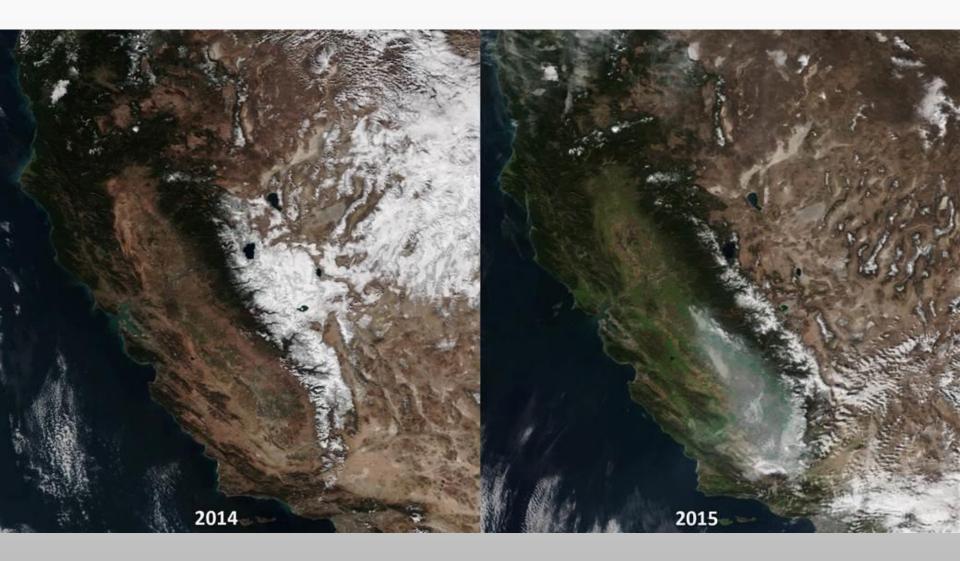
THE STATE WATER BOARD'S ROLE IN SUSTAINABLE GROUNDWATER MANAGEMENT

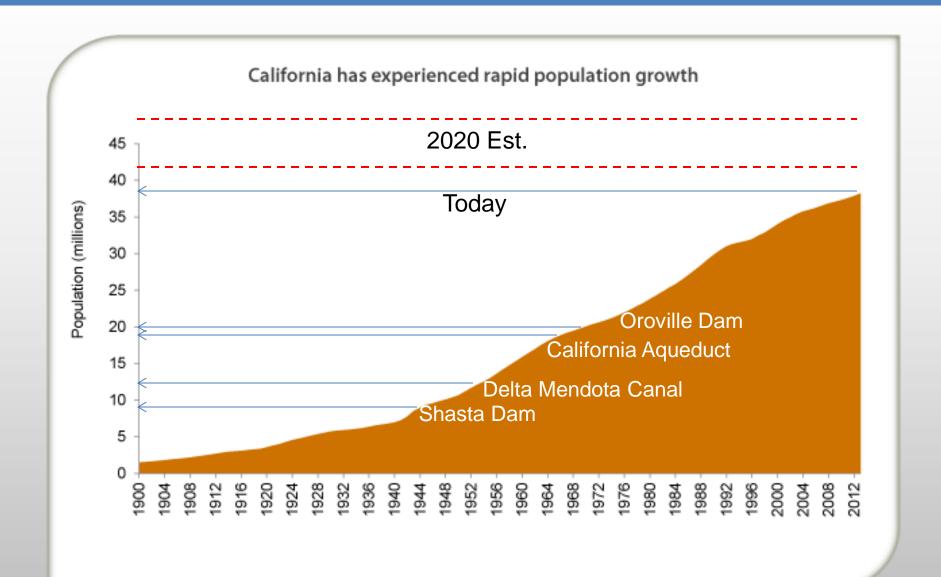
Erik Ekdahl, Tom Peltier & Jessica Bean Groundwater Management Program Office of Research, Planning and Performance State Water Resources Control Board



Updates

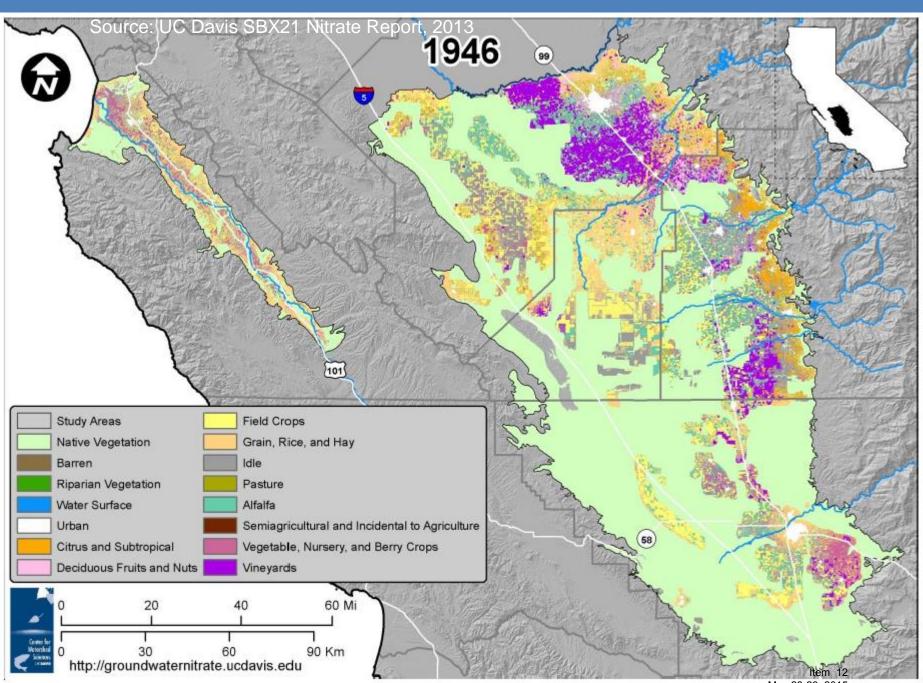
- Background: What got us to the Sustainable Groundwater Management Act (SGMA)
- SGMA Overview
- SWRCB, DWR activities and coordination
- Other Program work



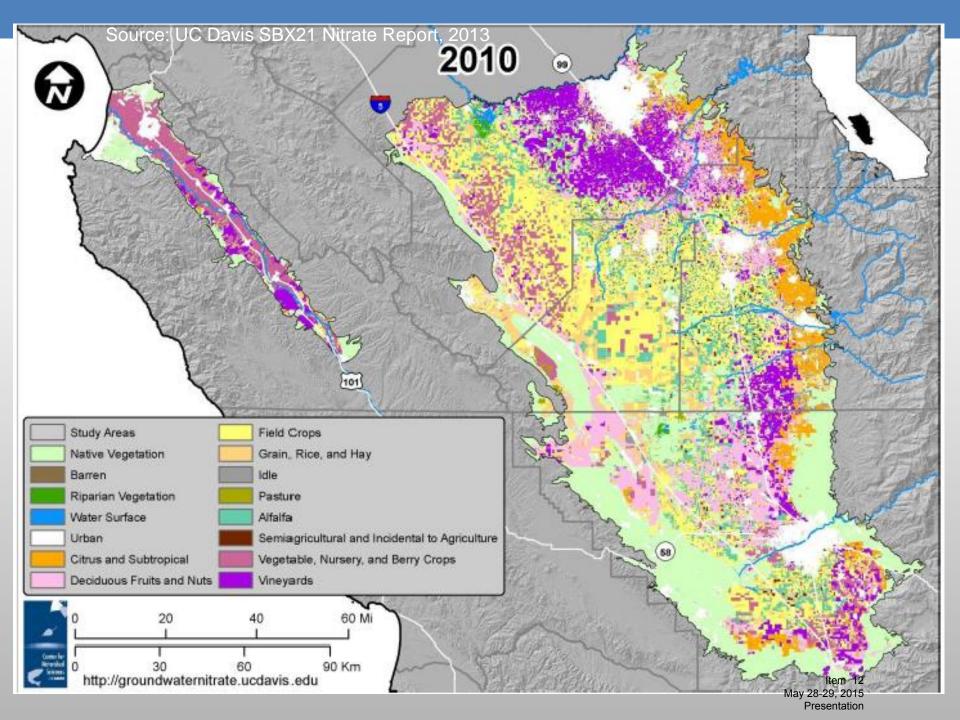


Source: California Department of Finance estimates.

From: Just the Facts: California's Population, PPIC, 2014.

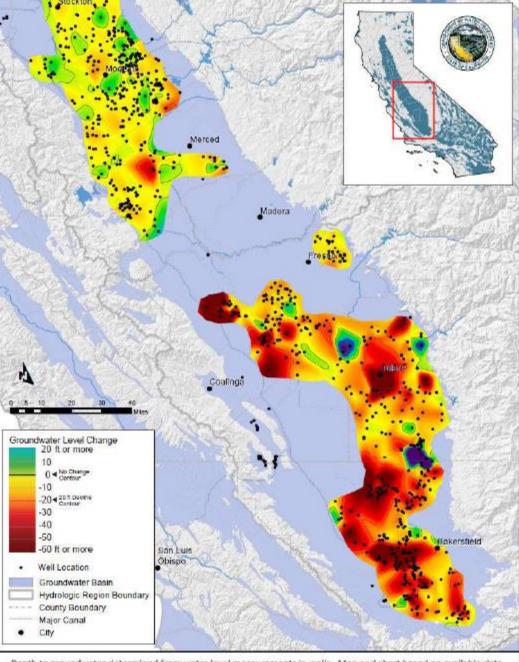


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Groundwater Elevation Change

Spring 2013 to Spring 2014



Depth to groundwater determined from water level measurements in wells. Map and chart based on available data from the DWR Water Data Library as of 04/16/2014. Document Name: S2013toS2014_SCV_20140416 Updated: 04/21/2014 Data subject to change without notice.

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SGMA

Signed by Governor on September 16, 2014

- AB 1739 (Dickinson)
- SB 1168 (Pavley)
- SB 1319 (Pavley)
- Effective January 1, 2015

"A central feature of these bills is the recognition that groundwater management in California is best accomplished locally."

- Governor Edmund G. Brown Jr., in signing statement accompanying SGMA groundwater legislation.

The Basics

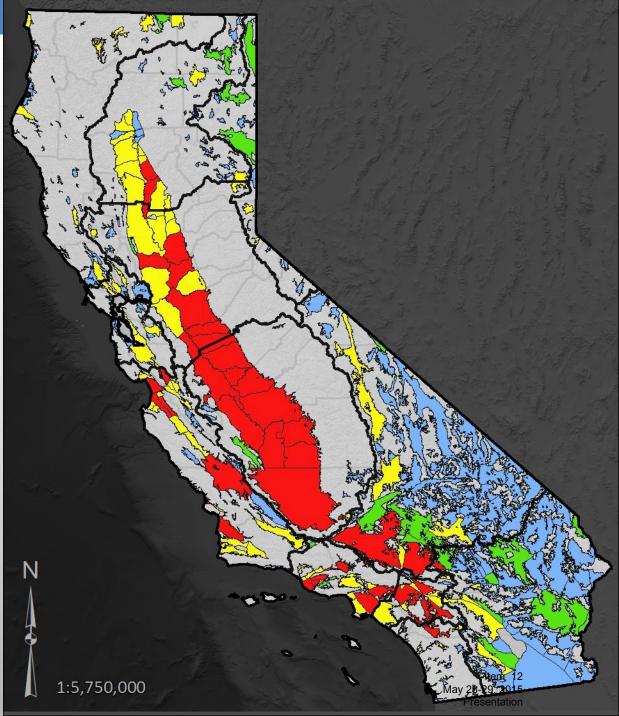
- Requires formation of sustainability agencies and development of sustainability plans
 - 127 High and medium priority basins
- Authorizes management tools for local agencies
- Defines timeframe for accomplishing goals
- Provides alternative if users can show basin is sustainable
- Creates state "backstop"

STATEWIDE CASGEM PRIORITIZATION

Basins displayed by priority:

43 <u>High</u> Priority (**R**)
84 <u>Medium</u> Priority (**Y**)
27 Low Priority (**G**)
361 Very Low Priority (B)

Calculation involves: Population & Pop. Growth Irrigated acreage Public supply well distribution And other variables



Key SGMA Requirements

- Groundwater Sustainability Agencies (GSAs) (2017)
 - One or more agencies
 - If more than one agency per basin, GSAs must coordinate
- GSAs Prepare Groundwater Sustainability Plans (GSPs) (2020/2022)
 - Measurable objectives
 - Implementation milestones
 - Annual reports (water use, extraction, change in storage)
- Achieve Sustainability 20 years after plan adoption, prevent "undesirable results"

Sustainable groundwater management

Management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results.

Undesirable results

- Chronic lowering of groundwater levels (not including overdraft during a drought, if a basin is otherwise managed)
- Significant and unreasonable:
 - reductions in groundwater storage
 - seawater intrusion
 - degradation of water quality
 - Significant and unreasonable land subsidence
 - Surface water depletions adversely impacting on beneficial uses

Backstop Basics

In every circumstance, State Board can only step in when local efforts fail

Timing and role of State Board intervention depends on how locals fail

Numerous off-ramps for locals to avoid management by the state

The "Backstop" State Board Intervention

After	Intervention Trigger
June 30, 2017	Areas without a GSA begin reporting well locations and extraction data to SWRCB; can begin probationary basin designation 180 days later.
Jan. 31, 2020	Can begin probationary basin designation in critically overdrafted basins with no GSP or where GSP is inadequate
Jan. 31, 2022	Can begin probationary basin designation in other high/medium priority basins without a GSP or inadequate GSP and basin is in long-term overdraft
Jan. 31, 2025	Probationary basin designations where GSP is inadequate and significant depletions of interconnected surface waters

In all triggering events, intervention is the result of failure by locals to create a GSA or adopt and implement a GSP

State Water Board Roles

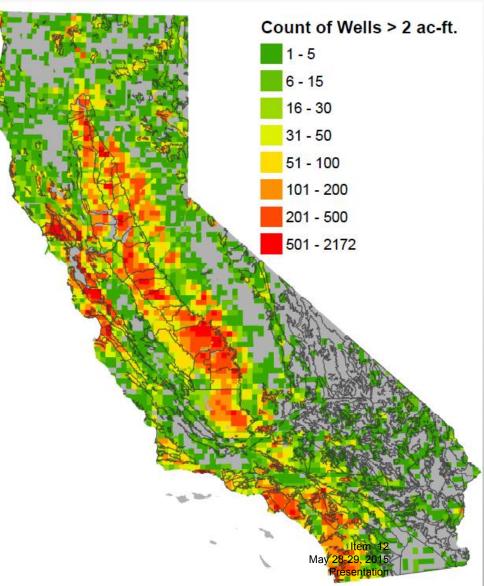
- The State Backstop
 - Data Manager
 - Basin Manager
- Coordination with DWR
 - Communication
 - Outreach
 - Regulation development
 - Implementation of the backstop

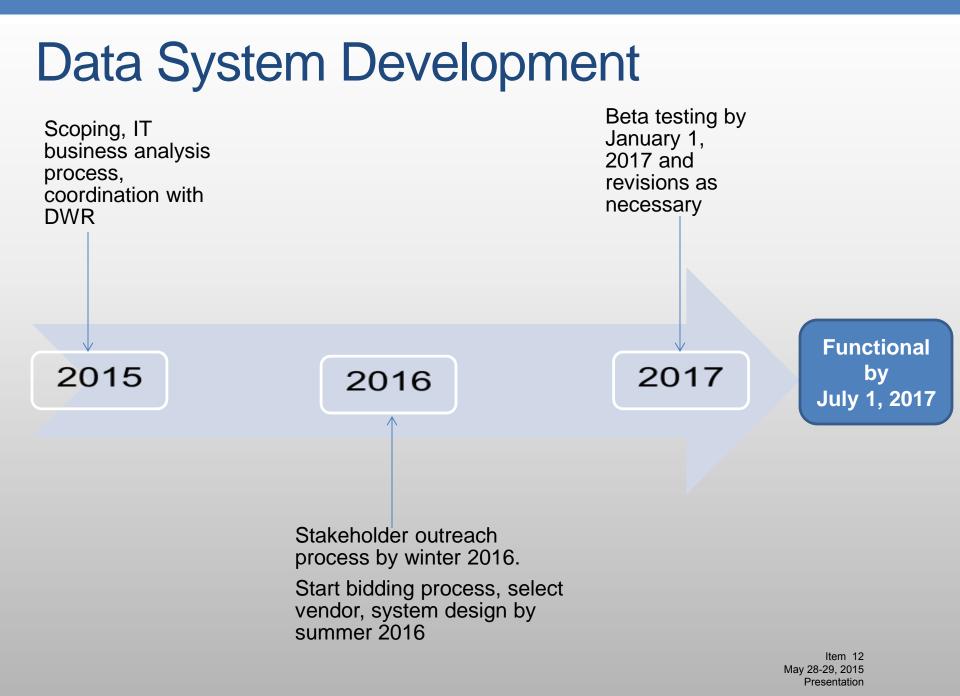
Role as Data Manager: Potentially Un-Managed Areas (PUMAs)

- First backstop role for Board is data collection (July 1, 2017)
- Groundwater users in PUMAs report to State Board (Water Code §5203)
 - Place of extraction
 - Monthly records of volume of extractions
 - Purpose of use
 - Place of use
 - Any other info required to designate a basin as probationary and write interim plans

Reporting System Needs

- Electronic reporting system to collect PUMA data
- Data need for interim plans
- Track fees
- Public interface





Role as Basin Manager

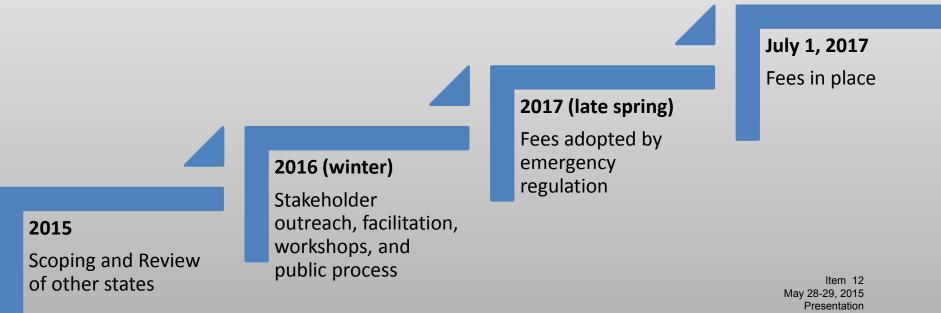


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Fees

Cover all costs related to backstop

- Facilitation, investigation, monitoring, hearings, enforcement, administration
- PUMA reporting and participation in Board hearings
- Fees need to be in place with data reporting system



DWR Key Activities

- Basin Boundary Revision Regulations
- Identification of Basins in Critical Overdraft
- Update Basin Priorities
- Regulations for Sustainability Plans and how those plans will be reviewed
- Communication and Outreach
- Proposition 1 Grant Guidelines and Funding Criteria

SWRCB & DWR Coordination

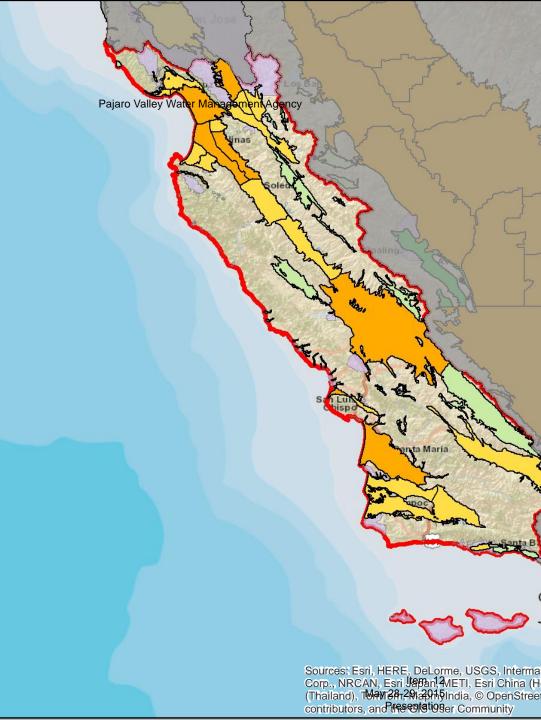
- Coordination Teams
- DWR responsible for evaluating and accepting GSPs; Board is responsible for implementing backstop, identifying probationary basins, writing interim basin management plans
- Board can request that DWR conduct investigations and provide technical assistance
- In some cases, the Board cannot designate probationary basins without first "consulting with DWR"

Local Challenges: Region 3

- Basin priorities and Critical overdraft
- Complexity of management
 - Example 1: Pajaro Basin
 - Example 2: Los Osos Basin

REGION 3 CASGEM BASIN CLASSIFICATIONS

> Basins displayed by priority: 28 Very Low (G) 15 Medium (Y) 9 High (O)



REGION 3

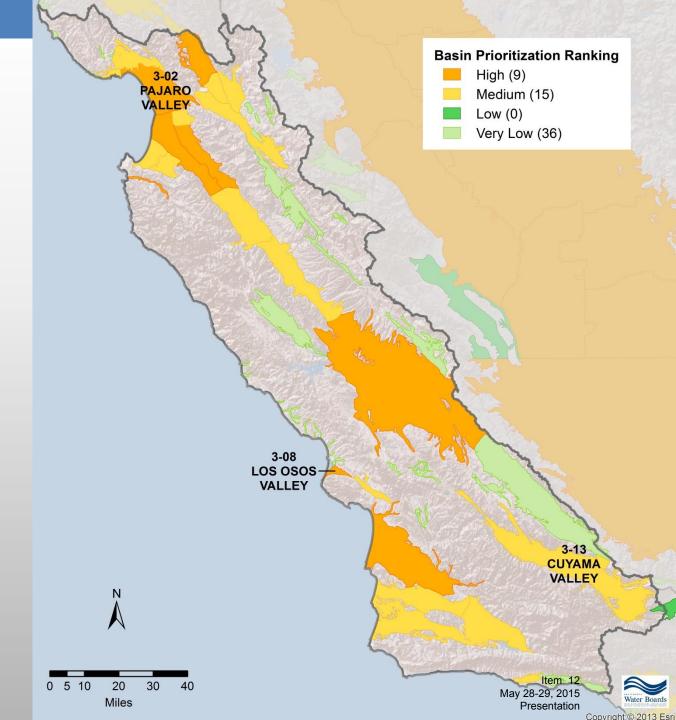
Basins of Interest

Critical overdraft

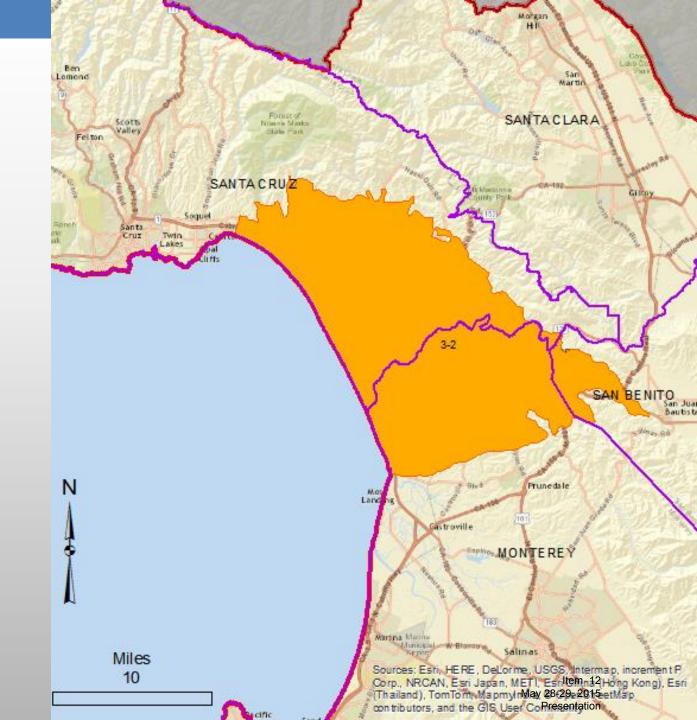
- Pajaro
- Cuyama Valley

Adjudication

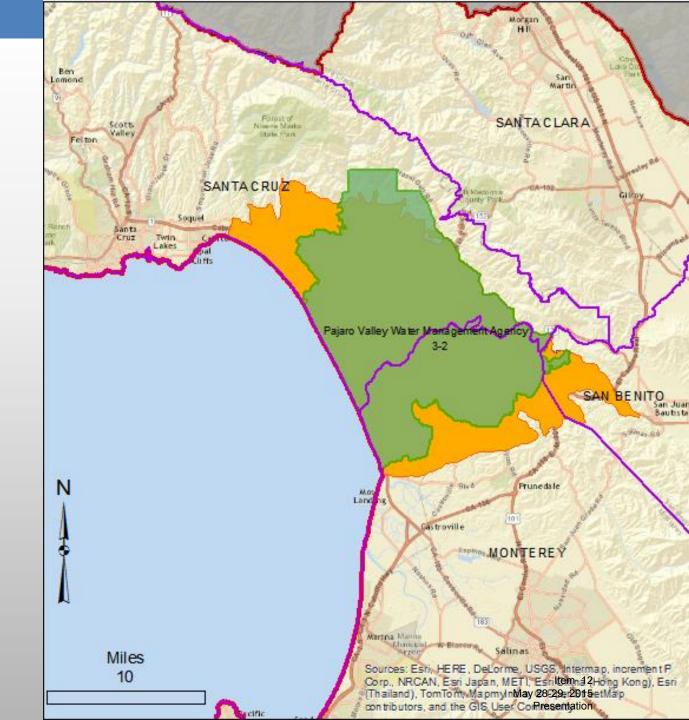
Los Osos Basin



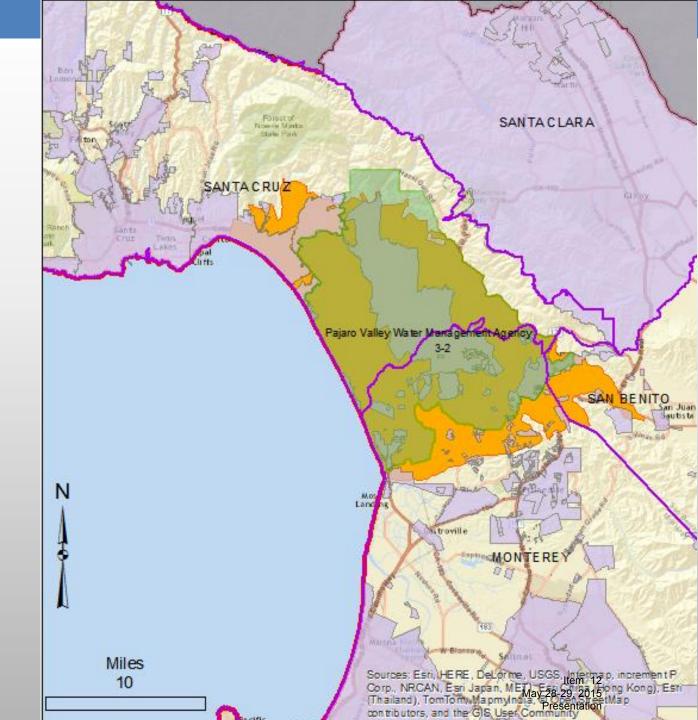
PAJARO VALLEY BASIN



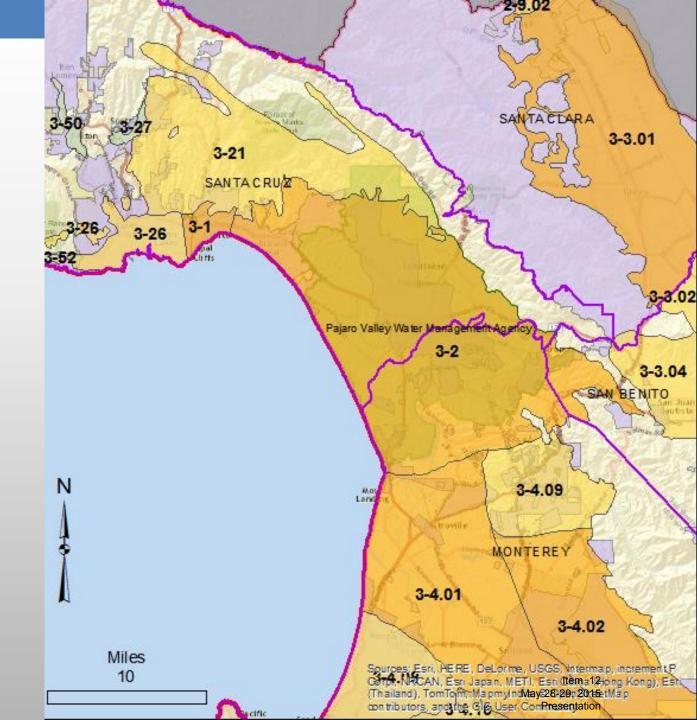
PAJARO VALLEY BASIN

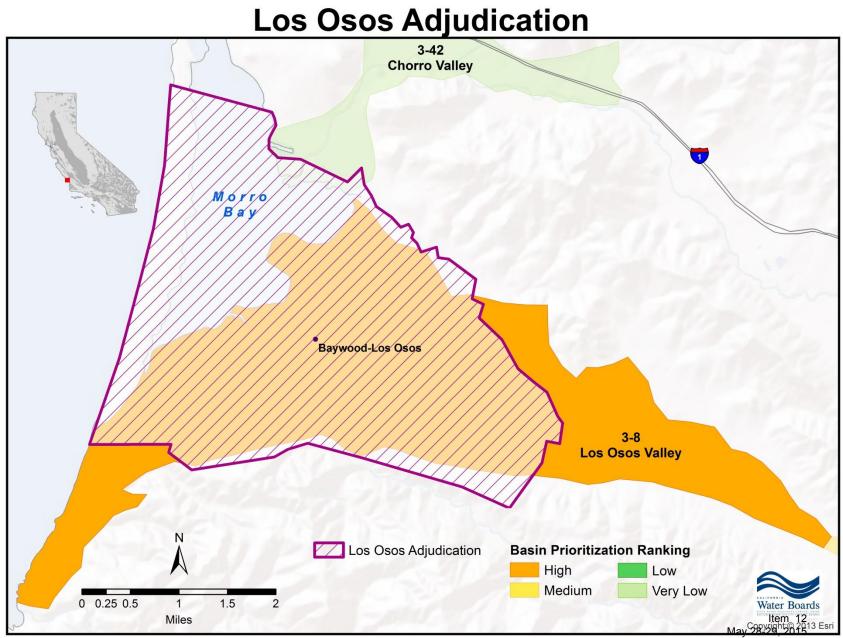


PAJARO VALLEY BASIN Example



PAJARO VALLEY BASIN





Presentation

Other Focus Areas

- Cleanup legislation
 - One bill at present (SB 13, Pavley); at least 10 other bills pending
- Groundwater recharge as a beneficial use
- Adjudication reform
 - Two bills presently, could be more

Summary: State Board Approach

- Focus on existing authorities
 - Waste and Unreasonable Use
 - Public Trust Doctrine
 - Water Code Section 2100
 - Subterranean Streams
- Support DWR in early years
- Support areas that want the help in early years
- Know the field, be prepared to step in strategically
- Develop ability to use tools sparingly
- Be judicious, strategic, and effective when acting
- Lightest touch possible, with goal of local success

Thank You!

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Tom Peltier, Region-3, SGMA Liaison <u>Thomas.Peltier@waterboards.ca.gov</u> 916-341-5313



Additional Information: <u>www.groundwater.ca.gov</u> DWR – <u>www.water.ca.gov/groundwater</u> State Board – <u>http://www.waterboards.ca.gov/water_issues/programs/gmp/index.shtml</u>

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