Bedrock Topography of Boone County, Indiana

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IDENTIFICATION_INFORMATION

Citation:

Citation Information:

Originator:

Glenn Grove, IDNR Division of Water, Ground Water Section

Publication Date: 200207

Title: Bedrock Topography of Boone County, Indiana (Indiana Department of Natural Resources, Division of

Water, 1:48,000, Line Coverage)

Edition: 1.0

Geospatial Data Presentation Form: Map

Publication Information:

Publication Place: Indianapolis, Indiana, USA

Publisher: Indiana Department of Natural Resources, Division of Water

Other_Citation_Details: This map was compiled from multiple unpublished work maps at 1:24,000 scale: see Data Quality Information section for details about the individual maps that were merged to make the composite map.

Online Linkage:

Larger Work Citation:

Citation Information:

Originator:

Publication Date:

Title:

Publication Information:

Publication Place:

Publisher:

Online Linkage:

Description:

Abstract: This file is a digital geospatial line coverage of bedrock-surface topography for Boone County, Indiana. The mapping was conducted using the water well record data as well as previously published reports and maps of the region. Primary attribute is the elevation of the bedrock surface.

Purpose: Display and/or analyses requiring bedrock topography contours for Boone County, Indiana. The coverage is suitable for use in a Geographic Information System.

Supplemental_Information:

Time Period of Content:

Time Period Information:

Range_of_Dates/Times: Beginning_Date: 1959 Ending Date: 2002

Currentness Reference: publication date

Status:

Progress: Complete

Maintenance and Update Frequency: None planned

Spatial_Domain:

Bounding Coordinates: Bounding_Coordinates:

West_Bounding_Coordinate: 521268
East_Bounding_Coordinate: 574818
North_Bounding_Coordinate: 4455631
South Bounding_Coordinate: 4413728

Keywords: Theme:

Theme Keyword Thesaurus: None

Theme_Keyword: geology
Theme_Keyword: bedrock-surface
Theme Keyword: elevation

Place:

Place Keyword Thesaurus: None

Place Keyword: Boone County, Indiana, USA

Access_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.

Use_Constraints: 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 over many years 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.

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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.

Point of Contact:

Contact Information:

Contact_Organization_Primary:

Contact_Organization: Indiana Department of Natural Resources, Division of Water

Contact Person: Glenn Grove

Contact Position: Engineering Geologist

Contact Address:

Address_Type: Mailing and physical address Address: 402 W. Washington Street W264

City: Indianapolis

State_or_Province: Indiana Postal_Code: 46204

Country: USA

Contact_Voice_Telephone: 317-232-4160 Contact Facsimile Telephone: 317-233-4579

Contact Electronic Mail Address: ggrove@dnr.state.in.us

Native Data Set Environment:

ArcGIS version 8.2 line coverage format

Approximate size 0.7 MB

Boone_cont7

DATA QUALITY INFORMATION

Attribute_Accuracy_Report: The mapping was conducted by hand on mylars over base maps of 1:24,000 quadrangles.

Logical Consistency Report:

Completeness_Report: Every attempt was made to include data from water well records that had complete information, including complete location, construction, pump test, and lithological information. There were a few areas in the county that had insufficient information due to the particular drillers in the area who chronically underreport information on water well records or because of the pervasive insufficient supply of water. Most water well records for poorly producing wells are missing information.

Positional_Accuracy: The locations of the contours are most often based on a combination of the water well record data and base map surface contours. The locations of actual wells were usually estimated from 7.5 minute topographic maps, and visual siting of wells was not always possible. Many locations were based on location of the street address on the water well record.

Horizontal Positional Accuracy:

Horizontal_Positional_Accuracy_Report: Locations of contour lines that are dependent on located well records might be offset slightly if the well is mislocated. Georeferencing of the maps was conducted after the maps were vectorized from a scanned raster image. A minimum of four reference tic marks were used to register the image, and UTM coordinates were assigned to each tic mark before the coverage was transformed to the map projection. The maps were retraced onto mylar for stability, but any positional changes from the paper maps were retained. There is also some inherent errors in transferring tic marks from paper to mylar to digital form, so additional error is expected in this step.

Vertical Positional Accuracy:

Vertical_Positional_Accuracy_Report: The elevation of each contour is dependent on the field-located surface elevation of the water well records. If the well is mislocated, the surface elevation is wrong, or the driller's estimation of depth-to-bedrock is incorrect, then the resulting bedrock elevation will be incorrect, as well. Horizontal positional errors will result in vertical positional errors in an elevation contour map such as this one.

Lineage:

Source Information:

Source Citation:

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200207

Title: Bedrock Topography of Boone County, Indiana (Indiana Department of Natural Resources, Division of

Water, 1:48,000, Line Coverage)

Edition: 1.0

Geospatial Data Presentation Form: map

Publication Information:

Publication Place: Indianapolis, IN Publisher: State of Indiana, IDNR

Other Citation Details:

Online_Linkage:

Larger Work Citation:

Citation Information:

Originator:

Publication Date:

Title:

Publication Information:

Publication Place

Publisher:

Online Linkage:

Source_Scale_Denominator: 48,000 Type_of_Source_Media: digital file Source Time Period of Content:

Time Period Information:

Range_of_Dates/Times: Beginning Date: 1959 Ending Date: 2002

Source Currentness Reference: Publication date

Source Citation Abbreviation: IDNR DOW Boone Co. Bedrock Topography

Source_Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and gas logs, publications

Process Step:

Process_Description: Staff of the IDNR-DOW conducted mapping for this project from 1997 through 2002. The mapping was typically at a 7.5 minute quadrangle scale of 1:24,000. Data were selected by careful evaluation of water well records to determine if the water well records were located and if they contained complete and reasonable information. In other areas, where appropriate, additional data such as seismic shots or oil and gas logs were used. The mapping was conducted on a mylar sheet (on file at the IDNR-DOW).

Source_Used_Citation_Abbreviation: IDNR-DOW water well records for domestic wells submitted by water-well drillers from 1956-2002

Process Date: 2002

Source Produced Citation Abbreviation:

Process_Contact:
Contact_Information:
Contact_Person_Primary:

Contact_Person_Primary:

Contact_Organization: Indiana Department of Natural Resources, Division of Water

Contact_Person: Glenn Grove

Contact_Position: Engineering Geologist

Contact Address:

Address_Type: Mailing and physical address Address: 402 W. Washington Street W264

City: Indianapolis

State or Province: Indiana

Postal_Code: 46204 Country: USA

Contact_Voice_Telephone: 317-232-4160 Contact Facsimile Telephone: 317-233-4579

Contact Electronic Mail Address: ggrove@dnr.state.in.us

Hours of Service: 8:15am - 4:15pm

Process_Step:

Process_Description: The mylar was scanned using a wide-bed black-and-white scanner and saved as a raster image. The raster image was vectorized using a tracer program (ArcScan). The vector data were georeferenced to UTM Zone 16, NAD27. The arc coverage was attributed with the appropriate elevation value. (Personnel: Glenn Grove)

Source_Used_Citation_Abbreviation: IDNR-DOW water well records for domestic wells submitted by water-well drillers from 1956-2002

Process Date: 2002

Source Produced Citation Abbreviation:

Process_Contact:
Contact_Information:
Contact_Person_Primary:

Contact Organization: Indiana Department of Natural Resources, Division of Water

Contact Person: Glenn Grove

Contact Position: Engineering Geologist

Contact Address:

Address_Type: Mailing and physical address Address: 402 W. Washington Street W264

City: Indianapolis

State or Province: Indiana

Postal_Code: 46204 Country: USA

Contact_Voice_Telephone: 317-232-4160 Contact_Facsimile_Telephone: 317-233-4579 Contact Electronic Mail Address: ggrove@dnr.state.in.us

Hours of Service: 8:15am - 4:15pm

Process Step:

Process_Description: After the maps were attributed and georeferenced, each map was digitally edgematched

and joined together using ESRI ArcInfo. Source Used Citation Abbreviation

Process Date: 2002

Source Produced Citation Abbreviation:

Process_Contact:
Contact_Information:

Contact_Person_Primary:

Contact_Organization: Indiana Department of Natural Resources, Division of Water

Contact Person: Glenn Grove

Contact Position: Engineering Geologist

Contact Address:

Address_Type: Mailing and physical address Address: 402 W. Washington Street W264

City: Indianapolis

State or Province: Indiana

Postal_Code: 46204 Country: USA

Contact_Voice_Telephone: 317-232-4160 Contact_Facsimile_Telephone: 317-233-4579

Contact_Electronic_Mail_Address: ggrove@dnr.state.in.us

Hours of Service: 8:15am - 4:15pm

Process Step:

Process Description: The above process steps apply for all work maps.

Source_Used Citation Abbreviation

Process Date: 2002

Source Produced Citation Abbreviation:

Process_Contact:
Contact Information:

Contact Person Primary:

Contact_Organization: Indiana Department of Natural Resources, Division of Water

Contact Person: Glenn Grove

Contact Position: Engineering Geologist

Contact Address:

Address_Type: Mailing and physical address Address: 402 W. Washington Street W264

City: Indianapolis

State_or_Province: Indiana Postal Code: 46204

Country: USA

Contact_Voice_Telephone: 317-232-4160 Contact Facsimile Telephone: 317-233-4579

Contact Electronic Mail Address: ggrove@dnr.state.in.us

Hours of Service: 8:15am - 4:15pm

Lineage:

Source Information:

Source Citation:

Citation Information:

Originator: Mary Thompson, Indiana Department of Natural Resources, Division of Water

Publication Date: work completed 1999

Title: Unpublished work map, Carmel Quadrangle Bedrock Topography. 1:24,000

Edition: 1.0

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Geospatial Data Presentation Form: map
      Publication Information:
       Publication Place: Indianapolis, IN
       Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Mary Thompson: 1999
        Online Linkage:
       Larger Work Citation:
        Citation Information:
         Originator:
         Publication Date:
         Title:
         Publication Information:
          Publication Place:
          Publisher:
         Online Linkage:
    Source Scale Denominator: 24000
    Type of Source Media: mylar
    Source Time Period of Content:
     Time Period Information:
      Range of Dates/Times:
       Beginning Date: 1959
       Ending Date: 1999
     Source Currentness Reference: Publication date
    Source Citation Abbreviation: IDNR DOW Bedrock Topography Carmel Quadrangle Indiana
    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
Lineage:
  Source Information:
    Source Citation:
     Citation Information:
      Originator: William C. Herring and Glenn E. Grove, Indiana Department of Natural Resources, Division of
Water
      Publication Date: work completed 2002
      Title: Unpublished work map, Colfax Quadrangle Bedrock Topography. 1:24,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
        Publication Place: Indianapolis, IN
        Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by William C. Herring and Glenn E. Grove: 2002; the map was
        retraced by William C. Herring and Glenn E. Grove for scanning.
        Online Linkage:
      Larger Work Citation:
        Citation Information:
         Originator:
         Publication Date:
         Title:
         Publication Information:
          Publication Place:
          Publisher:
         Online Linkage:
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    Type of Source Media: mylar
    Source Time Period of Content:
     Time Period Information:
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Range of Dates/Times:
        Beginning Date: 1959
        Ending Date: 2002
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    Source Citation Abbreviation: IDNR DOW Bedrock Topography Colfax Quadrangle Indiana
    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications.
Lineage:
  Source Information:
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     Citation Information:
      Originator: Mary Thompson, Indiana Department of Natural Resources, Division of Water
      Publication Date: work completed 1998
      Title: Unpublished work map, Fayette Quadrangle Bedrock Topography. 1:24,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
       Publication Place: Indianapolis, IN
        Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Marv Thompson: 1999; Marv Thompson retraced the map for
        scanning.
        Online Linkage:
      Larger Work Citation:
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         Publication Date:
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         Publication Information:
          Publication Place:
          Publisher:
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        Beginning Date: 1959
        Ending Date: 1999
     Source Currentness Reference: Publication date
    Source Citation Abbreviation: IDNR DOW Bedrock Topography Fayette Quadrangle Indiana
    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
Lineage:
  Source Information:
    Source Citation:
     Citation Information:
      Originator: William C. Herring (2002) and Marvin B. Thompson (1999), Indiana Department of Natural
Resources, Division of Water
      Publication Date: work completed 2002
      Title: Unpublished work map, Hazelrigg Quadrangle Bedrock Topography. 1:24,000
      Edition: 1.0
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Geospatial Data Presentation Form: map

Publication Place: Indianapolis, IN

Publication Information:

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Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Mary Thompson: 1999 and William C. Herring 2002
        Online Linkage:
      Larger Work Citation:
        Citation Information:
         Originator:
         Publication Date:
         Title:
         Publication Information:
          Publication Place:
          Publisher:
         Online Linkage:
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    Type of Source Media: mylar
    Source Time Period of Content:
     Time Period Information:
      Range of Dates/Times:
        Beginning Date: 1959
        Ending Date: 2002
     Source Currentness Reference: Publication date
    Source Citation Abbreviation: IDNR DOW Bedrock Topography Hazelrigg Quadrangle Indiana
    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
Lineage:
  Source Information:
    Source Citation:
     Citation Information:
      Originator: Glenn E. Grove (2002) and Marvin B. Thompson (1999), Indiana Department of Natural
Resources, Division of Water
      Publication Date: work completed 2002
      Title: Unpublished work map, Kirklin Quadrangle Bedrock Topography. 1:24,000
      Geospatial Data Presentation Form: map
      Publication Information:
       Publication Place: Indianapolis, IN
       Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Glenn E. Grove (2002) and Marvin B. Thompson (1999); Glenn E.
        Grove (2002) and Marvin B. Thompson (1999) retraced the map for scanning.
        Online Linkage:
      Larger Work Citation:
        Citation Information:
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         Publication Date:
         Title:
         Publication Information:
          Publication Place:
          Publisher:
         Online Linkage:
    Source Scale Denominator: 24000
    Type of Source Media: mylar
    Source Time Period of Content:
     Time Period Information:
      Range of Dates/Times:
        Beginning Date: 1959
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Ending Date: 2002

Source Currentness Reference: Publication date Source Citation Abbreviation: IDNR DOW Bedrock Topography Kirklin Quadrangle Indiana Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and gas logs, publications Lineage: Source Information: Source Citation: Citation Information: Originator: Glenn E. Grove (2002), William C. Herring (2002), and Marvin B. Thompson (1999), Indiana Department of Natural Resources, Division of Water Publication Date: work completed 2002 Title: Unpublished work map, Lebanon Quadrangle Bedrock Topography. 1:24,000 Edition: 1.0 Geospatial Data Presentation Form: map **Publication Information:** Publication Place: Indianapolis, IN Publisher: State of Indiana, IDNR Other Citation Details: Data plotted by Glenn E. Grove (2002), William C. Herring (2002), and Marvin B. Thompson (1999); Glenn E. Grove (2002), William C. Herring (2002), and Marvin B. Thompson (1999) retraced the map for scanning. Online Linkage: Larger Work Citation: Citation Information: Originator: Publication Date: Title: Publication Information: Publication Place: Publisher: Online Linkage: Source Scale Denominator: 24000 Type of Source Media: mylar Source Time Period of Content: Time Period Information: Range of Dates/Times: Beginning Date: 1959 Ending Date: 2002 Source Currentness Reference: Publication date Source Citation Abbreviation: IDNR DOW Bedrock Topography Lebanon Quadrangle Indiana Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and gas logs, publications Lineage: Source Information: Source Citation: Citation Information: Originator: Marv Thompson, Indiana Department of Natural Resources, Division of Water Publication Date: work completed 1998 Title: Unpublished work map, Lizton Quadrangle Bedrock Topography. 1:24,000 Edition: 1.0 Geospatial Data Presentation_Form: map

Publication Information:

Publication_Place: Indianapolis, IN Publisher: State of Indiana, IDNR

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Other Citation Details: Data plotted by Mary Thompson: 1999; Mary Thompson retraced the map for
        scanning.
        Online Linkage:
      Larger Work Citation:
        Citation Information:
         Originator:
         Publication Date:
         Title:
         Publication Information:
          Publication Place:
          Publisher:
         Online Linkage:
    Source Scale Denominator: 24000
    Type of Source Media: mylar
    Source Time Period of Content:
     Time Period Information:
      Range of Dates/Times:
        Beginning Date: 1959
        Ending Date: 1999
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    Source Citation Abbreviation: IDNR DOW Bedrock Topography Lizton Quadrangle Indiana
    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
Lineage:
  Source Information:
    Source Citation:
     Citation Information:
      Originator: Glenn E. Grove, Indiana Department of Natural Resources, Division of Water
      Publication Date: work completed 2002
      Title: Unpublished work map, Mechanicsburg Quadrangle Bedrock Topography. 1:24,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
       Publication Place: Indianapolis, IN
       Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Glenn E. Grove: 2002; Glenn E. Grove retraced the map for
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        Ending Date: 2002
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Source Citation Abbreviation: IDNR DOW Bedrock Topography Mechanicsburg Quadrangle Indiana
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gas logs, publications
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     Citation Information:
      Originator: William C. Herring (2002) and Marvin B. Thompson (1999), Indiana Department of Natural
Resources, Division of Water
      Publication Date: work completed 2002
      Title: Unpublished work map, New Ross Quadrangle Bedrock Topography. 1:24,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
        Publication Place: Indianapolis, IN
       Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Marv Thompson: 1999 and William C. Herring 2002
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    Source Scale Denominator: 24000
    Type of Source Media: mylar
    Source Time Period of Content:
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        Ending Date: 2002
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gas logs, publications
Lineage:
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      Originator: Mary Thompson, Indiana Department of Natural Resources, Division of Water
      Publication Date: work completed 1998
      Title: Unpublished work map, Rosston Quadrangle Bedrock Topography. 1:24,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
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        Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Mary Thompson: 1999; Mary Thompson retraced the map for
        scanning.
        Online Linkage:
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Larger Work Citation:

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Citation Information:
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    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
Lineage:
  Source Information:
    Source Citation:
     Citation Information:
      Originator: William C. Herring, Indiana Department of Natural Resources, Division of Water
      Publication Date: work completed 200207
      Title: Unpublished work map, Shannondale Quadrangle Bedrock Topography. 1:24,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
        Publication Place: Indianapolis, IN
       Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by William C. Herring: 2002
        Online Linkage:
      Larger Work Citation:
        Citation Information:
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    Type of Source Media: mylar
    Source Time Period of Content:
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      Range of Dates/Times:
        Beginning Date: 1959
        Ending Date: 2002
     Source Currentness Reference: Publication date
    Source Citation Abbreviation: IDNR DOW Bedrock Topography Shannondale Quadrangle Indiana
    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
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Source Information:
    Source Citation:
     Citation Information:
      Originator: Hamilton and Tipton Counties by Tim Kroeker, Indiana Department of Natural Resources,
Division of Water
      Publication Date: work completed 1997
      Title: Unpublished work map, Sheridan Quadrangle Bedrock Topography. 1:48,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
       Publication Place: Indianapolis, IN
       Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Tim Kroeker: 1997; Tim Kroeker retraced the map for scanning.
        Online Linkage:
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         Title:
         Publication Information:
          Publication Place:
          Publisher:
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    Source Scale Denominator: 48000
    Type of Source Media: mylar
    Source Time Period of Content:
     Time Period Information:
      Range of Dates/Times:
        Beginning Date: 1959
       Ending Date: 1997
     Source Currentness Reference: Publication date
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    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
Lineage:
  Source Information:
    Source Citation:
     Citation Information:
      Originator: Glenn E. Grove and William C. Herring, Indiana Department of Natural Resources, Division of
Water
      Publication Date: work completed 200207
      Title: Unpublished work map, Thorntown Quadrangle Bedrock Topography. 1:24,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
       Publication Place: Indianapolis, IN
       Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Glenn E. Grove and William C. Herring: 2002
        Online Linkage:
       Larger Work Citation:
        Citation Information:
         Originator:
         Publication Date:
```

Publication Information:

```
Publication Place:
          Publisher:
         Online Linkage:
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    Source Time Period of Content:
     Time Period Information:
      Range of Dates/Times:
        Beginning Date: 1959
        Ending Date: 2002
     Source Currentness Reference: Publication date
    Source Citation Abbreviation: IDNR DOW Bedrock Topography Thorntown Quadrangle Indiana
    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
Lineage:
  Source Information:
    Source Citation:
     Citation Information:
      Originator: Tim Kroeker, Indiana Department of Natural Resources, Division of Water
      Publication_Date: work completed 1997
      Title: Unpublished work map, Westfield Quadrangle Bedrock Topography. 1:48,000
      Edition: 1.0
      Geospatial Data Presentation Form: map
      Publication Information:
       Publication Place: Indianapolis, IN
        Publisher: State of Indiana, IDNR
        Other Citation Details: Data plotted by Tim Kroeker: 1997; Tim Kroeker traced the map for scanning.
        Online Linkage:
      Larger Work Citation:
        Citation Information:
         Originator:
         Publication Date:
         Title:
         Publication Information:
          Publication Place:
          Publisher:
         Online Linkage:
    Source Scale Denominator: 48000
    Type of Source Media: mylar
    Source Time Period of Content:
     Time Period Information:
      Range of Dates/Times:
       Beginning Date: 1959
       Ending Date: 1997
     Source Currentness Reference: Publication date
    Source Citation Abbreviation: IDNR DOW Bedrock Topography Westfield Quadrangle Indiana
    Source Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and
gas logs, publications
Lineage:
  Source Information:
    Source Citation:
     Citation Information:
      Originator: Marv Thompson, Indiana Department of Natural Resources, Division of Water
```

Publication Date: work completed 1999

Title: Unpublished work map, Zionsville Quadrangle Bedrock Topography. 1:24,000

Edition: 1.0

Geospatial Data Presentation Form: map

Publication Information:

Publication_Place: Indianapolis, IN Publisher: State of Indiana, IDNR

Other Citation Details: Data plotted by Mary Thompson: 1999

Online_Linkage:
Larger_Work_Citation:
Citation_Information:

Originator:

Publication Date:

Title:

Publication_Information:
Publication_Place:

Publisher: Online Linkage:

Source_Scale_Denominator: 24000 Type_of_Source_Media: mylar Source_Time_Period_of_Content: Time_Period_Information: Range_of_Dates/Times: Beginning_Date: 1959 Ending_Date: 1999

Source Currentness Reference: Publication date

Source Citation Abbreviation: IDNR DOW Bedrock Topography Zionsville Quadrangle Indiana

Source_Contribution: water well records from the IDNR-DOW water well record archives, seismic data, oil and

gas logs, publications

SPATIAL DATA ORGANIZATION INFORMATION

Direct_Spatial_Reference_Method: Vector Point_and_Vector_Object_Information: SDTS Terms Description:

SDTS Point and Vector Object Type: GT-polygon composed of chains

Point and Vector Object Count: 1

SPATIAL REFERENCE INFORMATION

Horizontal Coordinate_System_Definition:

Planar:

Grid Coordinate System:

Grid Coordinate System Name: Universal Transverse Mercator

Universal_Transverse_Mercator:
UTM_Zone_Number: 16
Transverse Mercator:

Scale_Factor_at_Central_Meridian: 0.999600 Longitude_of_Central_Meridian: -87.000000 Latitude of Projection Origin: 0.000000

False Easting: 500000.000000

False_Northing: 0.000000 Planar Coordinate Information:

Planar Coordinate Encoding Method: Coordinate pair

Coordinate_Representation: Abscissa_Resolution: Ordinate_Resolution:

Planar Distance Units: Meters

Geodetic Model:

Horizontal Datum Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866 Semi-major_Axis: 6378206.4000000 Denominator_of_Flattening_Ratio: 294.98

ENTITY AND ATTRIBUTE INFORMATION

Overview_Description:

Entity_and_Attribute_Overview: The points in this file represent calculations of bedrock-surface topography determined at or around water wells. The file was created for the purpose of characterizing the bedrock surface as a tool to help assess the ground water resources of Boone County, Indiana.

Entity and Attribute Detail Citation:

Detailed Description:

Entity Type:

Entity_Type_Label: Boone_bedrock.aat Entity_Type_Definition: arc attribute table Entity_Type_Definition Source: None

Attribute:

Attribute Label: elevation

Attribute Definition: the elevation of the bedrock surface in feet above mean sea level

Attribute Definition Source: IDNR-DOW, Ground Water Section

Attribute_Domain_Values:
Range Domain:

Range Domain Maximum: 550 Range Domain Maximum: 900

Attribute Units of Measure: integer

Attribute Measurement Resolution: 25 foot contours.

Attribute_Value_Accuracy_Information:

Attribute Value Accuracy:

Attribute Value Accuracy Explanation:

Attribute:

Attribute Label: Mod

Attribute Definition: Modulo of elevation value. Used to assign color or patterns to contour classes

(lines).

Attribute Definition Source: IDNR-DOW Ground Water Section

Attribute Domain Values:

Range Domain:

Range_Domain_Minimum: 00 Range_Domain_Maximum: 75

Attribute_Units_of_Measure: positive integers

Attribute_Measurement_Resolution: Attribute_Value_Accuracy_Information:

Attribute_Value Accuracy:

Attribute Value Accuracy Explanation:

DISTRIBUTION INFORMATION

Distributor:

Contact Information:

Contact Organization Primary:

Contact Organization: Indiana Department of Natural Resources, Division of Water

Contact Person: Glenn Grove

Contact Position: Engineering Geologist

Contact Address:

Address_Type: Mailing and physical address Address: 402 W. Washington Street W264

City: Indianapolis

State or Province: Indiana

Postal_Code: 46204 Country: USA

Contact_Voice_Telephone: 317-232-4160 Contact_Facsimile_Telephone: 317-233-4579

Contact Electronic Mail Address: ggrove@dnr.state.in.us

Hours of Service: 8:15am - 4:15pm

Resource Description:

Distribution_Liability: The Indiana State 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. Reference to any specific commercial product, process, or service does not constitute an endorsement, recommendation, or favoring by the Division.

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METADATA REFERENCE INFORMATION

Metadata_Date: 200210 Metadata_Review_Date: Metadata_Contact: Contact Information:

Contact Organization Primary:

Contact Organization: Indiana Department of Natural Resources, Division of Water

Contact Person: Glenn Grove

Contact Position: Ground Water Section

Contact_Address:

Address_Type: Mailing and physical address Address: 402 W. Washington Street W264

City: Indianapolis

State or Province: Indiana

Postal_Code: 46204 Country: USA Contact_Voice_Telephone: 317-232-4160 Contact_Facsimile_Telephone: 317-233-4579

Contact Electronic Mail Address: ggrove@dnr.state.in.us

Hours_of_Service: 8:15am - 4:15pm Metadata_Standard_Name: FGDC CSDGM

Metadata Standard Version: FGDC-STD-001-1998

Metadata Use Constraints: This metadata file is intended to accompany the subject geospatial data set. This file

may be updated, and the most recent version is available by contacting the IDNR Division of Water.