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: USGS Indiana Water Science Center

 Publication\_Date: 2014

 Title: whitedwIN\_b

 Geospatial\_Data\_Presentation\_Form: vector digital data

 Series\_Information:

 Series\_Name: Scientific Investigations Report

 Publication\_Information:

 Publication\_Place: Reston, Virginia

 Publisher: U.S. Geological Survey

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

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. Near-real-time stages at this streamgage may be obtained from the USGS National Water Information System at http://waterdata.usgs.gov/ or the National Weather Service Advanced Hydrologic Prediction Service at http:/water.weather.gov/ahps/, which also forecasts flood hydrographs at this site (site EDWI3).

 Flood profiles were computed for the White River near Edwardsport reach by means of a one-dimensional step-backwater model developed by the U.S. Army Corps of Engineers. The hydraulic model was calibrated by using the most current stage-discharge relations at USGS streamgage 03360730, White River near Edwardsport, Ind., and high-water marks from the flood of April 2013. The calibrated hydraulic model was then used to determine 19 water-surface profiles for flood stages at approximately 1-foot intervals referenced to the streamgage datum and ranging from bankfull to the highest stage of the current stage-discharge rating curve. The simulated water-surface profiles were then combined with a geographic information system digital elevation model to delineate the area flooded at each water level.

 The availability of these maps, along with Internet information regarding current stage from the USGS streamgage White River near Edwardsport, Ind., and forecasted stream stages from the National Weather Service, provides emergency management personnel and residents with information that is critical for flood response activities such as evacuations and road closures, as well as for post-flood recovery efforts.

 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: 2014

 Currentness\_Reference: ground condition

 Status:

 Progress: Complete

 Maintenance\_and\_Update\_Frequency: None planned

 Spatial\_Domain:

 Bounding\_Coordinates:

 West\_Bounding\_Coordinate: -87.238640

 East\_Bounding\_Coordinate: -87.215769

 North\_Bounding\_Coordinate: 38.800931

 South\_Bounding\_Coordinate: 38.780081

 Keywords:

 Theme:

 Theme\_Keyword\_Thesaurus: flood mapping

 Theme\_Keyword: flood mapping

 Theme\_Keyword: flood

 Place:

 Place\_Keyword: Edwardsport, IN

 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 these data. Users should be aware of the limitations of this dataset if using for critical application.

 Point\_of\_Contact:

 Contact\_Information:

 Contact\_Organization\_Primary:

 Contact\_Organization: USGS 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

 Contact\_Voice\_Telephone: 317 290-3333

 Security\_Information:

 Security\_Classification: Unclassified

 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: 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

 Issue\_Identification: SIR

 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 topographicdataset.

 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 this 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.

 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

 Process\_Step:

 Process\_Description: Dataset copied.

 Process\_Date: 20140717

 Process\_Time: 17385600

 Process\_Step:

 Process\_Description: Dataset copied.

 Source\_Used\_Citation\_Abbreviation: [http://dx.doi.gov/sir/2014/5219](http://dx.doi.gov/sir/2014/xxxx) Process\_Date: 20140721

 Process\_Time: 11442600

 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: 15105300

Spatial\_Data\_Organization\_Information:

 Direct\_Spatial\_Reference\_Method: Vector

 Point\_and\_Vector\_Object\_Information:

 SDTS\_Terms\_Description:

 SDTS\_Point\_and\_Vector\_Object\_Type: G-polygon

 Point\_and\_Vector\_Object\_Count: 9

Spatial\_Reference\_Information:

 Horizontal\_Coordinate\_System\_Definition:

 Planar:

 Map\_Projection:

 Map\_Projection\_Name: Mercator\_Auxiliary\_Sphere

 Planar\_Coordinate\_Information:

 Planar\_Coordinate\_Encoding\_Method: coordinate pair

 Coordinate\_Representation:

 Abscissa\_Resolution: 0.000000

 Ordinate\_Resolution: 0.000000

 Planar\_Distance\_Units: meters

 Geodetic\_Model:

 Horizontal\_Datum\_Name: D\_WGS\_1984

 Ellipsoid\_Name: WGS\_1984

 Semi-major\_Axis: 6378137.000000

 Denominator\_of\_Flattening\_Ratio: 298.257224

Entity\_and\_Attribute\_Information:

 Detailed\_Description:

 Entity\_Type:

 Entity\_Type\_Label: whitedwIN\_b

 Attribute:

 Attribute\_Label: FID

 Attribute\_Definition: Internal feature number.

 Attribute\_Definition\_Source: ESRI

 Attribute\_Domain\_Values:

 Unrepresentable\_Domain: Sequential unique whole numbers that are automatically generated.

 Attribute:

 Attribute\_Label: Shape

 Attribute\_Definition: Feature geometry.

 Attribute\_Definition\_Source: ESRI

 Attribute\_Domain\_Values:

 Unrepresentable\_Domain: Coordinates defining the features.

 Attribute:

 Attribute\_Label: ID

 Attribute:

 Attribute\_Label: GRIDCODE

 Attribute:

 Attribute\_Label: Shape\_Leng

 Attribute:

 Attribute\_Label: Shape\_Area

 Attribute\_Definition: Area of feature in internal units squared.

 Attribute\_Definition\_Source: ESRI

 Attribute\_Domain\_Values:

 Unrepresentable\_Domain: Positive real numbers that are automatically generated.

 Attribute:

 Attribute\_Label: STAGE

 Attribute:

 Attribute\_Label: ELEV

 Attribute:

 Attribute\_Label: USGSID

 Attribute:

 Attribute\_Label: GRIDID

Distribution\_Information:

 Distributor:

 Contact\_Information:

 Contact\_Organization\_Primary:

 Contact\_Organization: USGS Indiana Water Science Center

 Contact\_Voice\_Telephone: 317 290-3333

 Contact\_Facsimile\_Telephone: 317 290-3313

 Resource\_Description: Downloadable Data

 Standard\_Order\_Process:

 Digital\_Form:

 Digital\_Transfer\_Information:

 Transfer\_Size: 2.391

 Available\_Time\_Period:

 Time\_Period\_Information:

 Single\_Date/Time:

 Calendar\_Date: 2014

Metadata\_Reference\_Information:

 Metadata\_Date: 20140924

 Metadata\_Contact:

 Contact\_Information:

 Contact\_Organization\_Primary:

 Contact\_Organization: USGS Indiana Water Science Center

 Contact\_Person: Kathleen Fowler 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

 Contact\_Facsimile\_Telephone: 317 290-3313

 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

 Metadata\_Extensions:

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

 Profile\_Name: ESRI Metadata Profile