

State Water Project Lake Oroville Yuba-Feather Watershed



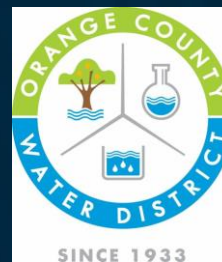
John Leahigh

FIRO | August 2019 Workshop

SWP Water Operations Executive Manager

FIRO Project Comparison

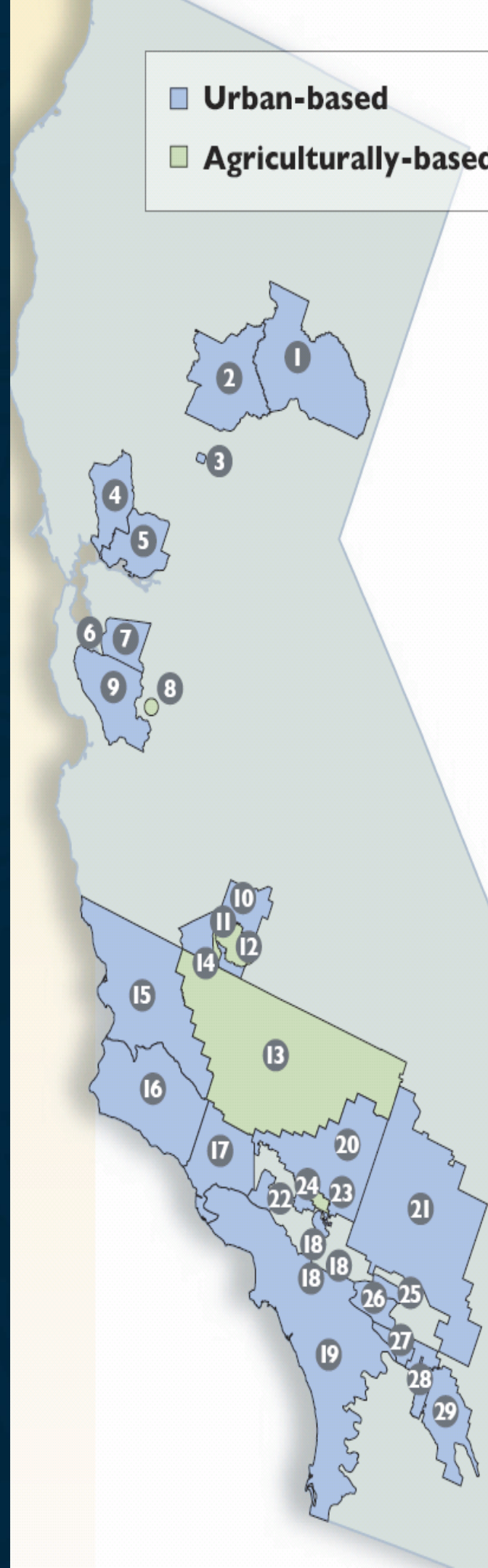
Attribute	Lake Mendocino	Prado Dam	New Bullards Bar	Oroville Dam
Drainage Area	105 mi ²	2,230 mi ²	489 mi ²	3,950 mi ²
Elevation Range	637-4,480'	470-11,500'	2,000-8,450'	900-11,460'
Avg Inflow	265 KAF/yr	159 KAF/yr	1,270 KAF/yr	4,460 KAF/yr
Snowpack	Non factor	Minor factor	Significant factor	Significant factor
Gross Pool	116.5 KAF	174 KAF	966 KAF	3538 KAF
Max Flood Control	48.1 KAF	174 KAF	170 KAF	750 KAF
Hydro-electric	3.1 MW	None	315 MW	819 MW
DS Constraints	Most events	Next few years only	Largest events	Largest events
Construction	No	Yes	Yes	Unknown
Environmental	Fisheries	Birds/habitat	Fisheries	Fisheries



State Water Project

- Authorized in 1960: Burns-Porter Act
- Planned, designed, built, operated and maintained by the State of California Department of Water Resources
- Largest state-built and operated multipurpose water and power system in the U.S.
- Covers about 705 miles from the Upper Feather River to Lake Perris in Riverside County
- People served: ~27 million and 750,000 acres
- Average annual water delivery: 2.5 million acre-feet
- Total reservoir storage: 5.8 million acre-feet
- Lake Oroville: 3.5 million acre-feet

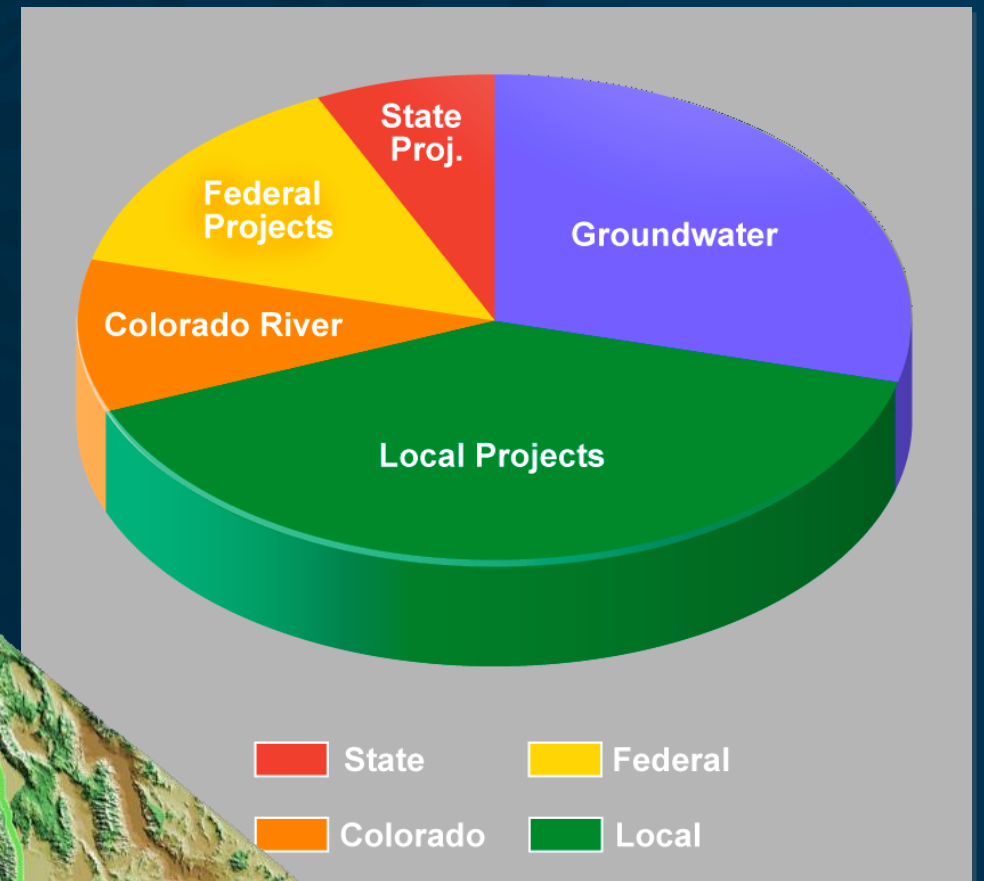
State Water Project Water Contractors



- 1 Plumas County Flood Control & Water Conservation District
- 2 County of Butte
- 3 City of Yuba City
- 4 Napa County Flood Control & Water Conservation District
- 5 Solano County Water Agency
- 6 Alameda County Water District
- 7 Alameda County FCWCD: Zone 7
- 8 Oak Flat Water District
- 9 Santa Clara Valley Water District
- 10 County of Kings
- 11 Empire West Side Irrigation District
- 12 Tulare Lake Basin Water Storage District
- 13 Kern County Water Agency
- 14 Dudley Ridge Water District
- 15 San Luis Obispo County Flood Control & Water Conservation District
- 16 Santa Barbara County Flood Control & Water Conservation District
- 17 Ventura County Flood Control District
- 18 San Gabriel Valley Municipal Water District
- 19 The Metropolitan Water District of Southern California
- 20 Antelope Valley-East Kern Water Agency
- 21 Mojave Water Agency
- 22 Castaic Lake Water Agency (Devil's Den)
- 23 Littlerock Creek Irrigation District
- 24 Palmdale Water District
- 25 Crestline-Lake Arrowhead Water Agency
- 26 San Bernardino Valley Municipal Water District
- 27 San Geronio Pass Water Agency
- 28 Desert Water Agency
- 29 Coachella Valley Water District

State Water Project Purposes

- Water Supply
- Flood Control
- Delta Requirements
- Power Generation
- Recreation



Challenges to SWP Deliveries

- Variable Hydrology
- Delta Constraints
- Increasing Demand

