

## ***Need for Reservoir Screening***

---

- Part of future Clean Water Act Section 404 compliance
- Reduce number of sites for future consideration



## ***Inventory***

---

- March 7, 1997 CALFED *Bay-Delta Program Storage and Conveyance Component Inventories*
  - Identify potential storage sites that might contribute to improving water management
  - Sites studied over past several decades
  - 52 sites identified for study



## ***First Level Screening Process***

---

- Eliminate sites which clearly do not meet CALFED's needs or that clearly conflict with its goals or solution principles
  - 10 sites eliminated due to small capacity
  - 23 sites eliminated due to conflicts with program objectives and solution principles
  - 19 sites retained



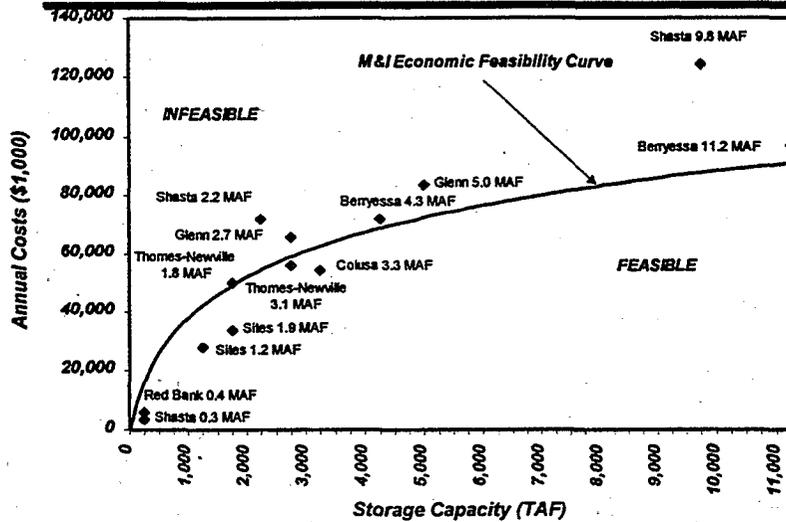
## ***Economic Evaluation***

---

- Initial economic screening based on estimated "willingness to pay" of Southern California urban water users
  - 8 sites retained
  - 11 sites eliminated



## West Side Sacramento Valley Supply Reliability Screening



## Other Considerations

- Need to consider other water management objectives (e.g. flood control, water quality operations, environmental benefits)
  - Of 11 sites eliminated in economic screening, 7 sites re-instated for other considerations

# **Sites Retained for Water Supply Considerations**

<b>Project</b>	<b>Location</b>	<b>Type</b>	<b>Gross Storage Capacity</b>
Colusa Reservoir Complex	Colusa/Glenn Counties Funks Creek	Off-Stream Storage	3,300 TAF
Garden Bar Reservoir	Sutter County Bear River	On-Stream Storage	245 TAF
In-Delta Storage	Sacramento/San Joaquin Delta	Island Storage in Southern Delta	230 TAF
Montgomery Reservoir	Stanislaus County Dry Creek	Off-Stream Storage	240 TAF
Red Bank Project (Dippingvat-Schoenfield Project)	Tehama County S.F. Cottonwood Creek	Off-Stream Storage - Schoenfield Reservoir; On-Stream Storage - Dippingvat Reservoir	Dippingvat- up to 104 TAF Schoenfield-250 TAF
Shasta Lake Enlargement (6.5-foot raise of existing dam)	Shasta County Sacramento River	On-Stream Storage	Additional 290 TAF
Sites Reservoir	Colusa and Glenn Counties Funks & Stone Corral Cks	Off-Stream Storage	1,200 to 1,900
Thomes-Newville Reservoir	Glenn County Thomes & Stoney Creek	Off-Stream Storage	1,840 - 3,080 TAF



# Sites Retained for Other Water Management Considerations

<b>Project</b>	<b>Location</b>	<b>Type</b>	<b>Gross Storage Capacity</b>
Los Vaqueros Enlargement	Contra Costa County Kellogg Creek	Off-Stream Storage	Additional 965 TAF (100 TAF under const.)
Orestimba Reservoir	Stanislaus County Orestimba Creek	Off-Stream Storage	380 to 1,140 TAF
Garzas Reservoir	Stanislaus County Garzas Creek	Off-Stream Storage	139 to 1,754 TAF
Ingram Canyon	Stanislaus County Ingram Creek	Off-Stream Storage	333 to 1,201 TAF
Panoche Reservoir	Fresno County Silver Creek	Off-Stream Storage	160 to 3,100 TAF
Quinto Creek Reservoir	Merced/Stanislaus County Quinto Creek	Off-Stream Storage	332 to 381 TAF
Millerton Lake Enlargement	Fresno County San Joaquin River	On-Stream Storage	720 TAF



**Table 1  
Surface Water Storage Components**

Component	Location	Type	Description	Gross Storage Capacity
<b>West Side Sacramento Valley</b>				
Clair Engle Lake Enlargement	Trinity County Trinity River	Enlarged Existing On-Stream Storage	Develop in conjunction with pump/conveyance facility; transports Shasta storage to Clair Engle.	Additional 4,800 TAF
Colusa Reservoir Complex	Colusa/Glenn Counties Funks Creek	Off-Stream Storage	Storage for new westside canal and Sacramento River flows.	3,300 TAF
Cottonwood Creek Reservoir Complex	Tehama/Shasta Counties Cottonwood Creek	Combined On-stream and Off-Stream Storage	Storage for new westside canal and Sacramento River flows. Includes Dutch Gulch and Tehama Reservoirs.	1,600 TAF
Fiddlers Reservoir	Tehama/Shasta Counties M.F. Cottonwood Creek	On-Stream Storage	Storage for new westside canal and Sacramento River flows.	310 to 545 TAF
Gallatin Reservoir	Tehama County Elder Creek	On-Stream Storage	Increase regulating capabilities and yield opportunities.	183 TAF
Glenn Reservoir	Glenn/Tehama Counties Stony Creek	Off-Stream Storage	Storage for Tehama-Colusa Canal or new westside canal.	8,206 TAF
Hulen Reservoir	Shasta County N.F. Cottonwood Creek	On-Stream Storage	Increase regulating capabilities and yield opportunities.	96 to 244 TAF
Lake Berryessa Enlargement	Napa County Putah Creek	Off-Stream Storage	Storage for North Bay Aqueduct and/or new westside canal.	Up to Additional 11,400 TAF
Red Bank Project (Dippingvat-Schoenfi)	Tehama County S.F. Cottonwood Creek	Off-Stream Storage - Schoenfield Reservoir; On-Stream Storage - Dippingvat Reservoir	Provide flood control and water supply opportunities.	Dippingvat-104 TAF Schoenfield-250 TAF
Rosewood Reservoir	Shasta/Tehama Counties Salt Creek and Dry Creek	On-Stream Storage	Increase regulating capabilities and yield opportunities.	155 TAF
Shasta Lake Enlargement	Shasta County Sacramento River	On-Stream Storage	Increase regulating capabilities and yield opportunities.	Additional 9,750 TAF
Sites Reservoir	Colusa and Glenn Counties Funks & Stone Corral Cks	Off-Stream Storage	Storage for Tehama-Colusa Canal or new westside canal.	1,200 to 1,900
Thomes-Newville Reservoir	Glenn County Thomes & Stoney Creek	Off-Stream Storage	Storage for Tehama-Colusa Canal or new westside canal.	1,840 - 3,080 TAF

**Table 1**  
**Surface Water Storage Components**

Component	Location	Type	Description	Gross Storage Capacity
<b>East Side Sacramento Valley</b>				
Allen Camp Reservoir	Modoc County Pit River	On-Stream Storage	Increase regulating capabilities and yield opportunities.	196 TAF
Auburn Reservoir	Placer County N.F. American River	On-Stream Storage	Increase regulating capabilities and yield opportunities.	315 to 2,300 TAF
Bella Vista Reservoir	Shasta County Little Cow Creek	On-Stream Storage	Increase regulating capabilities and yield opportunities in the northern Sacramento Valley.	146 TAF
Coloma Reservoir	El Dorado County S.F. American River	On-Stream Storage	Increase regulating capabilities and yield opportunities.	710 TAF
Deer Creek Meadows Reservoir	Tehama County Deer Creek	On-Stream Storage	Increase regulating capabilities and yield opportunities.	200 TAF
Folsom Reservoir Enlargement	El Dorado, Placer, and Sacramento Counties American River	Enlarged Existing On-Stream Storage	Increase regulating capabilities and yield opportunities.	Additional 365 TAF
Freemans Crossing Reservoir	Yuba/Nevada Counties Middle Yuba River	On-Stream Storage	Increase regulating capabilities and yield opportunities.	300 TAF
Garden Bar Reservoir	Sutter County Bear River	On-Stream Storage	Provide water supply opportunities in conjunction with Camp Far West and Oroville Reservoirs.	245 TAF
Kosk Reservoir	Shasta County Pit River	On-Stream Storage	Increase regulating capabilities and yield opportunities.	800 TAF
Marysville Reservoir	Yuba County Yuba River	On-Stream Storage	Increase regulating capabilities and yield opportunities from the Yuba River.	916 TAF
Millville Reservoir	Shasta County South Cow Creek	On-Stream Storage	Increase regulating capabilities and yield opportunities.	206 TAF
Squaw Valley Reservoir	Shasta County Squaw Valley Creek	Combined Off-Stream and On-Stream Storage	Storage for Sacramento River flows.	400 TAF
Tuscan Buttes Reservoir	Tehama County Paynes & Inks Creeks	Off-Stream Storage	Surplus flows from the Sacramento River would be diverted into a forebay-afterbay adjacent to the river from which water would be pumped into Tuscan Reservoir.	3,675 to 5,500 TAF
Waldo Reservoir	Yuba County Dry Creek	Off-Stream Storage	Storage for Yuba River flows.	60 to 300 TAF
Wing Reservoir	Shasta County Inks Creek	On-Stream Storage	Increase regulating capabilities and yield opportunities.	244 TAF

D-058653

**Table 1**  
**Surface Water Storage Components**

Component	Location	Type	Description	Gross Storage Capacity
<b>In-Delta</b>				
Chain of Lakes Facility	Sacramento/San Joaquin Delta	Island Storage in Delta	A chain of contiguous island storage facilities from the north Delta to the export Facilities.	300 to 600 TAF
In-Delta Storage	Sacramento/San Joaquin Delta	Island Storage in Southern Delta	Island storage in the southern Delta for surplus Delta flows.	230 TAF
<b>South-of-Delta Aqueduct Storage</b>				
Garzas Reservoir	Stanislaus County Garzas Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	139 to 1,754 TAF
Ingram Canyon	Stanislaus County Ingram Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	333 to 1,201 TAF
Kettleman Plain	Kings County Kettleman Hill	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	133 to 283 TAF
Little Salado-Crow Reservoir	Stanislaus County Crow Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	132 to 250 TAF
Los Banos Grandes	Merced County Los Banos Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	275 to 2,030 TAF
Los Vaqueros Enlargement	Contra Costa County Kellogg Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	Additional 965 TAF (100 TAF under const.)
Orestimba Reservoir	Stanislaus County Orestimba Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	380 to 1,140 TAF
Panoche Reservoir	Fresno County Silver Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	160 to 3,100 TAF
Quinto Creek Reservoir	Merced/Stanislaus County Quinto Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	332 to 381 TAF
Romero Reservoir	Merced County Romero Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	184 TAF
San Luis Reservoir Enlargement	Merced County	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	Additional 390 TAF
Sunflower Reservoir	Kings/Kern Counties Avenal Creek	Off-Stream Storage	Off-aqueduct storage for the California Aqueduct or the Delta-Mendota Canal.	360 to 600 TAF

D-058654

D-058654

**Table 1  
Surface Water Storage Components**

D-058655

Component	Location	Type	Description	Gross Storage Capacity
<b>San Joaquin Valley</b>				
Clay Station	Sacramento County Laguna Creek	Off-Stream Storage	Storage for American River flows.	170 TAF
Cooperstown Reservoir	Stanislaus County	Off-Stream Storage	Storage for Stanislaus and Tuolumne River flows.	609 TAF
Deer Creek Reservoir	Sacramento County near Rancho Murietta	Off-Stream Storage	Storage for American River flows.	600 TAF
Duck Creek Reservoir	San Joaquin County Calaveras watershed	Off-Stream Storage	Storage for Mokelumne and Calaveras River flows.	100 TAF
Farmington Reservoir Enlargement	San Joaquin County Littlejohns Creek	Combined On-Stream and Off-Stream Storage	The existing reservoir would be improved for conservation storage of surplus Stanislaus River	100 TAF
Millerton Lake Enlargement	Fresno County San Joaquin River	On-Stream Storage	Increase flow regulating opportunities.	720 TAF
Montgomery Reservoir	Stanislaus County Dry Creek	Off-Stream Storage	Capture and store spills from Lake McClure.	240 TAF
Nashville Reservoir	El Dorado/Sacramento Counties - Cosumnes River	Combined Off-Stream and On-Stream Storage	Storage for Cosumnes River flows.	1,155 TAF
Pardee Reservoir Enlargement	Calaveras/Amador Counties Mokelumne River	On-Stream Storage	Increase regulating capabilities and yield opportunities.	Additional 150 TAF
South Gulch Reservoir	San Joaquin County South Gulch tributary to Calaveras River	Off-Stream Storage	Store flows from the Calaveras and Stanislaus Rivers.	180 TAF

(A) = Active Storage Capacity

(G) = Gross Storage Capacity

D-058655