



**CALFED  
BAY-DELTA  
PROGRAM**

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Subject: Combined Environmental -- Agricultural and Urban Water Supply Evaluation

Bay Delta Program Technical Services Branch staff have completed an initial evaluation of potential reservoir storage south of the Delta and upstream of the Delta using the CALFED Post-Processing Operations Model. This initial evaluation includes sensitivity analyses of combined environmental -- agricultural and urban water supply benefits. Preliminary results documented in the attached draft reports include a short overall summary followed by detailed documentation of the evaluation completed for both potential reservoir storage facilities.

The CALFED Post-Processing Operations Model is suitable for analyzing the relative effects of various storage operation rules and goals, identifying critical external constraints, and providing initial refinement to the ranges of storage and conveyance capacities to be considered in future studies. However caution should be taken in applying the absolute estimates of water supply benefits from this model. Two important limitations must be considered when interpreting model results. First, the CALFED Post-Processing Operations Model simulations do not integrate the operations of new storage and conveyance components with the operation of existing facilities. Second, the model simulations do not dynamically model Delta processes. While these simulations are constrained by surplus Delta water, Delta export limitations, and physical capacities as defined by DWRSIM, specific in-Delta flows and salinities are not evaluated. Information developed from this evaluation will be used to guide more detailed studies, including DWRSIM system operation studies. Future DWRSIM and Delta hydrodynamic modeling studies will provide better measures of quantitative water supply benefits.

Attachment

**CALFED Agencies**

**California**

The Resources Agency  
Department of Fish and Game  
Department of Water Resources  
California Environmental Protection Agency  
State Water Resources Control Board

**Federal**

Environmental Protection Agency  
Department of the Interior  
Fish and Wildlife Service  
Bureau of Reclamation  
Department of Commerce  
National Marine Fisheries Service