Integration of Program Elements

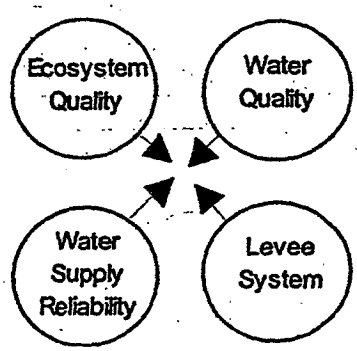
Summary

CALFED member agencies and stakeholders have recognized the need for integration of all Program elements since the beginning days of the Program development. The problems within the Bay-Delta system are all linked, as are the solutions to those problems. For instance, problems in the ecosystem are linked to problems with water supply reliability and other resource areas.

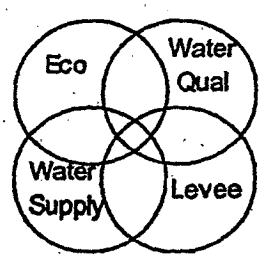
The Program has focused on simultaneously finding solutions to problems in four resource areas; (1)water quality, (2)ecosystem quality , (3) water supply reliability, and (4) levee system integrity. One key strategy has been to look for solutions that solve problems in as many of the resource areas as possible. This strategy was used throughout development of Program alternatives and in evaluation of these alternatives leading to the draft EIS/EIR in early 1998.

Linkages

In Phase I of the CALFED Bay-Delta Program, stakeholders, agencies, and staff identified problems in four resource areas. Many of these problems were linked to other problems and solutions to these problems were linked to solutions to other problems. Therefore, rather than considering each resource area separately (as demonstrated at the right), the Program development was based on integrating solutions that result in multiple benefits across the resource areas. For examples of linkages of problems in the Bay-Delta system, see the four attached papers dated November 6, 1996.

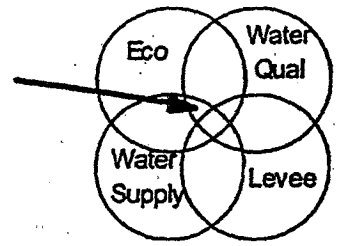


The linkages between the Bay-Delta problems demonstrate that there is considerable overlap between the resource areas and that objectives and solutions must be developed in an integrated Program. The attached papers, dated November 6, 1996, show example thoughts on linkages between the Program elements used to begin alternative refinement in Phase II. It also gives examples how the Phase II alternatives, outlined in the September 1996 Final Documentation Report, address Program objectives and integrate improvements for all four resource areas.



The Ecosystem Restoration Program Plan (ERPP), the Water Quality Program, the Water Use Efficiency Program, and the Levee System Integrity Program all looked for ways to integrate with the other Program elements and build better alternatives. Some examples of the way the component elements integrate include:

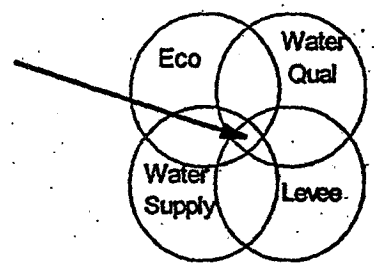
Ecosystem Quality, Water Quality, and Water Supply Reliability



- Mine drainage control in all alternatives reduces metal concentrations to improve water quality for the ecosystem, water quality for water users, and overall water supply reliability.

- Pesticide control also results in similar improved water quality the ecosystem, water users, and water supply reliability.

Ecosystem Quality, Levee System Integrity, Water Quality, and Water Supply Reliability



- Shallow riverine habitat associated with levee improvements in areas not intended for major water conveyance benefits all four resource areas. Levees are improved to reduce flooding, new habitat benefits the environment, water supply reliability is improved due to reduced risk of levee failure which could otherwise interrupt water export water supply, and secured water quality (reduced chance of seawater intrusion from potential levee failures).

- Alternative 2 levee improvements along the North Fork Mokelumne River are primarily for water conveyance to the South Delta export facilities. These reduce flooding potential by improving levees, improves water supply reliability by improving conveyance, and improves water quality by moving fresher Sacramento River water through the Central Delta. Due to the relatively higher flow velocities associated with the improved conveyance, habitat improvements are concentrated with levee improvements along the slower flowing South Fork Mokelumne River. These improvements work together in a integrated fashion to provide workable solutions for each resource area.

are many similar specific examples of integration within the alternatives analyzed in the EIS/EIR. As mentioned above, the four attached papers provide a summary of the types of es and integration represented within the alternatives.