



# US Army Corps of Engineers

Institute for Water Resources

BUILDING STRONG®

## ARRA: Accelerated CWMS Deployment Campaign (2011)

**Status:** Completed

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**Purpose:** The goal is to enhance Corps' capability nationwide to make well-informed decisions about managing reservoirs and water control systems. This goal will be achieved by expanding, at an accelerated pace, the availability of advanced information technology resources for hydrometeorological data management, display, and dissemination; watershed runoff forecasting; flood stage prediction; reservoir operation analysis; and flood impact analysis.

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**Objective:** The intended deliverable is a fully functional Corps Water Management System (CWMS) decision support system that will permit enhanced water management for each selected watershed. This typically includes HEC-HMS, HEC-RAS, HEC-ResSim, and HEC-FIA. However other analysis tools may be included.

The final product will be operational CWMS watersheds and any technology transfer needed for the Corps office to effectively use CWMS for the chosen basin. The intent is not to develop only models, but a complete CWMS implementation that includes the models.

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**Benefits:** This project will help enable Corps water managers, working cooperatively with other federal agencies and Corps operational partners, to help them minimize flooding during an event, optimize storage during droughts, as well as monitor and perform day-to-day operations. The regulation of the reservoirs supports the authorized purposes of the reservoir and specifically addresses flood risk management and loss-of-life concerns.

The models developed under this effort can also be useful for infrastructure planning purposes and can be used in other systems such as HEC-WAT (Watershed Analysis Tool), resulting in comprehensive watershed planning models ready made for scenario and IWRM planning.

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**Progress:**

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**Products:**

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