

U.S. Army Engineer
Research and Development Center



Water Resources Development

Description of Technology

Multidisciplinary research, training, and technical assistance to support environmentally effective water resources development and sustainable management.

Areas of expertise include flood damage reduction, navigation, water quality improvements, bank stabilization, erosion control, channel design, stream restoration, and riparian and aquatic habitat improvement.

Benefits

Through the U.S. Army Corps of Engineers' specialized technology centers, scientists and engineers are accessible globally to assist in solving the complex problems associated with rivers and streams.

Significant Accomplishments

New evaluation techniques resulted in net environmental benefits and \$16 million in project savings for a major flood control project in the southeastern United States.

Innovative bioengineering techniques for bank stabilization have proven highly successful in improving water quality and habitat.

Significant breakthroughs have been achieved in improving the accuracy of numerical modeling of rivers and streams.

Modified designs for navigation structures have been developed to provide habitat benefits and to reduce ecosystem impacts.

Point of Contact

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