Identification\_Information:

 Citation:

 Citation\_Information: Studley, S.E., and Peters, A.J., 2014, Flood-inundation maps for Indian Creek and Tomahawk Creek, Johnson County, Kansas, 2014: U.S. Geological Survey Scientific Investigations Report 2014–5202, 12 p.

 Originator: USGS Kansas Water Science Center

 Publication\_Date: 2015

 Title: metadata

 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: \\IGSAQCEWLT-012\C$\Users\flood\_inundation\edwardsport\report\to\_wim\to\_wim\whitedwIN.shp

 Description:

 Abstract:

 Digital flood-inundation maps for a 6.4-mile upper reach of Indian Creek from College Boulevard to the confluence with Tomahawk Creek, a 3.9-mile reach of Tomahawk Creek from 127th Street to the confluence with Indian Creek, and a 3.7-mile lower reach of Indian Creek from the confluence with Tomahawk Creek to the Kansas/Missouri border at State Line Road in Johnson County, Kansas, were created by the U.S. Geological Survey in cooperation with the city of Overland Park, Kansas. The flood-inundation maps, which can be accessed through the USGS Flood Inundation Mapping Science website at[*http://water.usgs.gov/osw/flood\_inundation/*](http://water.usgs.gov/osw/flood_inundation/), depict estimates of the areal extent and depth of flooding corresponding to selected water levels (stages) at the U.S. Geological Survey streamgages on Indian Creek at Overland Park, Kansas (06893300), Indian Creek at State Line Road, Leawood, Kansas (06893390), and Tomahawk Creek near Overland Park, Kansas (06893350). Near real time stages at this streamgage may be obtained on the Web from the U.S. Geological Survey National Water Information System at [*http://waterdata.usgs.gov/*](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 these sites.

Flood profiles were computed for the stream reaches by means of a one-dimensional step-backwater model. The model was calibrated for each reach by using the most current stage-discharge relations at the Indian Creek at Overland Park, Kansas; Indian Creek at State Line Road, Leawood, Kansas; and Tomahawk Creek at Overland Park, Kansas, streamgages.

The hydraulic models were then used to determine 15 water-surface profiles for Indian Creek at Overland Park, Kansas; 17 water-surface profiles for Indian Creek at State Line Road, Leawood, Kansas; and 15 water-surface profiles for Tomahawk Creek at Overland Park, Kansas, for flood stages at 1-foot intervals referenced to the streamgage datum and ranging from bankfull to approximately the next interval above the 0.2 percent annual exceedance probability flood level. The simulated water-surface profiles were then combined in a geographic information system with a digital elevation model derived from light detection and ranging data (having a 0.429-foot vertical and 0.228-foot horizontal resolution) to delineate the area flooded at each water level.

The availability of these maps, along with Web information regarding current stage from the U.S. Geological Survey streamgage and forecasted high-flow stages from the National Weather Service, will provide emergency management personnel and residents with information that is critical for flood response activities such as evacuations and road closures, as well as for postflood recovery efforts.

 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: -74.100322

 East\_Bounding\_Coordinate: -74.066216

 North\_Bounding\_Coordinate: 40.923740

 South\_Bounding\_Coordinate: 40.868051

 Keywords:

 Theme:

 Theme\_Keyword\_Thesaurus: flood mapping

 Theme\_Keyword: flood mapping

 Theme\_Keyword: flood

 Place:

 Place\_Keyword: Johnson County, KS

 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 Kansas Water Science Center

 Contact\_Address:

 Address\_Type: mailing and physical address

 Address: 4821 Quail Crest PL

 City: Lawrence

 State\_or\_Province: Kansas

 Postal\_Code: 66049

 Country: USA

 Contact\_Voice\_Telephone: (785) 842-9909

 Security\_Information:

 Security\_Classification: Unclassified

 Native\_Data\_Set\_Environment:

 Cross\_Reference:

 Citation\_Information:

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

 Publication\_Date: 2015

 Title: Flood-Inundation Maps for Indian and Tomahawk Cree, Johnson County, Kansas

 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 streamgages 06893300, 06893350, 06893390

 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 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.

 Lineage:

 Source\_Information:

 Source\_Citation:

 Citation\_Information:

 Originator: U.S. Geological Survey Kansas Water Science Center

 Publication\_Date: 2015

 Title: Flood-Inundation Maps for Indian Creek and Tomahawk Creek, Johnson County, Kansas

 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: 20150211

 Process\_Time: 17385600

 Process\_Step:

 Process\_Description: Dataset copied.

 Source\_Used\_Citation\_Abbreviation:

 Process\_Date: 20150211

 Process\_Time: 11442600

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: 19

Spatial\_Reference\_Information:

 Horizontal\_Coordinate\_System\_Definition:

 Planar:

 Map\_Projection:

 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

 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: GRIDCODE

 Attribute:

 Attribute\_Label: STAGE

 Attribute:

 Attribute\_Label: ELEV

 Attribute:

 Attribute\_Label: USGSID

 Attribute:

 Attribute\_Label: GRIDID

 Attribute:

 Attribute\_Label: QCFS

Distribution\_Information:

 Distributor:

 Contact\_Information:

 Contact\_Organization\_Primary:

 Contact\_Organization: USGS Kansas Water Science Center

 Contact\_Voice\_Telephone: 785 842-9909

 Contact\_Facsimile\_Telephone: 785 832 3500

 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: 2015

Metadata\_Reference\_Information:

 Metadata\_Date: 20150211

 Metadata\_Contact:

 Contact\_Information: Arin Peters

 Contact\_Organization\_Primary: USGS Kansas Water Science Center

 Contact\_Organization: USGS Kansas Water Science Center

 Contact\_Address:

 Address\_Type: mailing and physical address

 Address: 4821 Quail Crest Place

 City: Lawrence

 State\_or\_Province: Kansas

 Postal\_Code: 66049

 Contact\_Voice\_Telephone: 785 842-9909

 Contact\_Facsimile\_Telephone: 785 843-3500

 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