

## **Board of Directors Meeting Agenda**

FEBRUARY 28, 2019

9:00 AM

VISALIA CONVENTION CENTER – BALLROOM CD  
303 E. ACEQUIA, VISALIA, CA 93291

At the discretion of the Board of Directors, all items appearing on this agenda, whether or not expressly listed for action may be subject to action by the Board. The order of agenda items is subject to change.

- 1. CALL TO ORDER/ROLL CALL – (TANTAU)**
- 2. APPROVAL OF THE AGENDA – (TANTAU)**
- 3. PUBLIC COMMENT / PUBLIC PRESENTATIONS – (TANTAU)**

Public comment is welcome at this time on any matter within the jurisdiction of the Board that is not on the agenda. Under the State's open meeting law - the Brown Act - no action may be taken on any item not on the agenda. Public comment on items on the agenda will be allowed at the time the Board considers the item.

- 4. CONSENT CALENDAR – (TANTAU)**

The following routine matters will be acted upon by one vote, unless a Board Member requests separate consideration of the item.

- A. Approval of the Minutes – Board of Directors meeting of January 31, 2019.

- 5. ACTION ITEMS (60 MINUTES)**

- A. Pay the Bills for February 2019 and accept Cash Activity Reports. (Willard)
- B. Adopt Resolution No. 2019-01 – Authorizing Change in Bank Account Signatures. (Willard)
- C. Jones Pumping Plant Rewind – Provide Direction to the FWA representative on San Luis Delta Mendota Water Authority Board on Strategies and Cost Allocation on Rewinds to Pumps. (Willard, DeFlitch)
- D. Professional Services Agreement (PSA) Continuation with KAN Ventures for Services Provided by Austin Ewell. (Phillips, Willard)
- E. Approval of Support for Proposed Legislation: ACA 3 and SB 62, 487, and 559. (Biering)
- F. Approval of Professional Services Agreement with Ottemoeller Consulting Services, LLC. (Payne)

- 6. SAN JOAQUIN VALLEY BLUEPRINT PROJECT - PRESENTATION BY MBK ENGINEERS - (PAYNE) (45 MINUTES)**
- 7. CHIEF OPERATING OFFICER REPORT- (DEFLITCH) (45 MINUTES)**
  - A. O&M Report Highlights – Review January end-of-the-month report.
  - B. Update on Title Transfer.
  - C. Update on Recommendation from the Executive Committee to Hold a Workshop on the Friant-Kern Canal OM&R Cost and Exchange Supply Cost Recovery Methodology Policy to Address the Methodology for Inclusion of RWA and URF Water.
  - D. Subsidence Correction Project Updates.
    - 1) Immediate Repair Work.
    - 2) Long-Term Subsidence Correction Project. (Stantec)
  - E. Discussion Regarding Establishment of an Ad Hoc Committee of Friant Division Agencies for Long-Term Subsidence Correction Project.
- 8. CHIEF FINANCIAL OFFICER REPORT (WILLARD) (15 MINUTES)**
  - A. FY19 Budget Status and Current Projections. (Phillips, Willard)
  - B. Fiscal Year-End Audit Status Report.
- 9. DIRECTOR OF WATER POLICY REPORT - (PAYNE) (15 MINUTES)**
  - A. Update on Activities of the Temperance Flat Reservoir MOU, MOA and JPA Groups.
  - B. Update on the Technical Memorandum being Produced at the Request of SGMA Agencies.
  - C. Update on ASO Preparations for Surveys in 2019.
- 10. CVP OPERATIONS REPORT - (BUREAU OF RECLAMATION) (10 MINUTES)**
- 11. GOVERNMENT AFFAIRS AND COMMUNICATIONS REPORT - (BIERING) (15 MINUTES)**
  - A. Update on Federal and State Legislation and Communications Activities.
- 12. GENERAL COUNSEL REPORT– (DAVIS) (5 MINUTES)**
- 13. CHIEF EXECUTIVE OFFICER REPORT - (PHILLIPS) (10 MINUTES)**
  - A. Debrief of Washington D.C. Trip and Family Farm Alliance Conference.
  - B. Other items of interest to the Membership.



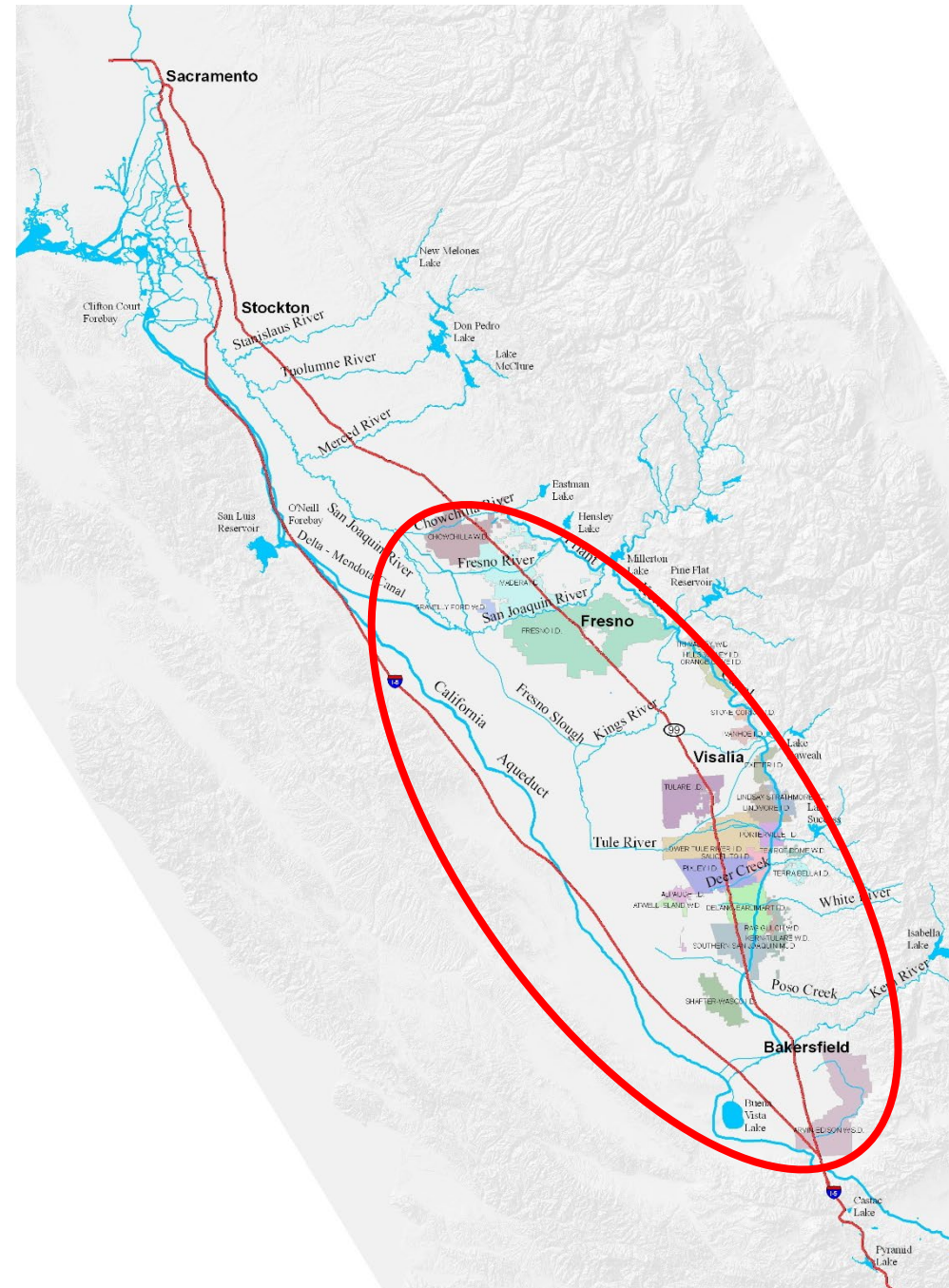
# Sustainability Blueprint

February 28, 2019



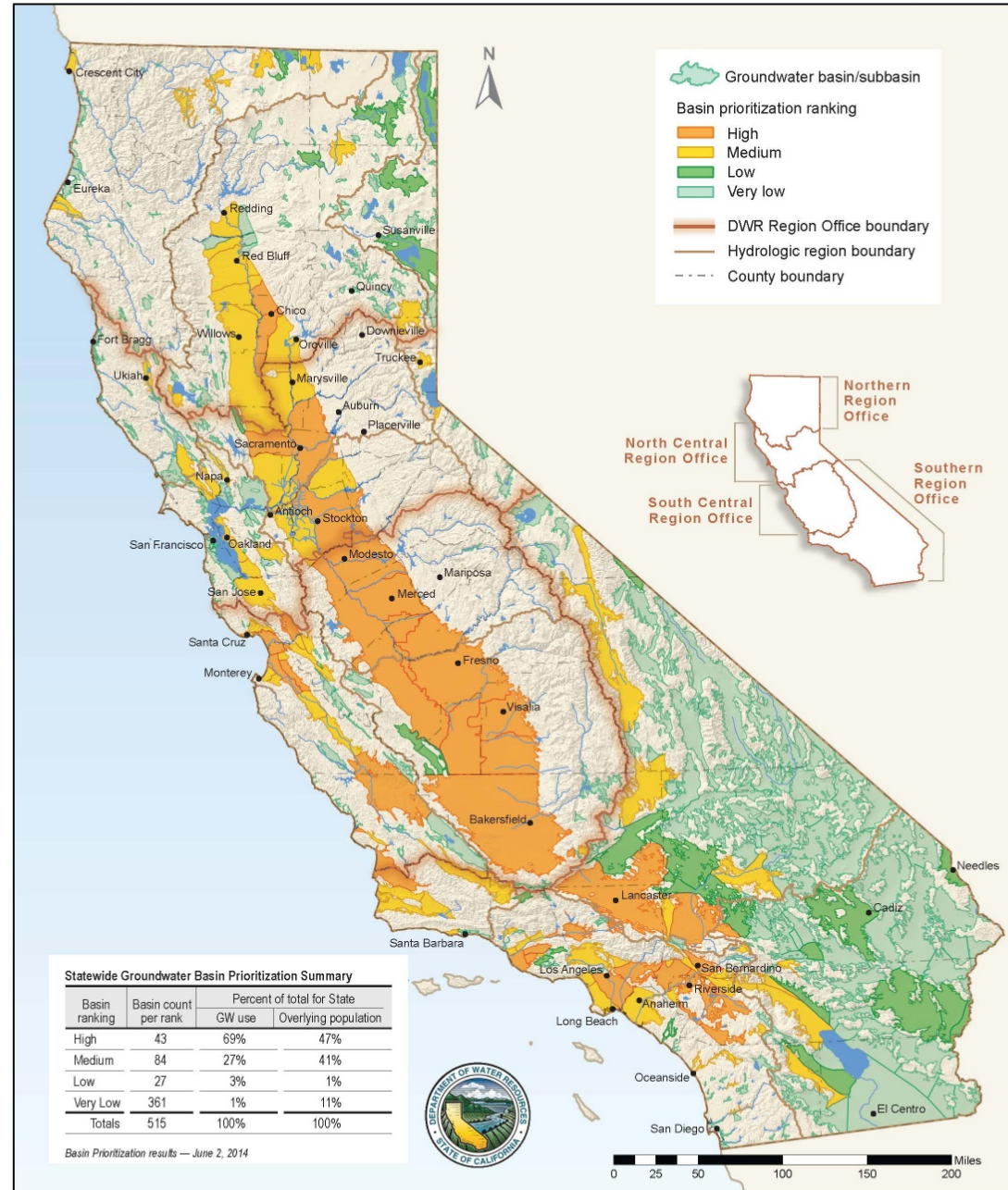
# Sustainability Objective

- “Demand” Defined
- Regional Groundwater Overdraft
  - 2 MAF per year



# Sustainable Groundwater Need

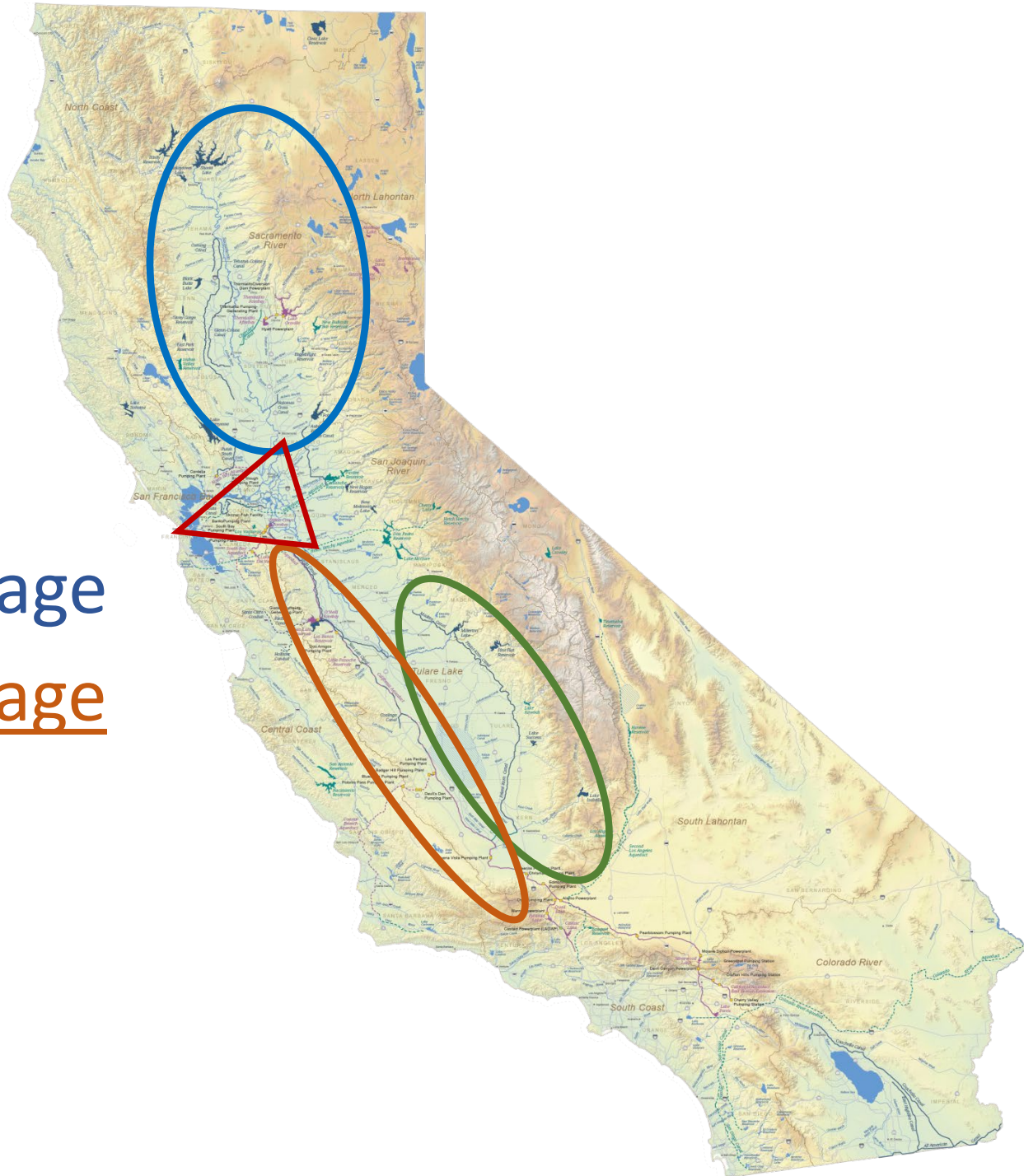
## CASGEM Groundwater Basin Prioritization





# Supply Options

- Local Projects
- Delta Conveyance
- North of Delta Storage
- South of Delta Storage



# Supply Options

## Local Projects

- Temperance flat
- Mid-Valley Canal

## Delta Conveyance

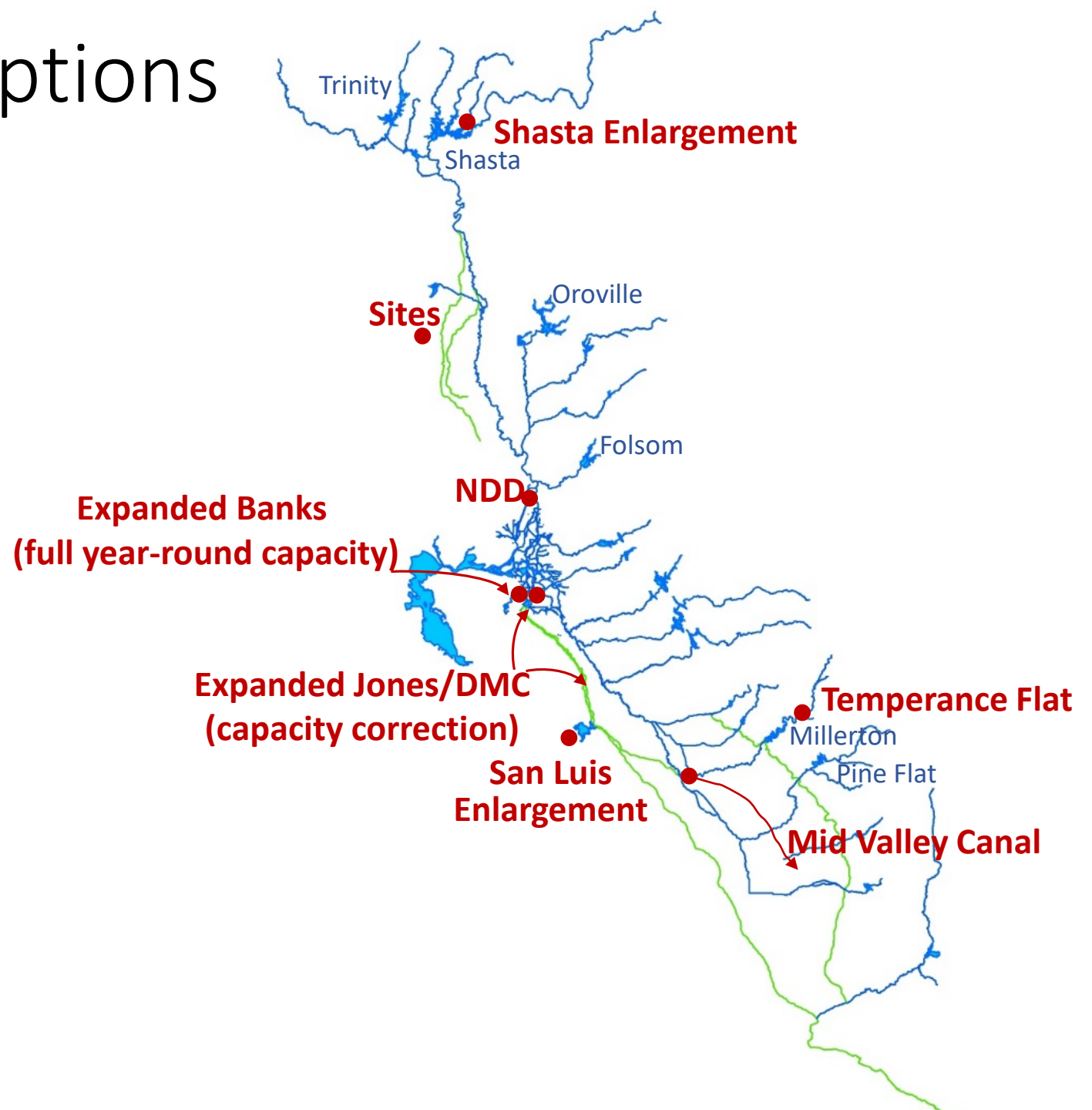
- JPOD – export sharing
- Regulatory
- Expanded Jones/DMC
  - Mid-Valley Canal
- Expanded Banks
- NDD

## North of Delta Storage

- Shasta Enlargement
- Sites

## South of Delta Storage

- Groundwater Banking
- San Luis Enlargement



# Local Supply Options

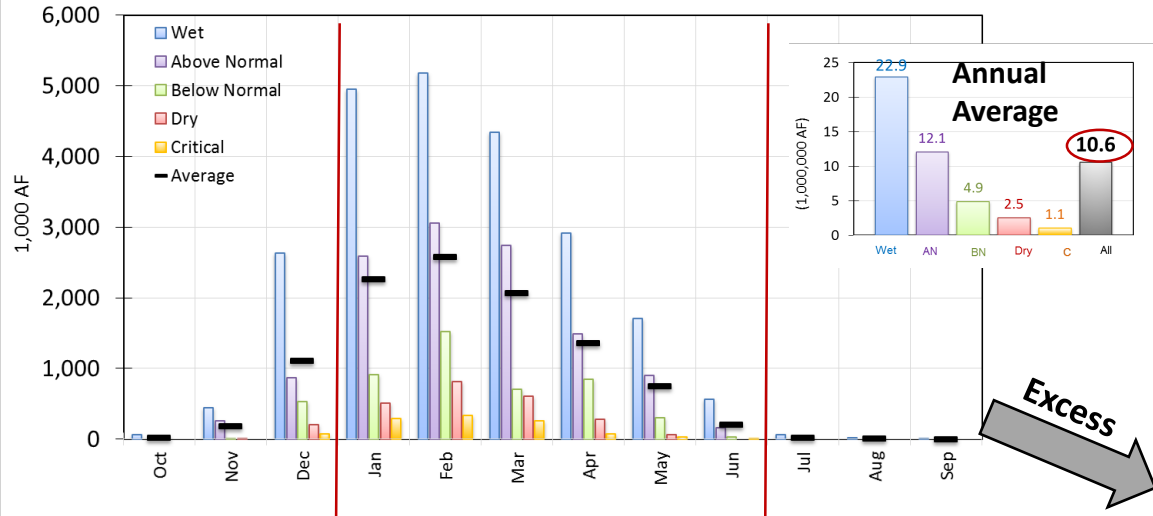
- Temperance Flat
  - Local
  - Integration
- Mid-Valley Canal
- Groundwater Banking



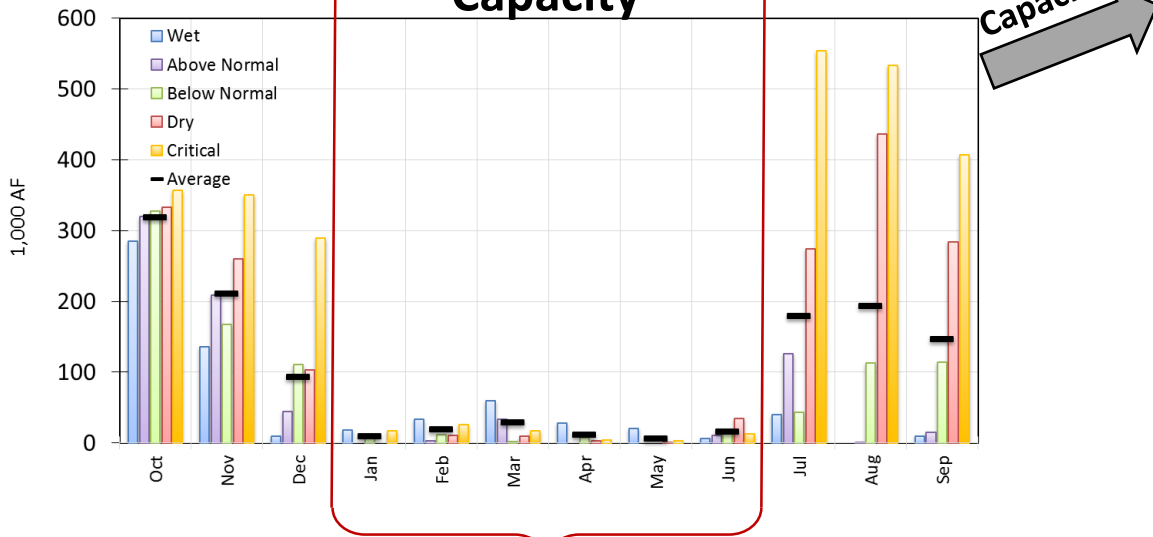
# Delta Supply Options

## Current Delta Operations

### Delta Excess

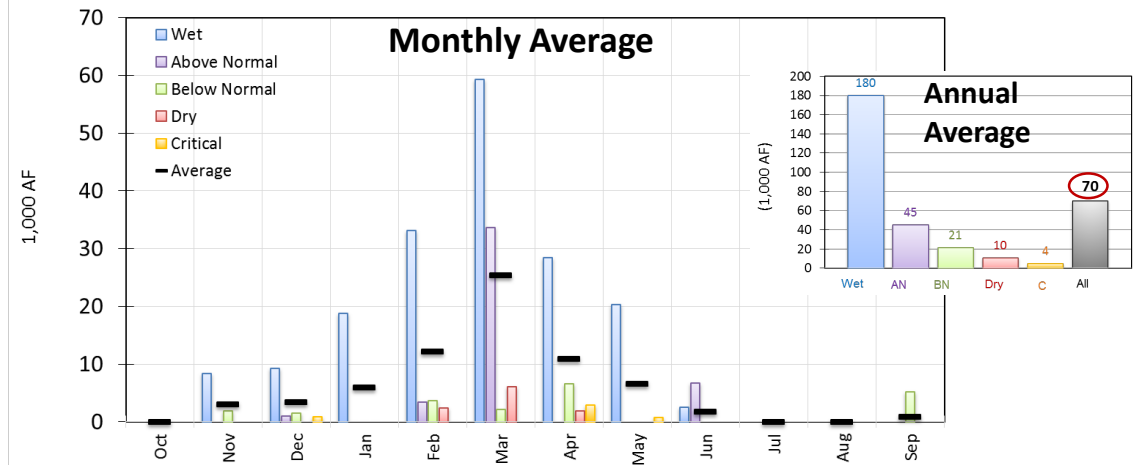


### Available Export Capacity



Exports are restricted from January through June

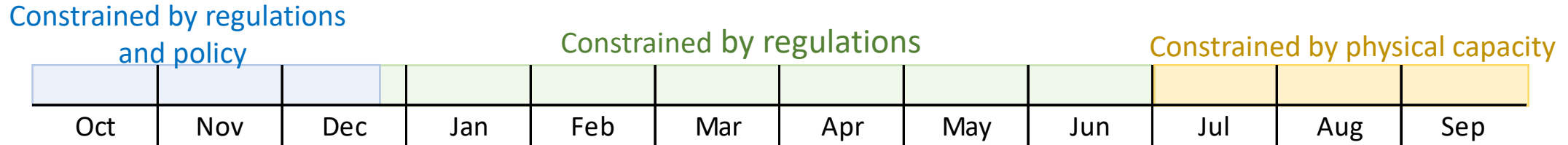
### Available Delta Excess



### Key Points

- Exports are constrained during most Excess conditions
- When both excess and capacity are available then South of Delta storage is "full" and groundwater "puts" are maximized
- Need increased south of Delta storage during these times

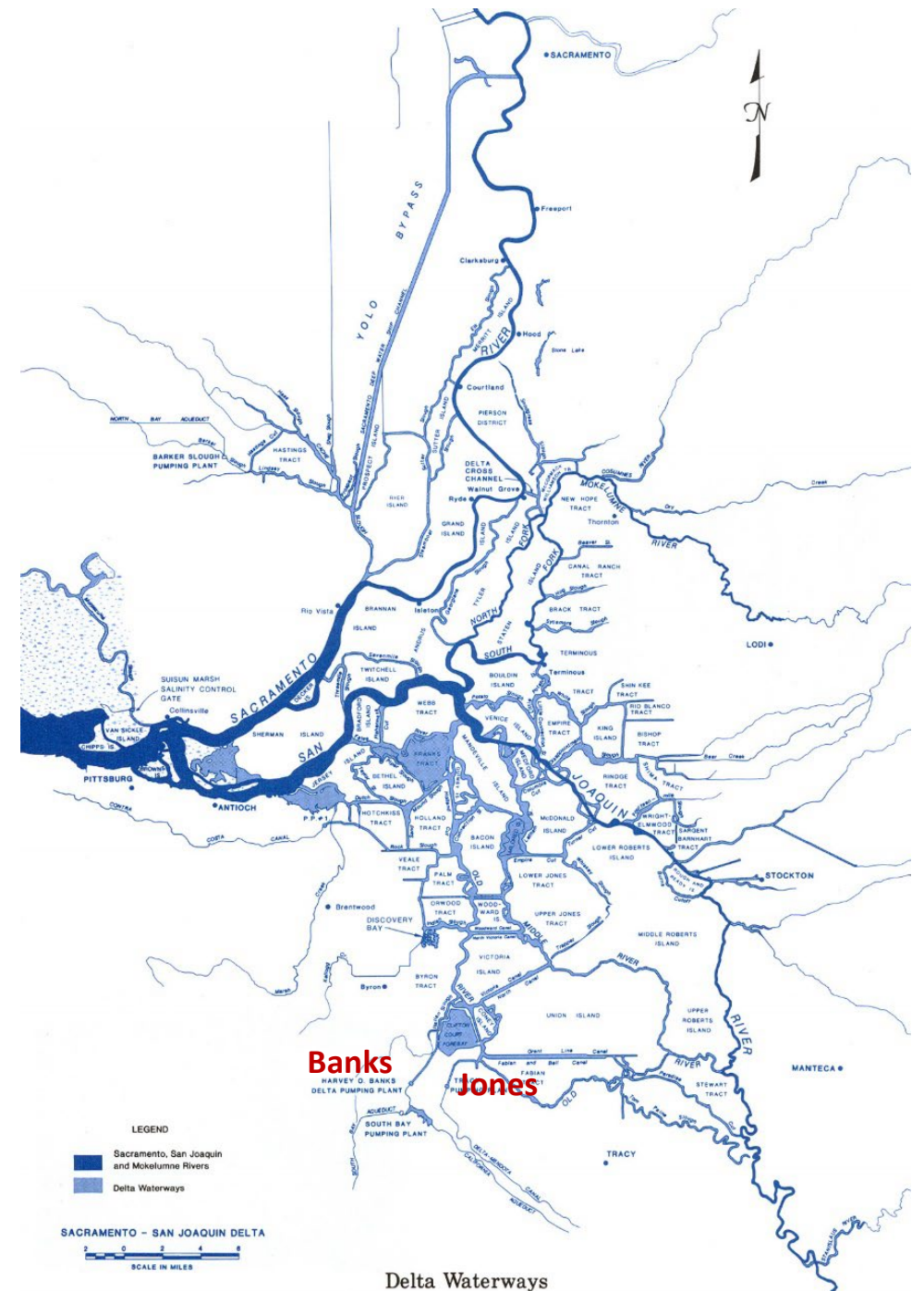
# Expanded Delta Diversion Capacity



- **January through June**
  - Minimal existing available capacity due to regulation
  - Diversion of Excess flow
- **July through September**
  - Available capacity in dryer years only
  - Re-diversion of stored flow
- **October through December**
  - Available capacity in all but wettest years
  - Diversion of Excess flow and re-diversion of stored flow

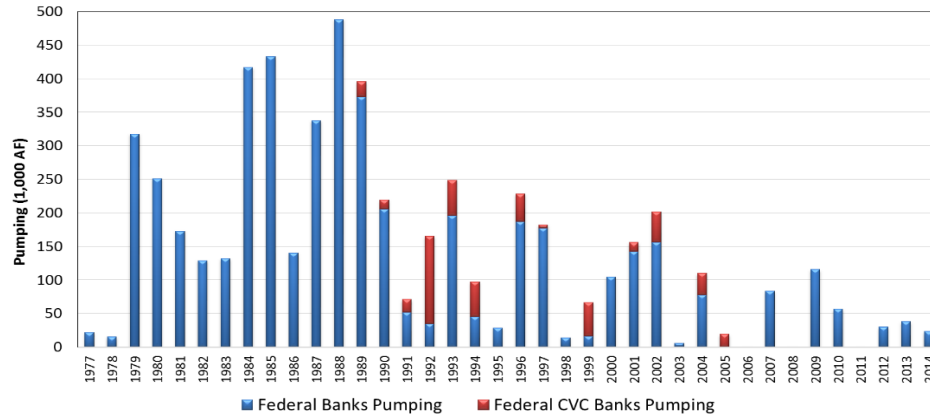
# Delta Conveyance

- JPOD – export sharing
  - New COA 10(b)
  - Other
- Regulatory Changes
  - ROC - LTO
- Expanded Jones/DMC
  - Mid-Valley Canal
- Expanded Banks
- NDD

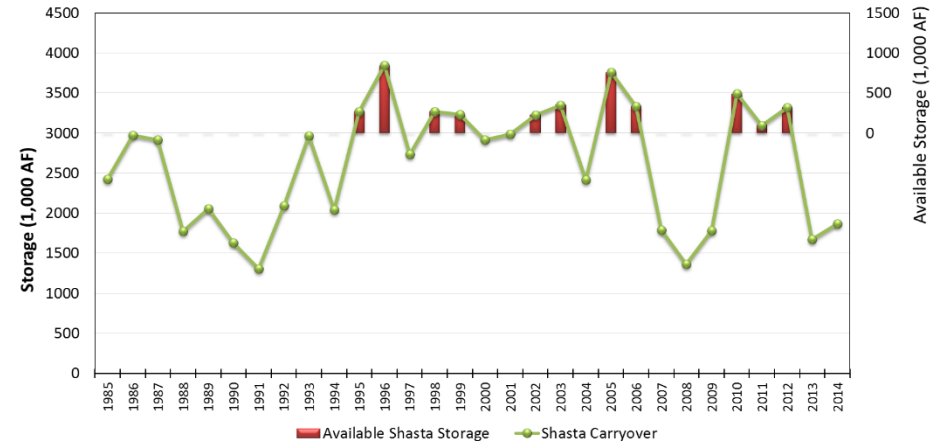


# Expanded Export Sharing (JPOD) - New COA 10(b)

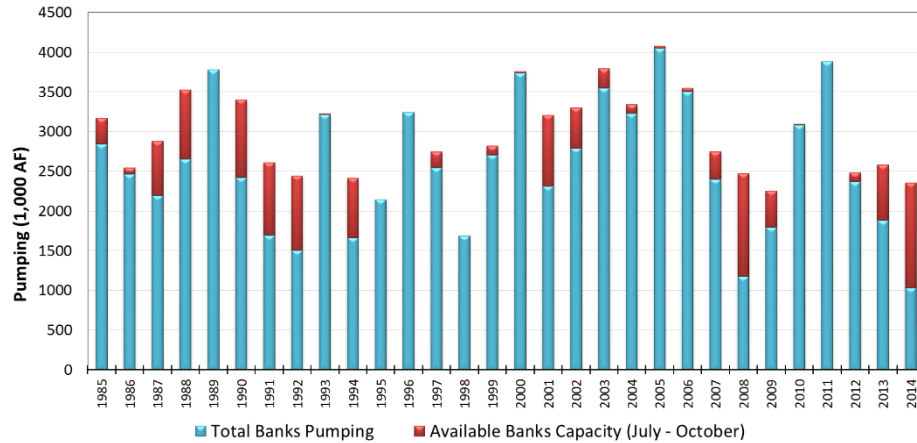
## Historical JPOD - Federal Pumping and Banks PP



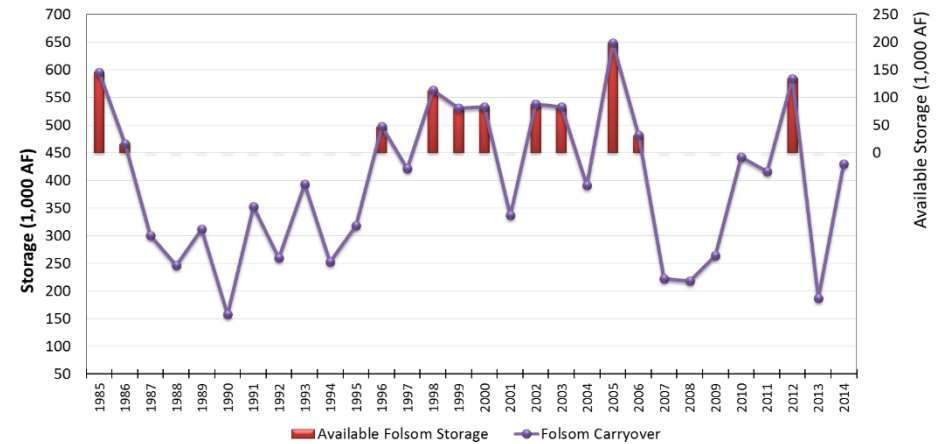
## Historical Shasta Carryover and Potential Drawdown



## Banks Pumping and Available Capacity



## Historical Folsom Carryover and Potential Drawdown



***JPOD may occur when there is unused export capacity and available upstream storage***

# Delta Conveyance Options

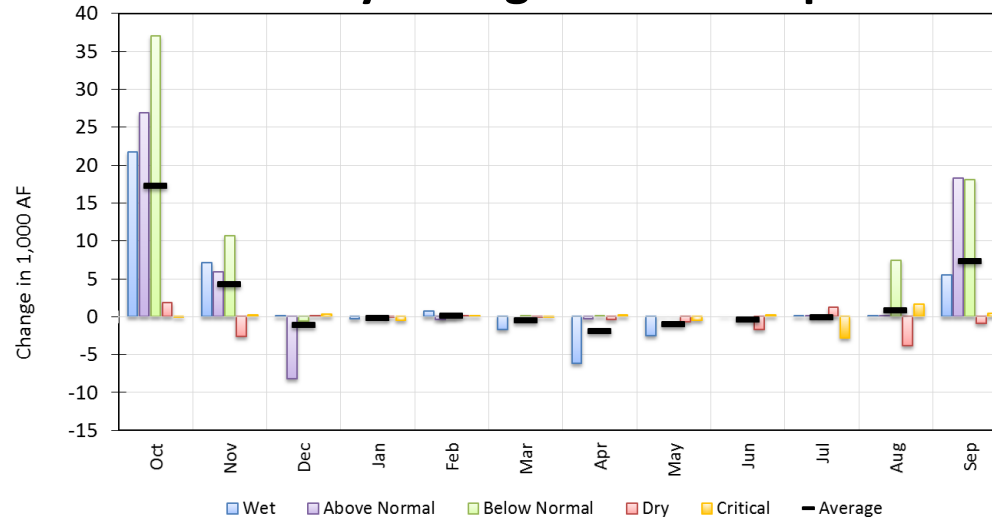
## JPOD

- New COA 10(b)

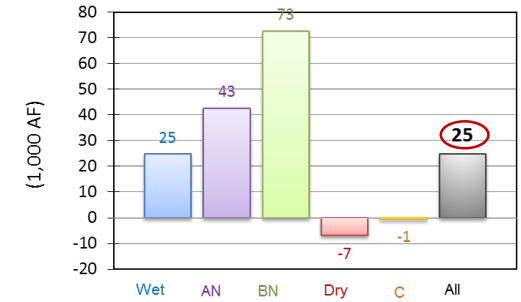
### Key Points:

- *Potential to increase export when CVP carryover storage is higher*
- *Potential for increase use of Banks if CVP reservoirs may be drawn down to lower levels*

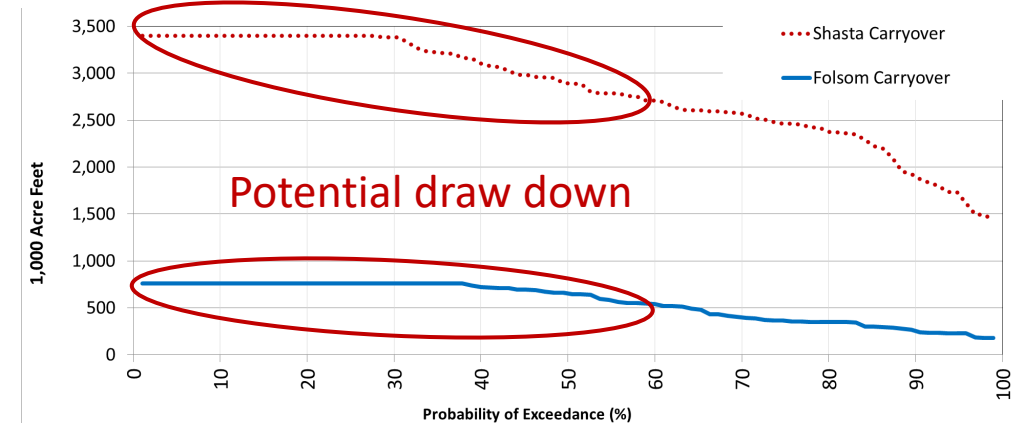
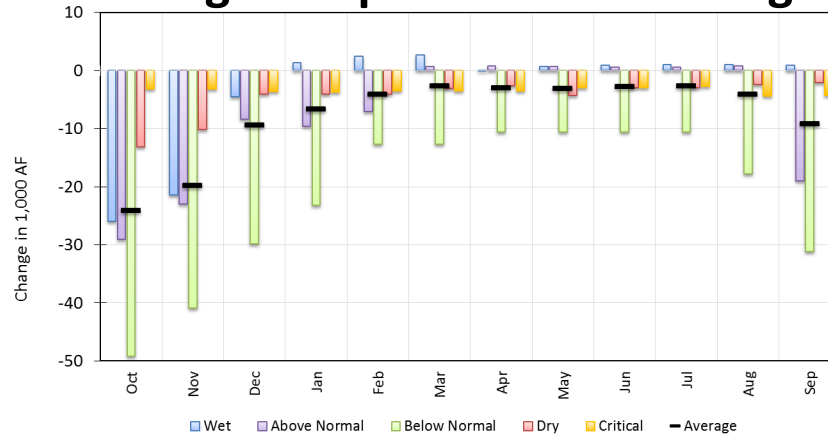
### Monthly Change in Delta Export



### Annual Change



### Change in Upstream CVP Storage



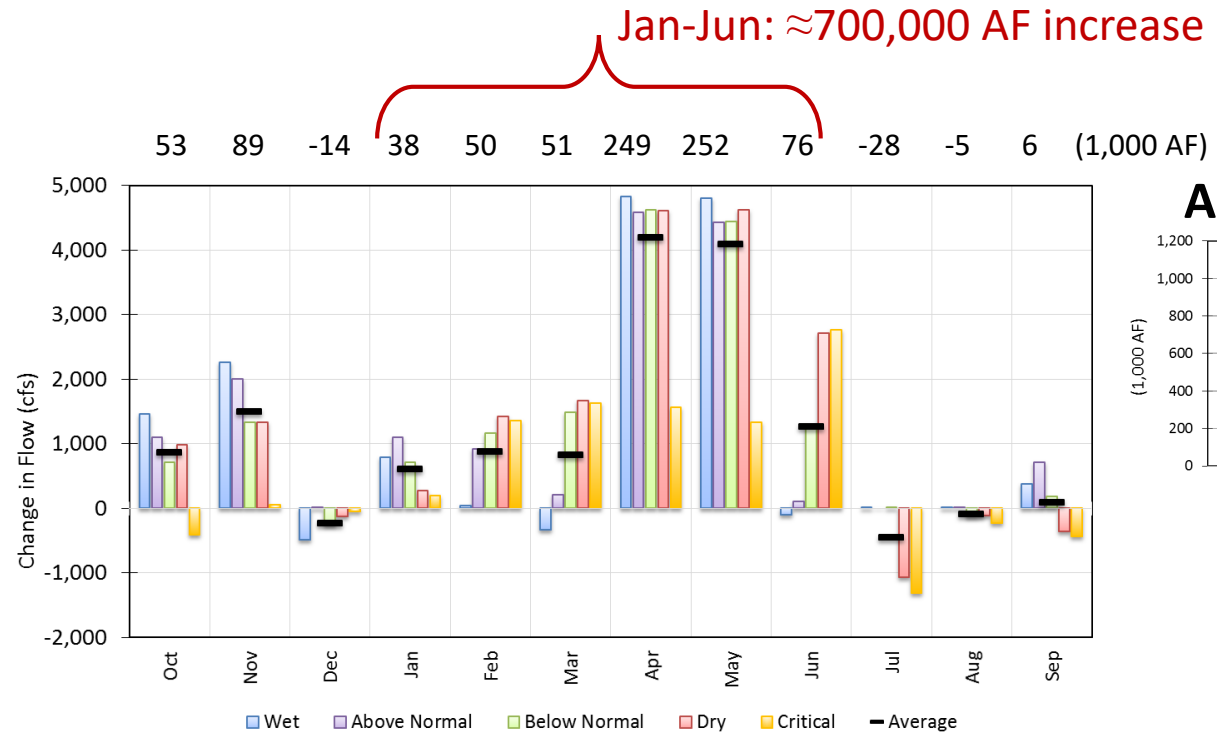


# Delta Conveyance Options

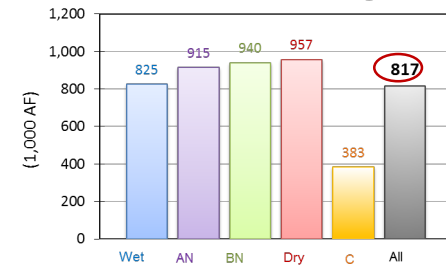
## Change in Regulation

- ROC – LTO
  - Change in Export Restrictions
    - OMR
    - SJR I/E
  - Change in Fall X2

Monthly Change in Delta Export



Annual Change



### Key Points:

- **Relaxation of Export constraints (OMR, SJR I/E) allows for diversion of Delta excess of over 700 TAF**
- **Removal of Fall X2 increases Fall export and increases upstream storage**

*Note: Reclamation modeling shows lower export change ( $\approx 600$  TAF) and greater upstream storage increase, discretionary operations affect supply*

# Delta Conveyance Options

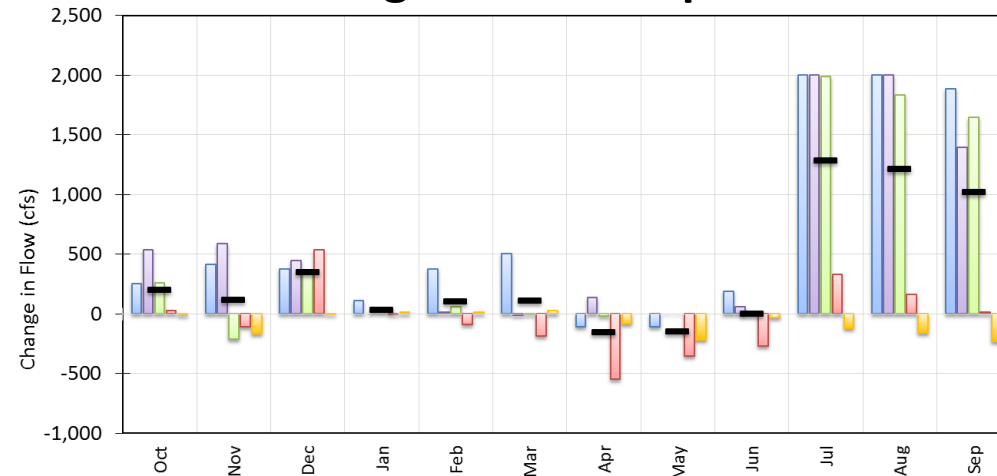
## Expanded Jones/DMC

- Existing versus model
- 1000 cfs
- 2000 cfs
- With Mid-Valley Canal
- With Mid-Valley and GW banking

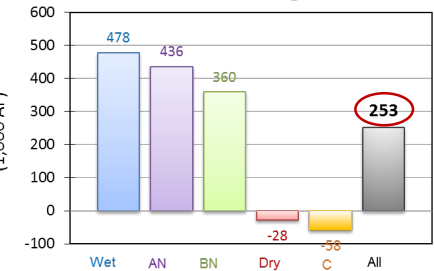
### Key Points

- *Increase export is mainly Jul-Sep*
- *Requires conveyance of stored water*
- *Reduced upstream carryover*
- *Critical year storage “protected”*

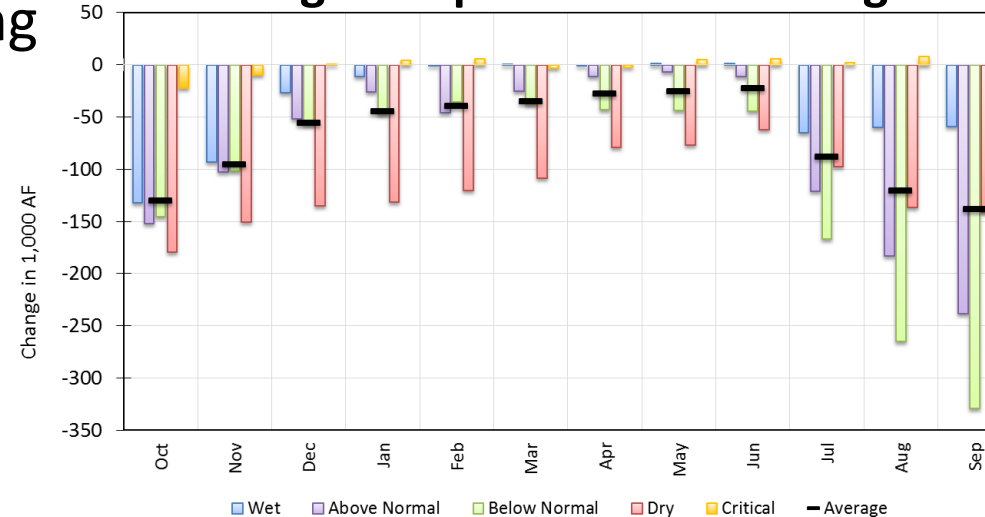
### Change in Delta Export



### Annual Change

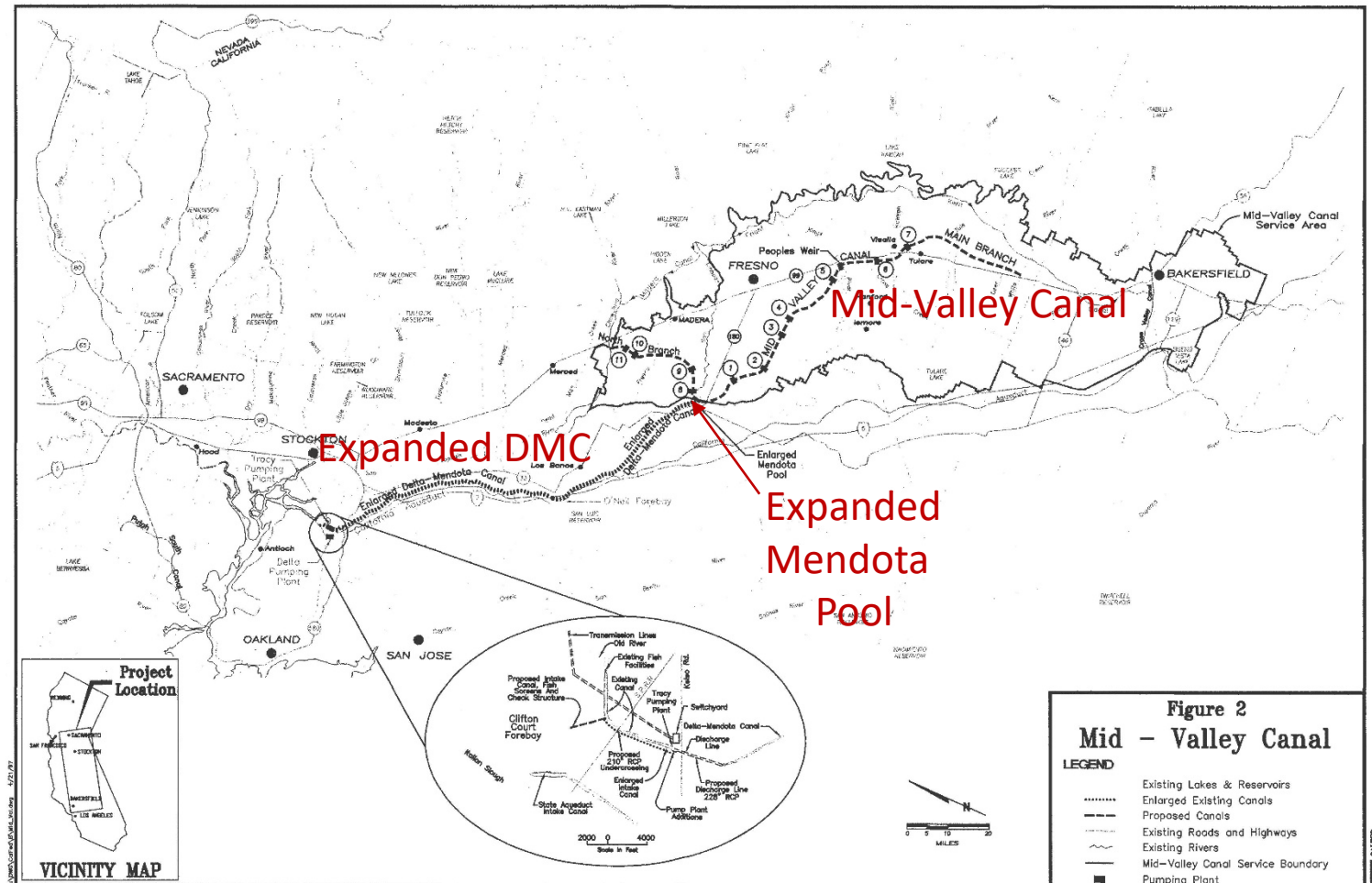


### Change in Upstream CVP Storage



# Mid – Valley Canal Features

- Expanded Jones Capacity
- Expanded DMC Capacity
- Expanded Mendota Pool
- Canal from Mendota Pool to about Delano



# Delta Conveyance Options

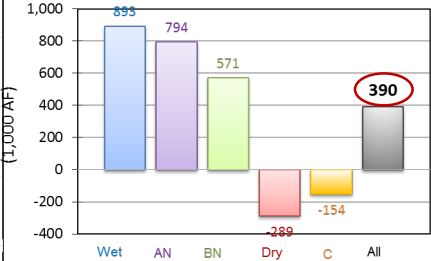
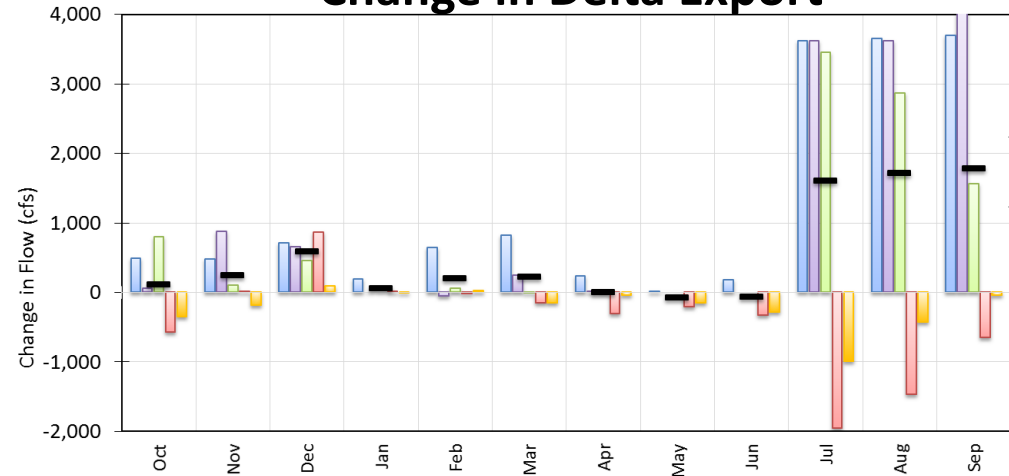
## Expanded Banks

- 8,500 cfs
- 10,300 cfs
- JPOD – export sharing
- GW Banks

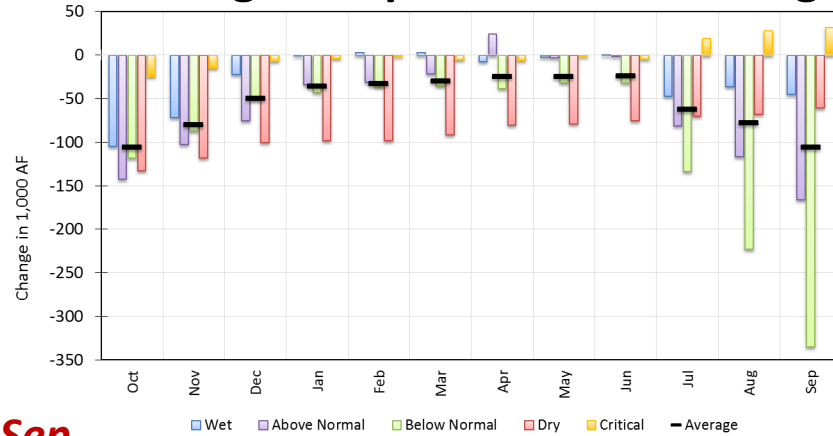
### Key Points

- *Increase export is mainly Jul-Sep*
- *Requires conveyance of stored water*
- *Reduced upstream carryover*
- *Critical year storage “protected”*

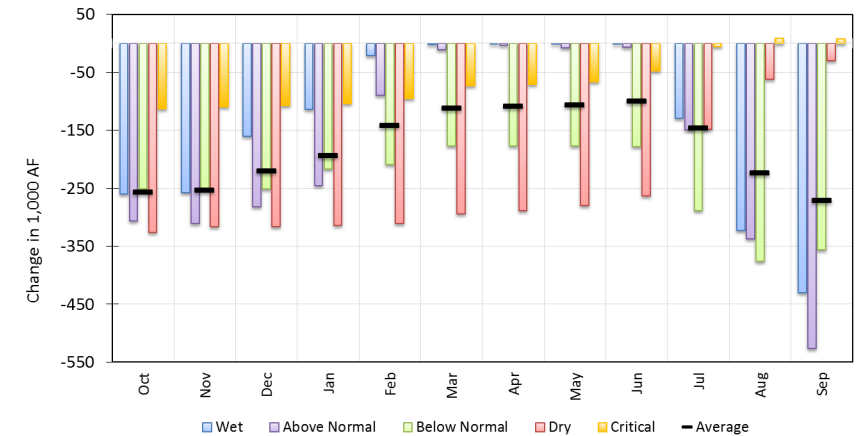
### Change in Delta Export



### Change in Upstream CVP Storage



### Change in Upstream SWP Storage



# Delta Conveyance Options

## North Delta Diversion (NDD)

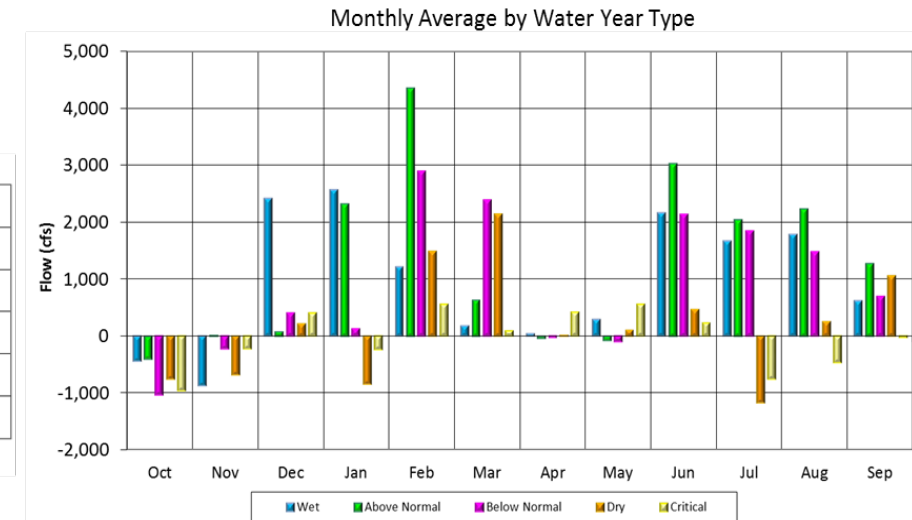
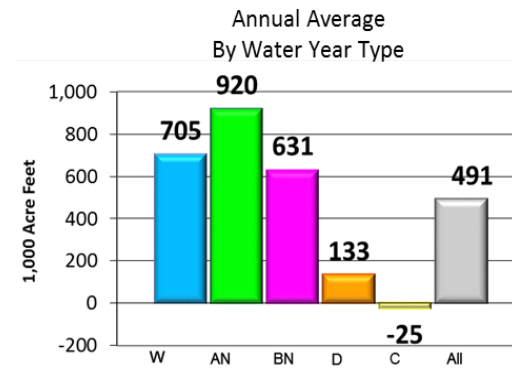
## California WaterFix

- 9,000 cfs Tunnels
- Banks at 10,300 cfs
- JPOD – export sharing

### Key Points

- *Increase export during January through March*
- *Increase from June through September requires conveyance of stored water*
- *Reduced upstream carryover*

## Change in Delta Export



*From SWRCB CWF Hearing*



# North of Delta Storage

- Existing storage operations
  - JPOD – export sharing
    - Changed operations of existing reservoirs
- Shasta Enlargement
  - 630,000 AF
- Sites – *Not yet addressed*
  - 1,800,000 AF

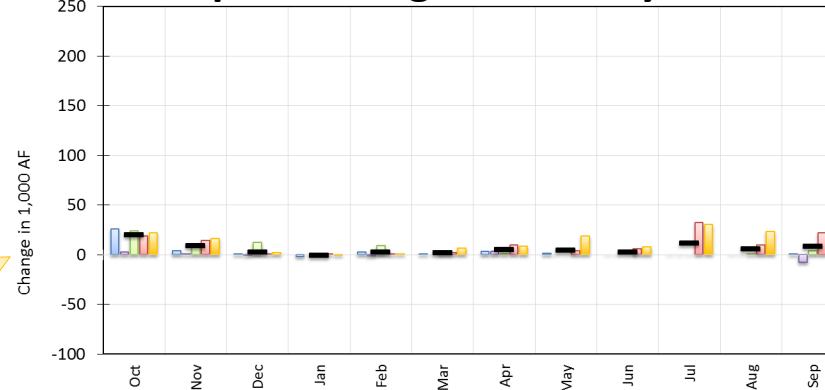


# North of Delta Storage Options

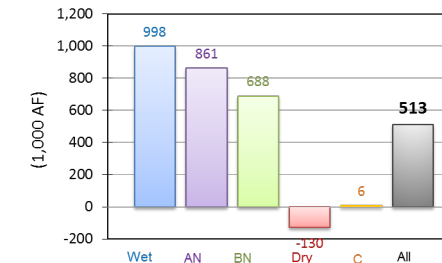
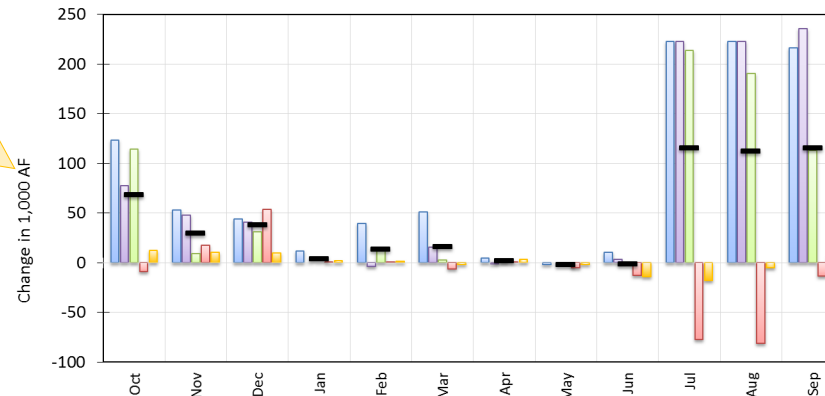
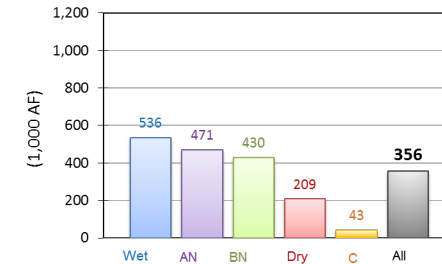
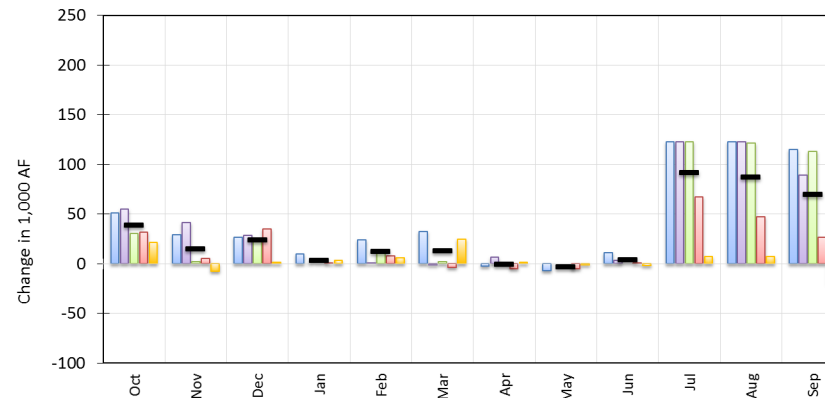
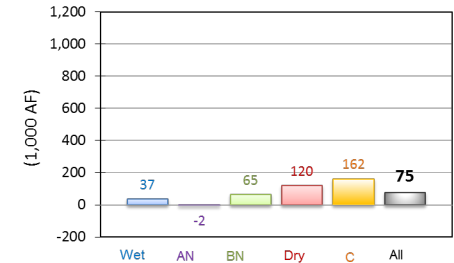
## Shasta Enlargement

- Existing Export capability
- Expanded Jones/DMC
  - Mid-valley + GW banks
- Expanded Banks 10,300 cfs
  - JPOD
  - GW banks

Export Change - Monthly



Export Change Annual



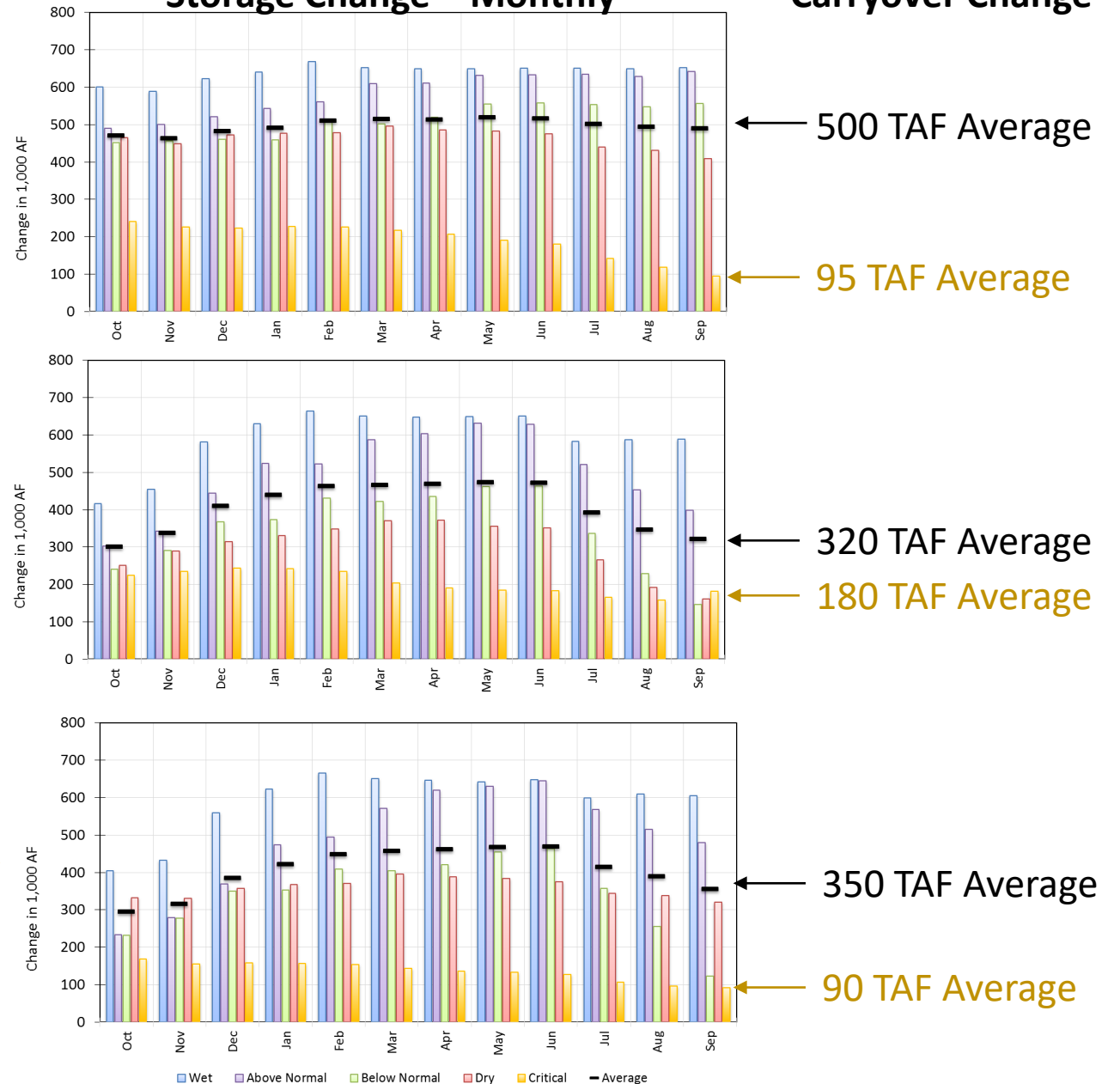
Legend: Wet (blue), Above Normal (purple), Below Normal (green), Dry (red), Critical (yellow), Average (black line)

# North of Delta Storage Options

## Shasta Enlargement

- Existing Export capability
- Expanded Jones/DMC
  - Mid-valley + GW banks
- Expanded Banks 10,300 cfs
  - JPOD
  - GW banks

Trinity, Shasta, Folsom  
Storage Change – Monthly



# South of Delta Storage Options

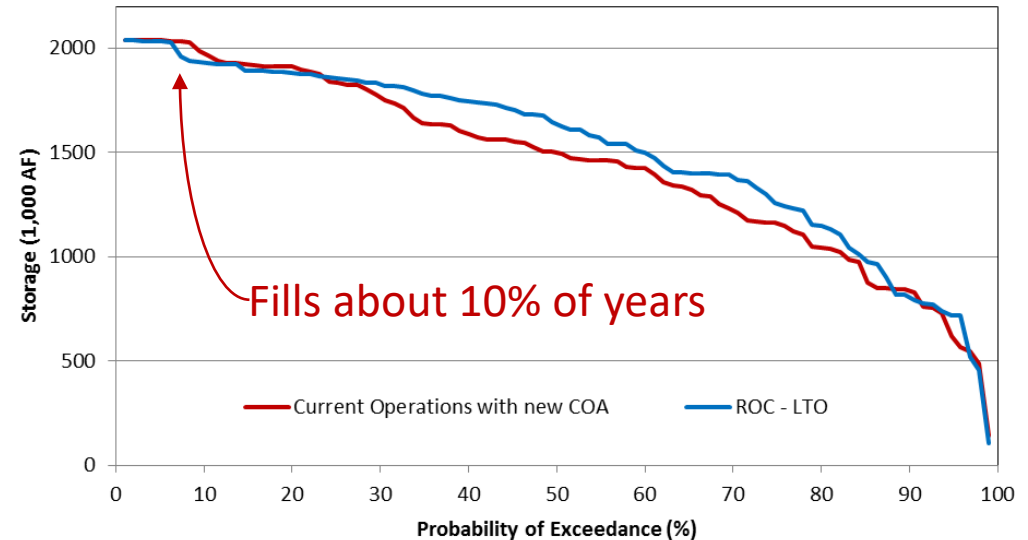
## San Luis Enlargement

- 130 TAF enlargement
  - Existing Export capability
    - Yield = 8 TAF
  - CWF
    - Yield = 30 TAF

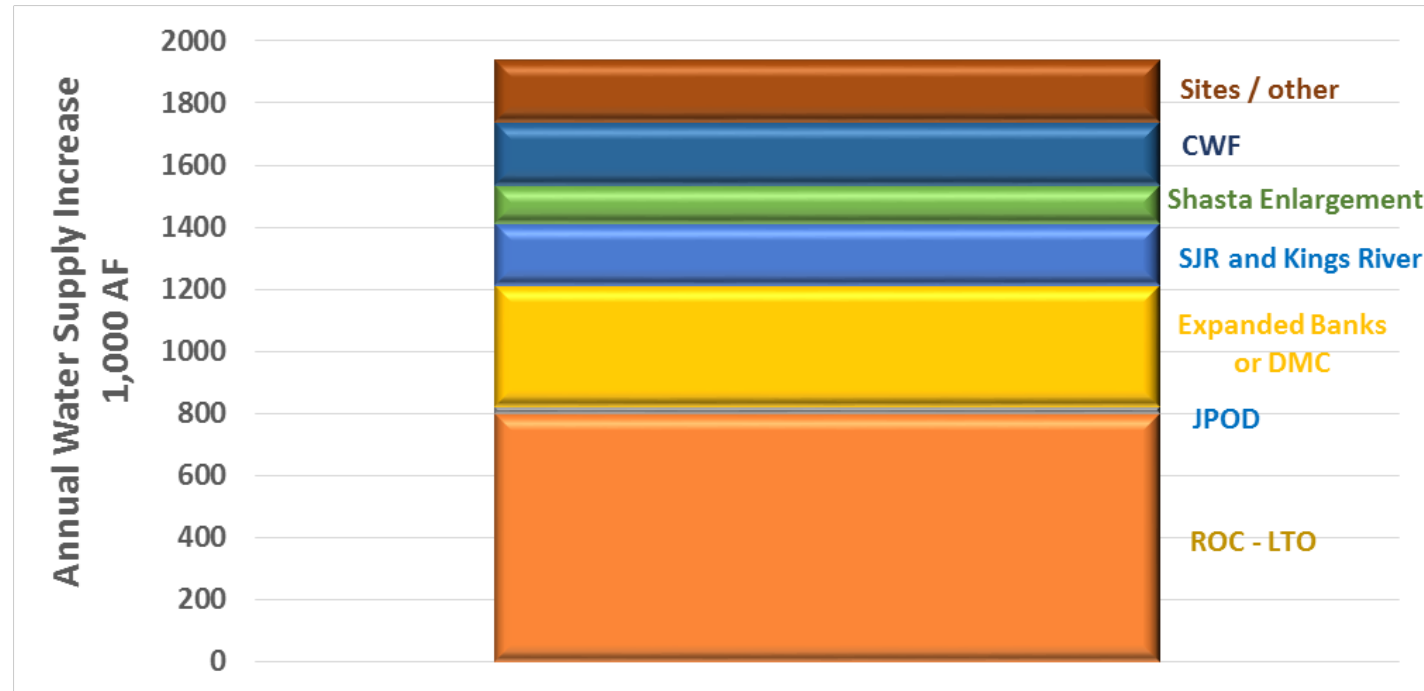
### Key Points

- *Only increases exports when San Luis is full*

Annual high point in San Luis Reservoir (CVP + SWP)

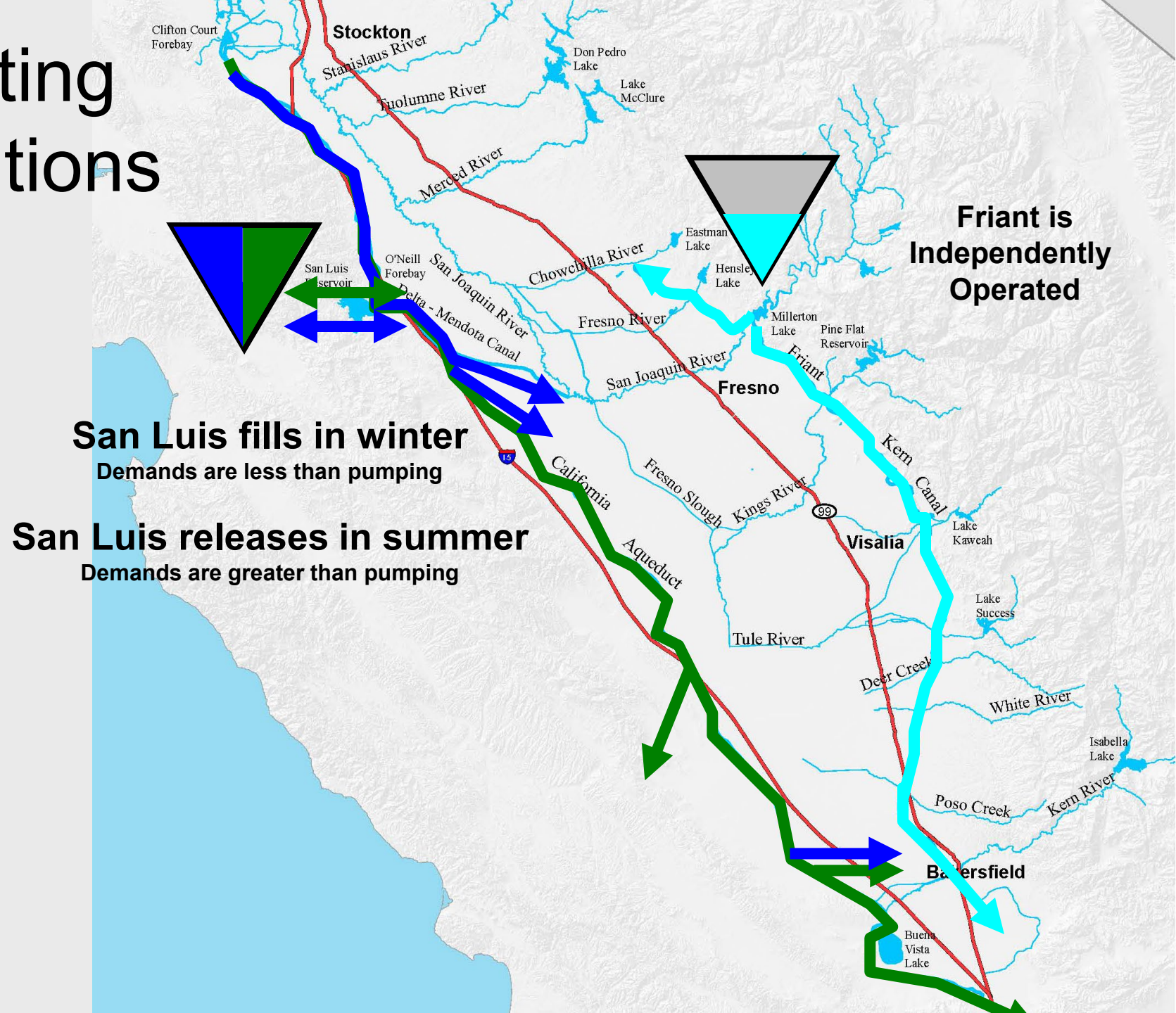


# Results Summary





# Existing Conditions



**Friant is Independently Operated**

**San Luis fills in winter**  
Demands are less than pumping

**San Luis releases in summer**  
Demands are greater than pumping



# Coordinated Operation

