

Brian D. Poulsen Jr., General Counsel



Overview

California's water rights system and the District's water rights portfolio are both complex. This complexity, along with other factors, creates both challenges and opportunities for the District in managing District water supplies to meet customer demands now and into the future in a fiscally and environmentally responsible manner.

Overview

- CVP = Central Valley Project
- SWP = State Water Program
- SWRCB = State Water Resources Control Board
- R-GPCD = Residential Gallons Per Capita Day
- DWR = Department of Water Resources
- Reclamation = US Bureau of Reclamation
- AF = Acre Feet

California Water Law 101

- All water belongs to the people of the state.
- Water rights are a right to the use of water.
- There are two main classifications of surface water rights in California:
 - **≠** Riparian
 - Appropriative



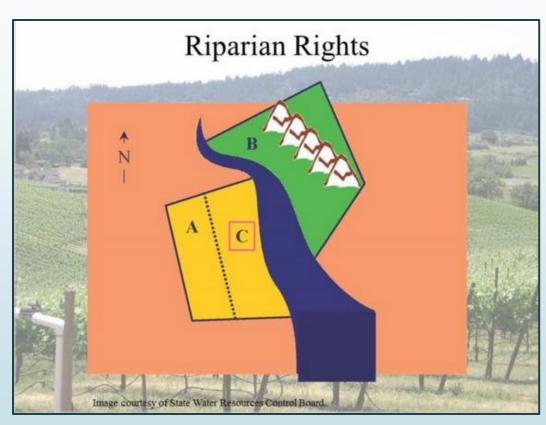
Riparian Rights

Under Riparian Rights, landowners have the right to the water that runs through or adjacent to their property for beneficial purposes as long as their use does not interfere with the rights of other riparian land owners.

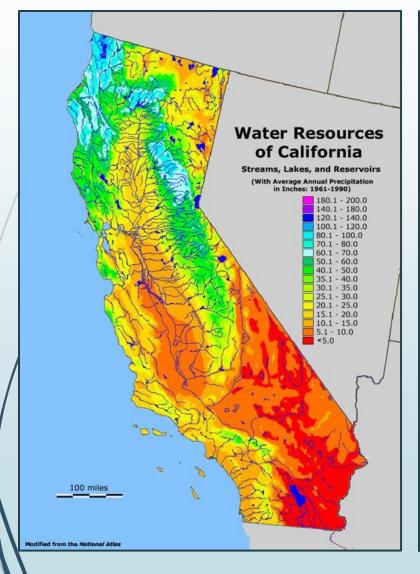


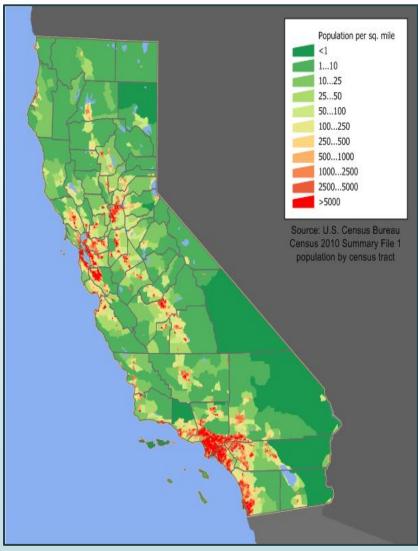
Riparian Rights continued

- Exist through ownership of land abutting stream
- For reasonable, beneficial use on riparian property
 - Riparian rights
 are correlative—
 all riparian right
 holders have
 co-equal priority



Appropriative Rights





Appropriative Rights continued

■ In 1855, California adopted the doctrine of prior appropriation in Irwin v. Phillips (1855) 5 Cal. 140



Appropriative Rights continued

"[H]owever much the policy of the State, as indicated by her legislation, has conferred the privilege to work the mines, it has equally conferred the right to divert the streams from their natural channels, and as these two rights stand upon an equal footing, when they conflict, they must be decided by the fact of priority upon the maxim of equity, qui prior est in tempore potior est injure."

Irwin v. Phillips (1855) 5 Cal. 140, 147

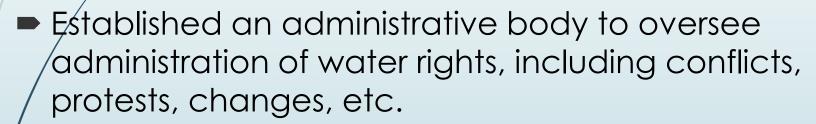
Civil Code section 1414: "As between appropriators, the one first in time is the first in right."

Appropriative Rights continued

- Basic principle: First in time, first in right (Priority)
- Established by beneficial use (domestic, irrigation, power)
- Not correlative—in times of scarcity, the junior priority must yield entirely to fully satisfy the senior priority
- Prevailing rule in more arid states (Western US)
- Limited to amount historically used (can't increase it)
- Use it or lose it: can lose the right due to non-use (more than 5 years)
- Transferable would not result in injury; and would not unreasonably affect fish, wildlife or other instream beneficial uses.

Modern Administration of Water Rights

- Water Commission Act of 1914
- Established process acquiring rights
- Application-Permit-License



Responsible for collecting annual water use reports from riparian and appropriative users

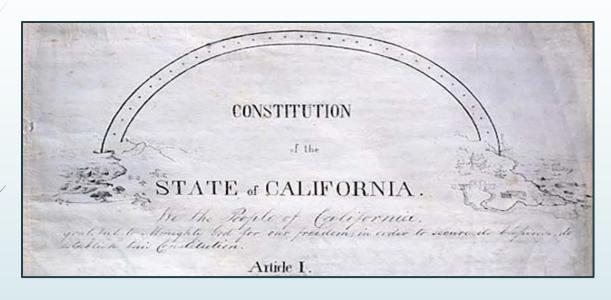


Important Characteristics of Water Rights

- Priority date
- Purpose of use
- Place of use
- Pøint of diversion
- Season of diversion

REPORT OF LICENSEE FOR 2018 Primary Owner: EL DORADO IRRIGATION DISTRICT Primary Contact: BRIAN MUELLER Date Submitted: 04/01/2019 Application Number: A000654 License Number: 000438 Source(s) of Water POD Parcel Number County CAPLES LAKE Alpine MEDLEY LAKE El Dorado MAX Direct Diversion Rate: 0 GPD MAX Collection to Storage: 13000 AC-FT Face Value: 13000 AC-FT Direct Diversion Season Storage Season Power 01/01 to 12/31 1. Project Abandoned No The project has been abandoned and I request revocation of my water right license 2. Compliance with License Terms and Conditions I have currently reviewed my water right license and I am complying with all terms and conditions Yes Description of noncompliance with terms and conditions 3. Changes to the Project Intake location has been changed Description of intake location changes Type of use has changed Description of type of use changes Place of use has changed Description of place of use changes Other changes Description of other changes 4. Purpose of Use 21 MW Power

Reasonable Use



"It is hereby declared that because of the conditions prevailing in this State the general welfare requires that the water resources of the State be put to beneficial use to the fullest extent of which they are capable, and that the waste or unreasonable use or unreasonable method of use of water be prevented, and that the conservation of such waters is to be exercised with a view to the reasonable and beneficial use thereof in the interest of the people and for the public welfare." Cal. Const., art. X, § 2

Public Trust Doctrine

- Certain resources (such as navigable waters) are too valuable to be privately owned and must remain available for public use.
- The State has trustee responsibility to protect these resources.
- Judicial recognition of the public trust doctrine has been established for tidelands and navigable waterways, submerged land (such as lake beds) and the waters above them, and preservation of a public interest (such as recreation, swimming, access and sport fishing).

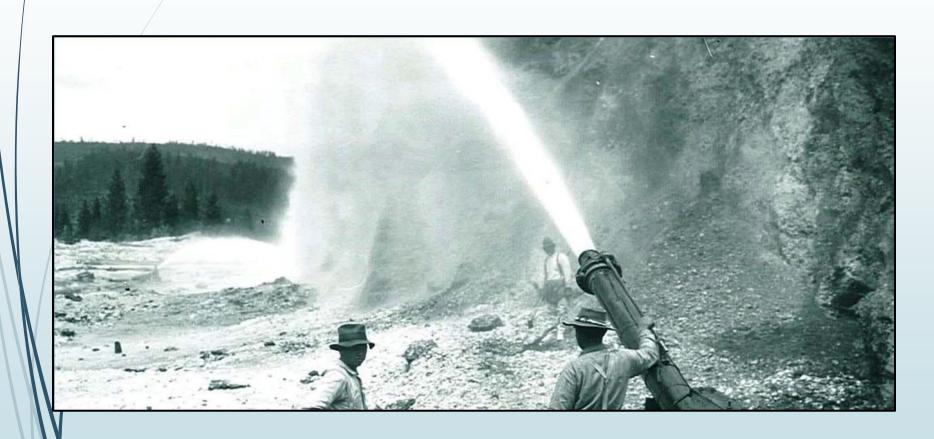
Area/County of Origin Protections

- County of Origin Statute
 - The State Board shall "not authorize the use of any water outside of the county of origin which is necessary for the development of the county." WC 10505.5
- Watershed of Origin Statute
 - SWP and CVP may not be operated in a manner that deprives a "watershed or area wherein water originates . . . Of water reasonably required to adequately supply the beneficial needs of the watershed, area, or any of the inhabitants or property owners therein." WC 11460
- Area of Origin Statute
 - Expands the export restraint contained in Watershed of Origin Statute

California Water Law 101 Recap

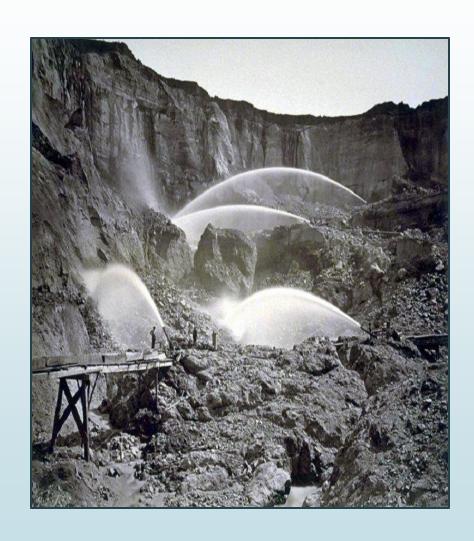
- Water belongs to the people of the State
- Water rights are for use only
- Defined by beneficial use
- Appropriative rights have priority, not correlative;
 transferable; subject to forfeiture for nonuse
- All water rights limited to reasonable amount and method
- All water rights subject to public trust balancing
- Area/County's of origin protected
- SWRCB administers water rights

District Water Rights



District Water Rights

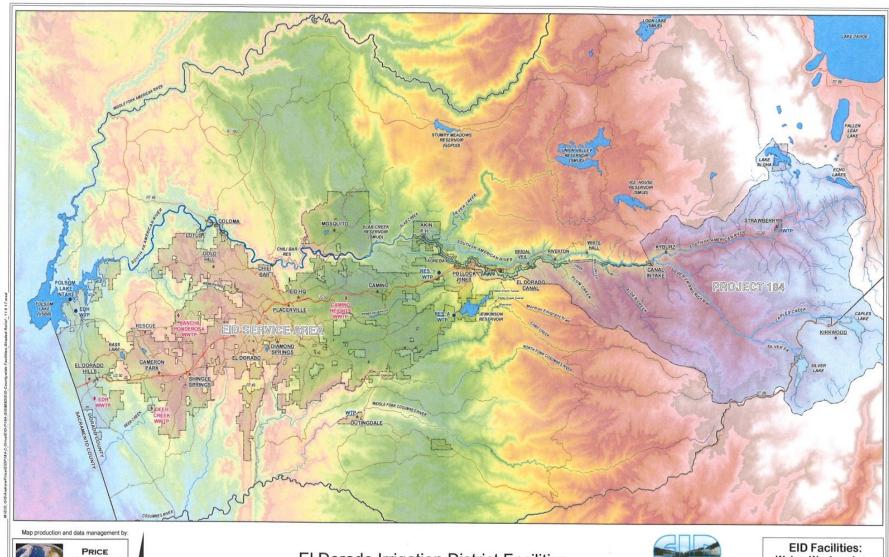
- South Fork American River, 1856
- ► Weber Creek, 1855
- North Fork Cosumnes, 1854
- Hangtown Creek, 1852
- Squaw Hallow Creek, 1855
- Slab Creek, 1854
- Clear Creek, 1852



Simplified EID Water Rights Portfolio

Water Right	Amount (Acre-Feet/Year)		
Pre-14 South Fork American	15,080		
Sly Park Reservoir	23,000		
CVP (Folsom)	7,550		
Ditch/Weber Dam (Folsom)	4,560		
Permit 21112 (Folsom)	<u>17,000</u>		
	67,190		

CVP = Central Valley Project





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El Dorado Irrigation District Facilities



El Dorado Irrigation District David Witter, Director of Water Policy and Environmental Compliance (530) 642-4103

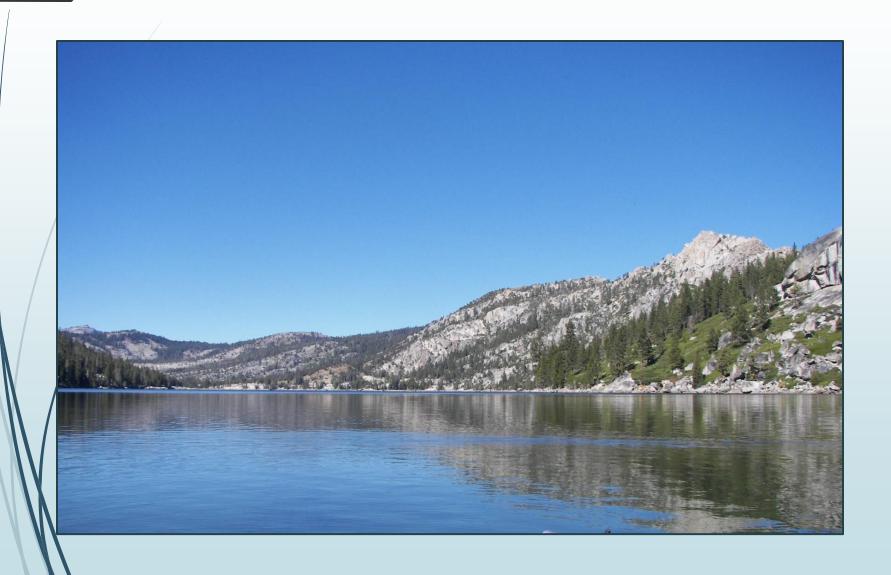
Water, Wastewater, Recycled, Hydroelectric & Recreation

Date: August 25, 2008

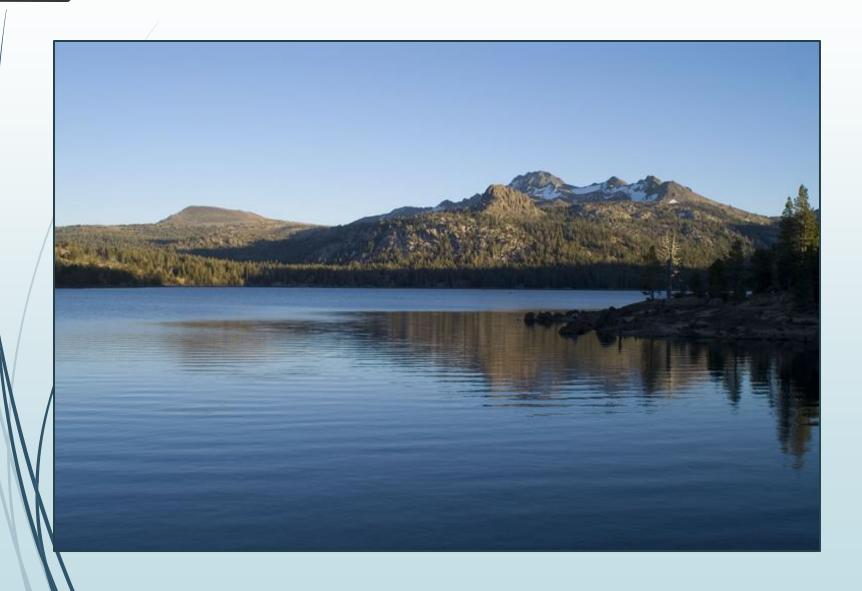
Lake Aloha



Echo Lake



Caples Lake



Silver Lake



Sly Park



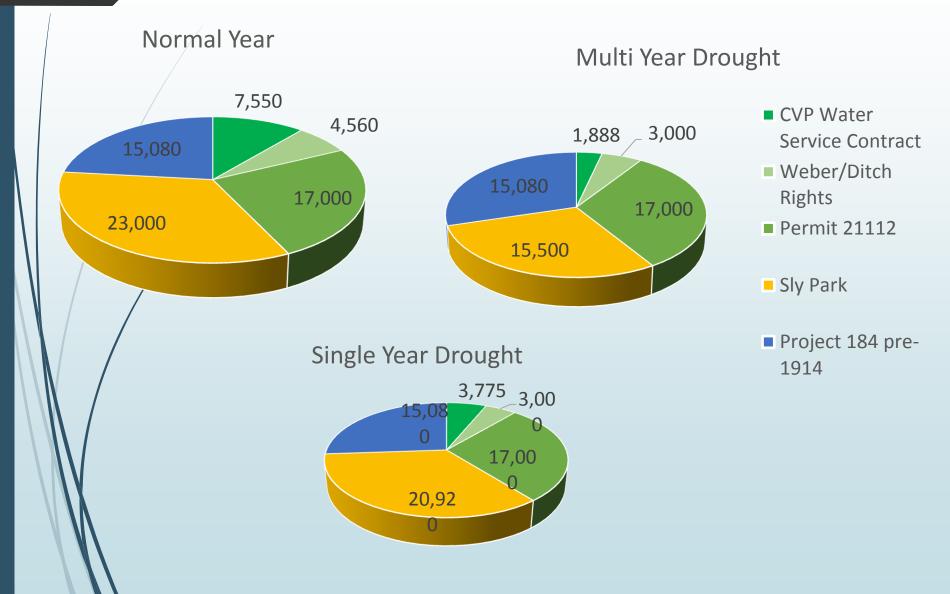
Folsom Reservoir



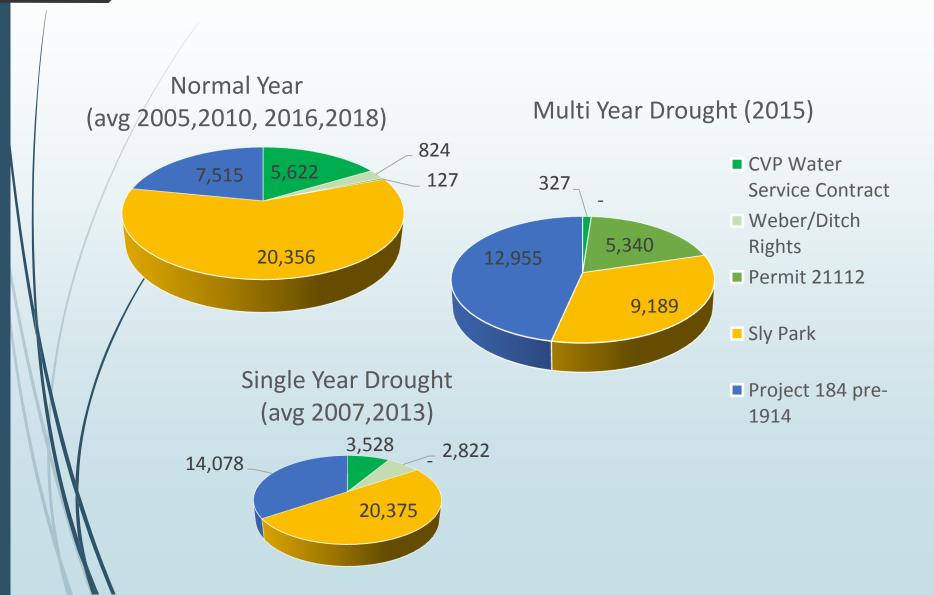
Water Supply Planning

Water Asset	Normal Year	Single Dry Year	Multi-Dry Year		
			Year 1	Year 2	Year 3
Existing Supplies					
License 2184 and Pre-14 rights	4,560	3,000	3,000	3,000	3,000
Licenses 11835 and 11836	23,000	20,920	20,920	17,000	15,500
CVP Contract	7,550	3,775	3,775	3,775	1,888
Project 184	15,080	15,080	15,080	15,080	15,080
Permit 21112	17,000	17,000	17,000	17,000	17,000
Subtotal Existing	67,190	59,775	59,775	55,855	52,468
Planned Supplies					
CVP Fazio water	7,500	3,750	3,750	3,750	1,875
Applications 5645X12, 5644X02 (El Dorado-SMUD Agreement)	30,000	5,000	5,000	5,000	5,000
Subtotal Planned	37,500	8,750	8,750	8,750	6,875
Recycled Water	3,500	3,500	3,500	3,500	3,500
Total Supplies	108,190	72,025	72,025	68,105	62,843

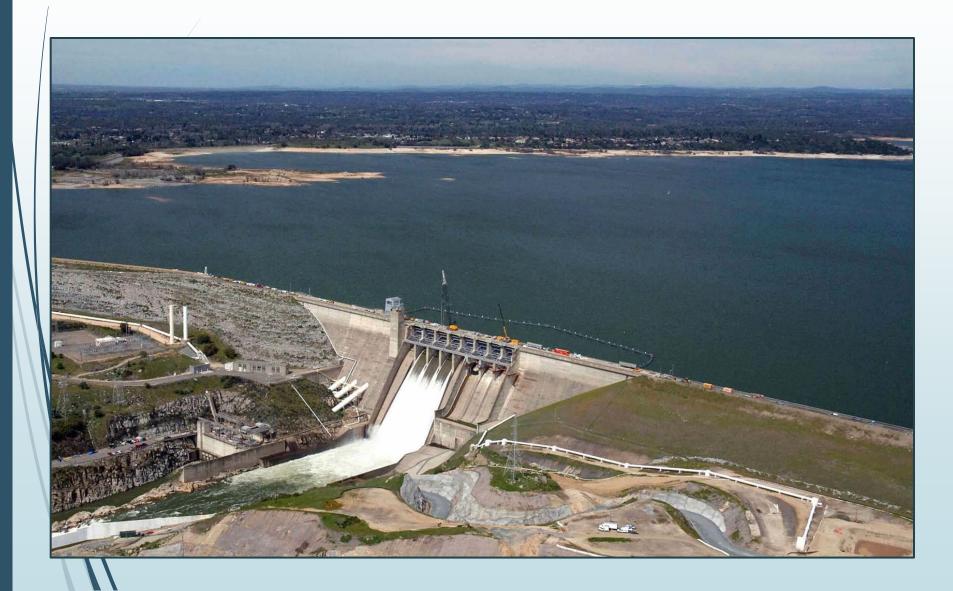
Supply Availability



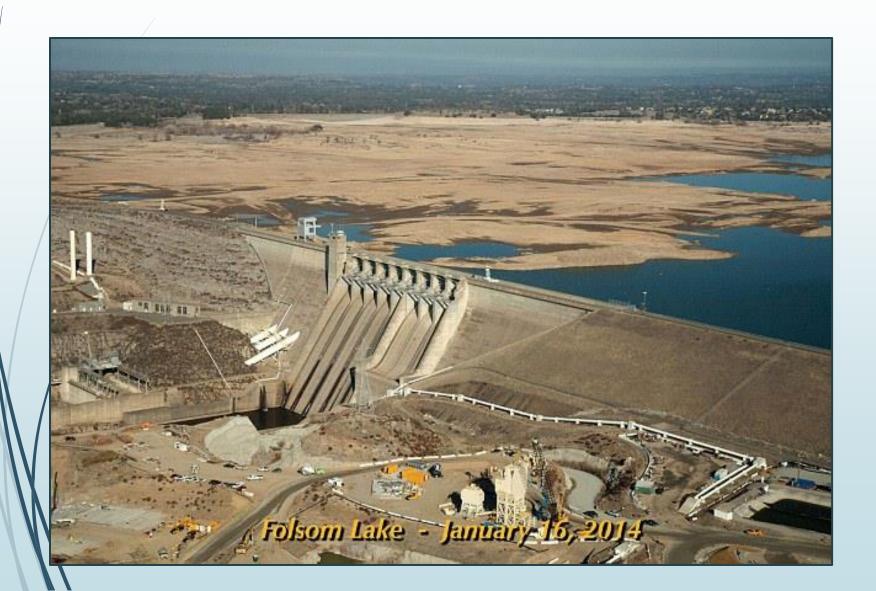
Meeting Demand



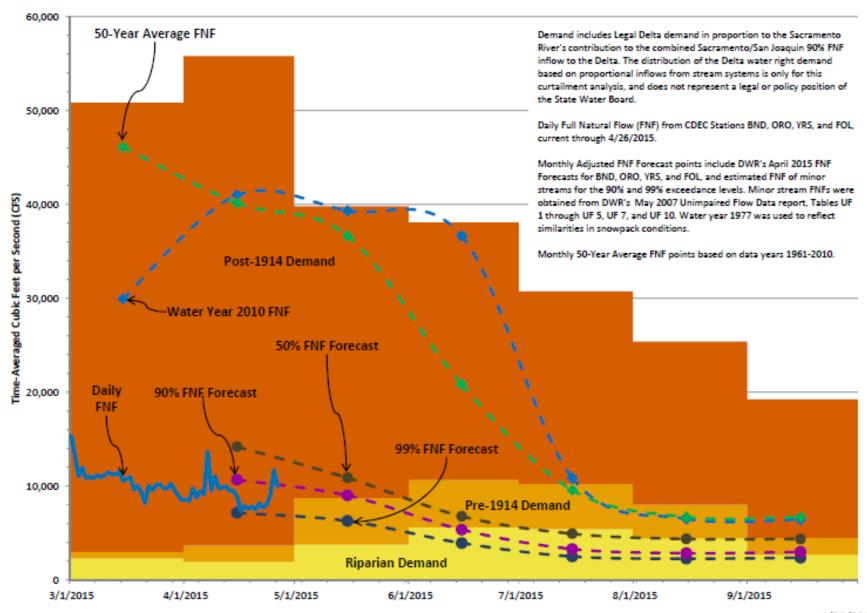
Challenges and Opportunities



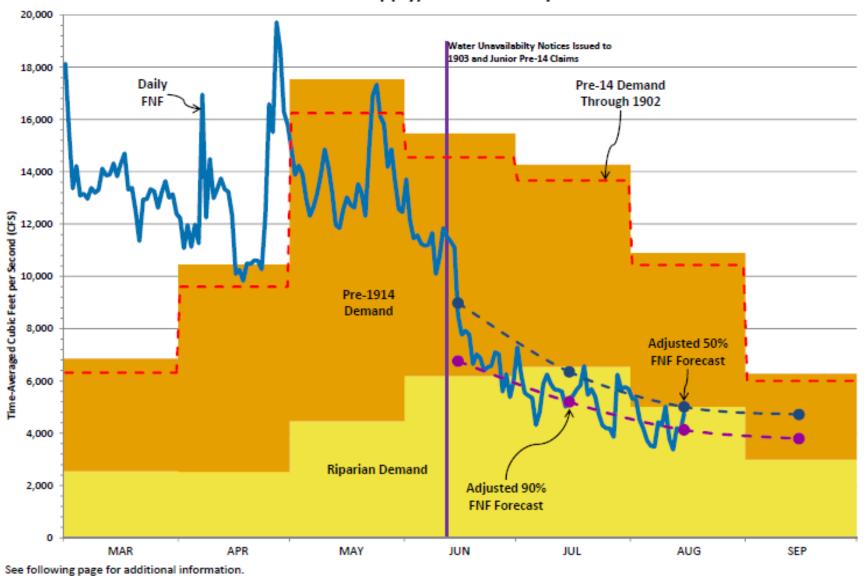
Drought

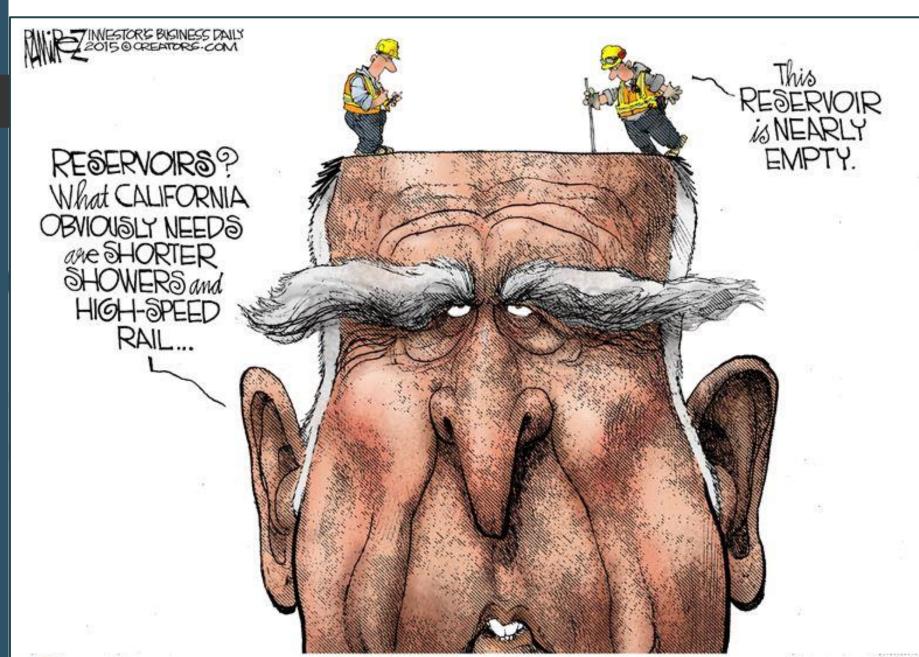


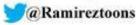
2015 Sacramento River Basin Supply/Demand



2015 Combined Sacramento/San Joaquin River Basin Senior Supply/Demand Analysis

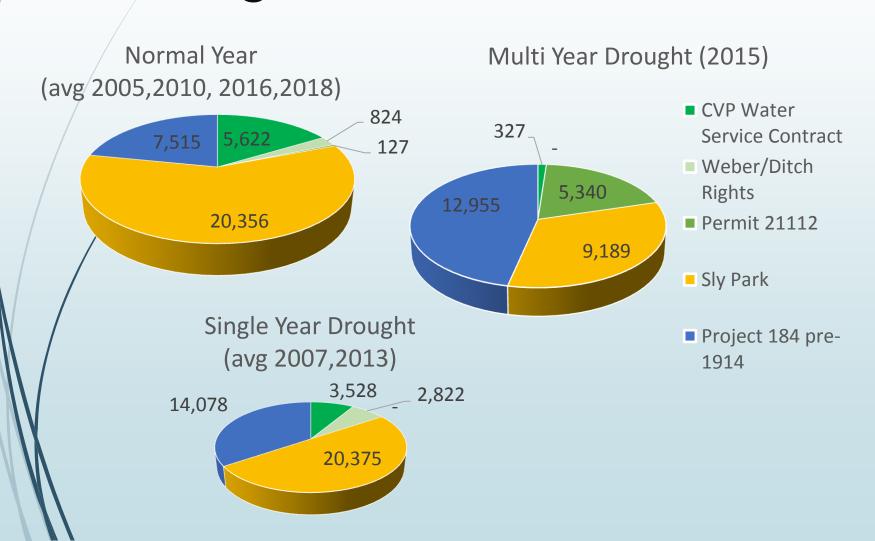






www.investors.com/cartoons

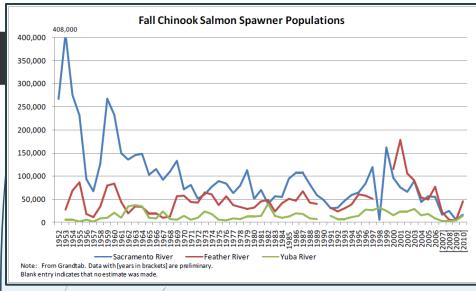
Operational Response to Drought

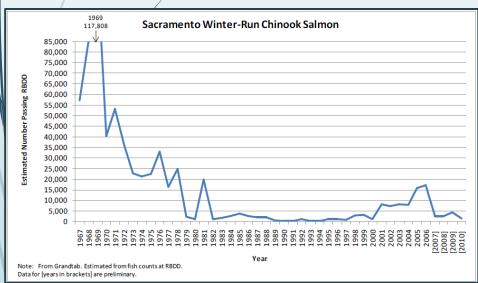


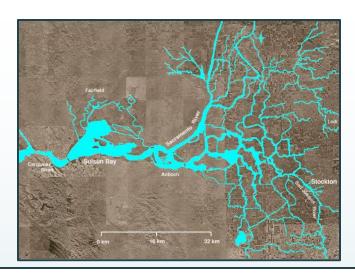


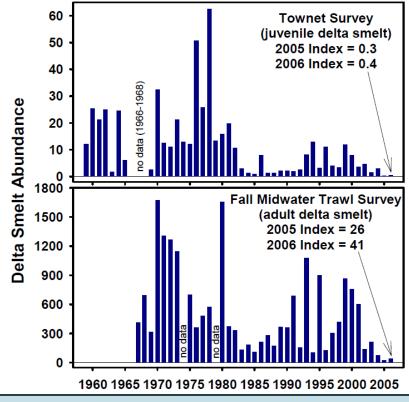
Bay-Delta











Bay-Delta

California Waterfix (tunnels project)

Bay-Delta Water Quality Control Plan Update

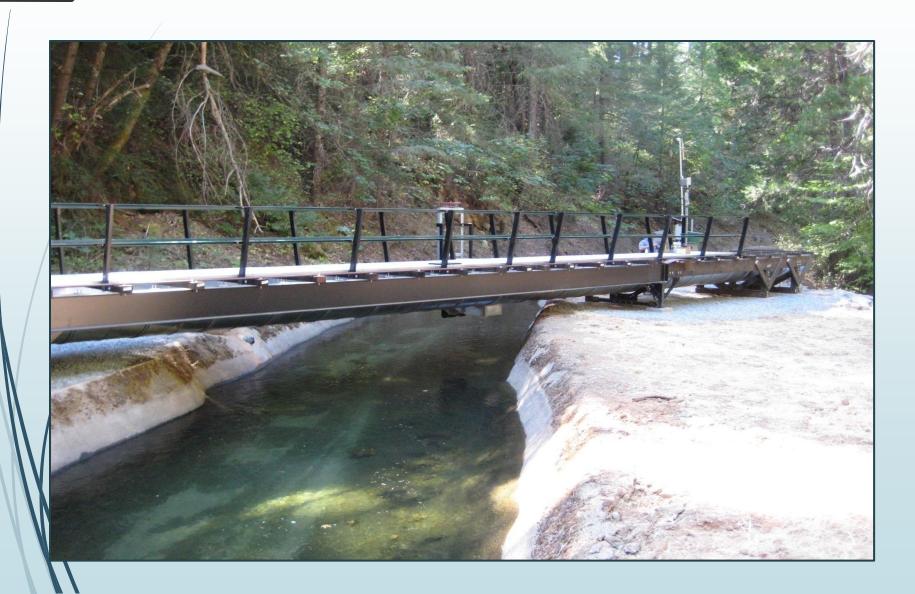


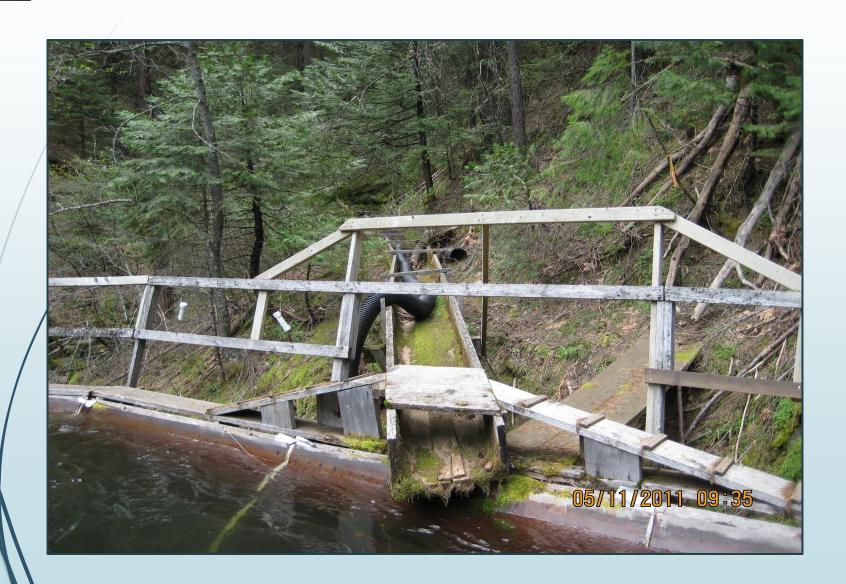


Bay-Delta Plan Update

- "[M]ost of the water users in the watershed other than DWR and Reclamation have not been directly responsible for implementing the Bay-Delta Plan and have had little to no limitations on their diversions of water to protect fish and wildlife beneficial uses. The proposed updates to the Bay-Delta Plan would bring all water users to the table with responsibility to protect fish and wildlife beneficial uses and contribute toward achieving the [unimpaired flow] objectives included in the Bay-Delta Plan in a biologically meaningful and equitable way."
- P.30 July 2018 Framework for the Sacramento/Delta Update to the Bay-Delta Plan

Regulatory Mandates















Opportunities: Transfers

- Voluntary sale of the right to use water from one user to another.
 - Transfers can be temporary or permanent
 - Transfers can be short-term (one-year or less) or long-term (more than one year)
 - Transferrable water normally made available through:
 - Cropland idling and crop shifting (conservation)
 - Groundwater substitution
 - Reservoir storage releases

- Transfers can be a significant source of one-time non-rate revenue
- Ex: 2015 approximately 2,500 acre-feet of water at \$700 per acre-foot yielding approximately \$1.8 million.
- 2018 approximately 1,500 acre-feet of water at \$350 per acre-foot yielding approximately \$556,000.

- → All transfers subject to the "No Injury" Rule:
 - ➤ Short-term transfers must not injure any legal user of water. Water Code §§ 1435(b)(2), 1702, 1706, 1725; Cal. Code Regs., tit. 23, §791(a).
 - ► Long-term transfers (more than one year) must not result in "substantial injury" to any legal user of water. Water Code § 1736.
 - No injury rule applies to permitted and licensed rights (Water Code § 1702) and pre-1914 rights (§1706).
- ➤ All transfers must avoid significant impacts to instream beneficial uses (i.e. fish and aquatic resources). E.g. §§ 1435(b)(3),1701.2(c) 1725.

- Transfers must involve "wet water" not just paper water.
 - A water right is a property right; but title to the property does not vest until the right is perfected through beneficial use of water. Silver Lake Power & Irr. Co. v. Los Angeles (1917) 176 Cal. 96, 101-102.
 - Until perfected, rights are inchoate, because title has not vested. This is referred to as "paper water."

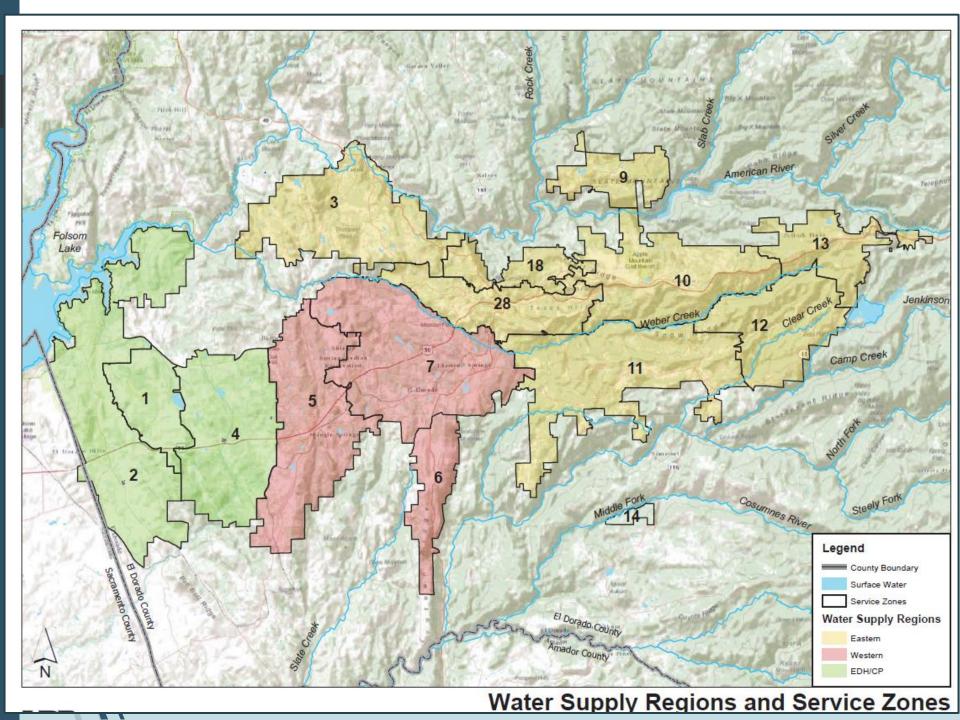
- Use of others' facilities requires permission
 - Ex: Delivering water to Folsom Reservoir for transfer to another entity requires a Warren Act Contract.
 - Ex: Moving water through the Delta, using the Jones Pumping Plant or the Banks Pumping Plant, requires a conveyance agreement with BOR or DWR respectively.
- When BOR is involved, either through a Warren Act Contract, or conveyance agreement, it must comply with the National Environmental Policy Act (NEPA).
- When transfer involves releases of stored water, must demonstrate that releases will not harm downstream users. Normally done by negotiate a re-fill agreement.

- Statutory Protections for water transfers:
 - Water put to beneficial use through a transfer not subject to forfeiture. Water Code §§ 1014, 1017.
 - "At the conclusion of the term of a water transfer agreement, all rights in, and the use of, the water subject to the agreement revert back to the transferor." Water Code § 1016(a).

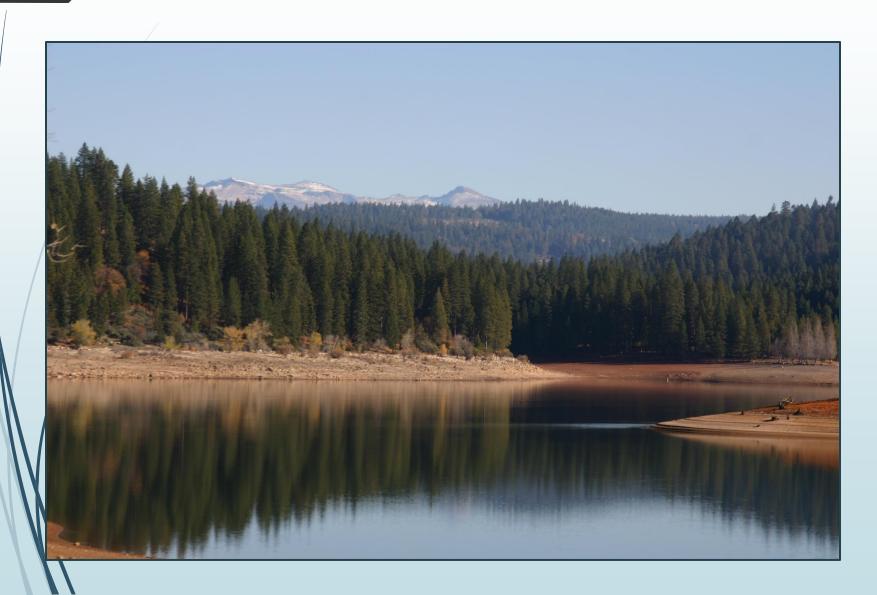
Permit 21112

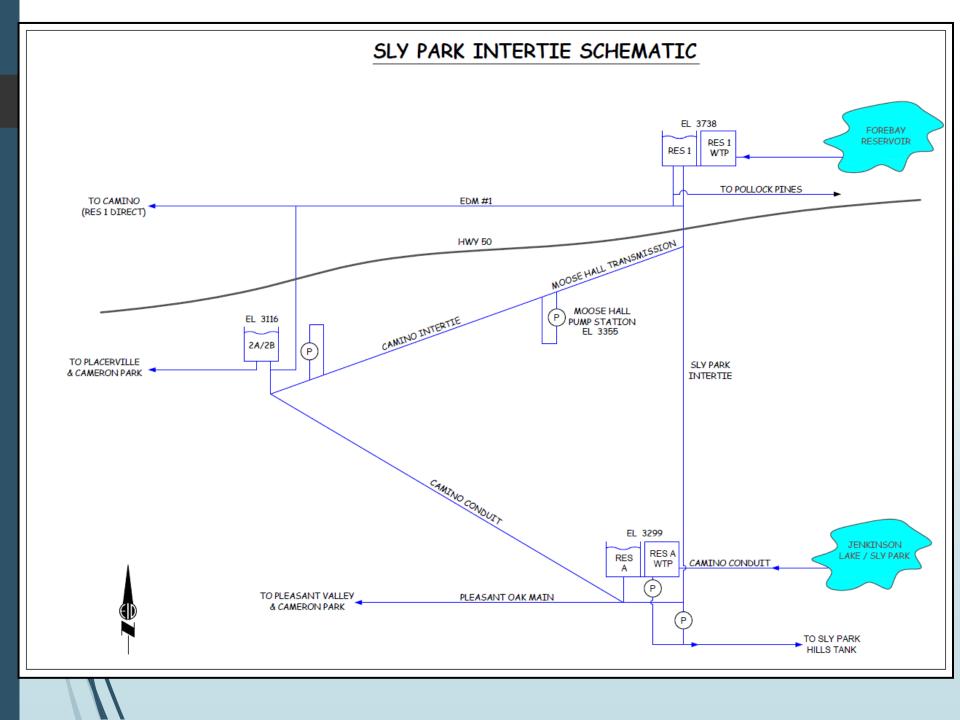
District currently has approximately 20,610 AF of supply from Folsom Reservoir available for El Dorado Hills (CVP Contract for 7,550, Ditch/Weber Contract for 4,560 and Permit 21112 Contract for 8,500)



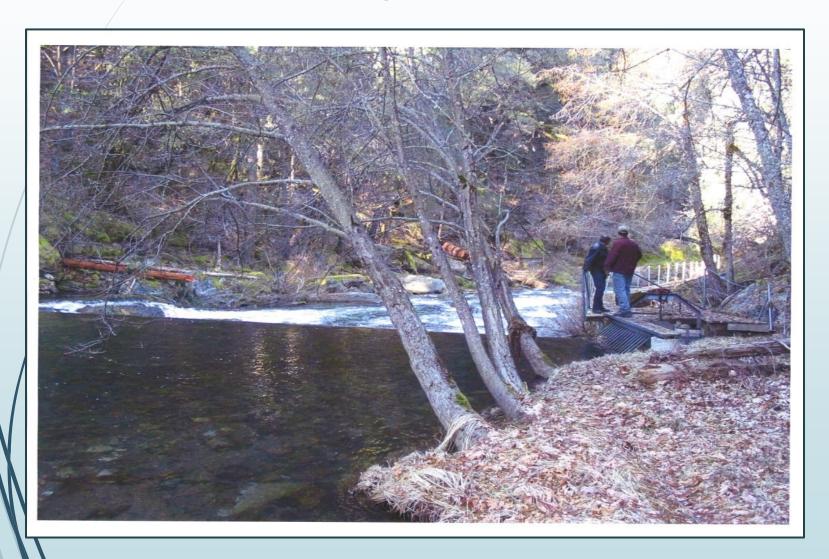


Sly Park Intertie

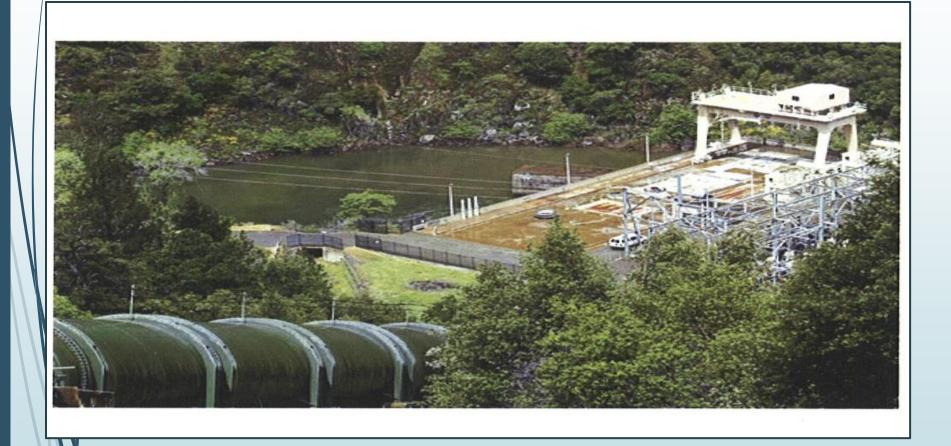


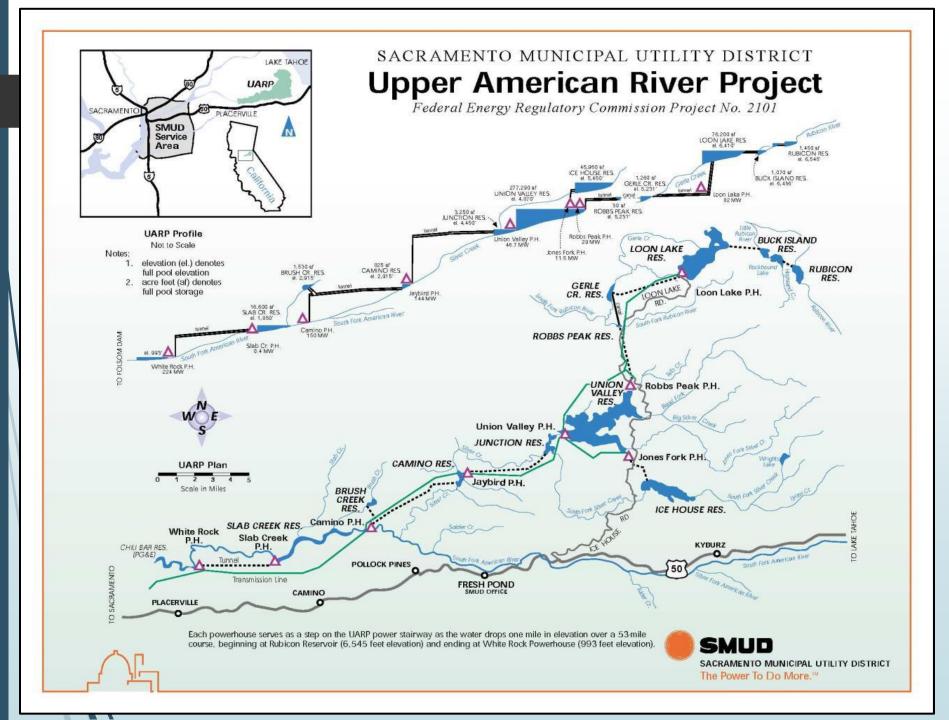


North Fork Cosumnes Diversion – Crawford Ditch



SMUD Water





Questions?