

California Water 2016:

What's up at the State Water Board....

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Chair,

State Water Resources Control Board

Water Education Foundation Executive

Briefing

March 17, 2016



Overview



- Guiding principle—prepare for future while dealing with the present
- Where we are
- Selected actions of interest
- How we need to approach

California Water Action Plan

California Water Action Plan



Climate Change as Overarching Driver

- Make Conservation a California Way of Life
- Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government
- Achieve the Co-Equal Goals for the Delta
- Protect and Restore Important Ecosystems
- Manage and Prepare for Dry Periods
- Expand Water Storage Capacity and Improve Groundwater Management
- Provide Safe Water for All Communities
- Increase Flood Protection
- Increase Operational and Regulatory Efficiency
- Identify Sustainable and Integrated Financing Opportunities

Reality: Loss of snowpack



Statewide Drought Conditions

Official State of
Emergency Declared on
January 17, 2014

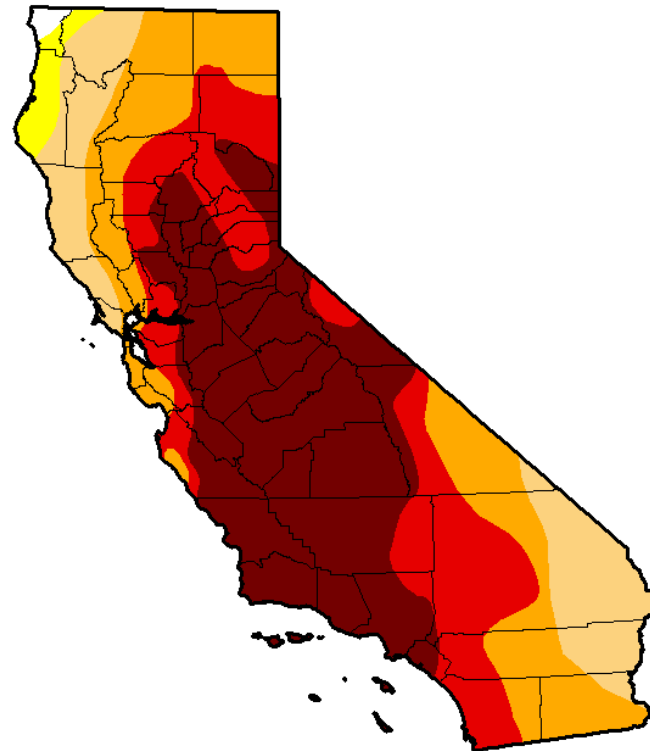
Local Emergencies Declared

- 27 Counties
- 13 Cities
- 9 Tribal Reservations
- 12 Special Districts

County & Tribal Drought Task Force

- 30 Counties
- 2 Tribes

U.S. Drought Monitor California

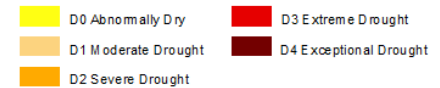


March 8, 2016
(Released Thursday, Mar. 10, 2016)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|-----------------------------------------|------|--------|-------|-------|-------|-------|
| Current | 0.43 | 99.57 | 97.49 | 83.16 | 60.86 | 38.48 |
| Last Week 3/1/2016 | 0.43 | 99.57 | 95.13 | 82.66 | 60.86 | 38.48 |
| 3 Months Ago 12/8/2015 | 0.14 | 99.86 | 97.33 | 92.26 | 69.09 | 44.84 |
| Start of Calendar Year 12/29/2015 | 0.00 | 100.00 | 97.33 | 87.55 | 69.07 | 44.84 |
| Start of Water Year 9/29/2015 | 0.14 | 99.86 | 97.33 | 92.36 | 71.08 | 46.00 |
| One Year Ago 3/10/2015 | 0.16 | 99.84 | 98.11 | 93.44 | 67.46 | 39.92 |

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

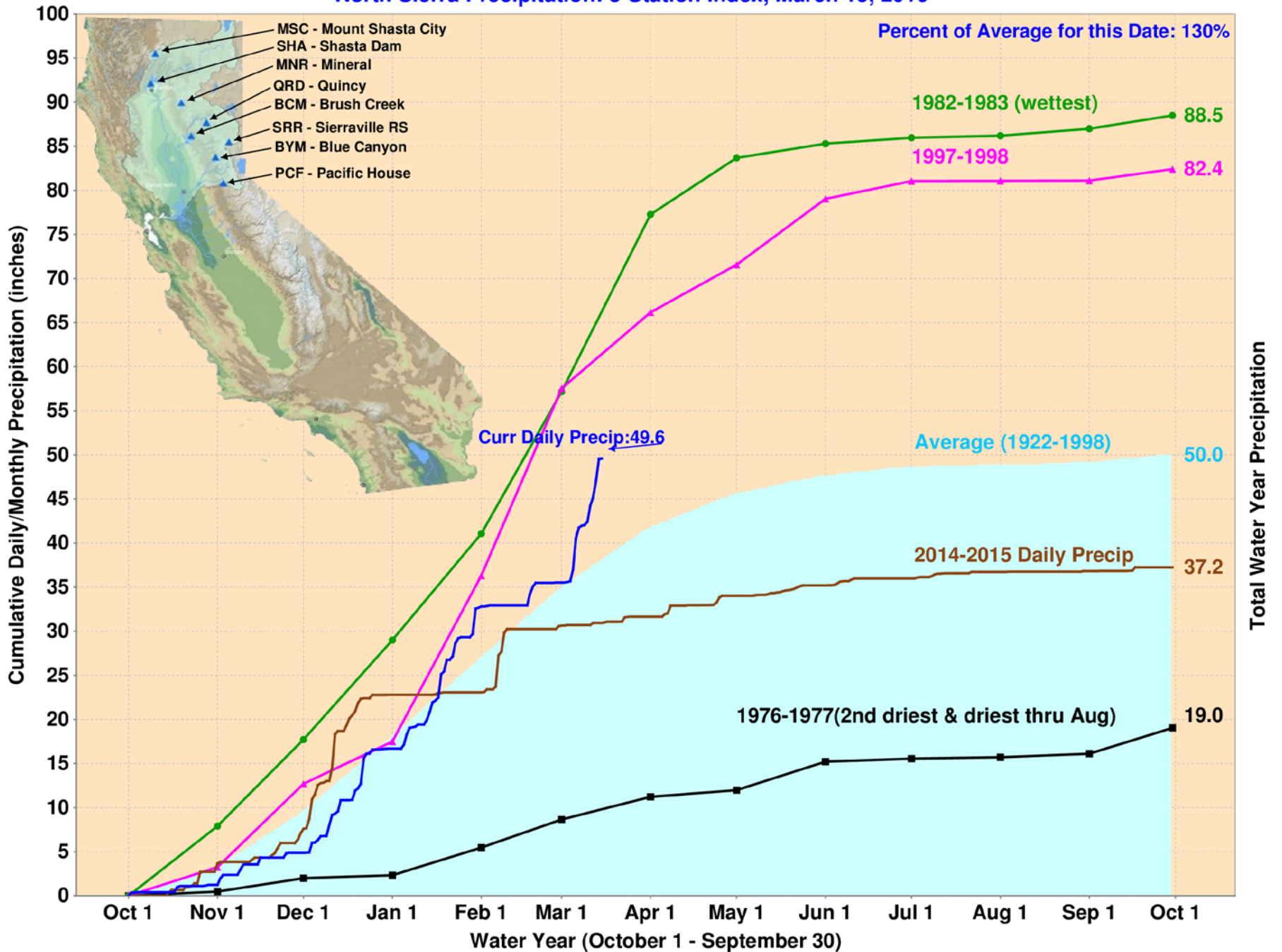
Author:

David Miskus
NOAA/NWS/NCEP/CPC



<http://droughtmonitor.unl.edu/>

North Sierra Precipitation: 8-Station Index, March 15, 2016



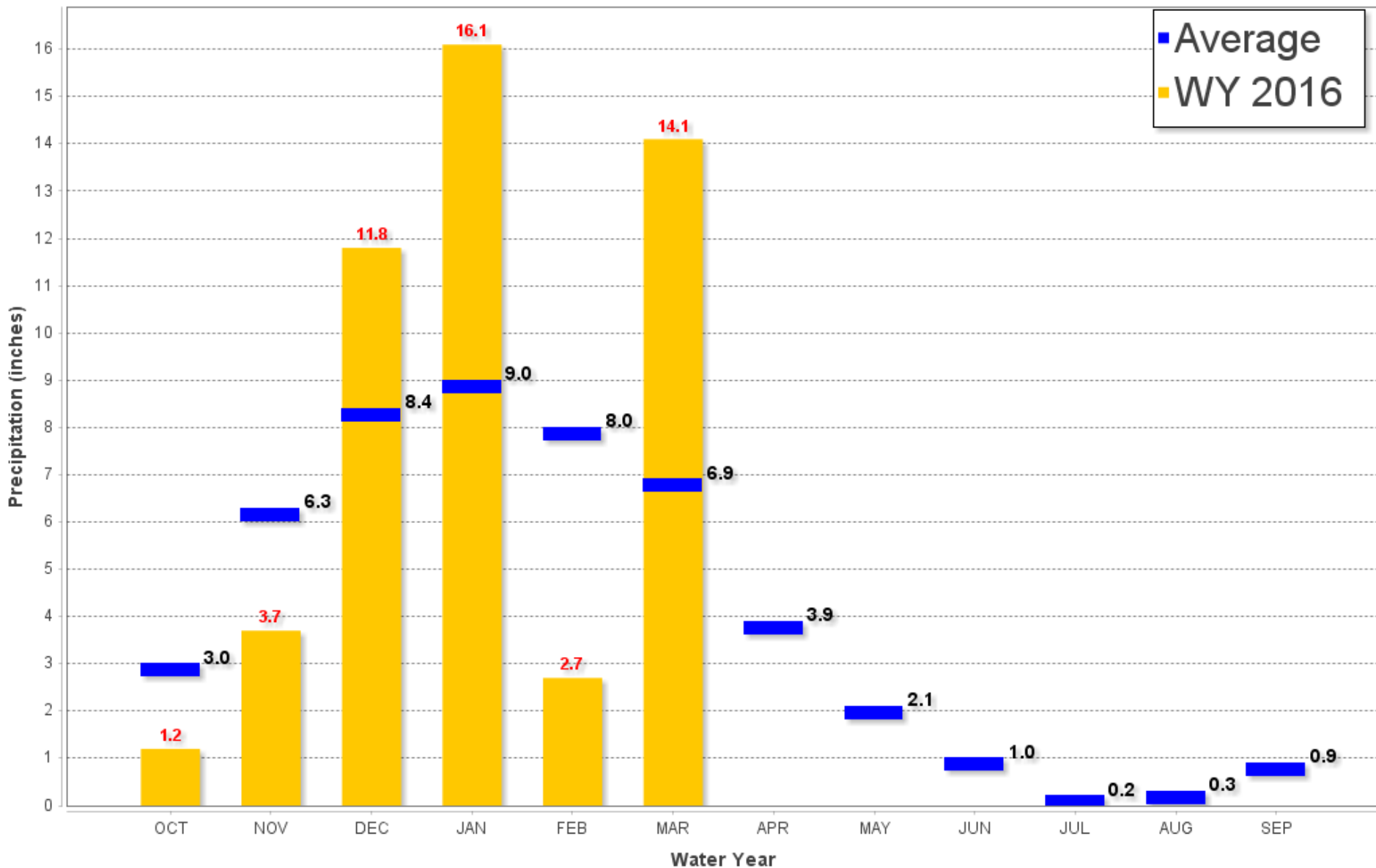


Northern Sierra 8-Station

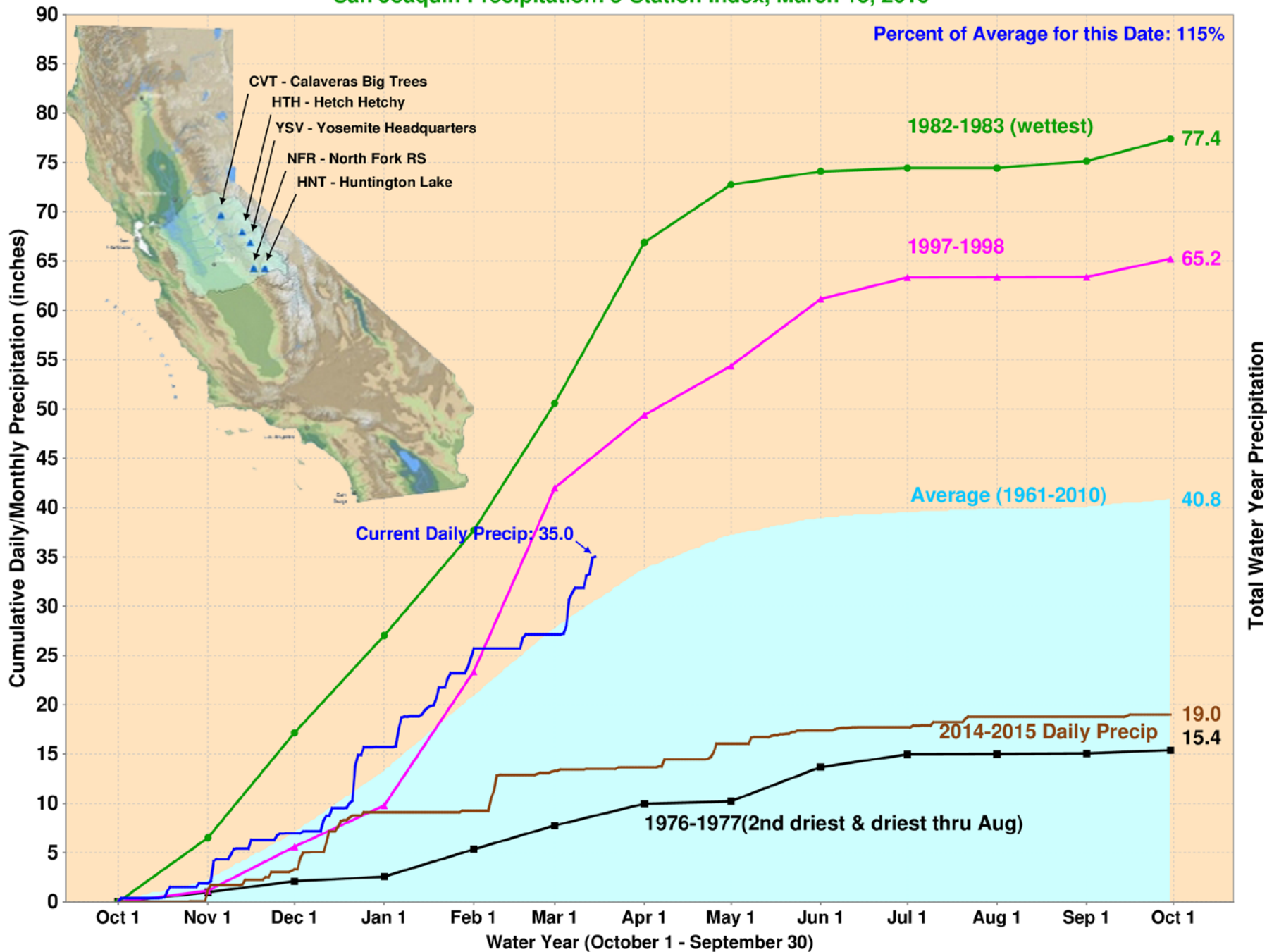
Precipitation Index for Water Year 2016 - Updated on March 15, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding

Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



San Joaquin Precipitation: 5-Station Index, March 15, 2016



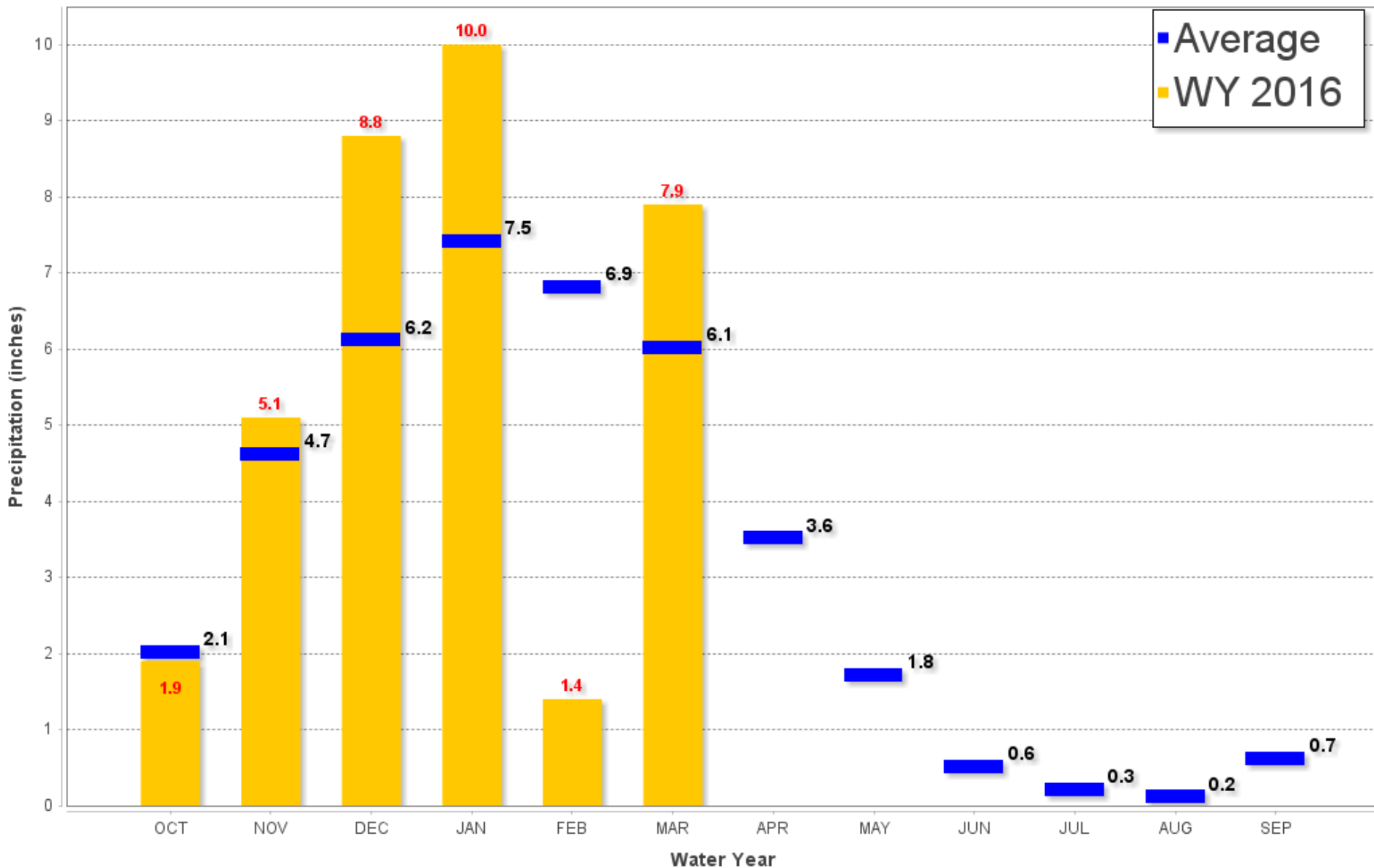


San Joaquin 5-Station

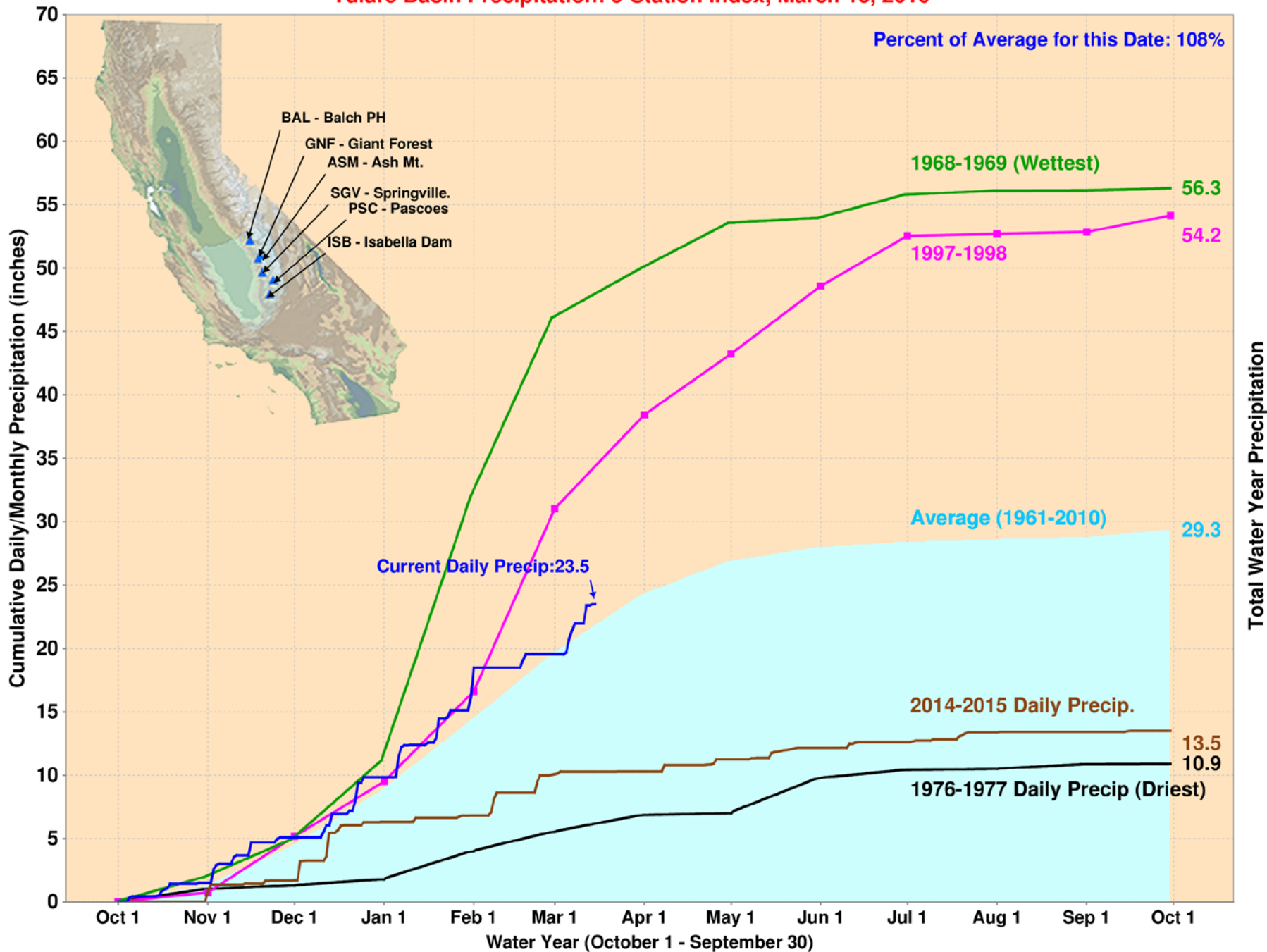
Precipitation Index for Water Year 2016 - Updated on March 15, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding

Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



Tulare Basin Precipitation: 6-Station Index, March 15, 2016



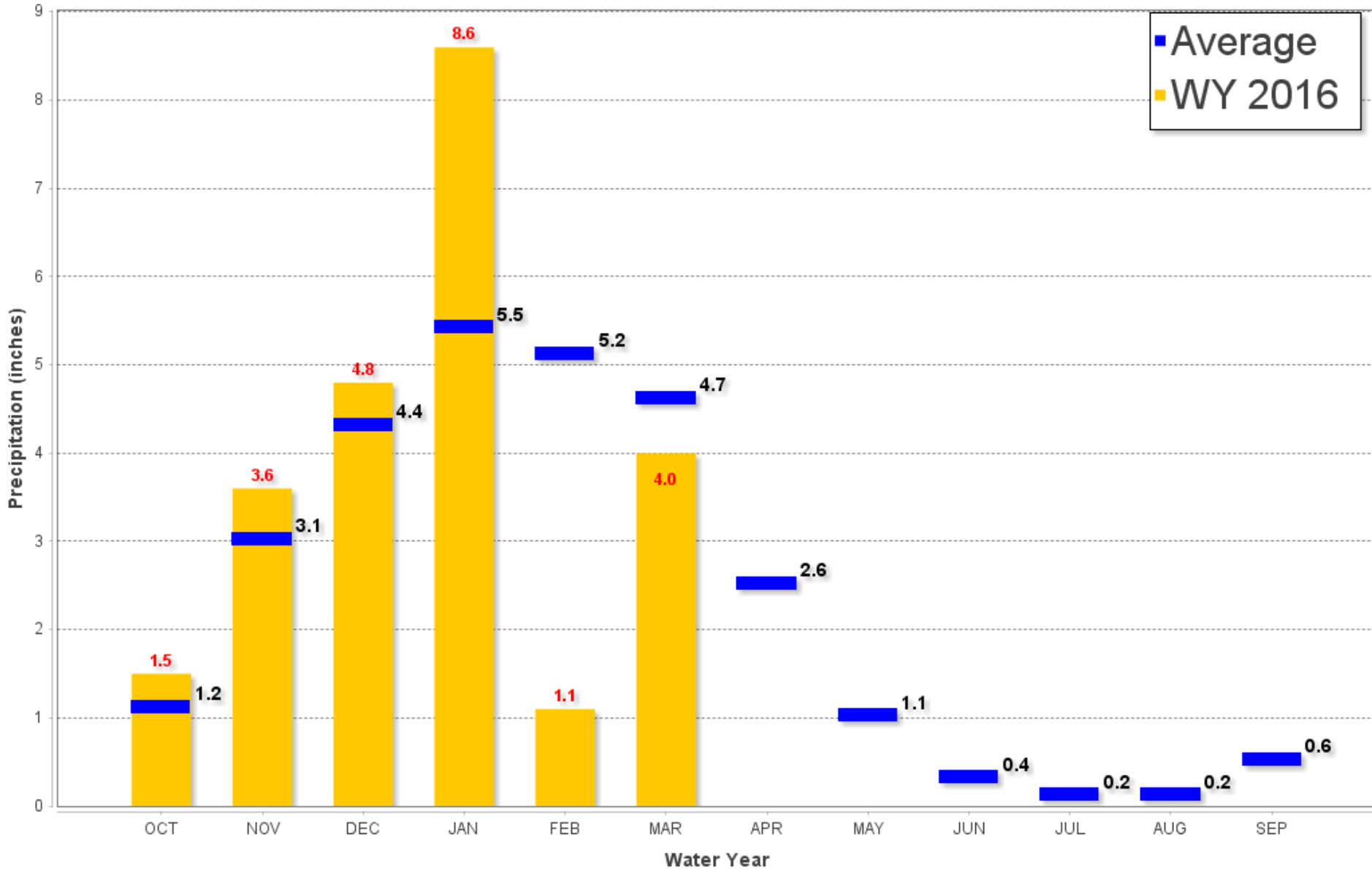


Tulare Basin 6-Station

Precipitation Index for Water Year 2016 - Updated on March 15, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding

Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST





Statewide Summary of Snow Water Content

Current Regional Snowpack from Automated Snow Sensors

% of April 1 Average / % of Normal for This Date



| NORTH | |
|----------------------------------------|------|
| Data as of March 15, 2016 | |
| Number of Stations Reporting | 25 |
| Average snow water equivalent (Inches) | 28.5 |
| Percent of April 1 Average (%) | 101 |
| Percent of normal for this date (%) | 103 |

| CENTRAL | |
|----------------------------------------|------|
| Data as of March 15, 2016 | |
| Number of Stations Reporting | 39 |
| Average snow water equivalent (Inches) | 26.6 |
| Percent of April 1 Average (%) | 90 |
| Percent of normal for this date (%) | 93 |

| SOUTH | |
|----------------------------------------|------|
| Data as of March 15, 2016 | |
| Number of Stations Reporting | 28 |
| Average snow water equivalent (Inches) | 20.9 |
| Percent of April 1 Average (%) | 77 |
| Percent of normal for this date (%) | 80 |

| STATE | |
|----------------------------------------|------|
| Data as of March 15, 2016 | |
| Number of Stations Reporting | 92 |
| Average snow water equivalent (Inches) | 25.4 |
| Percent of April 1 Average (%) | 89 |
| Percent of normal for this date (%) | 92 |

Statewide Average: 89% / 92%

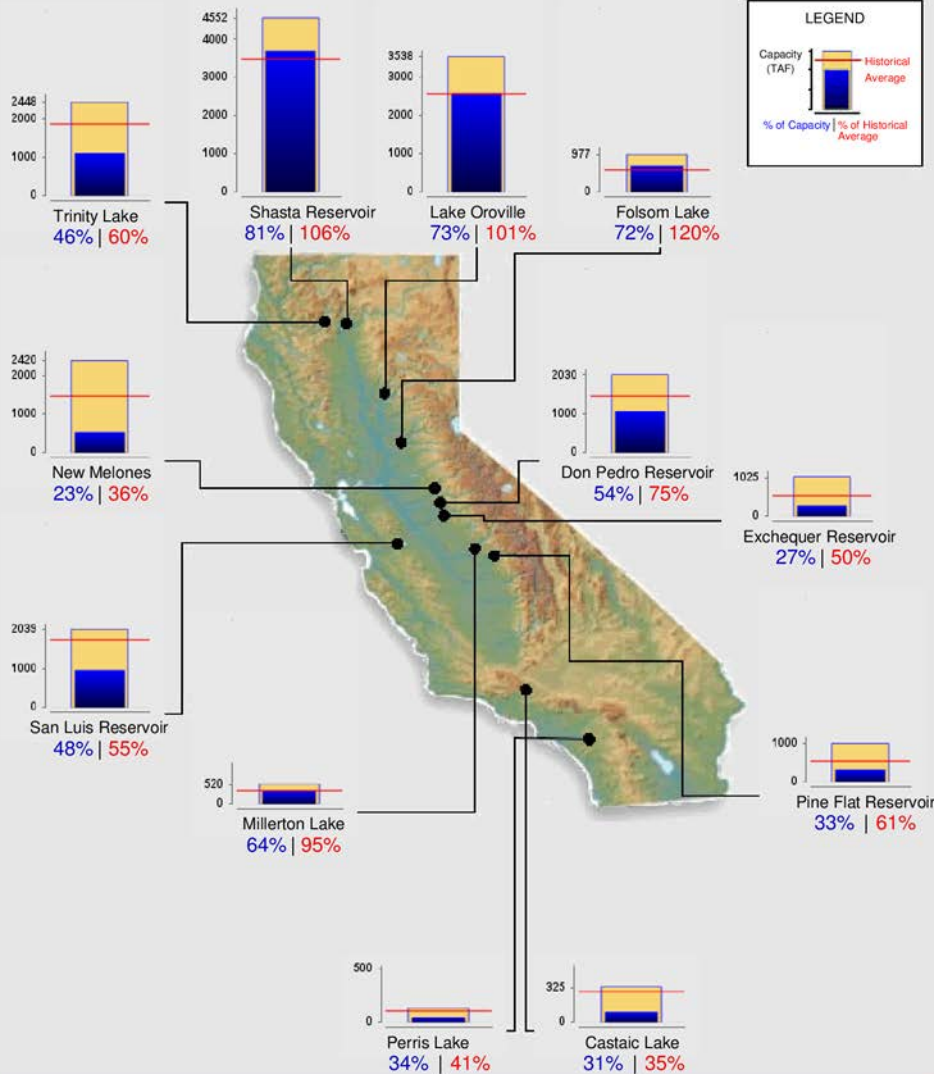
Data as of March 15, 2016



Reservoir Conditions

Ending At Midnight - March 14, 2016

CURRENT RESERVOIR CONDITIONS



| | % Cap | % Avg |
|--------------------|--------------|--------------|
| Trinity | 46 | 60 |
| Shasta | 81 | 106 |
| Oroville | 73 | 101 |
| Folsom | 72 | 120 |
| New Melones | 23 | 36 |
| San Luis | 48 | 55 |

Selected state actions

- Water Rights actions
- Emergency food and water deliveries
- Conserving and augmenting supply*
 - Recycled Water \$\$ and streamlining
 - Emergency Conservation Regulations
 - Model Landscape Rules
- California Water Action Plan acceleration
- Proposition 1 \$7.57 billion bond
- Legislation/budget augmentation/acceleration

*other actions on stormwater capture, desalination rules, agricultural water management plans, groundwater management

Water Board Priorities

Overall: Implement Water Action Plan and Steward Bond Monies Effectively

Water Supply

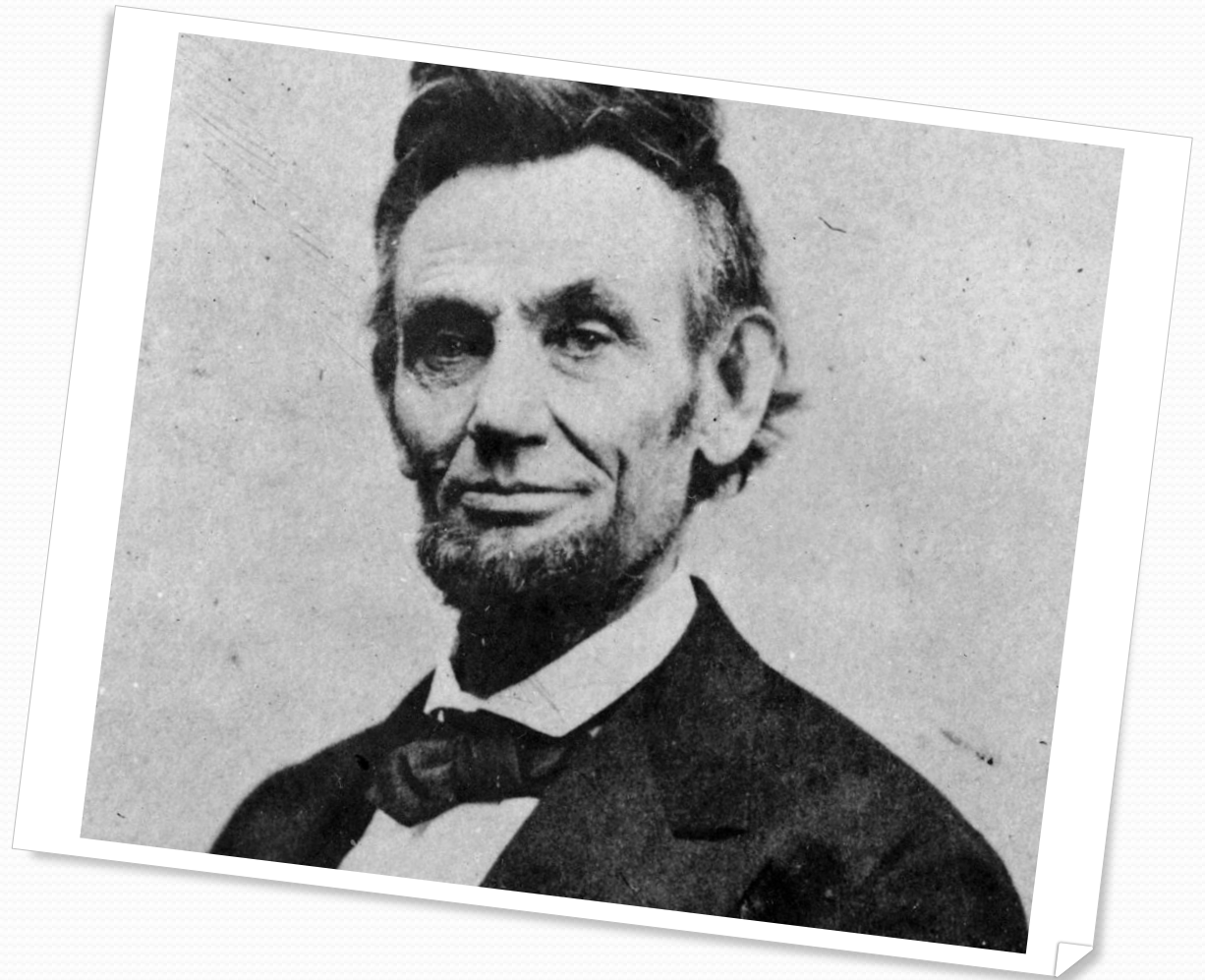
- *Dealing with drought and...*
- Bay-Delta Water Quality Plans
- Delta Water Fix: Water Rights Permit change
- Resolving decadal conflicts between water users
- Taking Public Trust and Waste and Unreasonable Use responsibilities seriously
- Groundwater management: lend support/observe
- Mandatory Urban Conservation Regs: tune-up at right time
- *Action over stasis*

Water Quality

- *Big point source to diffuse externality of socially productive exercise*
- Safe Drinking Water: top of charts
- Stormwater Strategic Plan
- Recycled water advancement
- Desal policy: implement
- Contaminated GW basins: accelerate cleanup/functional use
- Irrigated lands appeals and implementation
- Fracking/O&G: implement SB4+
- Nutrients/**Harmful Algae blooms**
- ...Toxicity/Wetlands/etc...
- *Did I say action over stasis?*

Dealing with reality

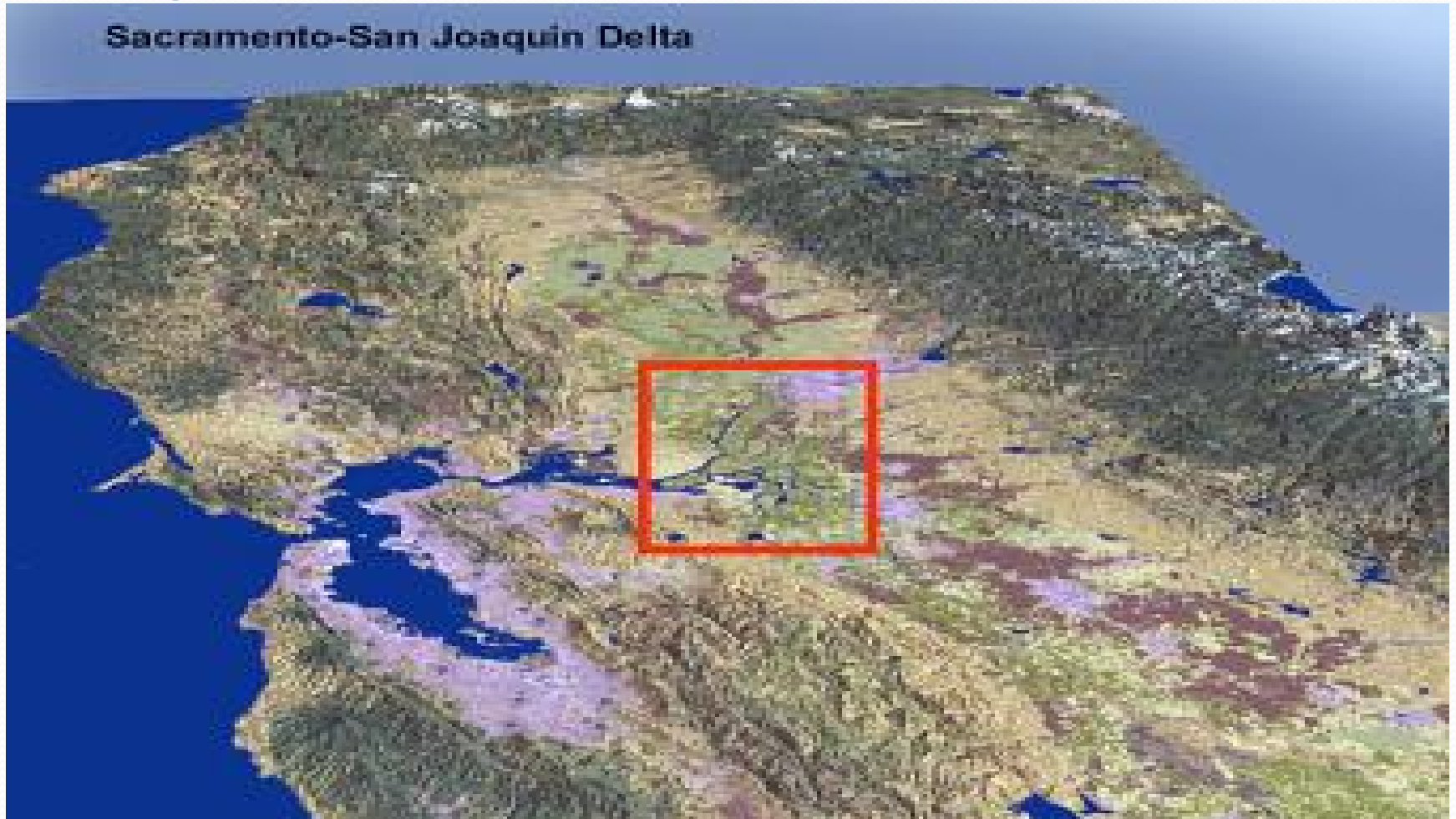
“I am a firm believer in the people. If given the truth, they can be depended upon to meet any national crisis. The great point is to bring them the real facts, and beer.”



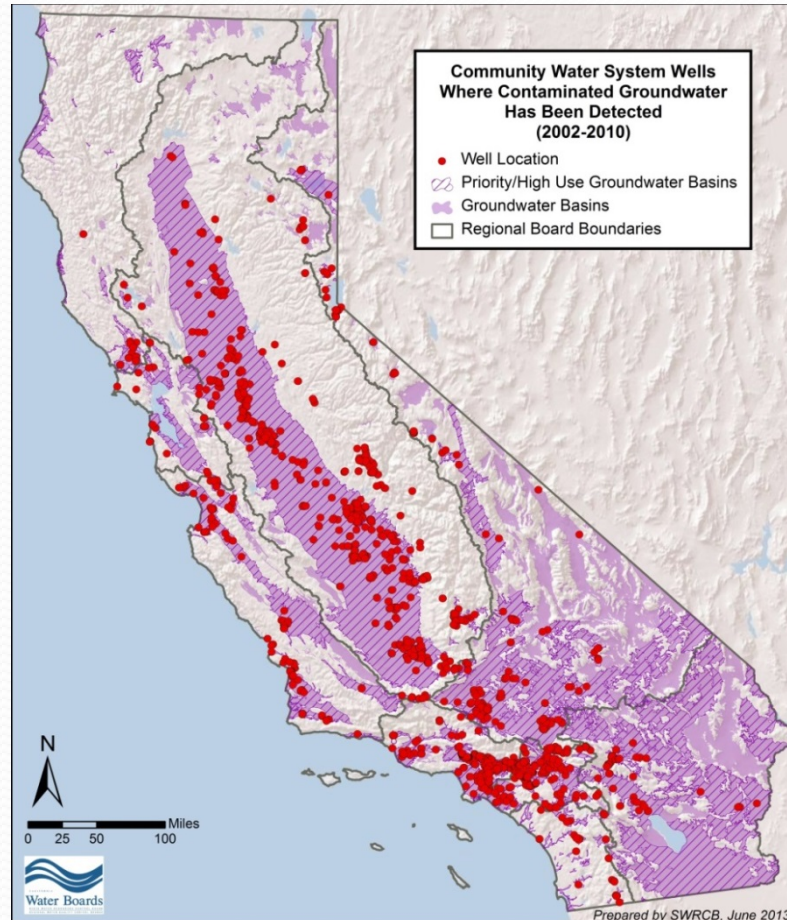
Reality: Loss of snowpack



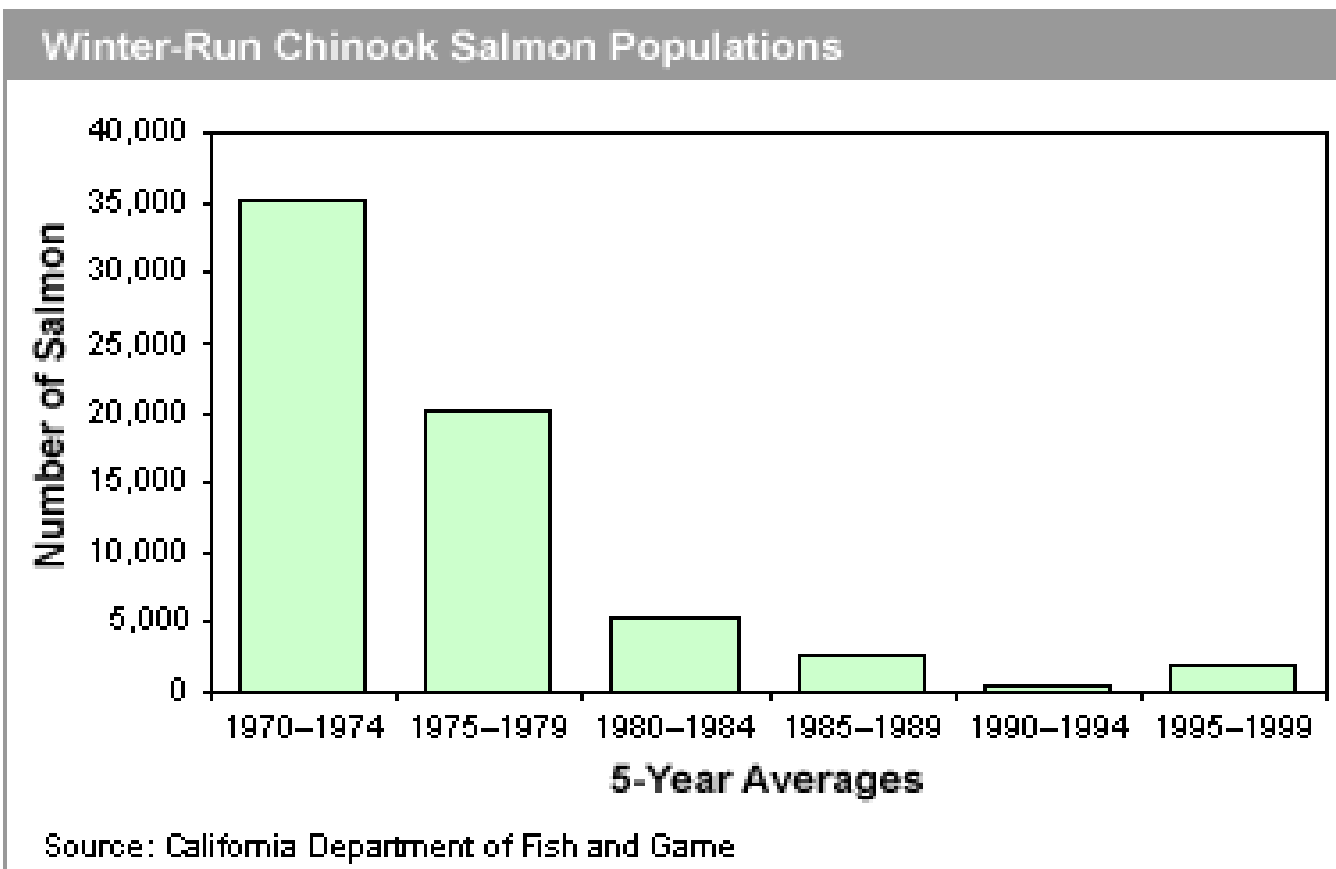
Reality: The Delta needs our help



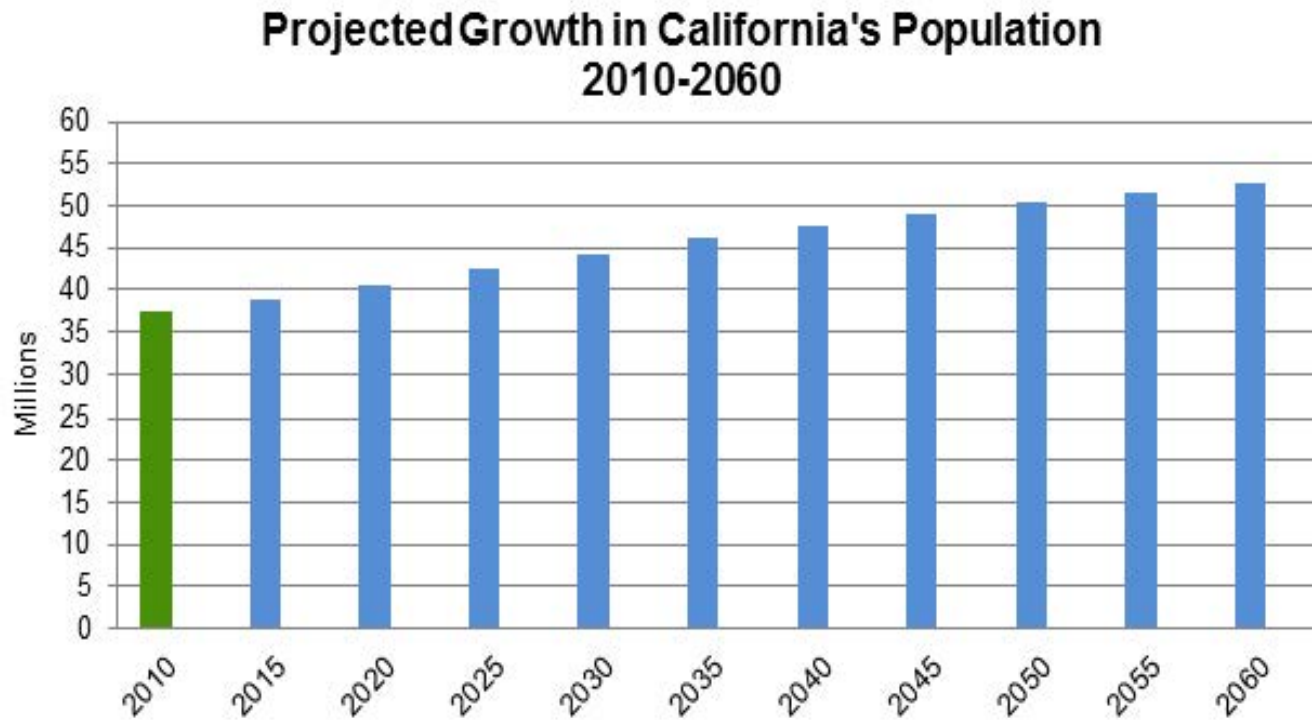
Reality: Community Well Systems Where Contamination has been Detected



Reality: Fish and wildlife are imperiled



Reality: Population will rise



- Source: Department of Finance; Controller Betty Yee website

**Reality: California
agriculture is
precious resource
for all of us**



Reality: We can do something about it

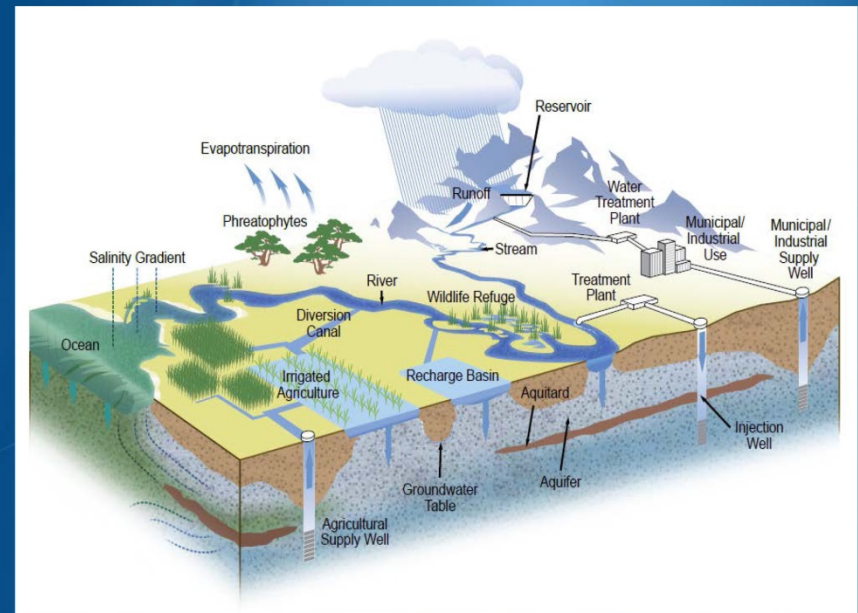


Water 4.0

The Past, Present, and Future of the World's Most Vital Resource

David Suckale

A Call to Integrate Interconnected Systems Require Integrated Solutions



Reality: We are doing something about it

- Myriad Individual acts of transcending traditional silos
 - Integrated Regional Water Management
 - Drought “angels”
 - Fish/farmer win/wins
- Legislative agreements, e.g.,
 - “Human right to water”
 - 2009 legislation/“coalition of the willing”
 - Groundwater legislation
 - Water Bond
 - Move of drinking water program and creation of Office of Sustainable Solutions
- Local leadership
 - Conservation heroes
 - Stormwater capture/Recycled water/Contaminated basins—and other integrated solutions

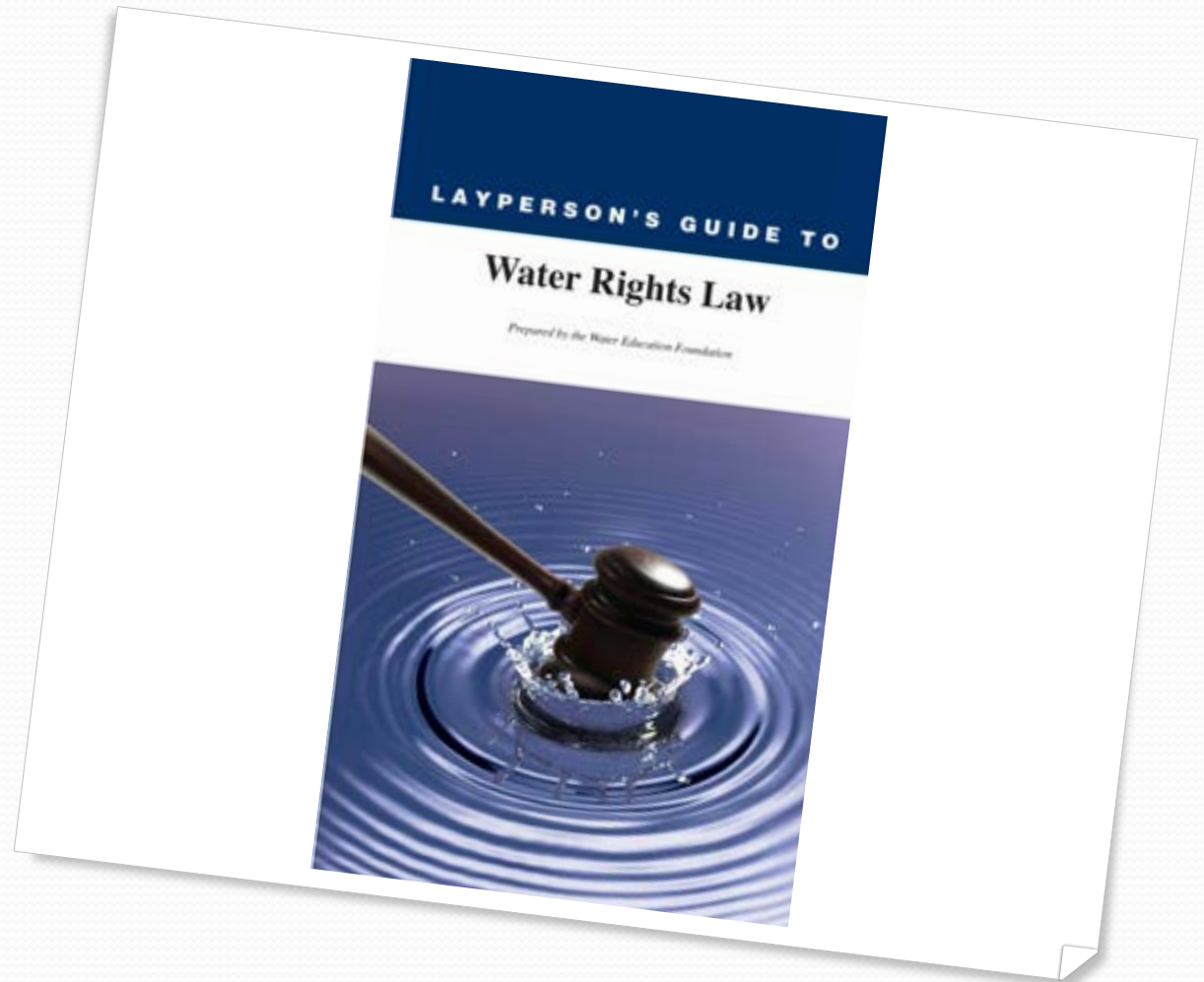
Bay-Delta Actions 2016+

- Water Quality Control Plan Update
- Water Fix Water Rights Petition Hearings



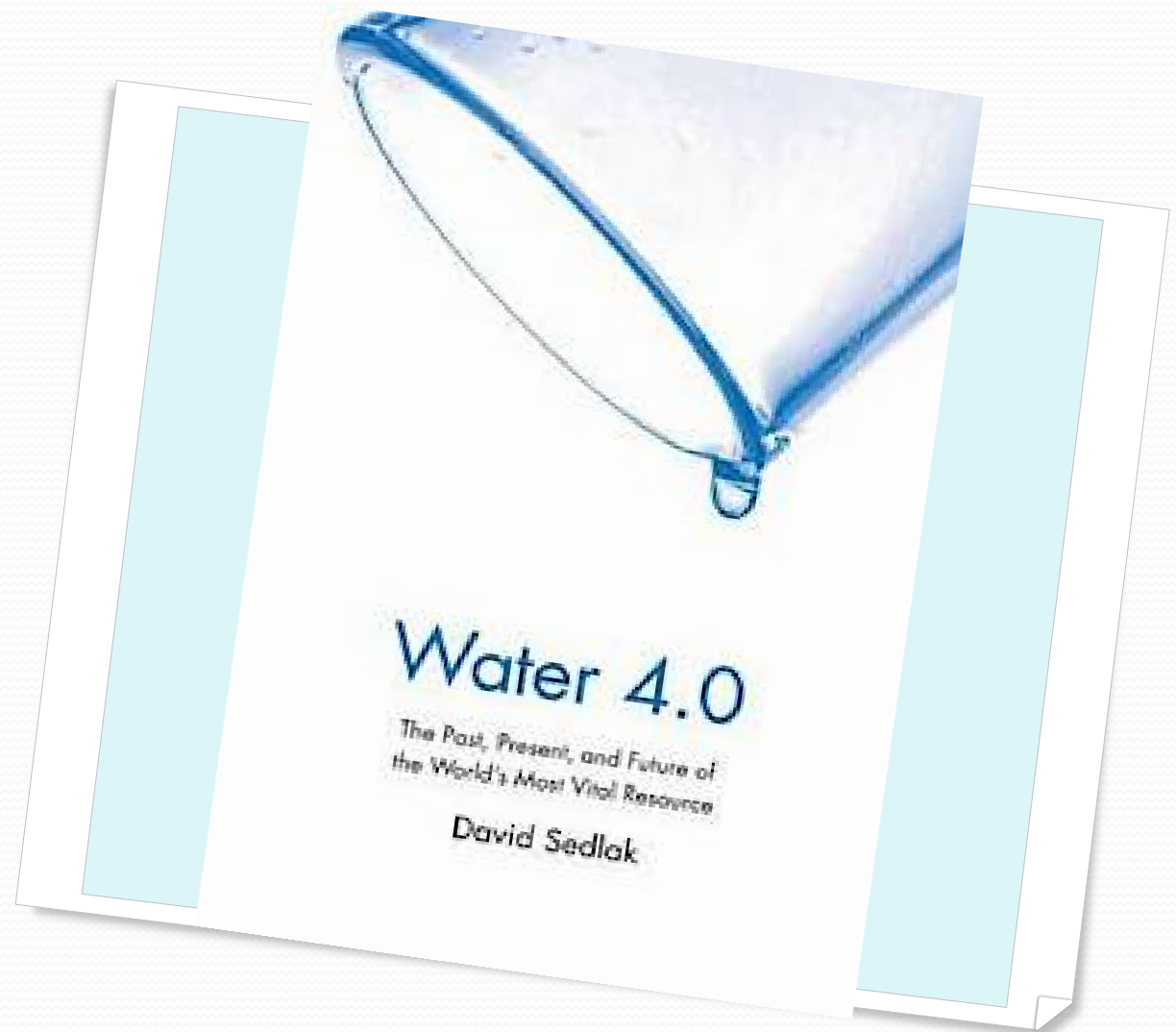
Water Rights

- Drought actions and follow through
- Information management
- Dispute resolution



Urban Resilience

- Conservation/Efficiency
- Water Recycling Acceleration
- Stormwater Strategy/Multiple Benefit Incentives



Groundwater management

SGMA role:

- Assist locals
- Assist DWR
- Due Diligence in anticipation of Backstop role



Safe Drinking Water

- Standard setting—
e.g., 123tcp
- Continuation of
drought response
with DWR/OES
- Consolidation work
- Prop 1 grants; SRF
loans
- Irrigated Lands
Regulatory Program
- Teeing up proposals
to help DACs obtain
capacity to provide
and treat clean, safe,
and affordable
drinking water



Proposition 1

- Water Recycling
- Drinking water and Wastewater for DACs
- Contaminated Groundwater
- Stormwater



How do we get there?

- Clear-eyed focus on the decades ahead vs. the decades behind us
- Focus on Reality vs. Rhetoric; Practical vs. Theoretical
- Embrace complexity
- Action over Stasis
- Convergence over Conflict
- “All of the Above” vs. “Either/Or”
- Ag and Urban, Ag and Ecosystem, North and South, the Delta and the Projects, Agriculture and Safe Drinking Water

Thank you!!!

