

Forum on Groundwater Management & Policy

The Sustainable Groundwater Management Act

November 17, 2015

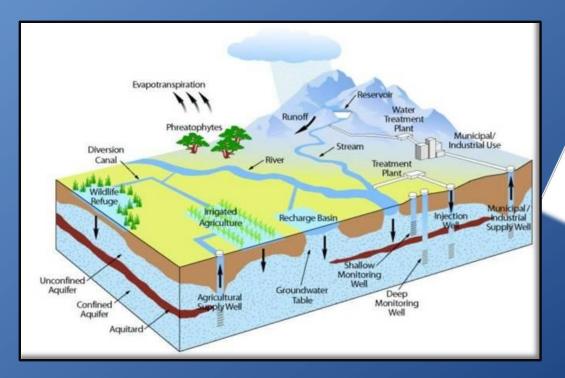
David Gutierrez CA Department of Water Resources





California Water Action Plan

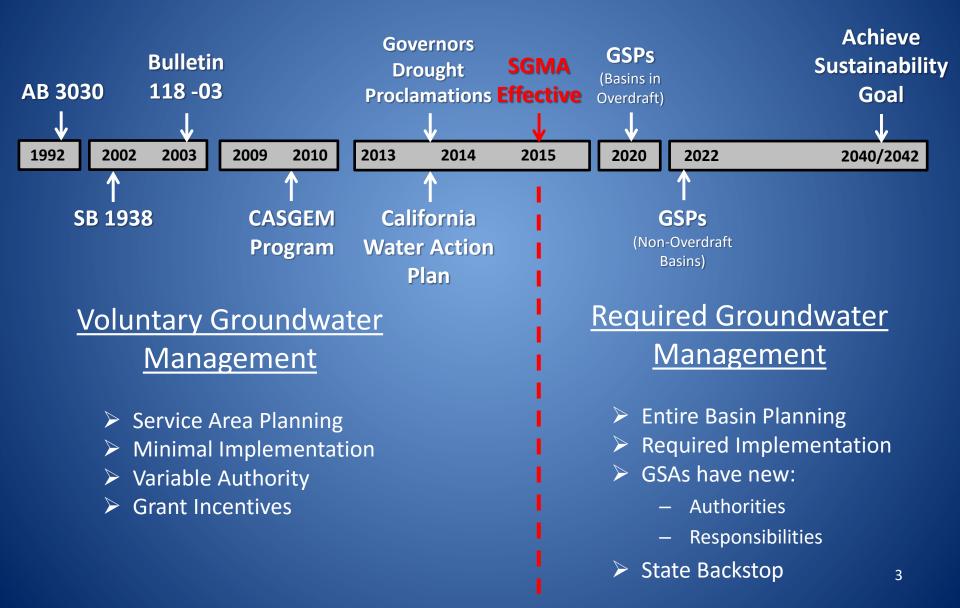
Action 6: Expand water storage capacity and improve groundwater management





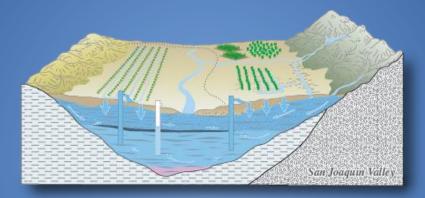


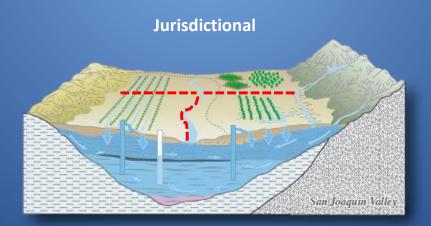
California's Major Groundwater Milestones



Groundwater Basins and Subbasins

Scientific





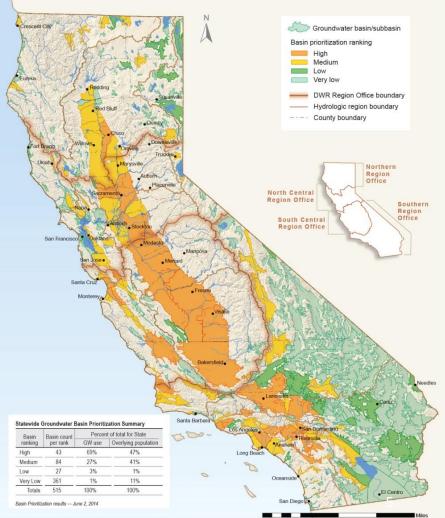
SGMA Basin Prioritization

Update Basin Prioritization

Used existing - January 2015 Re-prioritization following basin boundary revisions in 2017

BASIN RANKING	BASIN COUNT	PERCENT OF TOTAL	
		GW USE	POPULATION
High	43	69%	47%
Medium	84	27%	41%
Low	27	3%	1%
Very Low	361	1%	11%
Totals	515	100% 100%	

Basin Prioritization Results – June 2, 2014



Prepared by California Department of Water Resources, June 2014

Groundwater Sustainability

Sustainability Goal Sustainable Groundwater Management

Sustainable Yield

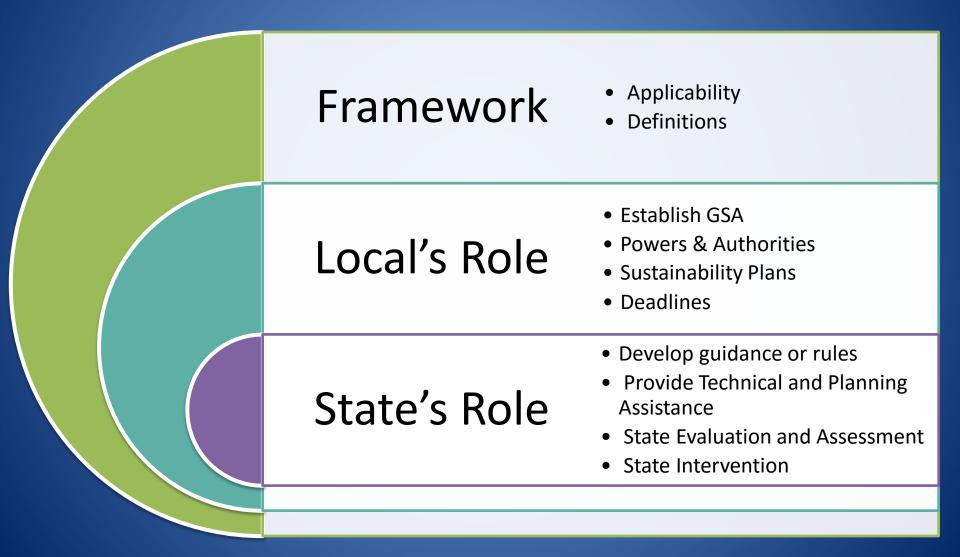
Undesirable Results: Significant and unreasonable...

Lowering of Groundwater Levels	Reduction of Groundwater Storage	Seawater Intrusion
Water Quality Degradation	Land Subsidence	Depletions of Surface Water

Key Principles

- Groundwater is best managed at the local or regional level, and local agencies should have the tools they need to sustainably manage their resources
- When local or regional agencies cannot or will no manage their groundwater sustainably, the State will intervene until the local agencies develop and implement sustainable groundwater management plans

Sustainable Groundwater Management Act of 2014



SGMA Milestones for Success

Groundwater Sustainability Agencies

- GSA Formation by June 30, 2017
- Only local agencies can be GSAs
- 53 GSAs as of Sept. 7, 2015

Groundwater Sustainability Plans

- January 31, 2020 for critically overdrafted basins
- January 31, 2022 for all other high and medium priority basins
- Basins with multiple GSPs must coordinate through agreements

Groundwater Sustainability

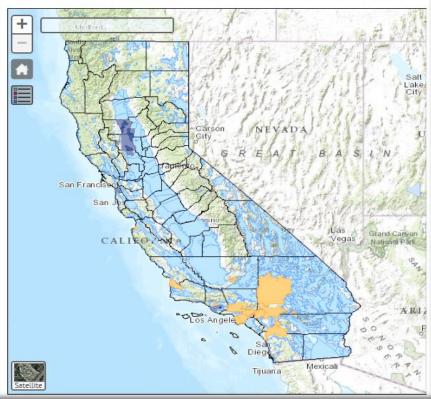
- 20-year implementation period ^h
- 50-year planning horizon

GSA Interactive Map

This interactive map shows the location of local agencies that have elected to become Groundwater Sustainability Agencies (GSAs). The boundaries of the GSAs are based on information submitted to DWR by those local agencies. While DWR makes every effort to provide accurate information, DWR has not reviewed the GSA boundary information contained in this map and makes no warranties as to the suitability of this map for any particular purpose. Where multiple local agencies have claimed the same portion of a groundwater basin, the areas of overlap are indicated by a darker color within the GSA boundaries.

In addition to GSA boundaries, the interactive map application shows the following: (1) Bulletin 118-2003 groundwater basins; (2) CASGEM basin prioritization; (3) adjudicated areas listed in Water Code § 10720.8 (full list available soon); and (4) local agencies listed in Water Code § 10723(c) (available soon).

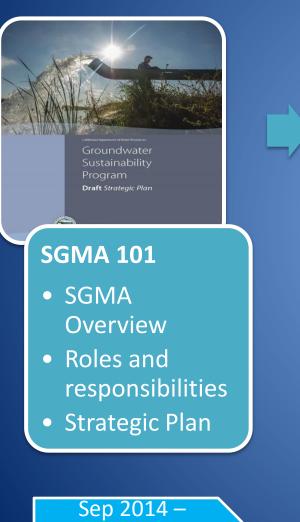
If you have questions related to GSAs or have comments related to the interactive map please contact Mark Nordberg at Mark.Nordberg@water.ca.gov. The GSA Interactive Map was last updated on August 10th, 2015.



DWR's Sustainable Groundwater Management Program



Communication and Outreach -Phases



Mar 2015



Draft Regulations

- Basin Boundary
- GSP
- Critically Overdrafted Basins

Apr – Sep 2015



Local Outreach

- Engagement
- Identify champion agencies
- GSA formation



Communication & Outreach Tools

Interagency Website DWR Website SWRCB Website





For the first time in California history, the Sustair to adopt groundwater management plans that ar groundwater management will provide a buffer a supplies regardless of weather patterns. Califorr supply, and sustainable groundwater manageme Groundwater website offers links and news from

🗙 SGMA Toolbox

Introduction

The Department of Water Resources (DWR) has deve Management (SGM) Program. DWR's SGM Program identified in the 2014 Sustainable Groundwater Manageresponsibilities include: (1) developing regulations to r for evaluating and implementing Groundwater Sustain identifying basins subject to critical conditions of overor replenishment; and (5) publishing best management p

Announcements

Groundwater Sustainability Plan (GSP) Draft DWR has published Discussion Papers on all of the G the discussion papers can be submitted to sgmps@w information meetings are available <u>here</u>.

WWR has received a notification of formation of a Gro

Sustainable Groundwater Planning Grant Program DWR has released draft Guidelines and Proposal Soli Grant Program. Find more information <u>here</u>.

Groundwater Sustainability Program D



Groundwater

Introduction

Groundwater resources play a vital role in maintaining California's economic and environmental sustainability. During an average year, California's 515 alluvia i groundwater basins and subbasins contribute approximately 36 percent howard the 5tate's total water supply. During dry years, groundwater contributes up to 45 percent (or more) of the statewide annual supply, and serves as a critical buffer against the impacts of drought and climate change. Many municipal, agricultural, and disadvantaged communities rely on groundwater for up to 100 percent of their water supply needs. Groundwater extraction in excess of natural and managed recharge has caused historically-low groundwater elevations in many regions of California.

DWR has a long-standing history of collecting and analyzing groundwater data, investigating and reporting groundwater conditions, implementing local groundwater assistance grants, encouraging integrated water management, and providing the technical expertise needed to improve statewide groundwater management practices, in addition, DWR is responsible for implementing the Sustainable Groundwater ManagementAct (SGMA), the California Statewide Groundwater Elevation Monitoring (CASSGM) Program, and characterizing California's groundwater basins through updates to Builetin 118.

The Sustainable Groundwater Management (SGM) Program

To implement the increased responsibilities given to DWR by the 2014 Sustainable Groundwater Management Act (SGMA), DWR has expanded its existing local assistance programs in the Division of integrated Regional Water Management (DRWM) and has developed a Strategic Plan for the Sustainable Groundwater Management (SGM) Program, <u>More info</u>

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 SUSTAINABLE GROUNDWATER MANAGEMENT
 GROUNDWATER INFORMATION CENTER
 CAGGEM
 BULLETIN 118

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SGM Immediate Actions

Develop Emergency Regulations -Basin Boundary Revisions

Draft Regulations Posted (July 17, 2015)

Regulations Completed (Nov 16, 2015)

Final Regulations Due - January 2016

Develop Emergency Regulations -(GSPs)

Working with advisory groups /public meetings

Draft Regulations Tentative (Dec '15/Jan '16)

Final Regulations Due - June 2016

Groundwater Sustainability Agency Formation

Senate Bill 13 – Requires Complete Notifications and No Overlapping GSAs

Identify Basins Subject to Critical Conditions of Overdraft

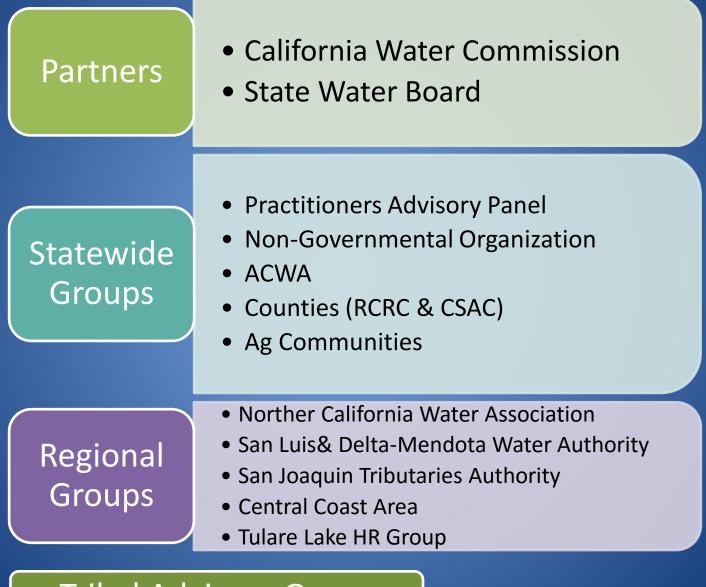
Draft list posted (Aug 19, 2015) Public Comments Closed (Sept 25, 2015)

Update Basin Prioritization

Used existing - January 2015 Re-prioritization following basin boundary revisions in 2017

Provide Facilitation Services

Advisory Groups



Tribal Advisory Group

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 DWR finds the GSP is inadequate
Jan. 31, 2022	Can begin probationary basin designation in other high/medium priority basins without a GSP or where DWR finds the GSP is inadequate
Jan. 31, 2025	Probationary basin designations where DWR finds GSP is inadequate and significant depletions of interconnected surface waters

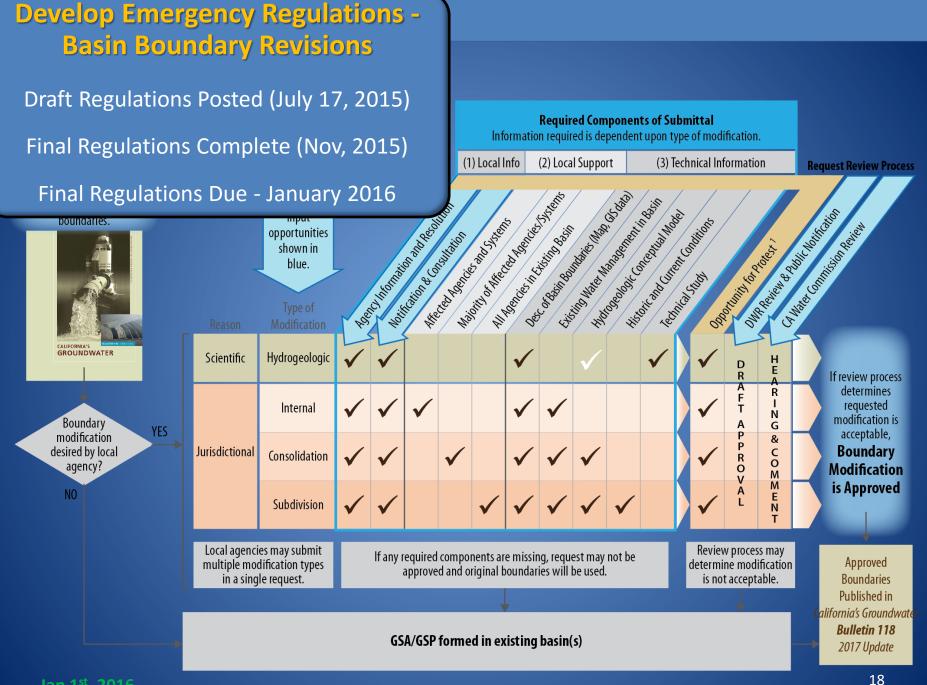
In all triggering events, intervention is the result of failure by locals to create a GSA or adopt and implement a GSP

State Board Can Act as a Basin Manager



State Intervention is Not The Final Step

- State intervention is temporary, and basin water users would still be required to develop their own plan for their basin.
- State intervention would focus on "demand management" with limited options for solving overdraft problems.
- After reimbursing the state, basin water users would still be required to fund their own solution for managing the basin.
- A basin adjudication after January 1, 2015 would still be required to comply with all the requirements of SGMA.

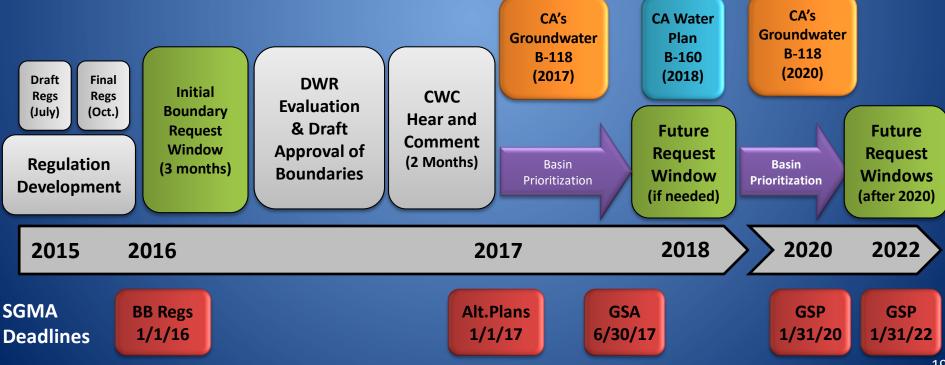


Jan 1st, 2016

Q1, 2017

Boundary Modification Opportunities

- Initial Boundary Modification Request "Window" of 3 months.
- Future Request "Windows" Linked to B-118 updates or more frequent if needed.



Groundwater Basin Boundary Resources

1. DWR Basin Boundary Modification Website (Informational)

http://www.water.ca.gov/groundwater/sgm/basin_boundaries.cfm

SGM Sustainable Groundwater Management



Basin Boundary Modifications

The Sustainable Groundwater Management Act SGMA) established a process for local agencies to request that the Department of Water Resources (DWR) revise the boundaries of existing groundwater basins or subbasins, including the establishment of a new subbasin. California's existing groundwater basin and subbasin boundaries are defined in DWR's Bulletin 118-Update 2003 and are also available for viewing on the Groundwater Basin Boundary Assessment Tool.

The Basin Boundary Emergency Regulation was developed through an extensive stakeholder outreach process and was adopted on October 21, 2015. The provisions of the emergency regulation go into effect on November 16, 2015.

How to Submit Basin Boundary Modification Requests

DWR has developed a Basin Boundary Modification Request System for use by local agencies to submit initial notification and basin boundary modification requests. The system also provides public access to view basin boundary modification information.

Important Note - One of the first steps in the basin boundary modification process is initial notification of a potential basin boundary modification. This process is described in Section 343.9 of the regulation and on the Basin Boundary Modification Request System.

When to Submit Basin Boundary Modification Requests

The following is the anticipated schedule and next steps for basin boundary modifications

Events	Schedule*
Basin Boundary Regulation Effective	November 16, 2015
Basin Boundary Modification Reporting System Available For Submission of Initial Notification (Pursuant to Section 343.9) of Potential Basin Boundary Modifications	November 16, 2015
Basin Boundary Modification Instructional Webinar (Details Available Soon)	December 17, 2016
Basin Boundary Modification Request Submission Period Opens	January 1, 2016
Last Date to Submit Basin Boundary Modification Requests Within the Initial Submission Period	March 31, 2016

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SUSTAINABLE GROUNDWATER MANAGEMENT

Basin Boundary Modifications

Boundary Assessment Tool

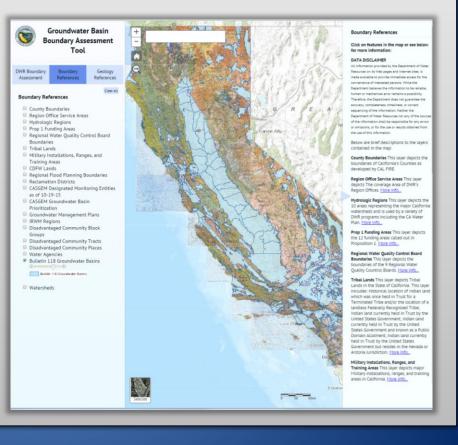
Modification Request System

- Groundwater Sustainability
- Agencies Notices of Intent Table
- GSA Formation Table
- * GSA Interactive Map
- Groundwater Sustainability Plan Regulations
- * Best Management Practices
- Critically Overdrafted Basins Public Comments
- Initial Basin Prioritization
- Communication and Outreach
- Advisory Groups
- Statewide SGMA Calendar
 Region Office Contacts
- Subscribe for Email Updates
- Resources

* SGM Archive



https://gis.water.ca.gov/app/bbat/



Groundwater Basin Boundary Resources

3. DWR Basin Boundary Modification System (Operational)

Local Agency Tools

- Submit Initial Notification
- Submit Boundary Requests

Public Tools

- Table of Boundary Modification Requests
- Map of Boundary Modification Requests

http://sgma.water.ca.gov/basinmod/

Department of Water Resources Basin Boundary Modification Management System

Welcome to the Basin Boundary Modification Request System. The Sustainable Groundwater Management Act (SGMA) established a process for local agencies to request that the Department of Water Resources (DWR) revise the boundaries of a groundwater basin or subbasin, including the establishment of a new subbasin. This tool is for use by local agencies to request basin boundary modifications and for the public to access basin boundary modification information.

Registration and login are required to submit a basin boundary modification request, but are not required to view submitted information.

The system accepts voluntary basin boundary modification requests from local agencies, pursuant to DWR's <u>Basin Boundary emergency regulation</u>. Additional information is available about the <u>existing Bulletin 118 groundwater basins</u> and an <u>interactive map</u> is available to help visualize the Bulletin 118 groundwater basins and other relevant political geologic, and geographic boundaries.

- Upon submission, you will receive an email acknowledging receipt of your initial notification or modification request.
- For assistance with the Basin Boundary Modification System, please email the administrator at <u>Timothy.Godwin@water.ca.gov</u>.

STEP 1:

Basin Boundary Regulations

Became Effective

November 16, 2015

Within <u>15 days</u> of a local agency's decision to explore boundary modification, the relevant local agency shall notify DWR by completing the Initial Notification

STEP 2:

Local Agencies can submit a Basin Boundry Modification Request starting January 1 through March 31, 2016

Local Agency Submissions Tools

Click Here to Submit Initial Notification (Pursuant to Section 343.9) Upcoming Basin Boundary Modification Request Submission Period January 1, 2016 through March 31, 2016

Public and Interested Party Tools

View List of Submitted Initial Notifications

View Map of Submitted Initial Notifications

View List of Submitted Modification Requests

View Map of Submitted Modification Requests

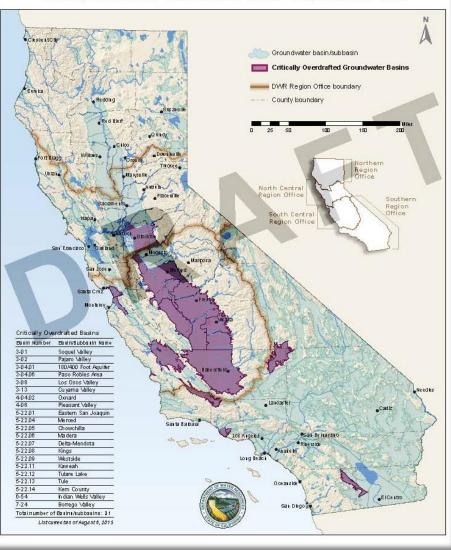
If you are interested in being informed when Basin Boundary Modifications related Actions or any other SGM Program actions are made, please subscribe to email listserv here: <u>http://www.water.ca.gov/groundwater/sgm/subscribe.cfm</u>

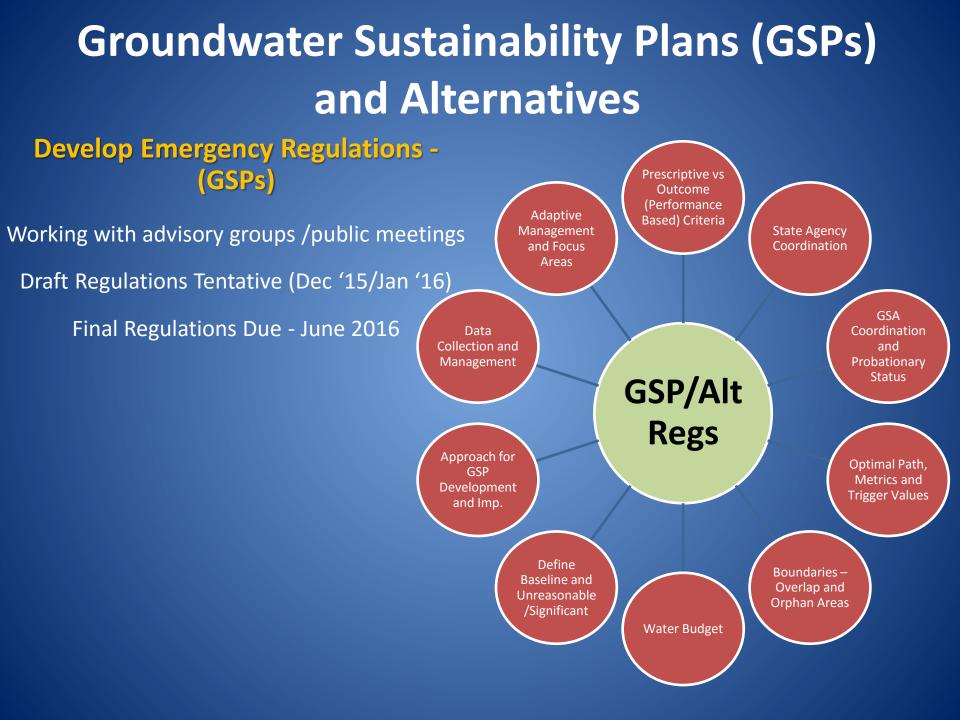
Critically Overdrafted Basins

• GSPs required by 2020

Identify Basins Subject to Critical Conditions of Overdraft

Draft list posted (Aug 19, 2015) Public Comments Closed (Sept 25, 2015) Critically Overdrafted Groundwater Basins - August 6, 2015 Draft



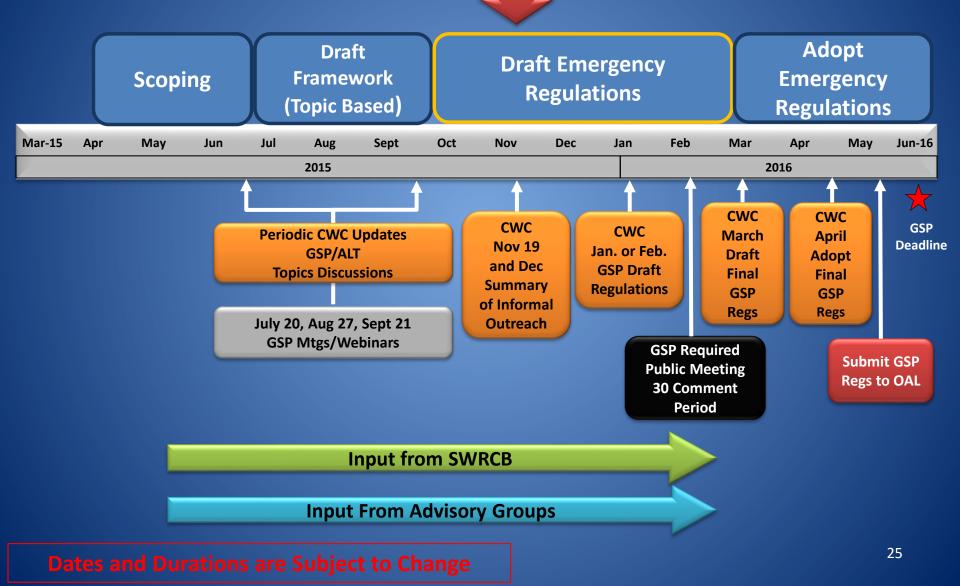


Paths To Sustainability

Three Options (§ 10727)



Groundwater Sustainability Plan (GSP) Emergency Regulations – Detailed Timeline



Potential Regulation Components

Overview	Potential Regulation Content	Stakeholder Input
Governance & Coordination "Who is managing & participating"	Governance Coordination Land Use	All Topics 6 - Coordination Agreements 7 - State Agency Coordination 8 - Water Budgets and Coordination 3 - Land Use & County Involvement
Basin Setting "What are the current conditions"	Basin Conditions	2- Pre SGMA Conditions and Undesirable Results
SGM Planning "How will GW be managed & measured"	Sustainability Goal (Sustainable Yield, SGM) Measurable Objectives & Undesirable Results Monitoring Plan	 Measurable Objectives Pre SGMA Conditions and UR's Water Budgets and Coordination 10 - Adaptive Mgt. and Focus Areas Measurable Objectives Pre SGMA Conditions and UR's Data Collection, Mgt., & Reporting
Evaluation "Reporting, Evaluation, & Adaptive Management"	Implementation & Reporting	9 - Data Collection, Mgt., & Reporting 10 - Adaptive Mgt. and Focus Areas
Equivalent GSPs	Alternative GSPs & Fringe Areas	4 - Alternative GSP 5 - Boundaries, Overlapping & Unmanaged Areas

Assistance to Locals

Facilitation Support Service

Groundwater Sustainability Agency Formation

26 as of September 28, 2015

Senate Bill 13 – Requires Complete Notifications and No Overlapping GSAs

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18 applications5 initial review6 in Scoping7 contracts

Questions

When properly managed, groundwater resources will help protect communities, farms, and the environment against the impacts of prolonged dry periods and climate change.

California Water Action Plan 2014



State: http://groundwater.ca.gov

DWR: http://www.water.ca.gov/groundwater/

SWRCB: http://www.waterboards.ca.gov/water_issues/programs/gmp/

