

Water Management Strategy Evaluation Framework

Policy Group
January 19, 2000

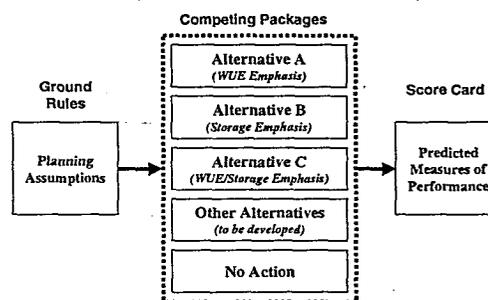
Purpose of Presentation

- ◆ Update Policy Group on status of evaluation of WMS alternatives
- ◆ Provide overview of the “competing” strategies currently under analysis
- ◆ Review assumptions established as “ground rules” for comparisons
- ◆ Preview “scorecard” of comparative performance measures

Activities Since Last Meeting

- ◆ Completing model runs
- ◆ Held small group meeting with stakeholders to review performance measures associated with solution principles
- ◆ Reviewed methodology associated with cost, benefit, and pricing

Evaluating Alternative Strategies



Purpose of Modeling

- ◆ Provide tangible predictions of performance for possible WMS alternatives
- ◆ Demonstrate trade-offs between alternatives
- ◆ Focus discussions on specifics that can help meet established long-term objectives

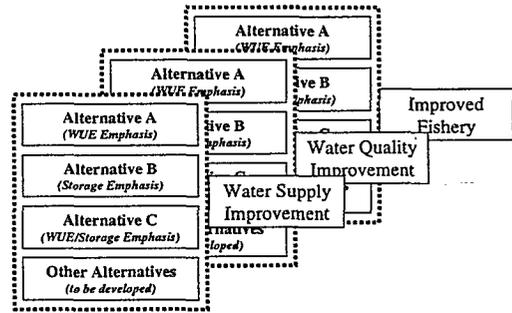
Ground Rules

- ◆ 2020-Level Upstream Demands Upstream of the Delta
- ◆ 3.6-4.2 MAF Variable SWP Demand
- ◆ 3.5 MAF w/Level II Refuge CVP Demand
- ◆ Delta Standards
 - May 1995 WQCP
 - CVPIA (b)(2)
- ◆ 48 days of Discretionary Export Reductions
- ◆ 367-815 TAF Trinity In-stream Requirement

Description of Alternatives

	North				South		Alloc
	Surface Storage	GW Storage	Env Transfers	Other Transfers	GW Storage	Transfers	
A	None	500 TAF	500 TAF	100 TAF	1.8 MAF	500 TAF	Urban then Ag
B	Shasta Sites	500 TAF	500 TAF	300 TAF	1.8 MAF	500 TAF	Urban then Ag
C	Shasta Sites	250 TAF	500 TAF	100 TAF	1.8 MAF	200 TAF	Existing Project

Operational Priorities



Performance of Alternatives

System-Wide Data

San Joaquin

Central & South Coast

Sacramento Valley

Objectives	Performance Measure	Level of Confidence	Alternative		
			A	B	C
Have No Significant Redirected Impacts	Regional Employment Effects	Medium	\$/year	\$/year	\$/year
	Change in Regional Agricultural Production	Medium	Acres & \$	Acres & \$	Acres & \$
	Change in Regional Crop Mix	Medium	Acres & Crop Type	Acres & Crop Type	Acres & Crop Type
	Change in Regional Urban Local Options Costs	Medium	\$/year	\$/year	\$/year

Be Affordable

Objectives	Performance Measure	Level of Confidence	Alternative		
			A	B	C
Be Affordable	Total and Annualized Costs	High	\$ & \$/year	\$ & \$/year	\$ & \$/year
	Allocation of Costs and Benefits by Sector	Medium	\$	\$	\$
	Increments of Capital Investment	High	\$	\$	\$
	Transfer Market Price	Low	\$/AF	\$/AF	\$/AF
	Cost of Water Treatment	Medium	\$/AF	\$/AF	\$/AF

Be Equitable

Objectives	Performance Measure	Level of Confidence	Alternative		
			A	B	C
Be Equitable	Allocation of Costs for Actions Taken	Medium	\$/year	\$/year	\$/year
	Allocation of Benefits	Medium	\$/year	\$/year	\$/year

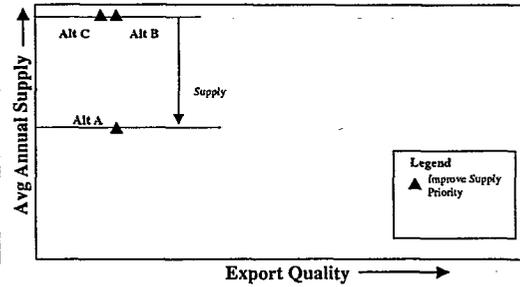
Be Durable

Objectives	Performance Measure	Level of Confidence	Alternative		
			A	B	C
Be Durable	Long-term Average	High	TAF	TAF	TAF
	Ease of Modifying Strategy Based on New Information	Low	Qualitative Ranking	Qualitative Ranking	Qualitative Ranking

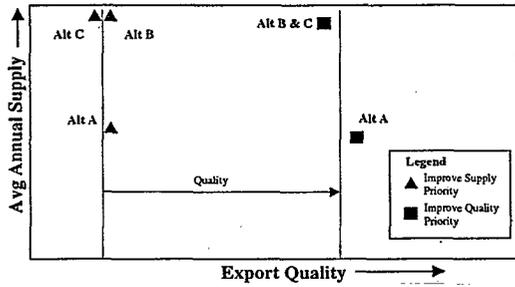
Reduce Conflicts in the System

- ◆ Performance Measures
 - Stakeholders suggested further development focused on quantifying level of conflicts

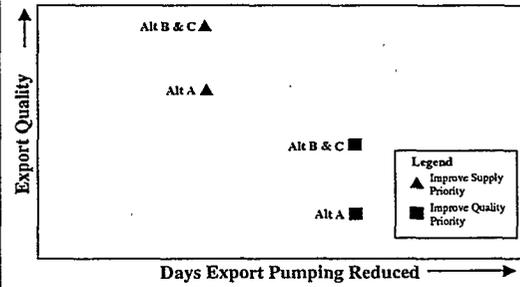
Trade-Off Illustration



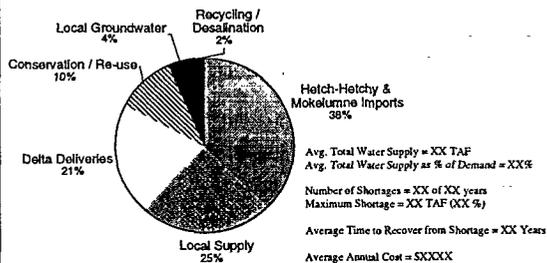
Trade-Off Illustration



Trade-Off Illustration



Avg. Water Supply for Bay Area No Action Alternative



What's Next?

- ◆ Prepare comprehensive document of the scorecard results and tradeoffs
- ◆ Summarize conclusions regarding overall performance of alternatives
- ◆ Provide continued analysis in support of arriving at agreed-upon Water Management Strategy