Joint Reservoir Committee Authority Board Meeting

Agenda Item 3-3, Confirm Operations Analysis for Revised Draft EIR/Supplemental Draft EIS

February 19, 2021



Draft - Predecisional Working Document - For Discussion Purposes Only

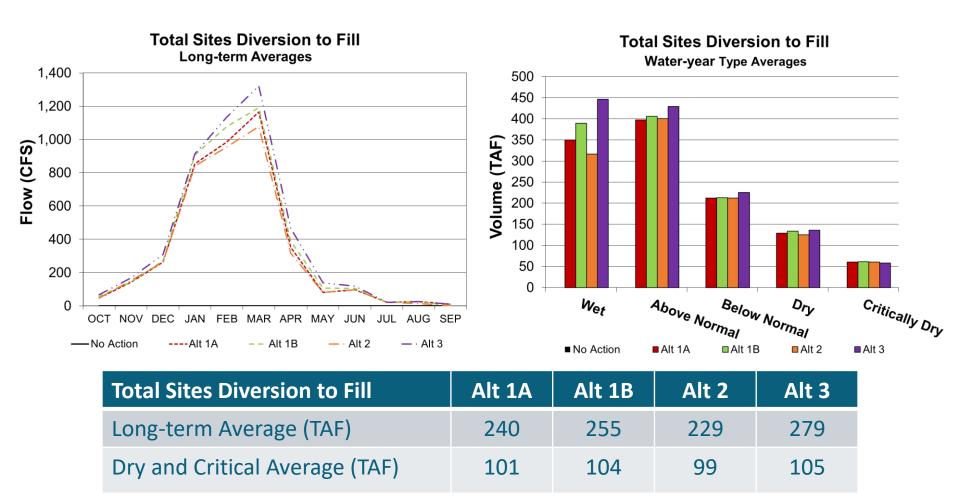


- 1. Last presented results in December
- 2. Change since last update:
 - a. CalSim 2020 Benchmark Baseline
 - i. Created by Reclamation in coordination with DWR and CDFW
 - ii. Includes latest model assumptions for ROC on LTO and SWP ITP
- 3. Results will be used in analysis for EIR/EIS, biological assessment

Background: Alternatives

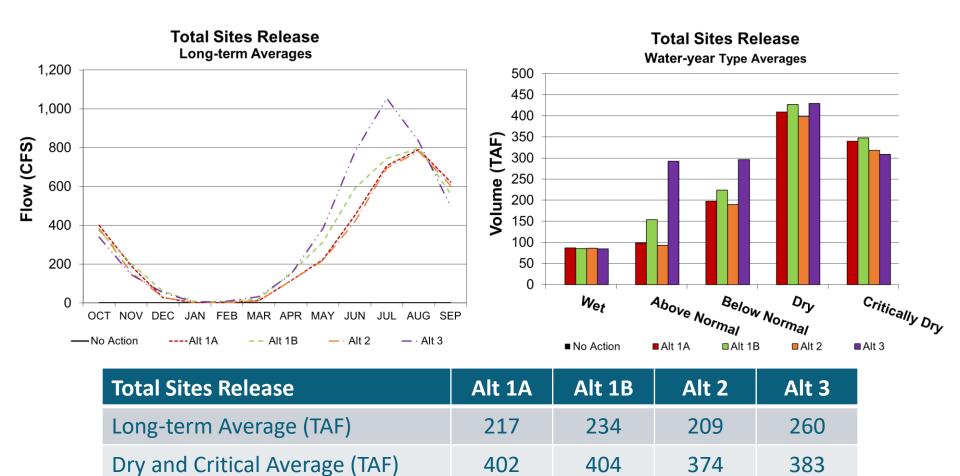
Facilities / Operations	Alternative 1A	Alternative 1B	Alternative 2	Alternative 3
Reservoir Size	1.5 MAF	Same as Alt 1A	1.3 MAF	1.5 MAF
Conveyance Release / Dunnigan Release	1,000 cfs to Colusa Basin Drain	Same as Alt 1A	1,000 cfs to Sacramento River. Partial release to CBD.	Same as Alt 1A
Reclamation Involvement	 Operational exchanges only No funding 	 Funding Partner up to 7% Cost- Share Also includes operational exchanges 	 Operational exchanges only No funding 	Same as Alt 1B, but up to 25% investment
DWR Involvement	Operational Exchanges with Oroville and use of SWP facilities South-of-Delta	Same as Alt 1A	Same as Alt 1A	Same as Alt 1A

Results: Diversions



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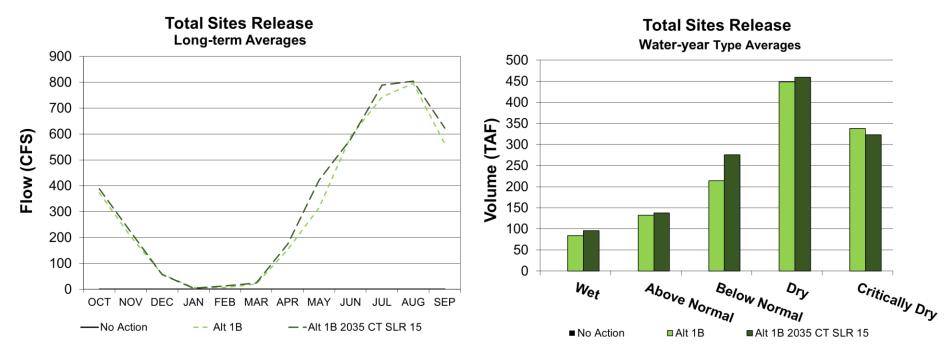
Results: Releases



Reservoir Releases – Summary Table

	Alternative 1A	Alternative 1B	Alternative 2	Alternative 3	Value Planning (VP7)		
Reservoir Size	1.5 MAF	1.5 MAF	1.3 MAF	1.5 MAF	1.5 MAF		
Federal Cost- Share	0%	6.6%	0%	25%	0%		
Releases by Year Type (TAF)							
Wet	87	86	86	85	85-115		
Above Normal	98	154	93	292	255-285		
Below Normal	197	224	190	296	245-275		
Dry	409	427	398	429	355-385		
Critically Dry	340	348	318	308	205-235		
Long-Term Annual Average	217	234	209	260	213-243		

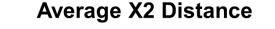
Results: Releases Under Climate Change

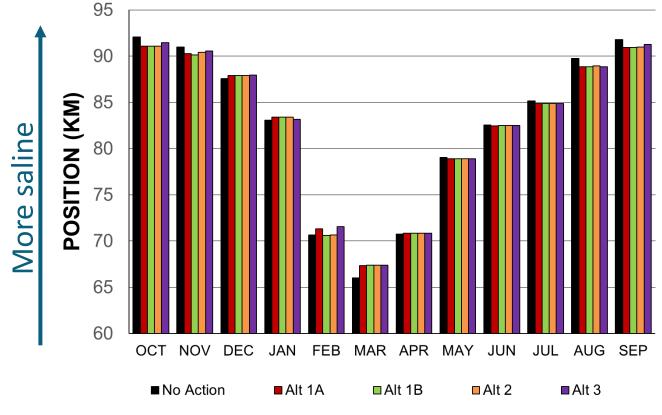


Total Sites Release	Alt 1B	Alt 1B 2035CT SLR15
Long-term Average (TAF)	234	250
Dry and Critical Average (TAF)	404	405

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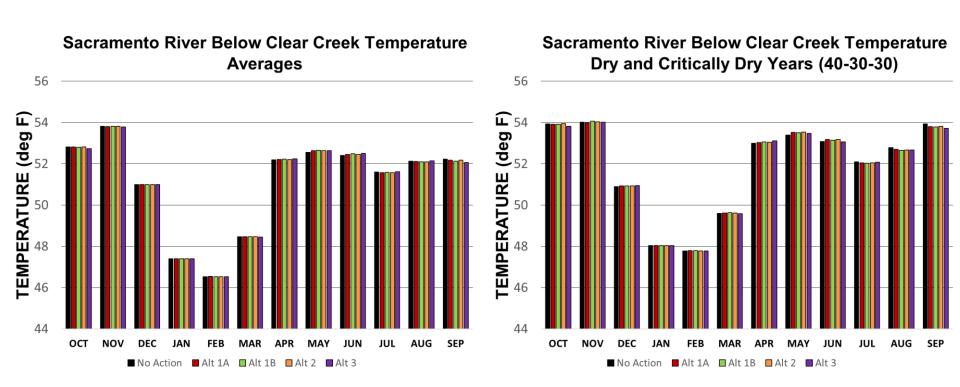
Results - Delta Water Quality X2





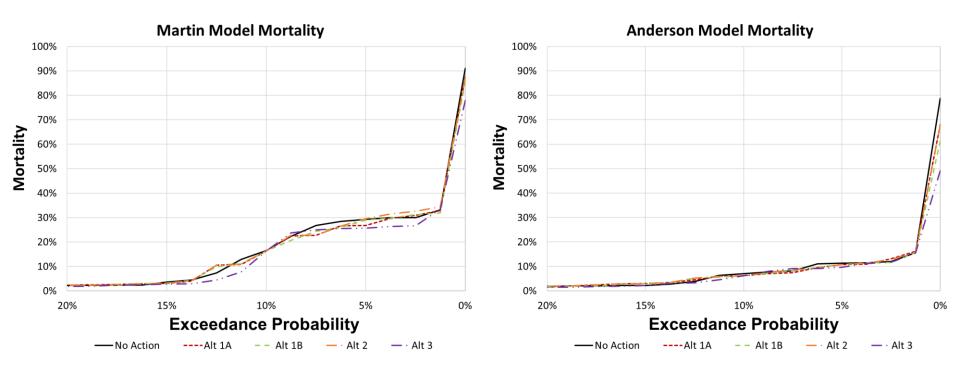
Improving salt conditions when salt content is at its highest

Results – Sacramento River Temperature



Minimal changes to River temperature due to pumping

Results – Fisheries - Mortality



Improvements above the No Action Alternative in high mortality conditions

Next Steps

- Other models:
 - Power
 - Reservoir temperature
 - Further updates with Alt 3
- Deliveries by participant by year type
 - Work with participants on operating assumptions
- Run analysis under 2030 and 2070 WSIP hydrology for CWC Feasibility
- Use updated cost estimate and operating options to develop a range of costs per acre-foot
- Work with permitting agencies to discuss possible areas of concern

Questions?



