

CADSWES RiverWare® Development, Training, & User Support

UNIVERSITY OF COLORADO

PROJECT SUMMARY

Riverside Technology, inc. was asked to assist the University of Colorado's Center for Advanced Decision Support and Environmental Services with design, enhancement, training, and user support for the RiverWare® reservoir and river modeling software tool. Riverside Technology, inc. worked on-site as part of the Center's RiverWare® development, training, and user support teams.

LOCATION
Colorado, U.S.A.

PERIOD
2006 – 2008

PROJECT DETAILS

Riverside Technology, inc. (Riverside) partnered with the University of Colorado's Center for Advanced Decision Support for Water and Environmental Services (CADSWES) working on-site at the Center as part of the RiverWare® development, training, and user support teams.

Modelers at Riverside provided software development skills, modeling experience, and end-user insight to aid the full-time CADSWES RiverWare® development team. Riverside contributed significantly to enhance engineering methods that simulate consumptive use and surface water/groundwater interaction, with immediate application in the Upper Rio Grande Water Operations Model (URGWOM) effort by the Albuquerque offices of United States Army Corps of Engineers (USACE) and U.S. Bureau of Reclamation (USBR). Automatic model state initialization was created for the Tulsa and Fort Worth Districts of the USACE. Riverside staff alpha-tests various enhancements to RiverWare® including the Iterative Multiple Run Management functionality applied in the Truckee River (USBR) and Arkansas-Red River (USACE) models. Riverside's design, coding, and testing efforts have also contributed more generally to the improved usability, software performance, and versatility of the modeling system.



RiverWare® Training

Riverside engineers' experience as end-users adds value to CADSWES training and user support capabilities. Representing CADSWES, Riverside employees have addressed user support questions from many governmental organizations (USACE, USBR, U.S. Park Service, Tennessee Valley Authority, etc.) plus academic, consultant, and model stakeholder users of the software.

As part of the CADSWES training team, Riverside has provided Simulation and Rule-based Simulation training courses to beginning and intermediate users from across the United States, and on-site in Mexico City. These courses are continually enhanced and updated based on software improvements.

Riverside engineers have also played a pivotal role in the development of the forthcoming Water Accounting course. Because of their experience and ever-deepening knowledge of the structure and capabilities of RiverWare®, Riverside personnel have developed and enhanced key portions of the online user documentation, including the RiverWare® Policy Language (RPL) Optimization functionality.

RELATED PROJECTS

Reservoir Operations Study for the Tennessee and Cumberland River Basins

Enhancing Water Management Decision Support System for Colorado and Washington

Benefits Analysis of Meteorological/Hydrological Operations

RIVERSIDE

global science solutions

CORPORATE

2950 E. Harmony Rd.

Suite 390

Fort Collins, CO 80528

(970) 484-7573

D.C. AREA OFFICE

1010 Wayne Ave.

Suite 500

Silver Spring, MD 20910

(240) 638-3345

www.riverside.com