Flood-Inundation Map for Logansport, Indiana, Corresponding to a Stage of 13.00 Feet and an Elevation of 634.11 ft at U.S. Geological Survey Streamgage 03328500 on the Eel River and a Stage of 15.10 ft and an Elevation of 587.99 Feet (NAVD 88) at U.S. Geological Survey Streamgage Number 03329000 on the Wabash River

By
Kathleen K. Fowler
2014

EXPLANATION
- Flood-inundation area
- USGS streamgage and number
- City boundary
- Limit of study area
- Flow arrow—Indicates direction of water flow
- USGS streamgage number
- U.S. route marker
- State route marker

UNCERTAINTIES AND LIMITATIONS FOR USE OF FLOOD-INUNDATION MAPS
Although the flood-inundation maps were created using the best data available and with due caution, some uncertainty is associated with these maps. The flood inundation areas were estimated based on water stages (water surface elevation) and streamflows at selected U.S. Geological Survey streamgages. Water surface elevations along the stream reaches were estimated by steady-state hand calculations, regression equations, and using streamflow and hydraulic conditions anticipated at the time of the flood event. Inundation areas were estimated using a steady-state hydraulic model that simulates the effects of topography, vegetation, and bridge, dam, and levee characteristics on the flow of floodwaters. The hydraulic model was run using a steady-state flow assumption, which is typical of floods. Additional uncertainty exists due to the nature of the flood event, which may be influenced by local conditions such as changes in the stage, flow, and characteristics of the river. The hydraulic model does not account for all potential uncertainties and limitations associated with the flood event, including changes in the streambed elevation and roughness, backwater into major tributaries along a main channel, and changes in the flow due to natural processes such as snowmelt, rainfall, and evaporation. Additional uncertainty exists due to the limited number of U.S. Geological Survey streamgages used in the model, which may not be able to capture all the effects of the flood event.


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Projection: Transverse Mercator
Horizontal coordinate information is referenced to the North American Datum of 1983
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