

USACE SACRAMENTO DISTRICT – WATER MANAGEMENT UPDATE

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Lead Water Manager
Sacramento District/Water
Management Section

CA Cooperative Snow
Surveys Meeting

Date: 06 November 2019



Pine Flat Dam-Lake (Corps – CA) June 2017



Black Butte Dam – Lake (Corps – CA) Jan 2017



Camanche Dam-Lake (EBMUD – CA) Feb 2017



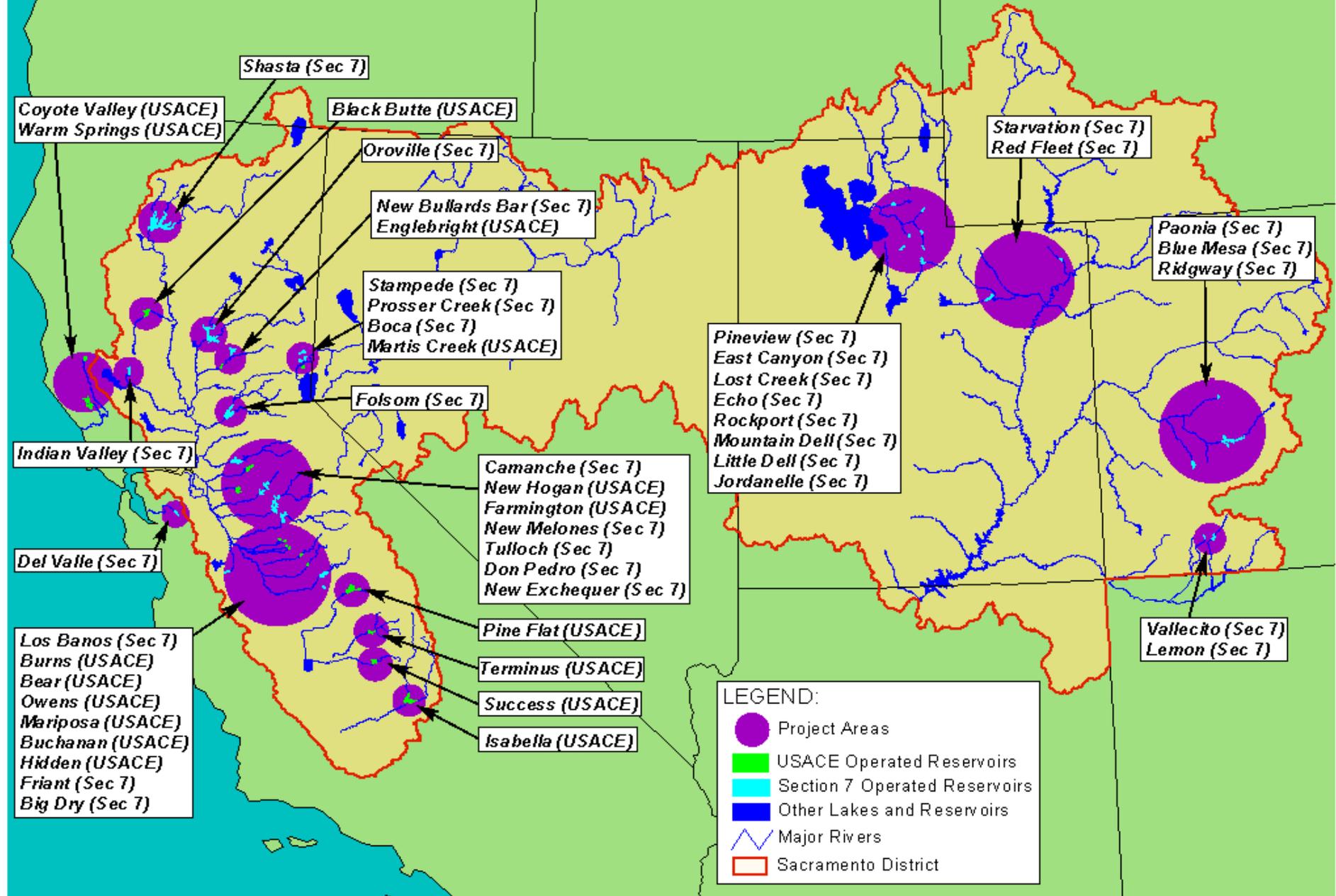
Don Pedro Dam-Lake (TID – CA) Feb 2017



US Army Corps
of Engineers®



SACRAMENTO DISTRICT PROJECTS





SACRAMENTO DISTRICT PROJECTS



DEBRIS DAMS (3)

- No Flood Control Operation

CORPS (19, 17-SPK, 2-SPN)

- Corps Owned, Operated, Managed
- Flood Control

SECTION 7 (32, 17-CA, 10-UT, 5-CO)

- Operated by another agency
- Flood Control



North Fork Dam – Lake Clementine (Corps –CA) Jun 2017



Black Butte Dam and Lake (Corps – CA) Jan 2017



Friant Dam – Millerton Lake (USBR – CA) Jul 2017

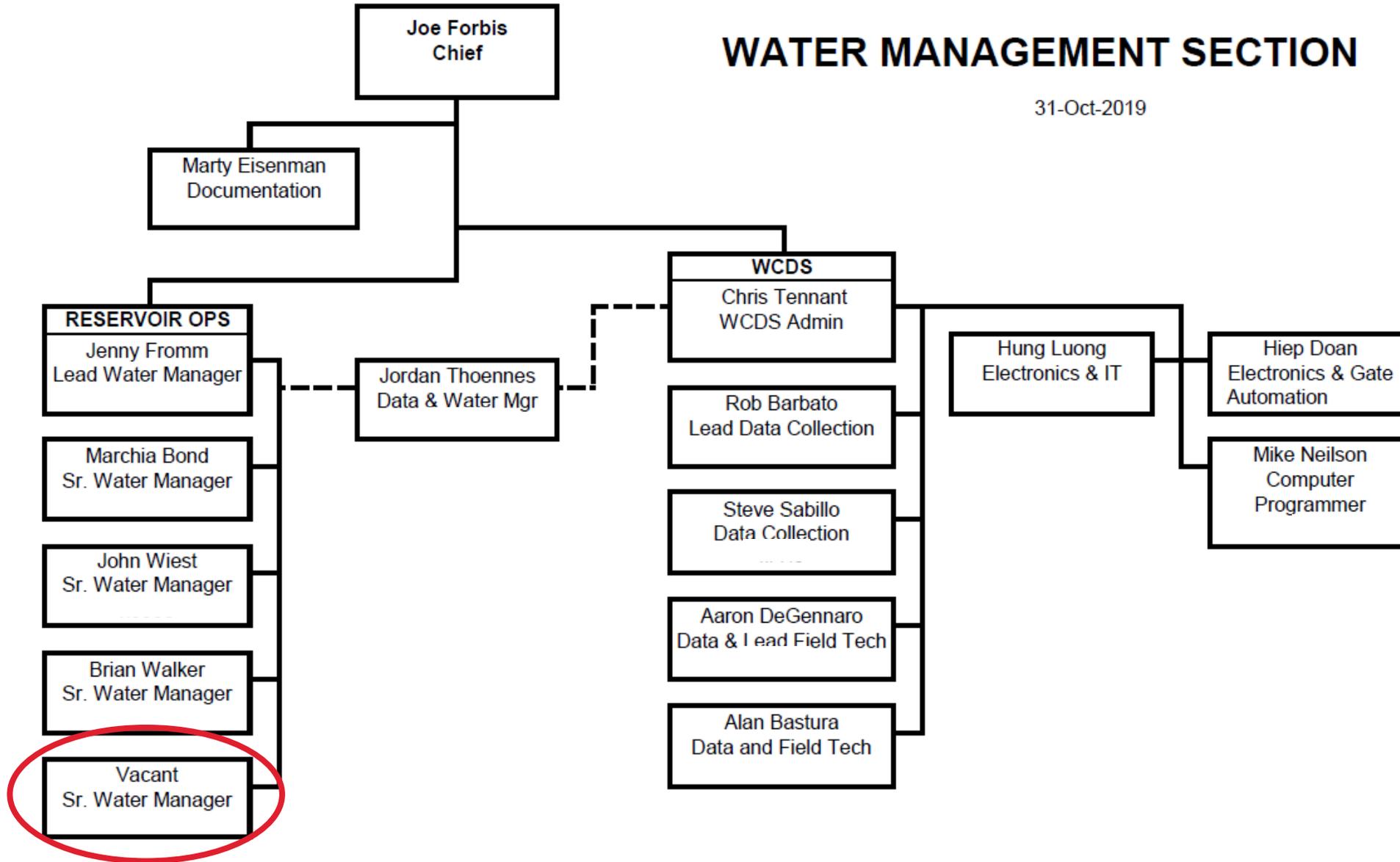


AGENDA



WATER MANAGEMENT SECTION

31-Oct-2019





PROJECTS

- Folsom Dam-Lake – New WCM
- Schafer Dam-Success Lake – Spillway Enlargement Project
- Isabella Dam-Lake – Dam Safety Modification Project



Isabella Dam-Lake (Corps – CA)



Schafer Dam-Success Lake (Corps – CA) Artist Rendering of New Weir



Folsom Dam-Lake (USBR – CA)



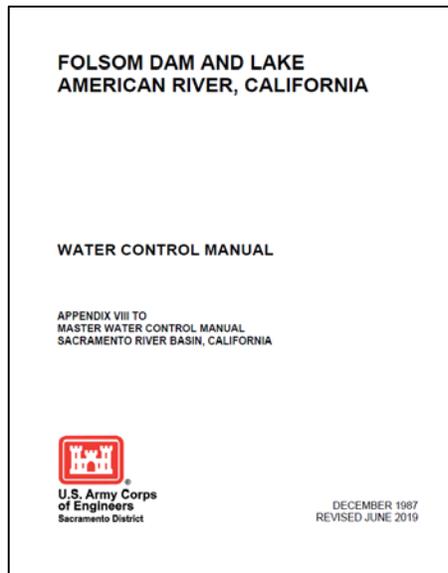
USE OF FORECASTS IN RESERVOIR OPERATIONS



FORECAST BASED

WCM contains rules for how/when forecasts are being used

- Folsom Dam-Lake:
 - Forecast determines TOC
 - Forecast determines release



FORECAST INFORMED RESERVOIR OPERATIONS - PROGRAM **FIRO**

Approach for using modeling, forecasting tools, and improved information to determine if the WCM can be updated to use forecasts

- Coyote Dam-Lake Mendocino





FIRO (PROGRAM)–COYOTE DAM–LAKE MENDOCINO



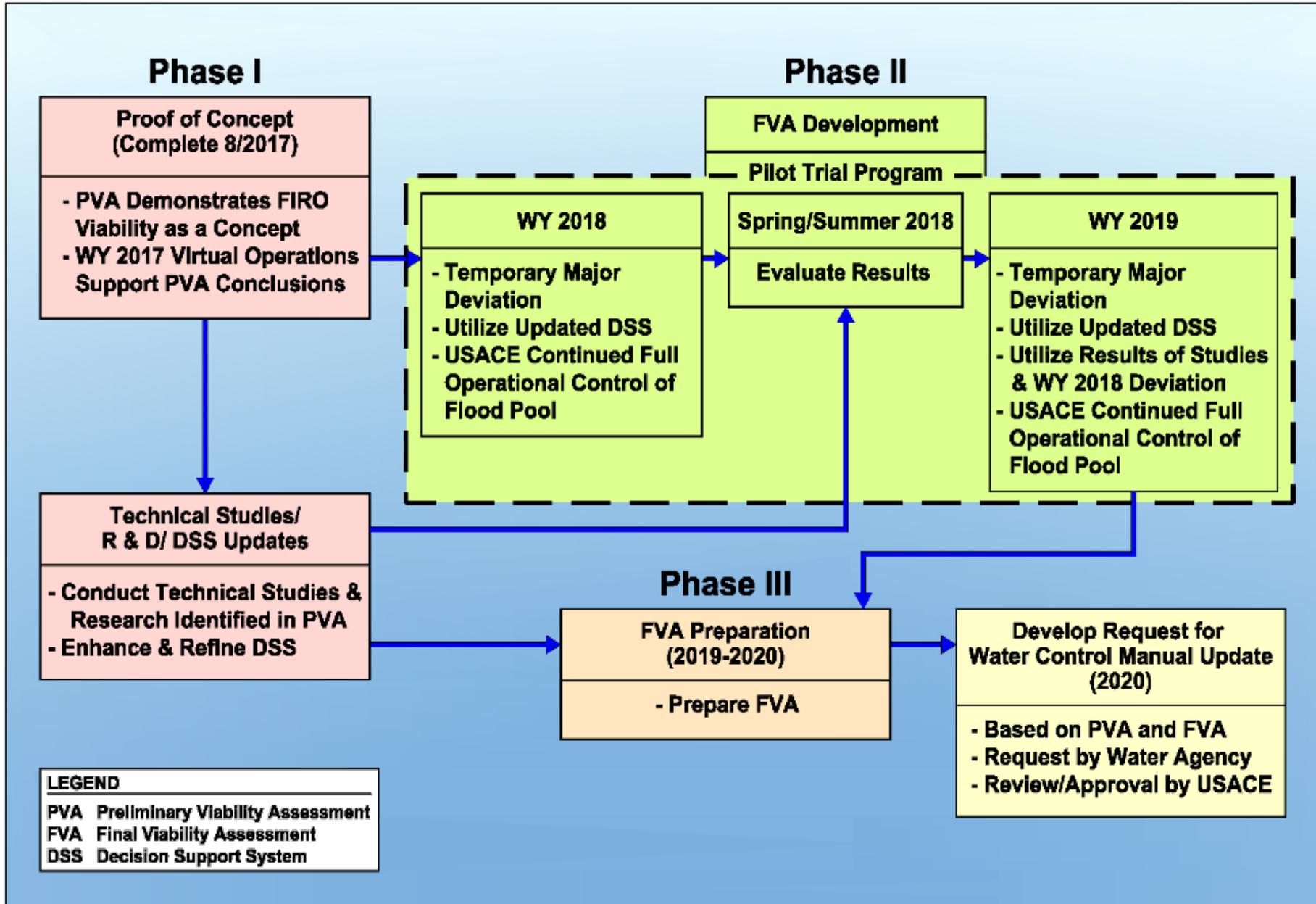
- Provides a pathway for research to operations
- Allows for safe exploration of ideas and alternative strategies
- Has the potential for transferability and realizing major benefits for water resources, flood protection, and environmental goals



Mendocino County
RUSSIAN RIVER FLOOD CONTROL
& Water Conservation Improvement District



FIRO (PROGRAM)-COYOTE DAM-LAKE MENDOCINO

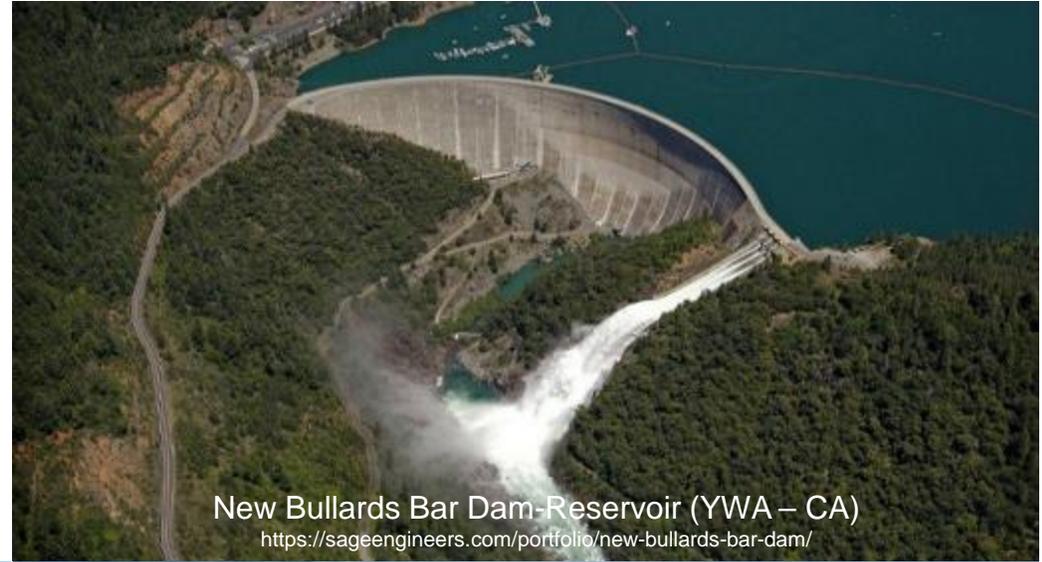




FIRO (PROGRAM) TRANSFERABILITY



- Prado Dam-Reservoir (SPL)
- Yuba-Feather (SPK)
 - New Bullards Bar Dam-Reservoir
 - Oroville Dam-Reservoir



New Bullards Bar Dam-Reservoir (YWA – CA)
<https://sageengineers.com/portfolio/new-bullards-bar-dam/>



Oroville Dam-Reservoir (DWR – CA)
<https://pixel-ca-dwr.photoshelter.com/index>

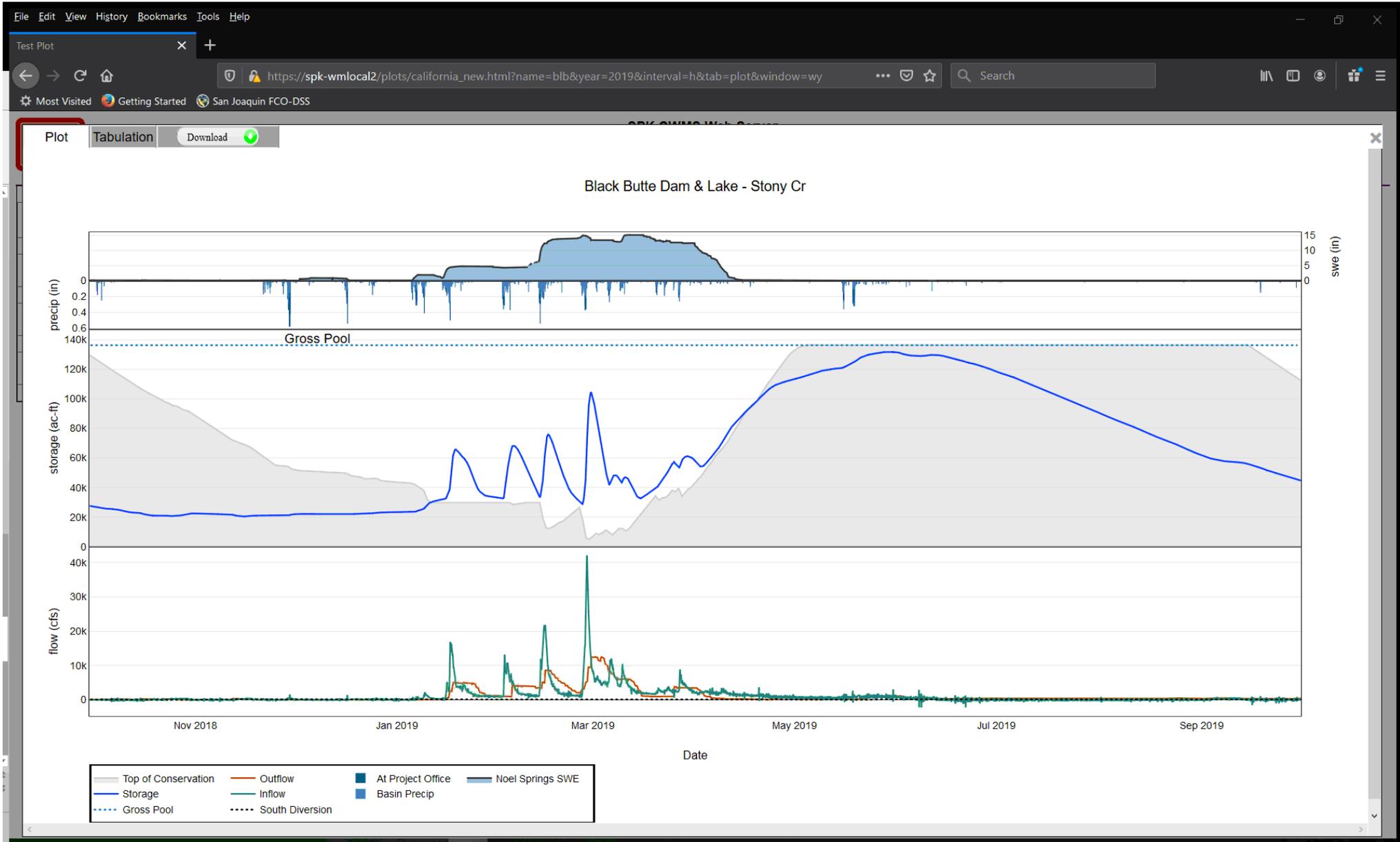


 Prado Dam Project

https://en.wikipedia.org/wiki/Prado_Dam



NEW PLOTS!





QUESTIONS



Sunrise at Folsom Dam – Lake (USBR – CA) Oct 2017