



# Information Paper

## Upper Mississippi River System Hydraulic Model Update

**U.S. ARMY CORPS OF ENGINEERS**

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### Overview

**Districts:** St. Paul, Rock Island, St. Louis Districts

**Type:** Flood Risk Management

**Sponsor(s):** 100% federally funded

**Partners:** State and federal agencies

**Estimated Cost:** \$2,000,000

### Project Purpose and Objectives

The project purpose is to develop an Upper Mississippi River System Hydraulic model. The need has been identified by U.S. Army Corps of Engineers districts, and state and federal partners for an updated, user-friendly Mississippi River System Hydrologic Engineering Centers River Analysis System (HEC-RAS) model which would incorporate software improvements, navigation dams, and the availability of period-of-record inflow data files for model users.

The Rock Island, St. Paul, and St. Louis Districts in partnership with federal and state partners and stakeholders will finalize a framework for a scope of work in 2014.

Potential uses and applications of the HEC-RAS model will include: flood risk management analysis, state flood plain management, levee sponsor 408 levee modification studies, real-time river forecasting, Corps Water Management System (CWMS), and flood fighting operations.



### Funding

The estimated total project cost is \$2,000,000. Future funding is uncertain to start this work. The development of the UMR hydraulic model will be a collaborative effort by federal, state, and stakeholders facilitated by USACE.

### Schedule

Project completion in two to three years following receipt of funding. The work will involve extensive collaboration and meetings at decision points.

Phase I: Mississippi River LD19 to Thebes, Illinois  
Illinois Waterway Lockport to Grafton, Illinois

Phase II: Mississippi River LD10 to LD 19  
Mississippi River Anoka to LD10

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