Flood-Inundation Map for the DuPage River from Plainfield to Shorewood, Illinois, Referenced to U.S. Geological Survey Streamgage DuPage River at Shorewood (Station No. 05540500) and Corresponding to a Gage Height of 14.0 feet and an Elevation of 578.3 Feet

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EXPLANATION
Flood-inundation area, depth in feet
0.1 to 1.0
1.1 to 2.0
2.1 to 5.0
Greater than 5.0
Stream flow direction
Current U.S. Geological Survey streamgage and identifier
National Weather Service forecast point
Interstate marker
U.S. route marker
Illinois State route marker

UNCERTAINTIES AND LIMITATIONS FOR USE OF FLOOD-INUNDATION MAPS

Although the flood-inundation maps represent the inundation areas with a distinct line, some uncertainty is associated with those maps. The flood boundaries shown were estimated based on water stages (water-surface elevations) 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 streamflow and hydrologic conditions anticipated at the USGS streamgages. The hydraulic model reflects the land-cover characteristics and topography, along with other topographic and hydraulic structures existing as of November 2012. 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 unforecasted conditions such as changes in the streambed elevation or movements in backwater into major tributaries along a main stem river, or backwater from localized debris or ice jams. The accuracy of the flood extent portrayed on these maps may 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 sheets.

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 rainfall generated by precipitation and snowmelt; (2) simulate the movement of floodwater as it proceeds downstream, and (2) predict the flood water stage (water-surface elevation) for the stream at a given location (NWS forecast point) throughout the forecast period (every 6 hours and 3 to 5 days out in many locations). For more information on NWS forecasts, please see http://water.weather.gov/ahps/2/p핸 tí_m스 경회_서로_predic 투기보기.pdf.

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

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Orthographic from the U.S. Department of Agriculture Farm Service Agency Aerial Photography Field Office 2013 National Agriculture Imagery Program (NAIP) Natural Color Imagery for Illinois, accessed in June 2013 at http://paa.appa.ssa.gov/gis/gis/services/North_American_VerticalDatum_of_1988_WGS84.html, position of boundary on this map is approximate and for informational purposes only.


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