

I. Project Title: Colorado River Decision Support System

II. Principal Investigator:

III. Colorado Water Conservation Board
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IV. Project Summary:

The CRDSS is intended to support better decision making with respect to the utilization of Colorado River water resources. It will provide computer data bases and tools to make informed and timely decisions regarding the use and operation of Colorado's water resources in the Upper Colorado River Basin. The CRDSS operates in accordance with existing compacts and state laws governing the administration of water and water rights, and will allow planning for the optimal use and development of Colorado's water resources to occur.

In relation to the Recovery Program, CRDSS is being used to evaluate the physical and legal water availability at different locations along a stream and to determine the amount of water available for instream flow appropriations. It can also provide information to help determine the impacts of endangered fish flows on Colorado's ability to develop its full compact apportionment.

A large part of these efforts have contributed to decision making on the 15 Mile Reach PBO and the accounting system. This accounting system requires significant work every five years.

V. Study Schedule:

The project started in 1993 and it is anticipated that the completion date will be in January 2000.

VI. Relationship to RIPRAP:

Assess legal and physical availability of water and compact considerations for protection of instream flow water rights in the Yampa River above (I.A.3.b.) and below (I.b.3.b) the Little Snake River (I.C.3.b.), White River (I.C.2.), Colorado River (mainstem) (I.A.3.a.[2]; I.A.3.c.[1][a]; I.A.3.c.[2][b]; I.B.3.b; I.C.2.b.), Gunnison River (I.C.2.) and the San Juan River (San Juan River Recovery Implementation Program).

VII. Accomplishment of FY 99 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings:

For FY 99, the extended CRDSS Project River Basin Models will be completed by January 2000. The database to run these models is online and has been fully populated with data ranging from structures diversion, climate data to water rights information and spatial data up to water year 1998. This can be viewed on the Internet at cdss.state.co.us. A funded long term maintenance program was established in FY99

VIII. Recommendations:

No recommendations are being made.

XI. Project Status:

The project for Phase 3b schedule was redone to account for delays in database refresh and software enhancements. Phase 3b will be completed by the end of January, 2000.

X. FY 99 Budget Status

Funds Provided:	\$424,000
Funds Expended:	<u>\$381,600</u>
Difference:	\$42,4000

90% of FY 99 work is complete, projected costs to complete: All FY 99 work identified in the SOW will be completed by the end of January 2000.

Recovery Program funds spent for publication charges: No Recovery Program funds were spent for publication costs.

XI. Status of Data Submission:

Not applicable, however, the CRDSS model can be viewed online at cdss.state.co.us.