

Flood Decision Support System Prototype for Colorado

COLORADO WATER CONSERVATION BOARD

PROJECT SUMMARY

The Colorado Water Conservation Board needed a means to evaluate implementation of a Flood Decision Support System. Riverside Technology, inc. developed and installed a prototype ArcIMS website and provided a demonstration and training to flood protection staff in Denver.

LOCATION
Colorado, U.S.A.

PERIOD
2006

PROJECT DETAILS

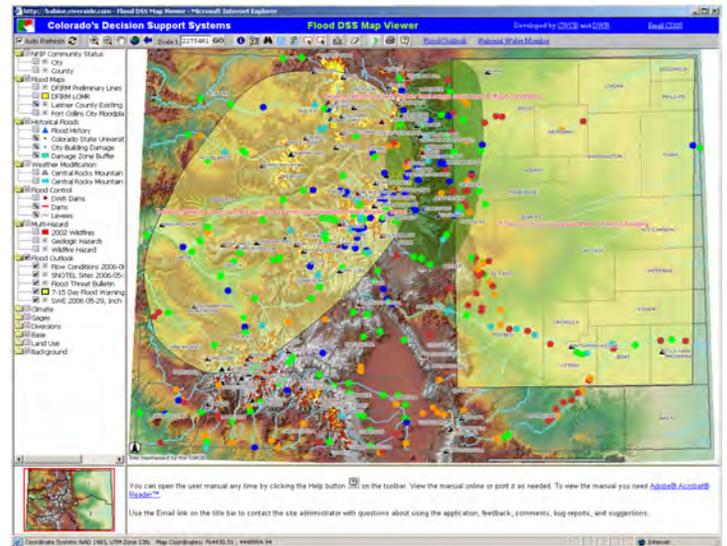
In 2006, the Colorado Water Conservation Board (CWCB) contracted Riverside Technology, inc. (Riverside) to implement a Flood Decision Support System (Flood DSS) website prototype in order to organize and disseminate spatial data, as well as provide links to selected non-spatial data. The prototype has allowed CWCB Flood Protection staff to evaluate implementation of a full-scale Flood DSS.

Riverside staff first conducted a data inventory to determine a list of all data to be included in the Flood DSS system. Data types, their sources, and their relevance to the project were collected and analyzed. Riverside created a data inventory document containing a list of data layers, data sources, data formats, data extent, and links to non-spatial data.

Following the data inventory and determination of layers to be included in the prototype, Riverside collected the data files for data types listed in the data inventory. Data layers included those provided by the CWCB and also those collected from external sources (e.g., Federal Emergency Management Administration (FEMA) and municipalities). Riverside organized the data to support implementation of the prototype website. The data were then processed by 1) projecting the data to a consistent coordinate system, 2) reviewing the data for map server suitability, 3) merging the data to create statewide layers, and 4) creating new spatial layers to allow access to non-spatial data.

Riverside adapted Colorado's Decision Support Systems (CDSS) Map Viewer for the main Flood DSS prototype main interface. Riverside had previously developed this site as part of the South Platte Decision Support System (SPDSS). The existing CDSS Map Viewer features were utilized to create a website specific to disseminating flood protection data. The map layers were configured using symbols consistent with the CDSS Map Viewer. Links to non-spatial data utilized the State's scanned document system and useful external websites.

Riverside installed the prototype ArcIMS website with all supporting files on a State of Colorado server, and provided a demonstration and training to Flood Protection staff in Denver.



Flood DSS MapViewer

RELATED PROJECTS

Colorado's Decision Support Systems

Colorado Instream Flow Decision Support System

South Platte Decision Support System

La Quinte Watershed and Flood Information System

Honduras Flood Forecasting System

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