



DISCLAIMER FOR FLOOD-INUNDATION MAPS

Inundated areas shown should not be used for navigation, regulatory, permitting, or other legal purposes. The USGS provides these maps "as-is" for a quick reference, emergency planning tool but assumes no legal liability or responsibility resulting from the use of this information.

UNCERTAINTIES AND LIMITATIONS REGARDING 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 and streamflows at selected USGS streamgages. Water-surface elevations along the stream reaches were estimated by steady-state hydraulic modeling, assuming unobstructed flow, and using streamflows and hydrologic conditions anticipated at the USGS streamgage(s). The hydraulic model reflects the land-cover characteristics and any bridge, dam, levee, or other hydraulic structures existing as of September 2011. Unique meteorological factors (timing and distribution of precipitation) may cause actual streamflows along the modeled reach to vary from those assumed during a flood, which may lead to deviations in the water-surface elevations and inundation boundaries shown. Additional areas may be flooded due to unanticipated conditions such as: changes in the streambed elevation or roughness, backwater into major tributaries along a main stem river, or backwater from localized debris 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 land surface. Additional uncertainties and limitations pertinent to this study may be described elsewhere in this report.

If this series of flood-inundation maps will be used in conjunction with National Weather Service (NWS) river forecasts, the user should be aware of additional uncertainties that may be inherent or factored into NWS forecast procedures. The NWS uses forecast models to estimate the quantity and timing of water flowing through selected stream reaches in the United States. These forecast models (1) estimate the amount of runoff generated by precipitation and snowmelt, (2) simulate the movement of floodwater as it proceeds downstream, and (3) predict the flow and stage (and water-surface elevation) for the stream at a given location (AHPs forecast point) throughout the forecast period (every 6 hours and 3 to 5 days out in many locations). For more information on AHPs forecasts, please see: http://water.weather.gov/ahps/pcpn_and_river_forecasting.pdf.



Flood-Inundation Map for Newberry, Indiana
Corresponding to a Stage of 11 Feet and an Elevation of 476.15 Feet (NAVD 88)
at U.S. Geological Survey Streamgage Number 03360500 on the White River

By

Kathleen K. Fowler, Moon H. Kim, and Chad D. Menke

2012

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

Orthophotography from Indiana Spatial Data Portal, National Agriculture Imagery Program 2010, available at <http://gis.iu.edu/>

Suggested citation:
Fowler, K.K., Kim, M.H., and Menke, C.D., 2012. Flood-inundation maps for the White River at Newberry, Indiana: U.S. Geological Survey Scientific Investigations Map 3231, 8 p. pamphlet, 22 sheets.

Publishing support provided by: Columbus Publishing Service Center
Manuscript approved for publication August 29, 2012

For more information concerning this publication, contact:
Director, Indiana Water Science Center
U.S. Geological Survey
5957 Lakeside Blvd.
Indianapolis, IN 46278
(317) 290-3333

Or visit the Indiana Water Science Center Web site at:
<http://in.water.usgs.gov/>

This report is available at: <http://pubs.usgs.gov/sim/3231/>.

Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

This and other USGS information products are available at:
<http://store.usgs.gov/>
U.S. Geological Survey, Box 25286
Denver Federal Center, Denver, CO 80225

To learn about the USGS and its information products visit:
<http://www.usgs.gov/>
1-888-ASK-USGS