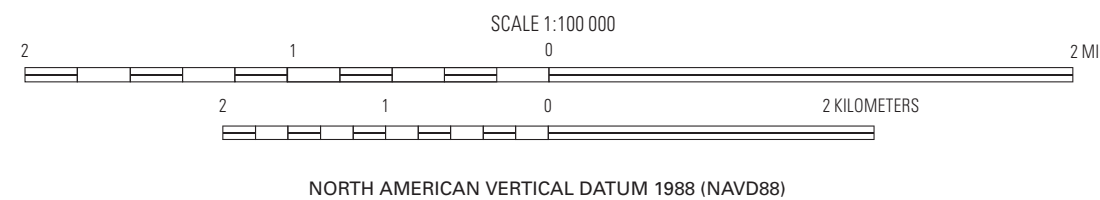


UNCERTAINTIES AND LIMITATIONS REGARDING USE OF FLOOD INUNDATION MAPS
The flood boundaries shown were estimated based on water stage/flows at USGS streamgauge 04103500, Kalamazoo River at Marshall, Michigan. Water surface elevations along the reach of the Kalamazoo River extending from Marshall to Battle Creek (approximately 15 miles downstream from the streamgauge) were estimated by steady state hydraulic modeling, assuming unobstructed flow, and using discharges and hydrologic conditions anticipated at that streamgauge. The hydraulic model reflects the land-cover characteristics and any bridge, dam, levee, or other hydraulic structures existing in August, 2010. Unique meteorological factors (timing and distribution of storm) may cause actual discharges along the modeled reach to vary from assumed during a flood and lead to deviations in the water surface elevations and inundation boundaries shown here. Additional areas may be flooded due to unanticipated backwater from major tributaries along the main stem or from localized debris or ice jams. The flood inundation boundaries depicted on this map are based on a digital elevation model (metadata available). 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, seven days a week, timely delivery of data and products from this server through the Internet is not guaranteed. The USGS provides these maps as a quick reference, emergency planning tool but assumes no legal liability or responsibility for any direct, indirect, incidental, consequential, special or exemplary damages or lost profits resulting from the use or misuse of this information.
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 which may be inherent or factored into NWS forecast procedures. The NWS uses river forecast models to estimate the quantity and timing of water flowing through selected river reaches in the United States. These forecast models (1) estimate the amount of rainfall generated by a precipitation event, (2) compute how the water will move downstream, and (3) predict the flow and stage (water surface elevation) for the river at a given location (AHP's forecast point) throughout the forecast period (every six hours and 21 to 30 days out in many locations). For more information on AHP's forecasts, please see: http://water.weather.gov/ahps/pcprn_and_river_forecasting.pdf

Projection: Lambert conformal conic
10,000-foot grid tics, State Plane Coordinate System, Michigan South, FIPS 2113
North American Datum of 1983 (NAD83)
Orthography from National Agriculture Imagery Program, 2009, available at
<http://www.fsa.usda.gov/FSA/apfoapp?area=home&subject=prog&topic=na>



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Flood-Inundation Map of the Kalamazoo River from Marshall to Battle Creek, Michigan, for the July 25, 2010, Flood Corresponding to a Gage Height of 7.44 Feet and an Altitude of 884.09 Feet (NAVD88) at the U.S. Geological Survey Streamgauge at Marshall, Michigan (Station ID 04103500)

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