
***CALFED Bay-Delta Program
Water Supply Opportunities***

D-048537

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Water Supply Opportunities Under Existing Conditions and No Action

Average Annual System Deliveries

(in 1,000 acre-feet per year)

	Critical Dry Period	Long-Term
Existing Conditions	4,200	5,600
No Action	4,050	5,900

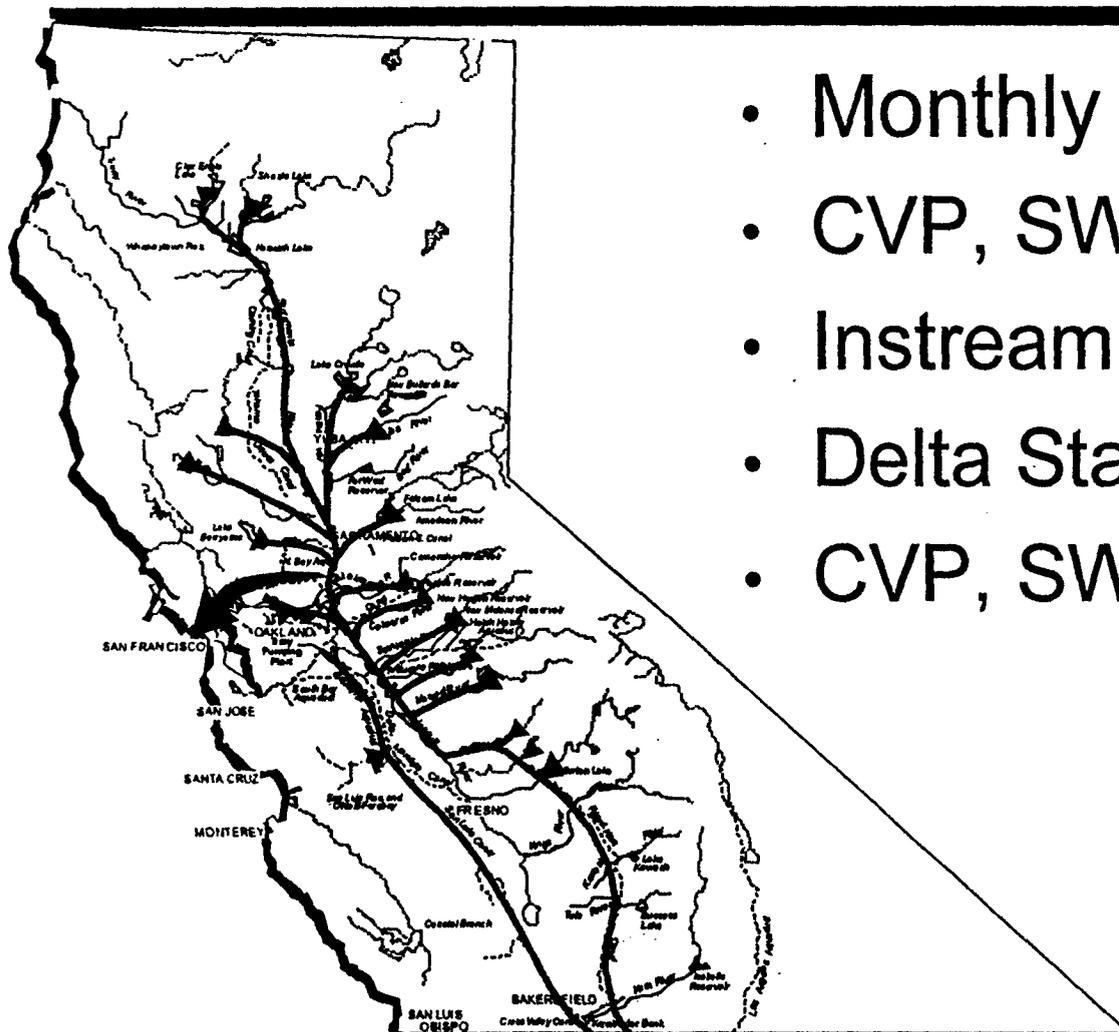
Potential Action to Improve Water Supply Opportunities

Action	Estimated Average Annual Benefits (in 1,000 acre-feet per year)					
	Critical Dry Period			Long-Term		
	Low	-	High	Low	-	High
Improved Coordination of SWP-CVP Operations	0	-	10	0	-	50
System Improvements allowing Increase in Permitted Banks PP Capacity	100	-	150	150	-	250
System Improvements allowing Adjustments to Bay-Delta Operation Requirements (Isolated Facility)	0	-	200	0	-	300
Storage -- 4.75 MAF (Includes Benefits of Increased Permitted Banks PP Capacity)	550	-	800	550	-	700

Water Supply Opportunities Under Program Alternatives Compared to No Action

Alternative	Estimated Average Annual Benefits (in 1,000 acre-feet per year)					
	Critical Dry Period			Long-Term		
	<i>Low</i>	-	<i>High</i>	<i>Low</i>	-	<i>High</i>
Alternative 1						
Improved Coordination of SWP-CVP Operations	0	-	10	0	-	50
With Increase in Permitted Banks PP Capacity	100	-	150	150	-	300
With Storage	550	-	800	550	-	750
Alternative 2						
Improved Coordination of SWP-CVP Operations	0	-	10	0	-	50
With Increase in Permitted Banks PP Capacity	100	-	150	150	-	300
With Storage	550	-	800	550	-	750
Alternative 3						
Improved Coordination of SWP-CVP Operations	0	-	10	0	-	50
Isolated Facility	0	-	200	0	-	350
With Storage	550	-	850	550	-	850

DWRSIM System Modeling



- Monthly Accounting Model
- CVP, SWP Operations
- Instream Flows
- Delta Standards
- CVP, SWP Deliveries

Program Alternatives Increase Permitted Banks Pumping Plant Capacity Conveyance Operating Parameters

- South Delta Improvements
 - Channel Enlargements
 - Barriers
 - Fish Screens

- Banks Pumping Plant @ 10,300 cfs Capacity

Isolated Conveyance Facility

- Delta Standards with Isolated Facility
 - Minimum South Delta Exports - 1,000 cfs July thru. March
 - Sensitivity Assumption with and without E/I Ratio
 - Delta Cross Channel closed Sept. thru. June

Program Alternatives

Storage Operating Parameters

- **New Storage Physical Facility Criteria**
 - North and South of Delta Groundwater - Storage 250 (NDGS) & 500 (SDGS) TAF & Inlet/Outlet Capacity 500 cfs
 - Sacramento River Basin Surface - Storage 3.0 MAF & Inlet/Outlet Capacity 5,000 cfs
 - Off-Aqueduct Surface - Storage 2.0 MAF & Inlet/Outlet Capacity 3,500 cfs
 - San Joaquin River Basin Surface - Storage 250 TAF & Inlet/Outlet Capacity 5,000 cfs
 - Delta Surface Storage - Storage 200 TAF & Inlet/Outlet Capacity 5,000 cfs
- **Fluvial Geomorphology Criteria**
 - North Delta Surface - 60,000 CFS above Chico Landing / 0 cfs Below Chico Landing
 - Other Storage - No Criteria

Program Alternatives

Storage

- **New Storage Fill & Discharge Criteria**
 - Tributary Groundwater - Fill First & Discharge Last
 - Aqueduct Groundwater - Fill Second & Discharge Fourth
 - Aqueduct Surface Storage - Fill Third & Discharge Third
 - Tributary Surface Storage - Fill Fourth & Discharge Second
 - Delta Surface Storage - Fill Last & Discharge First