Flood-inundation Map for Hopkinsville, Kentucky
Corresponding to a Stage of 12.00 Feet and an Elevation of 532.00 Feet (NAVD 88) at
U.S. Geological Survey Streamgage Number 03437495
South Fork Little River at Highway 68 By-Pass

By Jeremiah Lant
2012

UNCERTAINTIES AND LIMITATIONS FOR USE OF FLOOD-INUNDATION MAPS

Although the flood-inundation maps represent the boundaries of inundated areas with a distinct line, some uncertainty is associated with these maps. The flood boundaries shown were estimated based on water stages (water-surface elevations) and discharges at selected U.SGS streamgages. Water-surface elevations along the stream reaches were estimated by steady-state hydraulic modeling, assuming unobstructed flow, and using streamgages and hydraulic conditions as depicted on the U.SGS streammaps. The hydraulic model reflects the basic characteristics and any bridge, dam, levee, or other hydraulic structures existing as of August 2012. Inundation areas may be affected due to uncertainties associated with changes in the channel-river conditions such as changes in the channel-river or branches, variations in the stream-surface elevation along a main stream or minor stream, or inundation from localized silt or ice jams. The accuracy of the floodwater extent portrayed on these maps will vary with the accuracy of the digital elevation model used to simulate the inundation. Additional uncertainties and limitations for this study are described in the document accompanying this set of flood-inundation map plates.

Suggested citation:

PRODUCED BY...

Orthoimagery from National Agriculture Imagery Program, 2006

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