



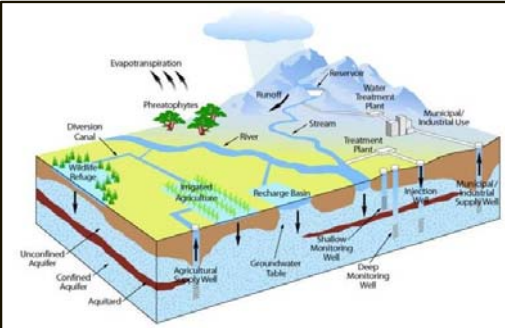

Sustainable Groundwater Management in California

CA Department of Water Resources



Presentation Overview:

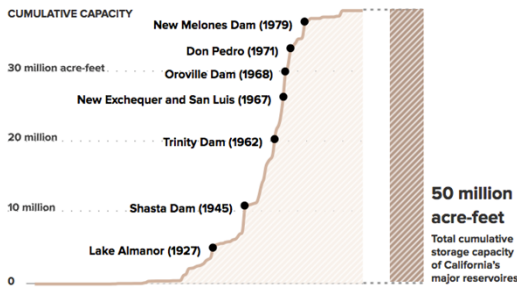
- **Why is Groundwater Important**
- **Sustainable Groundwater Management**
- **SGMA process and timelines**

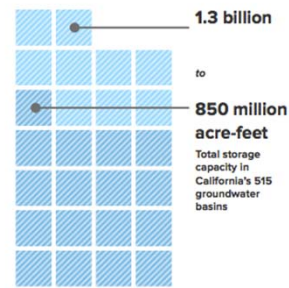
Why is Groundwater Important

- The state’s groundwater storage capacity is more than 10 times that of all surface reservoirs.
- 85% of Californians depend on groundwater for at least part of their drinking water.
- About 5 million acres of farmland in California are irrigated with Groundwater – more in drought years.

Reservoir Capacity



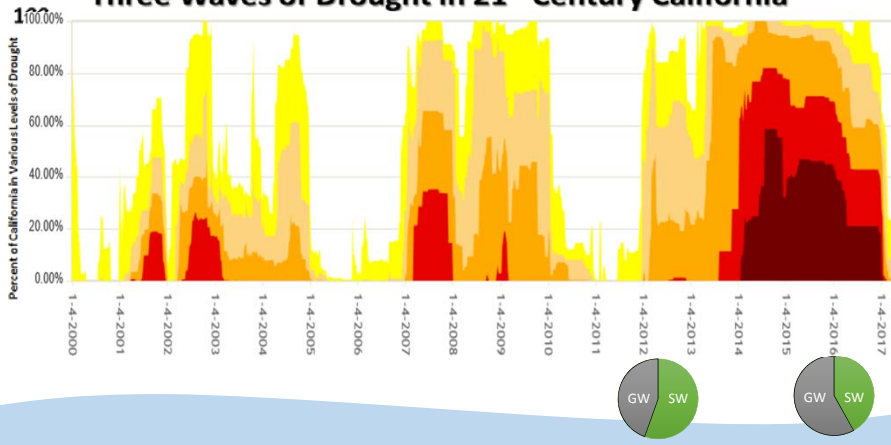
Groundwater Basin Capacity



Why is Groundwater Important

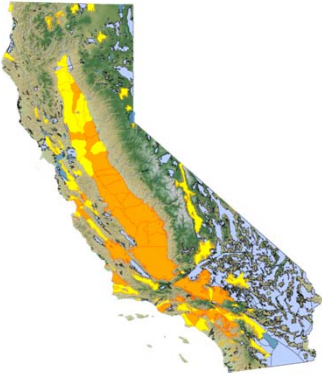
- Groundwater is the State’s savings account that is used during droughts and regulatory restrictions

Three Waves of Drought in 21st Century California




Sustainable Groundwater Management Act General Roles and Responsibilities

**Groundwater Sustainability Plans
Required for All High and Medium
Priority Basins**



Stakeholders




DWR
*Regulating and Assisting
Agency*

SWRCB
*Enforcing
Agency*

GSA
*Planning and
Implementation
Agency*

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Sustainable Groundwater Management Overview



State's Role	<ul style="list-style-type: none"> • Develop regulations and reporting requirements • Technical & Planning Assistance • Evaluation, Assessment, and Implementation • Fee schedule, probationary designation, Intervention
Local's Role	<ul style="list-style-type: none"> • Groundwater Sustainability Agencies (GSA) • Powers & Authorities • Groundwater Sustainability Plan (GSP) • Deadlines

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GSA Formation

- Local Agency or Agencies*
- Public Process

- *[local public agency that has water supply, water management, or land use responsibilities within a groundwater basin]



GSA Formation Steps


- 1) Decision to Form a GSA
- 2) Consideration of Interests of Beneficial Uses and Users of Groundwater
- 3) Submittal of GSA Formation Information to DWR for Completeness Review
- 4) On Determination of complete notice, DWR posts notification
- 5) If no overlap after 90 days, GSA becomes exclusive agency

http://www.water.ca.gov/groundwater/sgm/pdfs/GSA_Notification_Requirements_v2_2016-01-06.pdf





Possible GSA/GSP Organization




- One GSA – One GSP
- Multiple GSAs – One GSP
- Multiple GSAs – Multiple GSPs

– Must show coordinated management for sustainability through the whole basin







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GSP Regulations Plan Contents



<p>1. Administrative Information</p> <ul style="list-style-type: none"> § 354.4. General Information § 354.6. Agency Information § 354.8. Description of Plan Area § 354.10. Notice & Communication <p>2. Basin Setting</p> <ul style="list-style-type: none"> § 354.14. Hydrogeologic Conceptual Model § 354.16. Groundwater Conditions § 354.18. Water Budget § 354.20. Management Areas 	<p>3. Sustainable Management Criteria</p> <ul style="list-style-type: none"> § 354.24. Sustainability Goal § 354.26. Undesirable Results § 354.28. Minimum Thresholds § 354.30. Measurable Objectives <p>4. Monitoring Networks</p> <ul style="list-style-type: none"> § 354.34. Monitoring Network § 354.36. Representative Monitoring § 354.38. Assessment & Improvement § 354.40. Reporting Monitoring Data to the Department <p>5. Projects and Management Actions</p> <ul style="list-style-type: none"> § 354.44. Projects & Management Actions
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Undesirable Results
Significant and Unreasonable

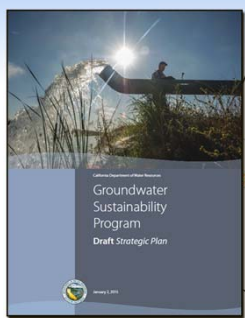

					
Lowering GW Levels	Reduction of Storage	Seawater Intrusion	Degraded Quality	Land Subsidence	Surface Water Depletion

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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

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

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



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