

## Public Land Survey System 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##### *Publication\_Date:* unpublished

Title: Public Land Survey of Hendricks County, Indiana (Indiana Department of Natural Resources, Division of Water, 1:48,000, Polygon 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 as a base map for Bedrock-surface Topography of Hendricks County, Indiana, from multiple USGS digital raster quadrangles maps at 1:24,000 scale: see Data Quality Information section for 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 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 polygon coverage of the public land survey system, based on USGS digital raster maps. Primary attributes are township, range and section.

*Purpose:* Provide a base map for Bedrock-surface Topography of Hendricks County. 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:* 2000

*Ending\_Date:* 2000

*Currentness\_Reference:* publication date

#### *Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* None planned

#### *Spatial\_Domain:*

*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:* Public land survey system  
*Theme\_Keyword:* township, range  
*Theme\_Keyword:* section

*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 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 polygon coverage format

Approximate size: 0.7 MB

Trs\_fin.e00

and

ArcView 3.2 shapefile

Approximate size: 0.3 MB

Trs\_fin.shp

## DATA\_QUALITY\_INFORMATION

### *Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* The mapping was conducted by heads up digitizing over USGS digital raster maps of 1:24,000 quadrangles.

### *Logical\_Consistency\_Report:*

*Completeness\_Report:* Every attempt was made to include all township, range and section lines for Hendricks County.

*Positional\_Accuracy:* The locations of the lines are based on the location of the township, range and section lines on the USGS digital raster quadrangle maps (NAD 27)

### *Horizontal\_Positional\_Accuracy:*

*Horizontal\_Positional\_Accuracy\_Report:* . The accuracy of the lines depends on the scale at which the heads up digitizing was performed. Generally, the lines are within 15 meters of the actual line and most cases within five meters. There may be some errors where the township, range and sections lines are not present or clear.

### *Vertical\_Positional\_Accuracy:*

*Vertical\_Positional\_Accuracy\_Report:* Not applicable

### *Lineage:*

#### *Source\_Information:*

##### *Source\_Citation:*

##### *Citation\_Information:*

*Originator:* Indiana Department of Natural Resources, Division of Water

*Publication\_Date:* 200104

*Title:* Public Land Survey of Hendricks County, Indiana (Indiana Department of Natural Resources, Division of Water, 1:48,000, Polygon 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:* Ground Water Atlas of Hendricks County, Indiana

*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:* 2000

*Ending\_Date:* 2000

*Source\_Currentness\_Reference:* Publication date

*Source\_Citation\_Abbreviation:* IDNR\_DOW\_Hendricks\_County\_Bedrock\_surface\_topography

*Source\_Contribution:* USGS digital raster quadrangle maps (NAD 27)

### *Process\_Step:*

*Process\_Description:* Staff of the IDNR-DOW conducted mapping for this project during 2000. The mapping was conducted utilizing USGS digital raster quadrangle maps (NAD 27) as a background in ArcView. Creating a

line coverage then heads up digitizing along the sections lines. Every effort was made to place the digitized line within the section lines on the base map. However, there may be areas where the digitized lines are as much as 15 meters off center. The line coverage was then converted to a polygon coverage. The township, range and section attribute data was then added to the coverage.

*Source\_Used\_Citation\_Abbreviation:* *PLSS\_Hendricks County*

*Process\_Date:* 2000

*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

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*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:*  
*Address\_Type:* Mailing and physical address  
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*Contact\_Electronic\_Mail\_Address:* ggrove@dnr.state.in.us  
*Hours\_of\_Service:* 8:15am - 4:15pm

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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 polygons represent the township, range and sections for Hendricks County.

### Entity\_and\_Attribute\_Detail\_Citation:

#### Detailed Description:

##### Entity\_Type:

*Entity\_Type\_Label:* hendricks\_trs.pat

*Entity\_Type\_Definition:* polygon attribute table

*Entity\_Type\_Definition\_Source:* None

##### Attribute:

*Attribute\_Label:* town\_text

*Attribute\_Definition:* PLSS township

*Attribute\_Definition\_Source:* IDNR-DOW, Ground Water Section

*Attribute\_Domain\_Values:* character

##### Range\_Domain:

*Range\_Domain\_Minimum:* 14N

*Range\_Domain\_Maximum:* 17N

*Attribute\_Units\_of\_Measure:*

*Attribute\_Measurement\_Resolution:*

*Attribute\_Value\_Accuracy\_Information:*

*Attribute\_Value\_Accuracy:*

*Attribute\_Value\_Accuracy\_Explanation:*

##### Attribute:

*Attribute\_Label:* Range\_text

*Attribute\_Definition:* PLSS range

*Attribute\_Definition\_Source:* IDNR-DOW Ground Water Section

*Attribute\_Domain\_Values:* character

##### Range\_Domain:

*Range\_Domain\_Minimum:* 1E

*Range\_Domain\_Maximum:* 3W

*Attribute\_Units\_of\_Measure:*

*Attribute\_Measurement\_Resolution:*

*Attribute\_Value\_Accuracy\_Information:*

*Attribute\_Value\_Accuracy:*

*Attribute\_Value\_Accuracy\_Explanation:*

##### Attribute:

*Attribute\_Label:* Section

*Attribute\_Definition:* PLSS section

*Attribute\_Definition\_Source:* IDNR-DOW Ground Water Section

*Attribute\_Domain\_Values:* integer

##### Range\_Domain:

*Range\_Domain\_Minimum:* 1

*Range\_Domain\_Maximum:* 36

*Attribute\_Units\_of\_Measure:*

*Attribute\_Measurement\_Resolution:*

*Attribute\_Value\_Accuracy\_Information:*

*Attribute\_Value\_Accuracy:*

*Attribute\_Value\_Accuracy\_Explanation:*

##### Attribute:

*Attribute\_Label:* Range

*Attribute\_Definition:* PLSS section

*Attribute\_Definition\_Source:* IDNR-DOW Ground Water Section

*Attribute\_Domain\_Values:* integer

##### Range\_Domain:

*Range\_Domain\_Minimum:* 3  
*Range\_Domain\_Maximum:* 33

*Attribute\_Units\_of\_Measure:*  
*Attribute\_Measurement\_Resolution:*  
*Attribute\_Value\_Accuracy\_Information:*  
*Attribute\_Value\_Accuracy:*  
*Attribute\_Value\_Accuracy\_Explanation:*

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*Attribute\_Label:* Town  
*Attribute\_Definition:* PLSS section  
*Attribute\_Definition\_Source:* IDNR-DOW Ground Water Section  
*Attribute\_Domain\_Values:* integer  
*Range\_Domain:*  
*Range\_Domain\_Minimum:* 14  
*Range\_Domain\_Maximum:* 17  
*Attribute\_Units\_of\_Measure:*  
*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:* 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

*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.

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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

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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

*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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