESOURCE

LOCATION www.in.gov/dnr/water/7256.htm
 FUNCTION PERFORMED download

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[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
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ONLINE RESOURCE

LOCATION 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

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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 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) ▼