Identification\_Information:

Citation: Fowler, K.K., Flood-inundation maps for the White River near Edwardsport, Indiana: U.S. Geological Survey Scientific Investigations Report 2014-5219, 11 p.

Citation\_Information:

Originator: U.S. Geological Survey, Indiana Water Science Center

Publication\_Date: 2014

Title: whitedwIN\_12

Geospatial\_Data\_Presentation\_Form: raster digital data

Series\_Information:

Series\_Name: Scientific Investigations Report

Issue\_Identification: SIR 5219

Publication\_Information:

Publication\_Place: Reston, Virginia

Publisher: U.S. Geological Survey

Online\_Linkage: <http://dx.doi.org/10.3133/sir20145219> Larger\_Work\_Citation:

Citation\_Information:

Originator: U.S. Geological Survey, Indiana Water Science Center

Publication\_Date: 2014

Title: Flood-Inundation Maps for the White River near Edwardsport, Indiana

Geospatial\_Data\_Presentation\_Form: document

Series\_Information:

Series\_Name: Scientific Investigations Report

Issue\_Identification: SIR 5219

Publication\_Information:

Publication\_Place: Reston, Virginia

Publisher: U.S. Geological Survey

Description:

Abstract:

Digital flood-inundation maps for a 3.3-mile reach of the White River near Edwardsport, Indiana, were created by the U.S. Geological Survey (USGS) in cooperation with the Indiana Department of Transportation. The inundation maps, which can be accessed through the USGS Flood Inundation Mapping Science Web site at http://water.usgs.gov/osw/flood\_inundation/, depict estimates of the areal extent and depth of flooding corresponding to selected water levels (stages) at USGS streamgage 03360730, White River near Edwardsport, Ind. Current conditions for estimating near-real-time areas of inundation using USGS streamgage information may be obtained on the Internet at http://waterdata.usgs.gov/. In addition, information has been provided to the National Weather Service (NWS) for incorporation into their Advanced Hydrologic Prediction Service (AHPS) flood warning system (http:/water.weather.gov/ahps/). The NWS forecasts flood hydrographs at many places that are often colocated with USGS streamgages. NWS-forecasted peak-stage information may be used in conjunction with the maps developed in this study to show predicted areas of flood inundation.

Purpose:

The purpose of this report is to describe the development of a series of estimated flood-inundation maps for the White River near Edwardsport, Ind. The maps and other useful flood information are available on the USGS Flood Inundation Mapping Science Web site and the National Weather Service Advanced Hydrologic Prediction Service Web site. Internet users can select estimated inundation maps that correspond to (1) current stages at the USGS streamgage, (2) the NWS forecasted peak stage, or (3) other desired stream stages.

Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: unknown

Currentness\_Reference: ground condition

Status:

Progress: Complete

Maintenance\_and\_Update\_Frequency: None planned

Spatial\_Domain:

Bounding\_Coordinates:

West\_Bounding\_Coordinate: -87.246524

East\_Bounding\_Coordinate: -87.228532

North\_Bounding\_Coordinate: 38.825988

South\_Bounding\_Coordinate: 38.781401

Keywords:

Theme:

Theme\_Keyword\_Thesaurus: none

Theme\_Keyword: flood

Theme\_Keyword: flood-inundation maps

Theme\_Keyword: hydrologic prediction

Theme\_Keyword: hydraulic

Theme\_Keyword: modeling

Place:

Place\_Keyword: Edwardsport, Indiana

Access\_Constraints:

None. This dataset is provided by USGS as a public service. Users

of this geospatial database and geologic information derived from there should acknowledge the U.S. Geological Survey as the source of the data.

Use\_Constraints:

Users must assume responsibility to determine the appropriate use of this data. Users should be aware of the limitations of this dataset if using for critical application.

Point\_of\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Organization: US Geological Survey, Indiana Water Science Center

Contact\_Address:

Address\_Type: mailing and physical address

Address: 5957 Lakeside Blvd.

City: Indianapolis

State\_or\_Province: Indiana

Postal\_Code: 46278

Country: USa

Native\_Data\_Set\_Environment: Microsoft Windows Vista Version 6.1 (Build 7601) Service Pack 1; ESRI ArcCatalog 9.3.1.3000

Cross\_Reference:

Citation\_Information:

Originator: US Geological Survey, Indiana Water Science Center

Publication\_Date: 2014

Title: Flood-Inundation Maps for the White River near Edwardsport, Indiana

Geospatial\_Data\_Presentation\_Form: document

Series\_Information:

Series\_Name: Scientific Investigations Report

Issue\_Identification: SIR 5219

Publication\_Information:

Publication\_Place: Reston, Virginia

Publisher: U.S. Geological Survey

Data\_Quality\_Information:

Attribute\_Accuracy:

Attribute\_Accuracy\_Report: Attributes for water-surface elevation were input from the HEC-RAS model output data table. Flow input data for the HEC-RAS model were obtained from the most current stage-discharge relation at USGS streamgage White River near Edwardsport, Ind.(station no. 03360730), Ind.

Positional\_Accuracy:

Horizontal\_Positional\_Accuracy:

Horizontal\_Positional\_Accuracy\_Report: As with any engineering analysis of this type, variation from the estimated flood heights and flood-plain boundaries is possible. Details of the process used to produce these data can be found in project documentation available from the data contact person. Horizontal accuracy was tested by evaluating

boundaries to best available topographic dataset.

Vertical\_Positional\_Accuracy:

Vertical\_Positional\_Accuracy\_Report: As with any engineering analysis of this type, variation from the estimated flood heights and flood-plain boundaries is possible. Details of the process used to produce these data can be found in project documentation available from the data contact person. Vertical accuracy was tested by evaluating

boundaries to best available topographic dataset.

Lineage:

Source\_Information:

Source\_Citation:

Citation\_Information:

Originator: U.S. Geological Survey, Indiana Water Science Center

Publication\_Date: 2014

Title: Flood-Inundation Maps for the White River near Edwardsport, Indiana

Series\_Information:

Series\_Name: Scientific Investigations Report

Publication\_Information:

Publication\_Place: Reston Virginia

Publisher: U.S. Geological Survey

Larger\_Work\_Citation:

Citation\_Information:

Originator: U.S. Geological Survey

Publication\_Date: 2014

Title: Flood-Inundation Maps for the White River near Edwardsport, Indiana

Process\_Step:

Process\_Description: Metadata imported.

Source\_Used\_Citation\_Abbreviation: [http://dx.doi.gov/sir/2014/5219](http://dx.doi.gov/sir/2014/xxxx) Process\_Date: 20140924

Process\_Time: 13054600

Process\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: U.S. Geological Survey

Contact\_Address:

Address\_Type: mailing and physical address

Address: 5957 Lakeside Blvd

City: Indianapolis

State\_or\_Province: Indiana

Postal\_Code: 46278

Country: USA

Spatial\_Data\_Organization\_Information:

Direct\_Spatial\_Reference\_Method: Raster

Raster\_Object\_Information:

Raster\_Object\_Type: Grid Cell

Row\_Count: 1623

Column\_Count: 510

Vertical\_Count: 1

Spatial\_Reference\_Information:

Horizontal\_Coordinate\_System\_Definition:

Planar:

Map\_Projection:

Map\_Projection\_Name: Transverse Mercator

Transverse\_Mercator:

Scale\_Factor\_at\_Central\_Meridian: 0.999967

Longitude\_of\_Central\_Meridian: -87.083333

Latitude\_of\_Projection\_Origin: 37.500000

False\_Easting: 2952750.000000

False\_Northing: 820208.333333

Planar\_Coordinate\_Information:

Planar\_Coordinate\_Encoding\_Method: row and column

Coordinate\_Representation:

Abscissa\_Resolution: 10.000000

Ordinate\_Resolution: 10.000000

Planar\_Distance\_Units: survey feet

Geodetic\_Model:

Horizontal\_Datum\_Name: North American Datum of 1983

Ellipsoid\_Name: Geodetic Reference System 80

Semi-major\_Axis: 6378137.000000

Denominator\_of\_Flattening\_Ratio: 298.257222

Vertical\_Coordinate\_System\_Definition:

Altitude\_System\_Definition:

Altitude\_Datum\_Name: North American Vertical Datum of 1988

Altitude\_Resolution: 0.000001

Altitude\_Distance\_Units: feet

Altitude\_Encoding\_Method: Attribute values

Distribution\_Information:

Distributor:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: U.S. Geological Survey, Indiana Water Science Center

Contact\_Position: GIS Specialist

Contact\_Address:

Address\_Type: mailing and physical address

Address: 5957 Lakeside Blvd.

City: Indianapolis

State\_or\_Province: Indiana

Postal\_Code: 46278

Contact\_Voice\_Telephone: 317-290-3333

Resource\_Description: Downloadable Data

Distribution\_Liability:

This database, identified as sir5219, has been approved for release

and publication by the Director of the USGS. Although this

database has been subjected to rigorous review and is substantially

complete, the USGS reserves the right to revise the data pursuant

to further analysis and review. Furthermore, it is released on

condition that neither the USGS nor the U.S. Government

may be held liable for any damages resulting from its authorized or

unauthorized use.

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system at the U.S. Geological Survey, no warranty expressed or

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Standard\_Order\_Process:

Digital\_Form:

Digital\_Transfer\_Information:

Transfer\_Size: 3.194

Available\_Time\_Period:

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: unknown

Distribution\_Information:

Distributor:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: U.S. Geological Survey

Contact\_Address:

Address\_Type: Mailing address

Address:

USGS Information Services

Box 25286

City: Denver

State\_or\_Province: Colorado

Postal\_Code: 80225

Country: USA

Contact\_Voice\_Telephone: 1-888-ASK-USGS

Contact\_Electronic\_Mail\_Address: http://answers.usgs.gov

Contact\_Instructions: Contact via email

Standard\_Order\_Process:

Digital\_Form:

Digital\_Transfer\_Information:

Transfer\_Size: 3.194

Metadata\_Reference\_Information:

Metadata\_Date: 20140924

Metadata\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: US Geological Survey

Contact\_Person: GIS Specialist

Contact\_Address:

Address\_Type: mailing address

Address: 5957 Lakeside Blvd

City: Indianapolis

State\_or\_Province: Indiana

Postal\_Code: 46278

Country: USA

Contact\_Voice\_Telephone: 1-317-290-3333

Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata\_Standard\_Version: FGDC-STD-001-1998

Metadata\_Time\_Convention: local time

Metadata\_Extensions:

Online\_Linkage: http://www.esri.com/metadata/esriprof80.html

Profile\_Name: ESRI Metadata Profile