



Marshalltown, IA, Floodplain Management Study, Floodplain Management Services (FPMS)

U.S. ARMY CORPS OF ENGINEERS

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Location

Marshalltown, IA

State(s)

IA

Congressional District(s)

IA-2

Status

The study will evaluate the previous USACE and FEMA 1% annual exceedance estimates using currently available flow data, develop an updated hydraulic model for the reach of the Iowa River along the Marshalltown Local Flood Protection System, and provide updated findings to the City of Marshalltown for their use in evaluating current flood risk as they evaluate alternatives for future protection of the community.

Description

In 1977, the US Army Corps of Engineers completed the Local Flood Protection Project at Marshalltown, IA. The project was designed to protect against the 1% annual exceedance event on the Iowa River, Linn Creek, and Anson Creek. For the Iowa River, the 1% annual exceedance event was estimated as a flow of 43,000 cfs in the 1968 General Design Memorandum. The current, effective Flood Insurance Rate Map (dated 2011, but reflecting the 1976 computed base flood elevations) estimates the 1% annual exceedance event as 32,660 cfs. Along the Iowa River levee, the water surface profile defined by the FEMA base flood elevations (BFEs) depart markedly from the USACE design profile, particularly in the reach upstream of the sewage disposal plant. In fact, the FEMA profile (for the lower of the estimated 1% annual exceedance events) exceeds that of the original USACE design profile along the upper end of the system. This departure from the original design profile is supported by observed conditions during the major floods of 2008 and 2013 where it was observed that substantially greater freeboard remained along the lower end of the system at the same time the upper end of the system was observed to be within a foot of overtopping.

Summarized Project Costs

	Investigations
Total Estimated Federal Cost	\$ 90,000

Financial Status

	Investigations
FY 2014 Budget Amount	\$ 25,000
FY 2015 Budget Amount	\$ 15,000



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FY 2016 Budget Amount	\$ 50,000
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