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 13.0 feet and an Elevation of 577.3 Feet

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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 those maps. The flood boundaries shown were estimated using models that simulate flow depths and inundation areas at selected USGS streamgages. Water surface elevations along the stream reach were estimated using steady-state hydraulic modeling, assuming an extended flow time, and using streamflow and hydrographic conditions anticipated at the USGS streamgage. The hydraulic model reflects the land cover characteristics and land divide, dams, levees, or other hydrologic structures existing as of November 2012. Unique meteorological factors (flood or 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 unexpected conditions such as changes in the streambed elevation or vegetation backwater into minor tributaries along a main stream or, in backwater from local floods in ice jams. The accuracy of the floodway 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 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 associated with those forecasts. The NWS uses forecast models to estimate the quantity (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 NWS river forecasts, the user should see the AHPS river forecasting handbooks, available at http://water.weather.gov/ahps/pcpn_and_river_forecasting.pdf

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Suggested station

DISCLAIMER
Inundated areas shown should not be used for navigation, regulating, permitting, or other legal purposes. This USGS provides those maps as a public service, emergency planning tool but assumes no legal liability or responsibility resulting from the use of this information.