



Iowa Reservoir Regulation Plan Studies

U.S. ARMY CORPS OF ENGINEERS

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Location

Saylorville Lake, Lake Red Rock, and Coralville Lake and their associated watersheds

State(s)

IA

Congressional District(s)

IA-1, IA-2, IA-3, IA-4

Status

In July 2010, a reservoir study incorporating Saylorville, Red Rock, and Coralville reservoirs was proposed to analyze alternatives to current Regulation Plans for water control and possible physical modifications to the projects. Over the last several years, the U.S. Army Corps of Engineers, Rock Island District (the District) has experienced significant flooding along the Des Moines and Iowa/Cedar rivers which resulted in levee overtopping, erosion, pump station damage and millions of dollars in personal property damage.

The results of the Des Moines River Regulated Flow Frequency Study are also driving a need to expand the Reservoir Study scope to include the SE Des Moines and Des Moines levee systems and alternatives for Flood Risk Management in Des Moines, IA.

Description

In 2015, the District conducted an initial assessment and developed alternatives to the current Regulation Plans to manage flood risks along the Des Moines River. The final Reservoir Regulation revision for the Des Moines River will combine Saylorville and Red Rock due to their joint operation. The alternatives to be examined include but are not limited to: increasing or extending maximum spring (pre-planting) releases, relaxing of Mississippi River or other constraints, seasonal variations in pool levels to maximize flood storage, and increasing the dams' storage corridors. It is the District's priority to develop feasible alternatives to mitigate the risk of flooding along the Des Moines and Iowa/Cedar River basins. The final Reservoir revision will produce revised Regulation Plans, Environmental Assessment, Real Estate Plans, and recommendations for physical modifications as appropriate.

The 2010 Des Moines River Regulated Flow Frequency Study indicated that flooding on the Des Moines River is higher and more frequent than previously estimated. There is a need to comprehensively study Flood Risk Management alternatives for the flood control reservoir system, the SE Des Moines levee, other existing Federal and non-Federal flood risk management projects, and the Des Moines and Raccoon Rivers in Des Moines, IA.

In 2016, the District conducted an initial assessment and developed alternatives to the current Regulation Plans to manage flood risks along the Iowa/Cedar River Basins. The final Reservoir Regulation revision for Iowa/Cedar Rivers will be conducted separately from the Des Moines River Study. The alternatives for the Iowa/Cedar Rivers Study will be similar to those of the Des Moines River Study.



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Summarized Project Costs

Federal Cost *	\$1,700,000
Non-Federal Cost	\$0
Total Cost *	\$1,700,000
Federal Allocations through FY 2015	\$0
Federal Allocation for FY 2016	\$0
Balance to Complete	\$1,700,000

Saylorville (\$0.55M) and Red Rock (\$0.55M) would need to be studied together since they are on the same river and have balancing and control points in common (subtotal of \$1.1M). Coralville could be studied separately if necessary (\$0.6M). First year efforts will begin in FY17 with the use of normal O&M funding. This will include \$150k for Saylorville and \$150k for Red Rock (total first year effort would be \$300k). No work will be completed at Coralville in FY17.

Additional Project Information

In FY16, the initial assessment was completed on the Iowa/Cedar Rivers basin to develop initial alternatives.

Major Work Item (This Fiscal Year)

FY17 - Additional study work will be completed on the Des Moines River Basin for Red Rock and Saylorville Reservoirs. The study will identify goals and objectives with a full range of alternatives. No additional work is planned in FY17 for Coralville Reservoir and the Iowa/Cedar River Basin pending additional funding. Continue submission for the president's budget.

Major Work Item (Next Fiscal Year)

In FY18, additional study work on the Red Rock and Saylorville Reservoirs study will be completed with a goal of completing the draft study.

Point of Contact: Flood Risk Management Program Manager

Phone: (309)794-5704

Email: cemvr-pm-web@usace.army.mil