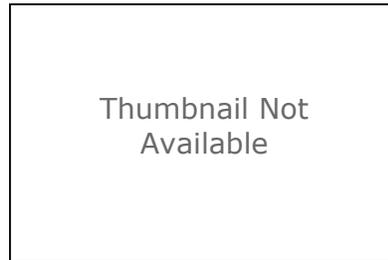


Potentiometric Surface Map of the Bedrock Aquifers of Dubois County, Indiana

Shapefile



Tags

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

Summary

Display and/or analyses requiring spatial distribution of potentiometric surface elevations in Dubois County.

Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Dubois County 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	-87.064532	East	-86.681865
North	38.520739	South	38.266926

Scale Range

Maximum (zoomed in)	1:5,000
Minimum (zoomed out)	1:150,000,000

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 [Dubois 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 \(DOW\)](#)

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE [Potentiometric Surface Map of the Bedrock Aquifers of Dubois County, Indiana](#)

PUBLICATION DATE [2018-12-18 00:00:00](#)

CREATION DATE [2018-09-01 00:00:00](#)

EDITION [1](#)

PRESENTATION FORMATS [digital map](#)

SERIES

NAME [Bedrock Potentiometric Surface Map](#)

ISSUE [PSM 84-B](#)

OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Alfordsville, Birdseye, Bristow, Cuzco, Dale, Dubois, Glendale, Hillham, Holland, Huntingburg, Jasper, Otwell, Rusk, Saint Anthony, Saint Meinrad, and Velpen.

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME [Robert K. Schmidt, IDNR Division of Water, Resource Assessment Section](#)

CONTACT'S ROLE [originator](#)

RESPONSIBLE PARTY

ORGANIZATION'S NAME [Indiana Department of Natural Resources, Division of Water](#)

CONTACT'S ROLE [publisher](#)

CONTACT INFORMATION ►

ADDRESS

DELIVERY POINT [Indianapolis, Indiana, USA](#)

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES Undetermined ()
 DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
 SPATIAL REPRESENTATION TYPE vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; 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_PSM_Dubois_Co_IN
 * SIZE 0.604
 * LOCATION file:///\\dnrfilep02pw\DNRGIS_Working!\Potentiometric_Finished\Dubois\2_Shapefiles\Shapefiles_FINAL_Map\BED_PSM_Dubois_Co_IN.shp
 * ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
 * WEST LONGITUDE -87.064532
 * EAST LONGITUDE -86.681865
 * NORTH LATITUDE 38.520739
 * SOUTH LATITUDE 38.266926
 EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 494374.532110
 * EAST LONGITUDE 527732.954900
 * SOUTH LATITUDE 4235479.227045
 * NORTH LATITUDE 4263594.629400
 * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

INDIVIDUAL'S NAME Robert K. Schmidt
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 CONTACT'S POSITION Resource Assessment Section
 CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE
 UPDATE FREQUENCY not planned

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS
 ACCESS CONSTRAINTS other restrictions

OTHER CONSTRAINTS

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 2018, 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 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_PSM_Dubois_Co_IN

* OBJECT TYPE composite

* OBJECT COUNT 107

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME BED_PSM_Dubois_Co_IN

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 107

* 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 were 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

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.

[Hide Process step ▲](#)

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2018-09-01 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.

[Hide Process step ▲](#)**SOURCE DATA ▶****DESCRIPTION**

Water well records from the IDNR-DOW well record database; USGS topography maps; various consultant geotechnical reports

SOURCE CITATION ▶

TITLE Potentiometric Surface Map of the Bedrock Aquifers of Dubois County, Indiana

PUBLICATION DATE 2018-12-18 01:00:00

CREATION DATE 2018-09-01 00:00:00

EDITION 1

SERIES

NAME Bedrock Potentiometric Surface Map

ISSUE PSM 84-B

RESPONSIBLE PARTY

ORGANIZATION'S NAME IDNR Division of Water, Resource Assessment Section

INDIVIDUAL'S NAME Robert K. Schmidt

CONTACT'S ROLE originator

RESPONSIBLE PARTY

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

CONTACT'S ROLE publisher

CONTACT INFORMATION ▶**ADDRESS**

DELIVERY POINT Indianapolis, IN

[Hide Contact information ▲](#)[Hide Source citation ▲](#)[Hide Source data ▲](#)[Hide Lineage ▲](#)**Geoprocessing history ▶****PROCESS**

DATE 2019-07-18 07:00:23

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.5\ArcToolbox\Toolboxes\Data Management Tools.tbx\Merge

COMMAND ISSUED

```
Merge BED_PSM_Dubois_Co_IN_NEW;BED_PSM_Dubois_Co_IN_TO_BE_ADDED
S:\Dubois\2_Shapefiles\Shapefiles_FINAL_Map\BED_PSM_Dubois_Co_IN_MERGED.shp "Static_E
"Static_E" true true false 10 Long 0 10 ,First,#,BED_PSM_Dubois_Co_IN_NEW,Static_E,-
1,-1,BED_PSM_Dubois_Co_IN_TO_BE_ADDED,Static_E,-1,-1"
```

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)**Distribution ▶**

DISTRIBUTOR ▶

CONTACT INFORMATION

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 CONTACT'S POSITION Resource Assessment Section
 CONTACT'S ROLE distributor

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Hide Contact information ▲

Hide Distributor ▲

DISTRIBUTION FORMAT

* NAME Shapefile

TRANSFER OPTIONS

* TRANSFER SIZE 0.604

ONLINE SOURCE

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

Hide Distribution ▲

Fields ▶

DETAILS FOR OBJECT BED_PSM_Dubois_Co_IN ▶

* TYPE Feature Class
 * ROW COUNT 107

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 Integer
- * WIDTH 10
- * PRECISION 10
- * SCALE 0
- FIELD DESCRIPTION
Bedrock contour lines of static water levels.

[Hide Field Static_E ▲](#)

[Hide Details for object BED_PSM_Dubois_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 2019-07-18

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 2019-07-17 09:54:20
LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-07-18 10:04:15

AUTOMATIC UPDATES
HAVE BEEN PERFORMED Yes
LAST UPDATE 2019-07-18 10:04:15

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2019-07-17 09:54:20

FROM S:\Dubois\2_Shapefiles\Shapefiles_FINAL_Map\BED_PSM_Dubois_Co_IN

TO \\dnr\p02pw\DNRGIS_Working\!

Potentiometric_Finished\Dubois\2_Shapefiles\Shapefiles_FINAL_Map\BED_PSM_Dubois_Co_INCopy

[Hide Metadata Details ▲](#)**Metadata Contacts ►**

METADATA CONTACT

INDIVIDUAL'S NAME Robert K. Schmidt

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

CONTACT'S ROLE point of contact

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[Hide Contact information ▲](#)[Hide Metadata Contacts ▲](#)**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) ▼**