

Water Resilience Portfolio

Collaboration on Actions 19.3 and 19.4

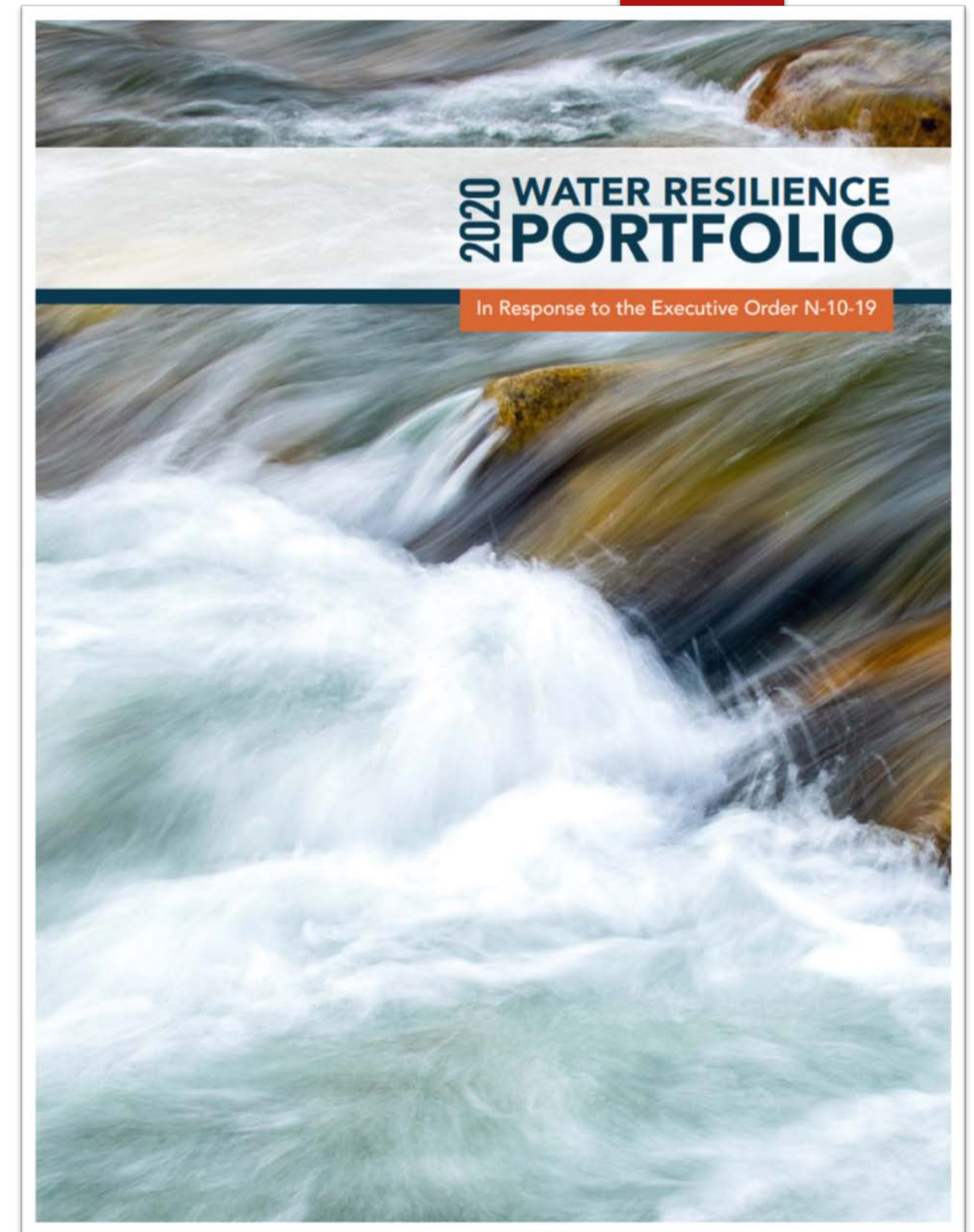


AUGUST 19, 2020

Kris Tjernell – IWM Deputy Director

Action 19.3: Conduct a feasibility analysis for improved and expanded capacity of federal, state, and local conveyance facilities to enhance water transfers and water markets. The analysis must incorporate climate change projections of hydrologic conditions. (DWR)

Action 19.4: Assess a state role in financing conveyance projects that could help meet needs in a changing climate. (Water Commission, DWR)

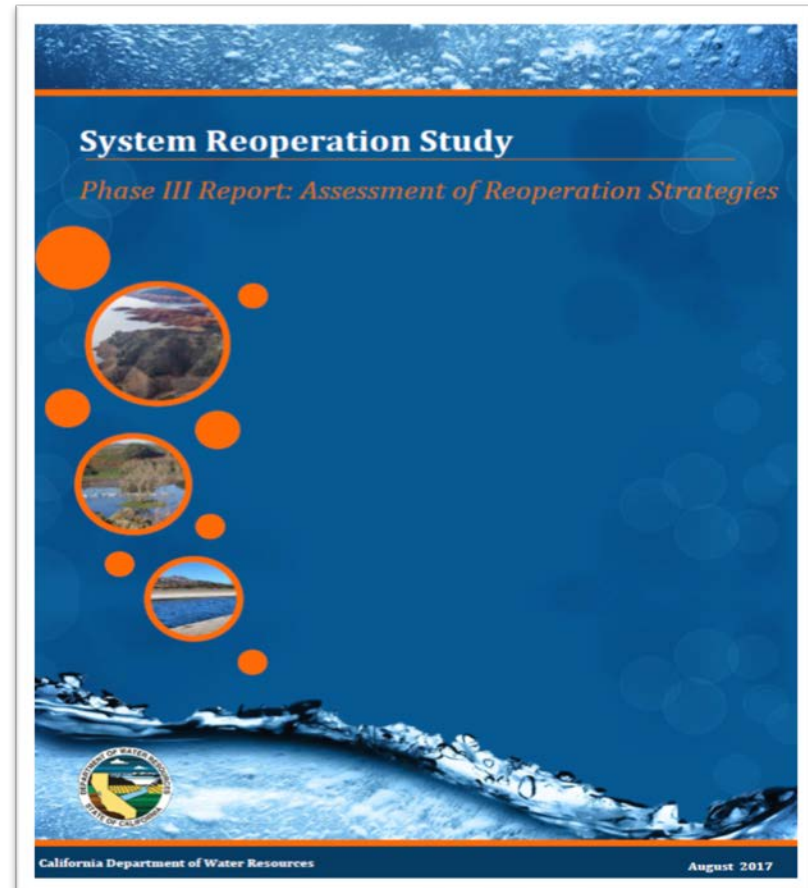
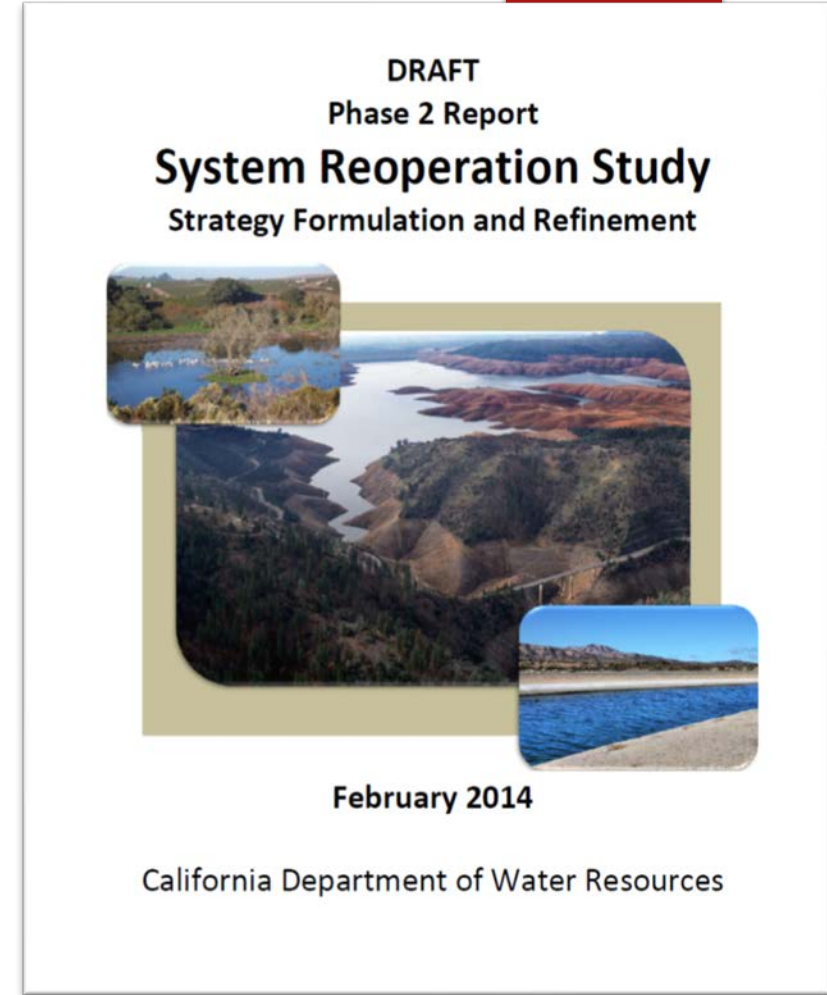
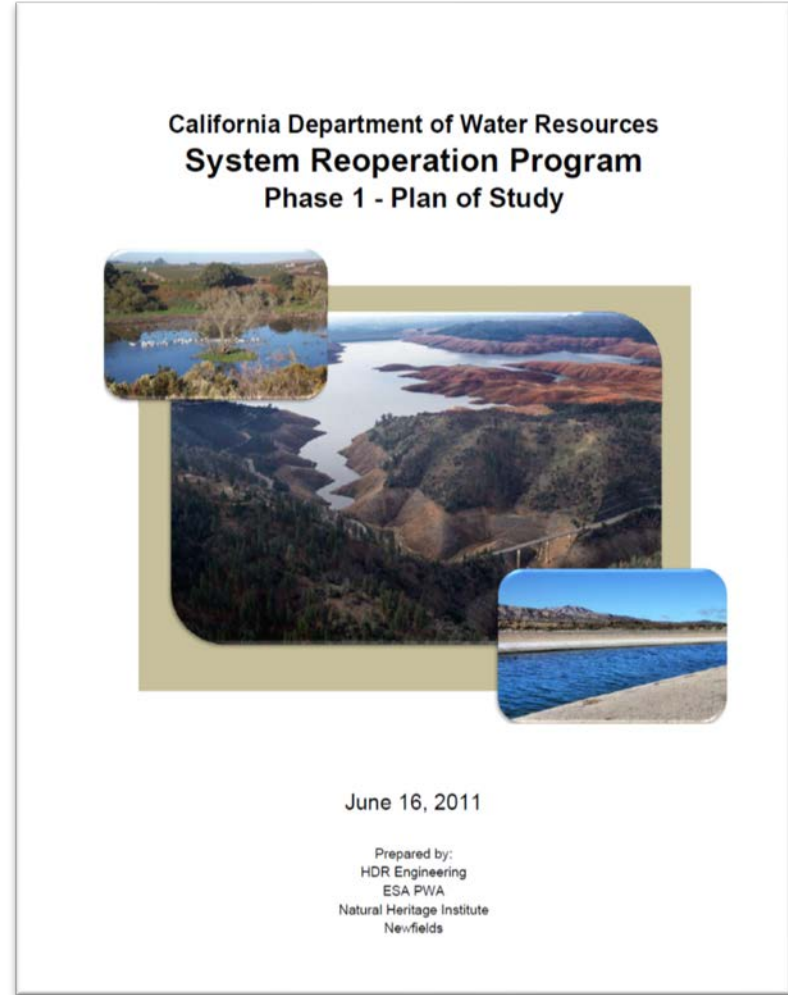


Work Done to Date

2011–2017: System Reoperation Study (SRS) - Phase I, II, and III

- Options for re-operating existing flood protection and water supply systems.

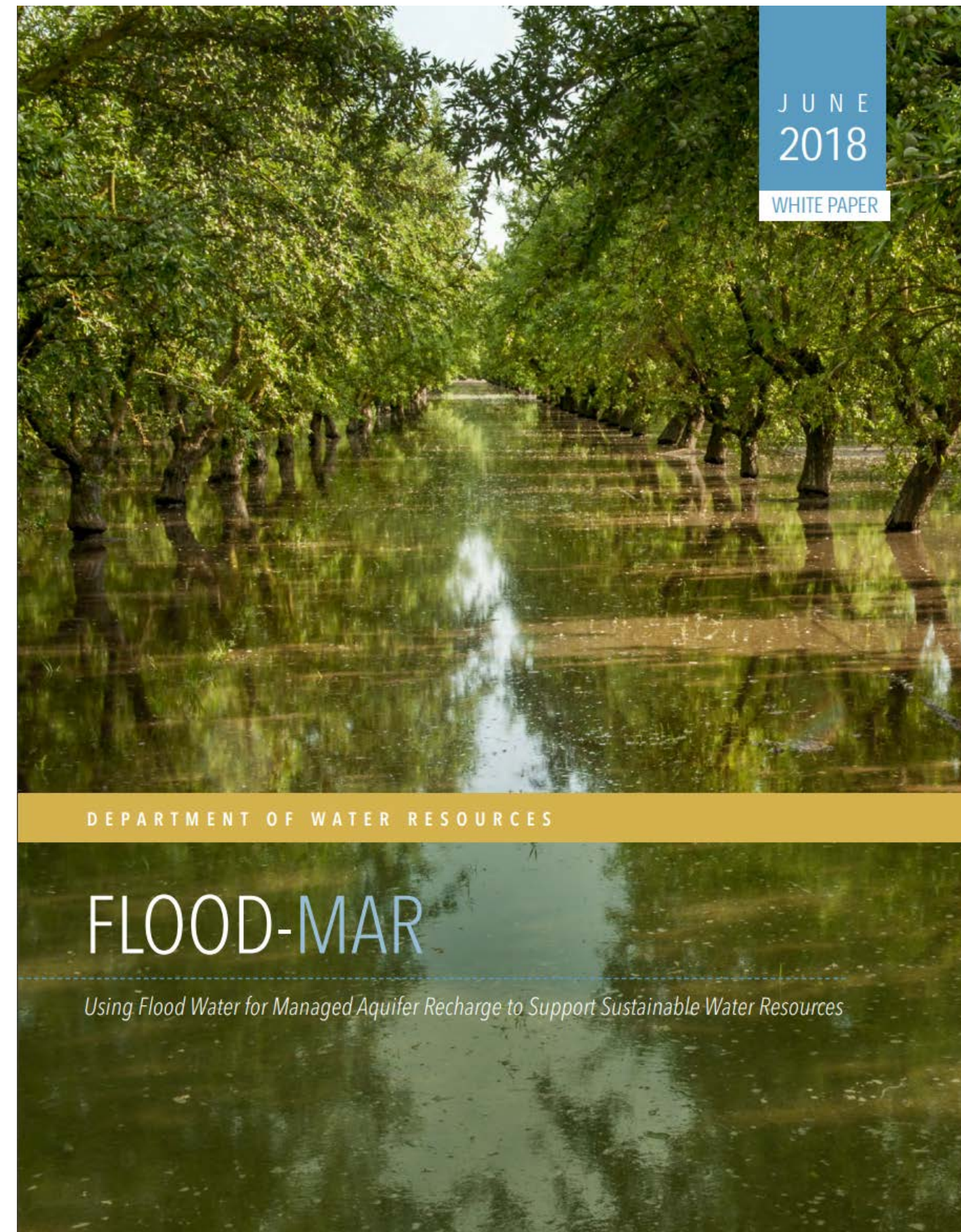
2018: Water Available for Replenishment Report

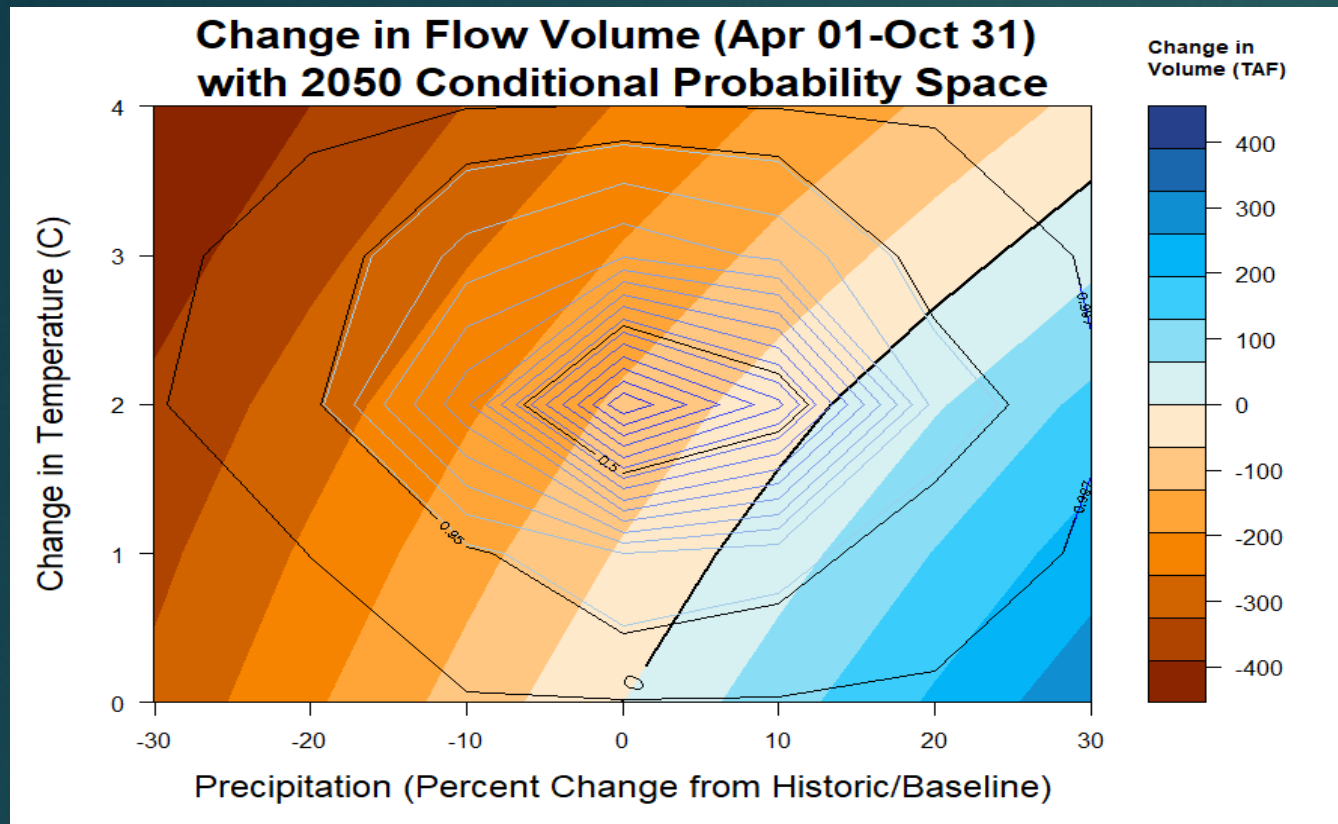


Current Focus

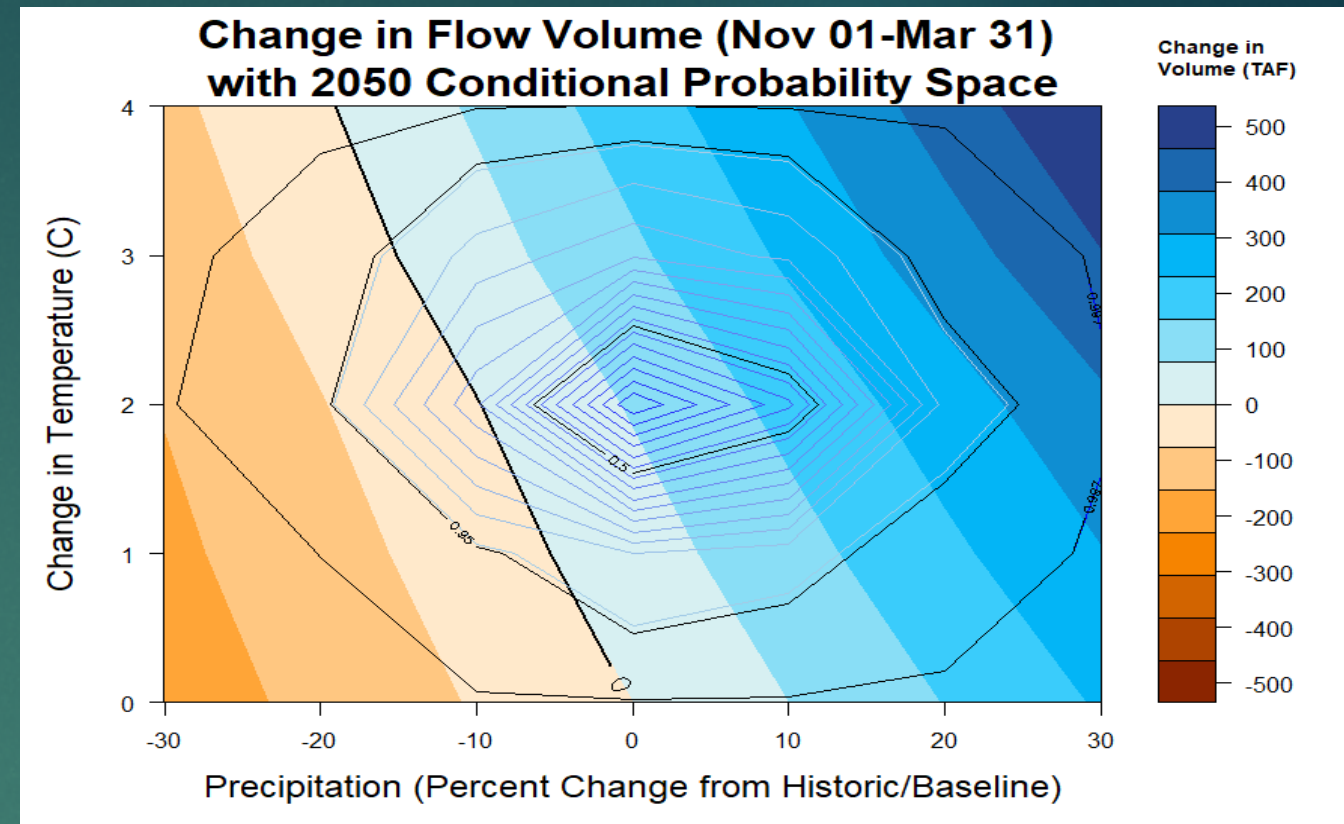
Flood-MAR (Managed Aquifer Recharge with Flood Waters)

Watershed-scale climate vulnerability and adaptation Pilot Studies (Merced and Tuolumne Watersheds)

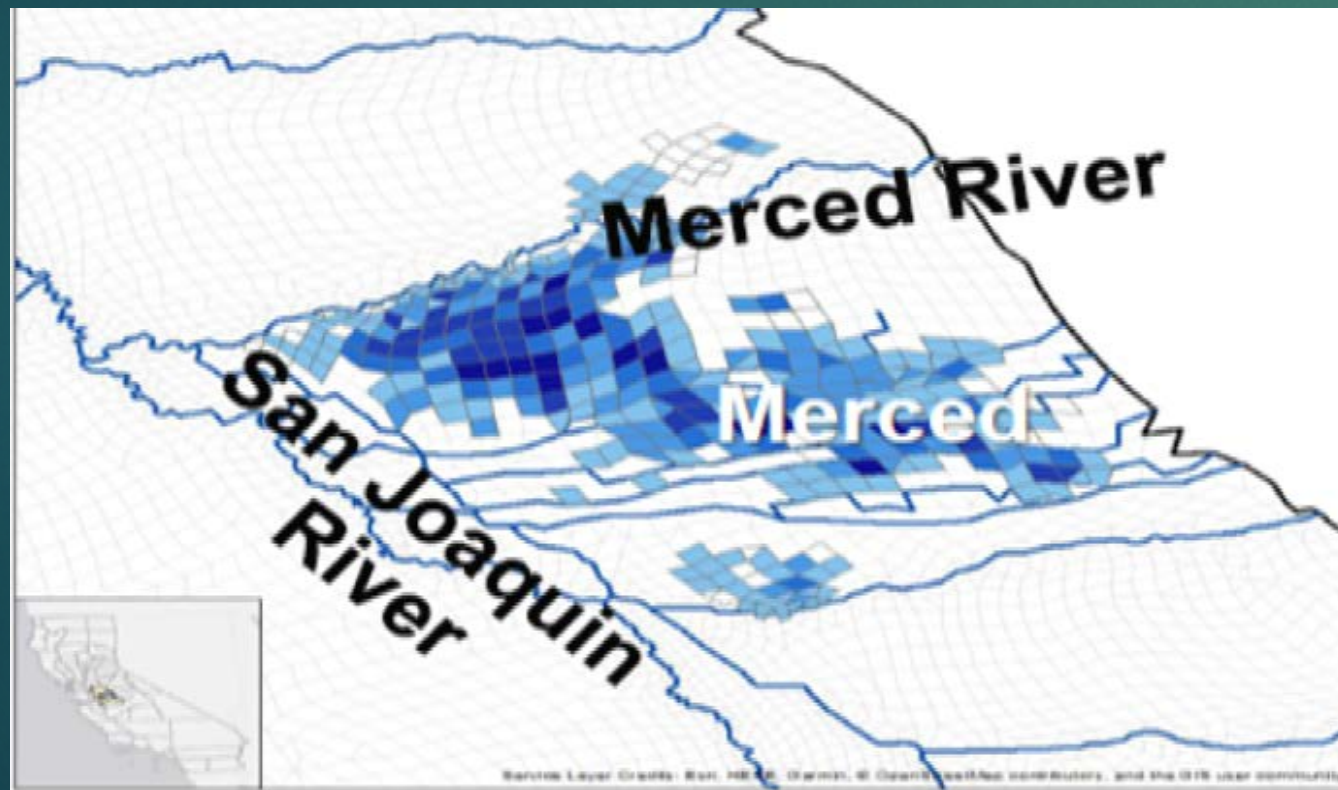




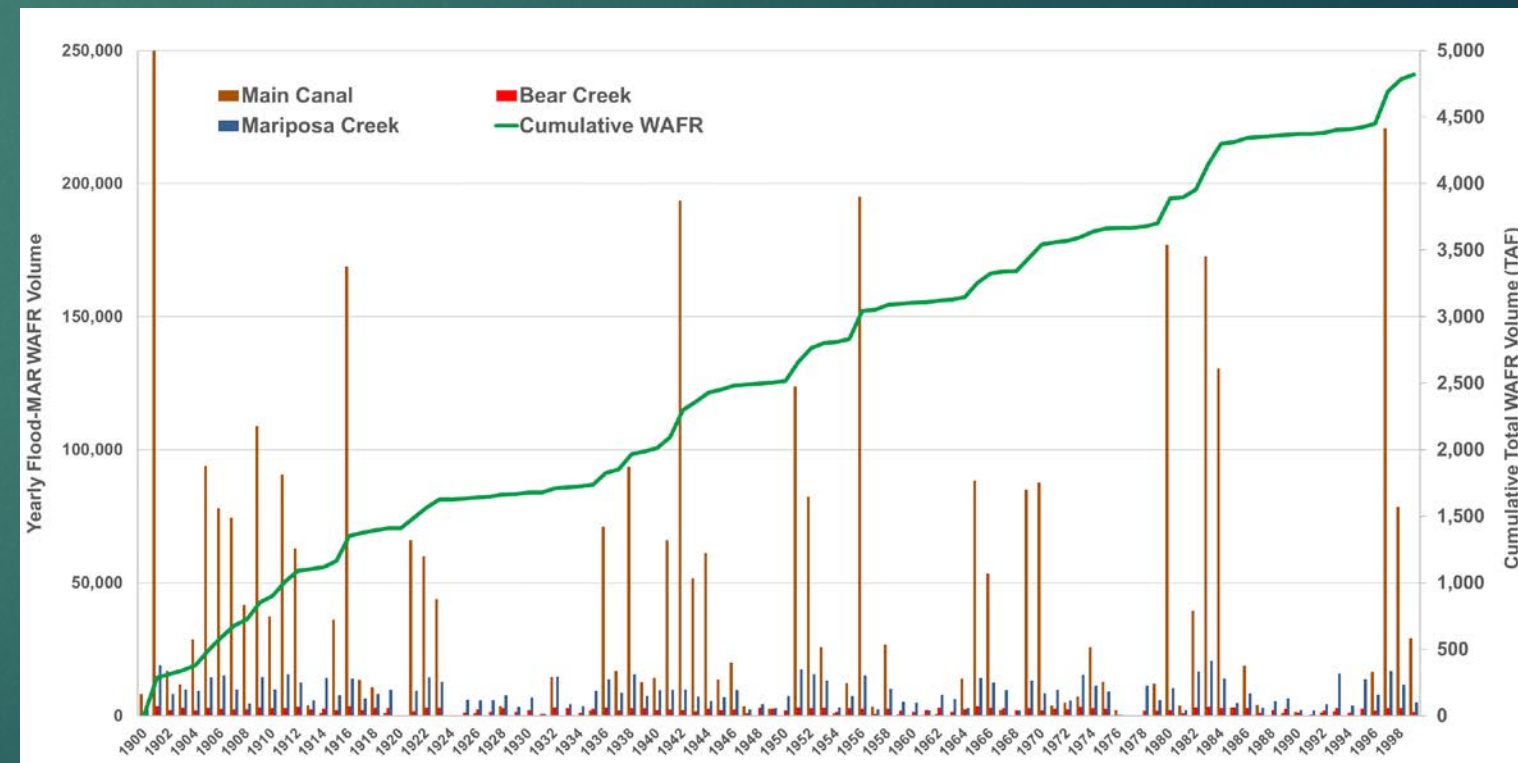
Climate Change Will Drive *Reduced* Lake McClure Inflows During Spring, Summer, Fall



Climate-Driven *Increase* in Lake McClure Winter Inflows Creates Opportunities for Multi-Benefit Recharge



Recharge Potential varies across working landscapes in the Merced watershed



50k AF/year available for recharge, based on historic hydrology and existing infrastructure capacity/operations



Alignment of Actions 19.3 and 19.4

- DWR will assess where expanded or additional conveyance could improve regional climate resilience, taking a broad view of potential beneficiaries that include:
 - Human Right to Water
 - Underserved Communities
 - Environmental Needs
- California Water Commission will assess financing for potential conveyance projects identified by DWR, pursuant to Action 19.3



Questions



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