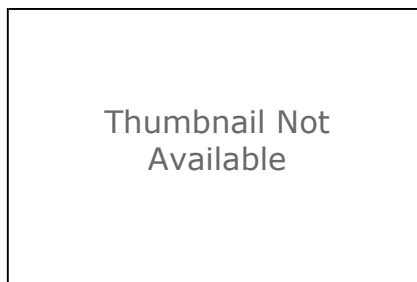


# Limited Unconsolidated Aquifer Data and Nonaquifer Areas for Marion County, Indiana

## Shapefile



## Tags

Potentiometric surface, static water level, groundwater, water wells, water tables, Marion County, Indiana, USA, revised 2015, Grove

## Summary

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

## Description

This file is a digital geospatial polyline coverage of the unconsolidated potentiometric surface elevations mapped for Marion County Indiana.

## Credits

There are no credits for this item.

## Use limitations

See access and use constraints information.

## Extent

<b>West</b>	-86.327119	<b>East</b>	-86.208777
<b>North</b>	39.728804	<b>South</b>	39.631393

## Scale Range

<b>Maximum (zoomed in)</b>	1:5,000
<b>Minimum (zoomed out)</b>	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 Marion County, Indiana, USA

THEME KEYWORDS Potentiometric surface, static water level, groundwater, water wells, water tables, revised 2015

[Hide Topics and Keywords ▲](#)

## Citation ►

TITLE Limited Unconsolidated Aquifer Data and Nonaquifer Areas for Marion County, Indiana

PUBLICATION DATE 2012-10-31 00:00:00

EDITION 1

PRESENTATION FORMATS \* digital map

### SERIES

NAME Unconsolidated Potentiometric Surface Map

ISSUE PSM 19-A

### RESOURCE IDENTIFIER

REFERENCE THAT DEFINES THE VALUE ►

TITLE Potentiometric Surface Map Of The Unconsolidated Aquifers of Marion County, Indiana

[Hide Reference that defines the value ▲](#)

### OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Acton, Beech Grove, Bridgeport, Carmel, Clermont, Cumberland, Fishers, Indianapolis East, Indianapolis West, Maywood, McCordsville, and Zionsville.

[Hide Citation ▲](#)

## Citation Contacts ►

### RESPONSIBLE PARTY

INDIVIDUAL'S NAME Glenn E. Grove

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

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE originator

### CONTACT INFORMATION ►

#### PHONE

VOICE 317-232-4160

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#### ADDRESS

TYPE both

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CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204

COUNTRY UNITED STATES  
E-MAIL ADDRESS [ggrove@dnr.IN.gov](mailto:ggrove@dnr.IN.gov)

HOURS OF SERVICE  
8:15am - 4:15pm M-F except Government Holidays

[Hide Contact information ▲](#)

#### RESPONSIBLE PARTY

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

#### CONTACT INFORMATION ►

ADDRESS  
TYPE  
DELIVERY POINT Indianapolis, Indiana, USA

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ►

DATASET LANGUAGES English (UNITED STATES)  
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE \* vector

\* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.1.4959

#### ARCGIS ITEM PROPERTIES

\* NAME UNC\_Limited\_Data\_Nonaquifer\_Marion  
\* SIZE 0.028  
\* LOCATION file:///\\iotisip01pa\dnrgis\$\!Potentiometric\Marion Revised 2015\Zip Folder\UNC\_Limited\_Data\_Nonaquifer\_Marion.shp  
\* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Extents ►

#### EXTENT

DESCRIPTION  
Latitude Longitude

#### EXTENT

GEOGRAPHIC EXTENT  
BOUNDING RECTANGLE  
EXTENT TYPE Extent used for searching  
\* WEST LONGITUDE -86.327119  
\* EAST LONGITUDE -86.208777  
\* NORTH LATITUDE 39.728804  
\* SOUTH LATITUDE 39.631393  
\* EXTENT CONTAINS THE RESOURCE Yes

## EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 557744.160400  
 \* EAST LONGITUDE 567806.133300  
 \* SOUTH LATITUDE 4387145.000000  
 \* NORTH LATITUDE 4397874.805600  
 \* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

## POINT OF CONTACT

INDIVIDUAL'S NAME Glenn E. Grove  
 ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water  
 CONTACT'S POSITION Resource Assessment Section

## CONTACT INFORMATION ►

## PHONE

VOICE 317-232-4160  
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TYPE both  
 DELIVERY POINT 402 W. Washington Street W264  
 CITY Indianapolis  
 ADMINISTRATIVE AREA Indiana  
 POSTAL CODE 46204  
 COUNTRY UNITED STATES  
 E-MAIL ADDRESS [ggrove@dnr.IN.gov](mailto:ggrove@dnr.IN.gov)

## HOURS OF SERVICE

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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 ►

## CONSTRAINTS

## LIMITATIONS OF USE

See access and use constraints information.

## 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 2012, 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.

[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 UNC\_Limited\_Data\_Nonaquifer\_Marion
- \* OBJECT TYPE composite
- \* OBJECT COUNT 4

[Hide Vector ▲](#)

#### ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME UNC\_Limited\_Data\_Nonaquifer\_Marion

- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Polygon
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 4
- \* SPATIAL INDEX FALSE
- \* 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 ►

#### 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 ▲](#)

### PROCESS STEP ►

#### RATIONALE

A polyline coverage was created using the heads-up method and attributed by Glenn E. Grove. Attribute definitions are described below.

[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 Unconsolidated Aquifers of Marion County, Indiana

**EDITION** 1

#### SERIES

**NAME** Unconsolidated Potentiometric Surface Map

**ISSUE** PSM 19-A

#### RESPONSIBLE PARTY

**INDIVIDUAL'S NAME** Glenn E. Grove

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

**CONTACT'S POSITION** Resource Assessment Section

CONTACT'S ROLE    originator

#### RESPONSIBLE PARTY

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

CONTACT'S ROLE    publisher

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

## Geoprocessing history ►

#### PROCESS

##### PROCESS NAME

DATE    2012-11-16    12:14:00

TOOL LOCATION    C:\Program Files\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

##### COMMAND ISSUED

CalculateField UNC\_PSM\_Marion\_CO\_IN static\_e [Id] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA    No

[Hide Geoprocessing history ▲](#)

## Distribution ►

#### DISTRIBUTOR ►

##### CONTACT INFORMATION

INDIVIDUAL'S NAME    Glenn E. Grove

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

CONTACT'S POSITION    Resource Assessment Section

CONTACT'S ROLE    distributor

##### CONTACT INFORMATION ►

##### PHONE

VOICE    317-232-4160

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TYPE    both

DELIVERY POINT    402 W. Washington Street W264

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COUNTRY    UNITED STATES

E-MAIL ADDRESS    [ggrove@dnr.IN.gov](mailto:ggrove@dnr.IN.gov)

##### HOURS OF SERVICE

8:15am - 4:15pm M-F except Government Holidays

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)



## DISTRIBUTION FORMAT

\* NAME Shapefile

## TRANSFER OPTIONS

\* TRANSFER SIZE 0.028

## ONLINE SOURCE

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

[Hide Distribution ▲](#)

## Fields ►

DETAILS FOR OBJECT [UNC\\_Limited\\_Data\\_Nonaquifer\\_Marion ►](#)

\* TYPE Feature Class

\* ROW COUNT 4

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 UNC\\_Limited\\_Data\\_Nonaquifer\\_Marion](#) ▲

[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 2012-10-31

**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 2016-12-20 08:25:50  
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2016-12-20 10:43:27

**AUTOMATIC UPDATES**

HAVE BEEN PERFORMED Yes  
 LAST UPDATE 2016-12-20 10:43:27

**ITEM LOCATION HISTORY**

ITEM COPIED OR MOVED 2016-12-20 08:25:50  
 FROM M:\!Potentiometric\Marion Revised 2015\UNC\_Limited\_Data\_Nonaquifer\_Marion  
 TO \\iotisip01pa\dnrgis\$\!Potentiometric\Marion Revised 2015\Zip  
 Folder\UNC\_Limited\_Data\_Nonaquifer\_Marion

[Hide Metadata Details](#) ▲

**Metadata Contacts** ►**METADATA CONTACT**

INDIVIDUAL'S NAME Glenn E. Grove  
 ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water  
 CONTACT'S POSITION Resource Assessment Section  
 CONTACT'S ROLE point of contact

**CONTACT INFORMATION** ▶**PHONE**

VOICE 317-232-4160

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**ADDRESS**

TYPE both

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CITY Indianapolis

ADMINISTRATIVE AREA Indiana

POSTAL CODE 46204

COUNTRY UNITED STATES

E-MAIL ADDRESS [ggrove@dnr.IN.gov](mailto:ggrove@dnr.IN.gov)**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

[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)** ▼