U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the
DuPage County Stormwater Management Division

Scientific Investigations Map 3185
Sheet 1 of 14
Pamphlet accompanies map

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 gage heights (water-surface elevations) and streamflows at a selected USGS streamgage. Water-surface elevations along the stream reaches were estimated by hydraulic modeling, assuming unobstructed flow, and using gage height and hydrologic conditions anticipated at the USGS streamgage. 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 hydraulic model reflects the land-cover characteristics and any bridge, dam, levee, or other hydraulic structures existing in 2010. 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 are described in the document accompanying this set of flood inundation map plates.

Inundated areas shown should not be used for navigation, regulatory, permitting, or other legal purposes. Although USGS intends to make this server available 24 hours a day, 7 days a week, timely delivery of data and products from this server through the Internet is not guaranteed. 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.

SCALE 1:6 500

0.25 0 0.25 MILE

0.25 0 0.25 KILOMETER

NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)

Projection: Transverse Mercator
North American Datum of 1983 (NAD83)

Orthography from the Illinois Natural Resources Geospatial Data Clearinghouse, accessed in 2005 at *http://www.isgs.uiuc.edu/nsdihome/webdocs/cua05/*

Flood-Inundation Map for a 1.6-Mile Reach of Salt Creek Corresponding to a Gage Height of 11.0 Feet at U.S. Geological Survey Streamgage Number 05531175 at Wood Dale, Illinois

By
David T. Soong, Elizabeth A. Murphy, and Jennifer B. Sharpe

2012

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