**U.S. Geological Survey** 

Projection: Transverse Mercator

National Agriculture Imagery

the North American Datum of 1983

Horizontal coordinate information is referenced to

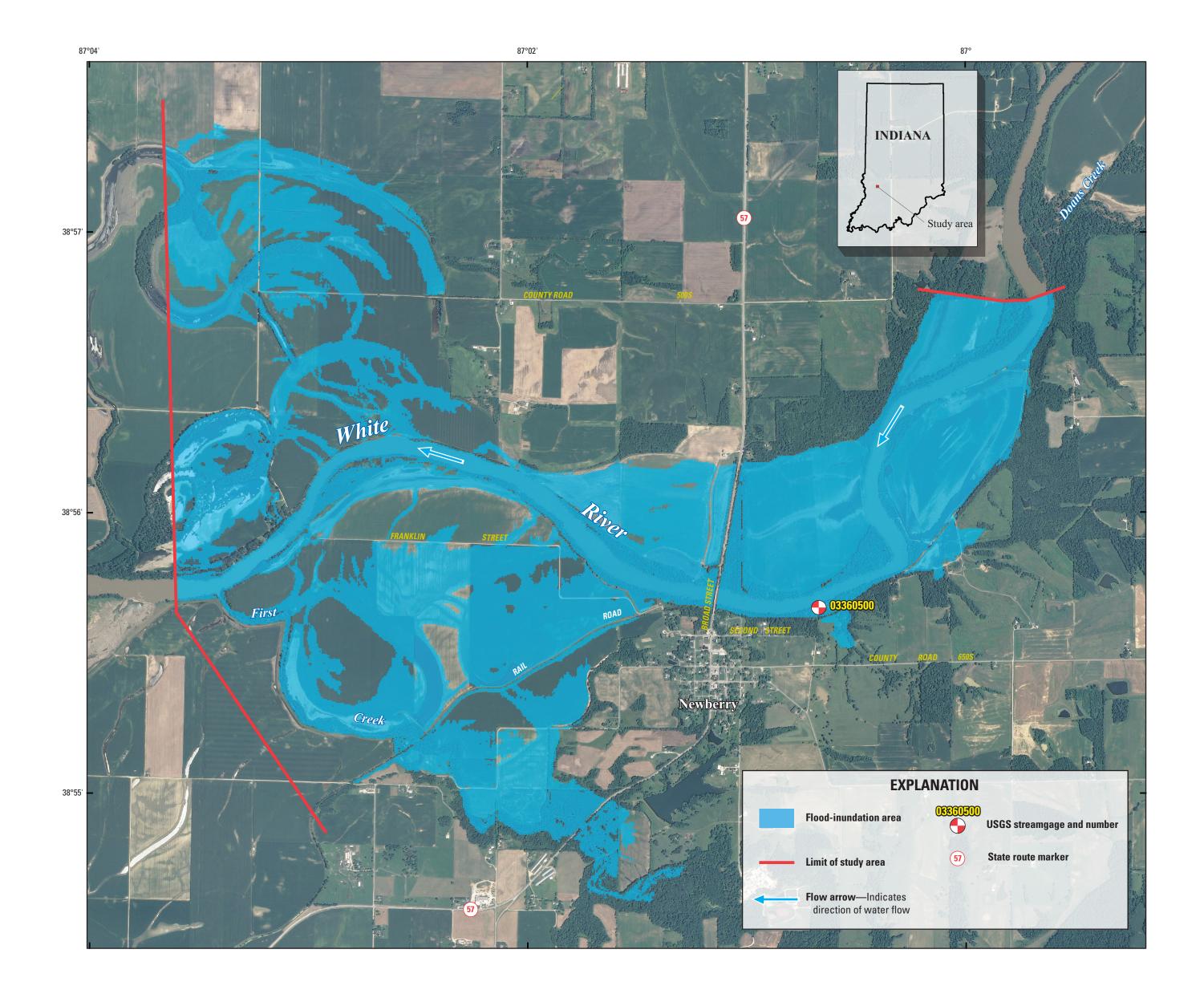
Orthophotography from Indiana Spatial Data Portal,

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.

Program 2010, available at http://gis.iu.edu/

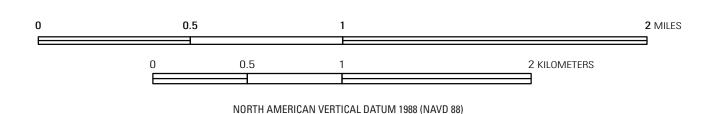
**U.S. Department of the Interior** 

Pamphlet accompanies map



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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 by steady-state hydraulic modeling, assuming unobstructed flow, and using streamflows and hydrologic conditions anticipated at the USGS streamgage(s). The 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:  $\label{eq:http://water.weather.gov/ahps/pcpn_and\_river\_forecasting.pdf.} http://water.weather.gov/ahps/pcpn_and\_river\_forecasting.pdf.$ 



Flood-Inundation Map for Newberry, Indiana Corresponding to a Stage of 24 Feet and an Elevation of 489.15 Feet (NAVD 88) at U.S. Geological Survey Streamgage Number 03360500 on the White River

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