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Managing Water in the West

Shasta Lake Water Resources Investigation

Potential Contributions to Delta Solutions

BDPAC Water Supply Subcommittee
May 1, 2008



State of California
Department of Water Resources



U.S. Department of the Interior
Bureau of Reclamation

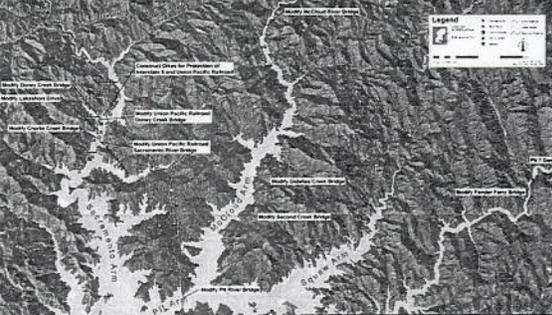
Planning Objectives

- Primary Objectives
 - Anadromous Fish Survival
 - Water Supply Reliability
- Secondary Objectives
 - Ecosystem Restoration
 - Flood Damage Reduction
 - Hydropower
 - Recreation



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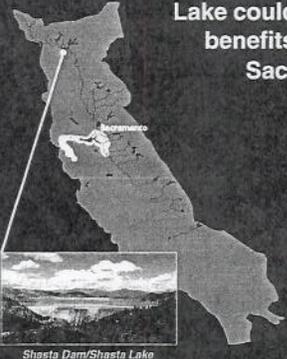
Common Elements of Alternatives



- Dam raises up to 18.5 feet
- Up to 634,000 acre-feet of new storage

Enlargement of Shasta Dam/Shasta Lake could provide a variety of benefits for the Delta and Sacramento River

- Ecosystem Restoration
- Delta Emergency Response
- Delta Water Quality



Shasta Dam/Shasta Lake

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Ecosystem Restoration

- **Tributary actions to support Sacramento River aquatic species**
 - Enhance Sacramento River temperature conditions for anadromous fish
 - New storage provides larger cold water pool
 - Temperature control device modification at Shasta Dam
 - Provide additional flow releases to the Sacramento River
- **Delta actions for delta smelt and other pelagic fish species**
 - Provide operational flexibility for shifting of SWP/CVP pumping operations to times when fisheries are in less danger




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Delta Emergency Response

- **When Delta emergencies occur, water in enlarged Shasta could supplement existing sources for Delta emergency response**
 - Improved operational flexibility to meet emergency response needs
 - Ability to provide high flow releases
 - Increased Shasta releases to reestablish Delta water quality



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Delta Water Quality

- Increased Shasta storage could improve Delta water quality conditions
 - Reduced salinity during critical periods
 - Increased Delta outflow during drought years



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For Additional Information Contact

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