

Bedrock-surface Topography of Hendricks County, Indiana

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IDENTIFICATION_INFORMATION

Citation:

Citation_Information:

Originator:

Glenn Grove, IDNR Division of Water, Ground Water Section

Publication_Date: 200104

Title: Bedrock-surface Topography of Hendricks 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Other_Citation_Details: This map was compiled from multiple unpublished work maps at 1:24,000 scale: see Data Quality Information section for details about the individual maps that were merged to make the composite map.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: Ground Water Atlas of Hendricks County, Indiana

Citation_Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication_Date: not yet published, in progress

Title: Ground Water Atlas of Hendricks County, Indiana

Publication_Information:

Publication_Place: Indianapolis, Indiana, USA

Publisher: Indiana Department of Natural Resources, Division of Water

Online_Linkage:

Description:

Abstract: This file is a digital geospatial line coverage of bedrock-surface topography for Hendricks 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 Hendricks County, Indiana. The coverage is suitable for use in a Geographic Information Systems.

Supplemental_Information:

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 1959

Ending_Date: 1999

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates: Bounding_Coordinates:

West_Bounding_Coordinate: -86.6966

East_Bounding_Coordinate: -86.3237

North_Bounding_Coordinate: 39.9256

South_Bounding_Coordinate: 39.5996

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: geology

Theme_Keyword: bedrock-surface

Theme_Keyword: elevation

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Hendricks 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 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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Division of Water
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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:

ArcInfo version 7.1 line coverage format

Approximate size 2 MB

Hendr_cont7.e00

and

ArcView 3.2 shapefile

Approximate size 0.8 MB

Hendr_cont7.shp

DATA_QUALITY_INFORMATION

Attribute_Accuracy:

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 on water well records, 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 under-report 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 log 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 surface location 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: 200104

Title: Bedrock-surface Topography of Hendricks 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: Ground Water Atlas of Hendricks County, Indiana

Citation_Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication_Date: not yet published; in preparation

Title: Ground Water Atlas of Hendricks County, Indiana

Publication_Information:

Publication_Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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: 1999

Source_Currentness_Reference: Publication date

Source_Citation_Abbreviation: IDNR_DOW_Hendricks_Co. Bedrock_surface_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 1998 through 1999.

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 1956-1999

Process_Date: 1999

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 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: Sally Letsinger)

Source_Used_Citation_Abbreviation: IDNR-DOW water well records for domestic wells submitted by water-well drillers from 1956-1999

Process_Date: 1999

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: 1999

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

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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: 1999

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:

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Address: 402 W. Washington Street W264

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State or Province: Indiana

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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: Marv Thompson, Indiana Department of Natural Resources, Division of Water

Publication Date: work completed 1999

Title: Unpublished work map, Bridgeport Quadrangle Bedrock-surface 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

Online Linkage:

Larger Work Citation: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_topography_Bridgeport_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, Brownsburg Quadrangle Bedrock-surface 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; the map was retraced by Marv Thompson for scanning.

Online Linkage:

Larger Work Citation: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN
Publisher: Indiana Department of Natural Resources
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_WFWR_Bedrock_surface_topography_Brownsburg_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, Clayton Quadrangle Bedrock-surface 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: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_topography_Clayton_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, Clermont Quadrangle Bedrock-surface 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

Online Linkage:

Larger Work Citation: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_topography_Clermont_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, Coatesville Quadrangle Bedrock-surface 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: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_topography_Coatesville_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 1997

Title: Unpublished work map, Danville Quadrangle Bedrock-surface 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: 1997; Marv Thompson retraced the map for scanning.

Online Linkage:

Larger_Work_Citation: Ground Water Atlas of Hendricks County, Indiana

Citation_Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication_Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication_Information:

Publication_Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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: 1997

Source_Currentness_Reference: Publication date

Source_Citation_Abbreviation:

IDNR_DOW_WFWR_Bedrock_surface_topography_Danville_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 and Bill Herring, Indiana Department of Natural Resources, Division of Water

Publication_Date: work completed 19980401

Title: Unpublished work map, Eminence Quadrangle Bedrock-surface 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 and Bill Herring: 1998

Online Linkage:

Larger Work Citation: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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: 1998

Source Currentness Reference: Publication date

Source Citation Abbreviation:

IDNR_DOW_WFWR_Bedrock_surface_topography_Eminence_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, Fayette Quadrangle Bedrock-surface 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: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_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: Bill Herring and Marv Thompson, Indiana Department of Natural Resources, Division of Water

Publication Date: work completed 19980824

Title: Unpublished work map, Hall Quadrangle Bedrock-surface 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 Bill Herring and Marv Thompson: 1998

Online Linkage:

Larger Work Citation: Bedrock-surface topography of the West Fork White River basin

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Water Resources in the White and West Fork White River Basins

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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: 1998

Source Currentness Reference: Publication date

Source Citation Abbreviation: IDNR_DOW_WFWR_Bedrock_surface_topography_Hall_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, Lizton Quadrangle Bedrock-surface 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: Ground Water Atlas of Hendricks County, Indiana

Citation_Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication_Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication_Information:

Publication_Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_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: Marv Thompson and Bill Herring, Indiana Department of Natural Resources, Division of Water

Publication_Date: work completed 19990615

Title: Unpublished work map, Mooresville West Quadrangle Bedrock-surface 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 and Bill Herring: 1999

Online_Linkage:

Larger_Work_Citation: Ground Water Atlas of Hendricks County, Indiana

Citation_Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication_Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication_Information:

Publication_Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_topography_Mooresville
West_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, New Ross Quadrangle Bedrock-surface 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: Ground Water Atlas of Hendricks County, Indiana

Citation_Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication_Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication_Information:

Publication_Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_topography_New
Ross_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, North Salem Quadrangle Bedrock-surface 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: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_topography_North

Salem 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, Plainfield Quadrangle Bedrock-surface 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: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

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_WFWR_Bedrock_surface_topography_Plainfield_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-surface 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

Online Linkage:

Larger Work Citation: Ground Water Atlas of Hendricks County, Indiana

Citation Information:

Originator: Indiana Department of Natural Resources, Division of Water

Publication Date: 200104

Title: Ground Water Atlas of Hendricks County, Indiana

Publication Information:

Publication Place: Indianapolis, IN

Publisher: Indiana Department of Natural Resources

Online Linkage:

Source Scale Denominator: 24000

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Source Time Period of Content:

Time Period Information:

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Source Currentness Reference: Publication date

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IDNR_DOW_WFWR_Bedrock_surface_topography_Zionsville_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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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

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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

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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 part of the Ground Water Atlas of Hendricks County, Indiana .

Entity_and_Attribute_Detail_Citation:

Detailed_Description:

Entity_Type:

Entity_Type_Label: Hendricks_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_Minimum: 575

Range_Domain_Maximum: 925

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:

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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 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.

This map was compiled by staff of the Indiana State Department of Natural Resources Division of Water using data believed to be accurate. However, a degree of error is inherent in all maps. This map is intended for use only at the published scale.

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METADATA_REFERENCE_INFORMATION

Metadata_Date: 200104

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.

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