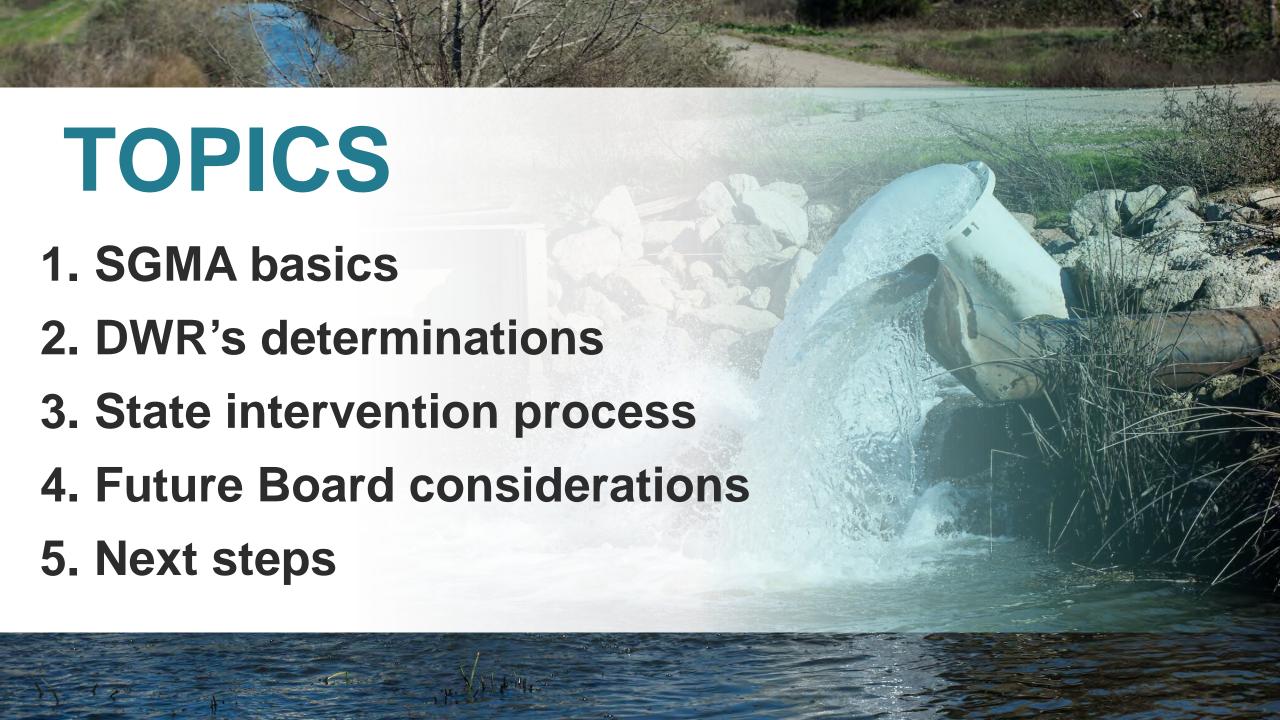
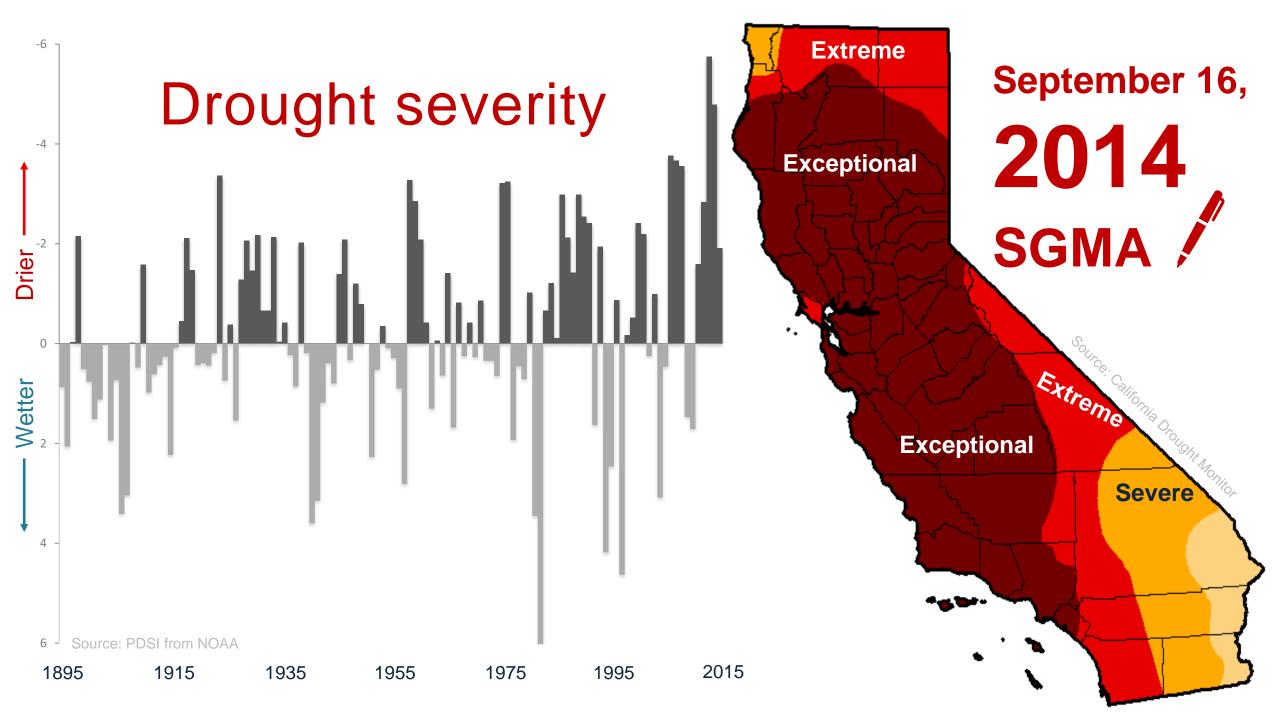
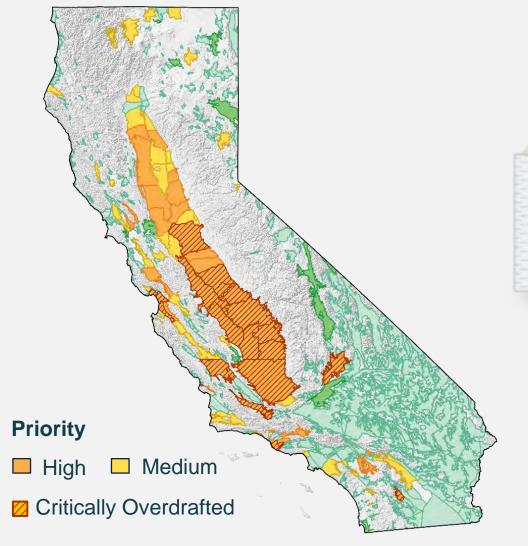


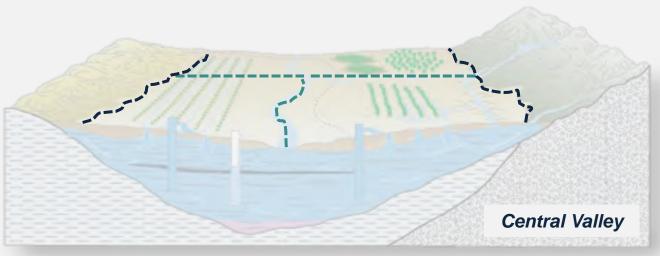
State Water Resources Control Board





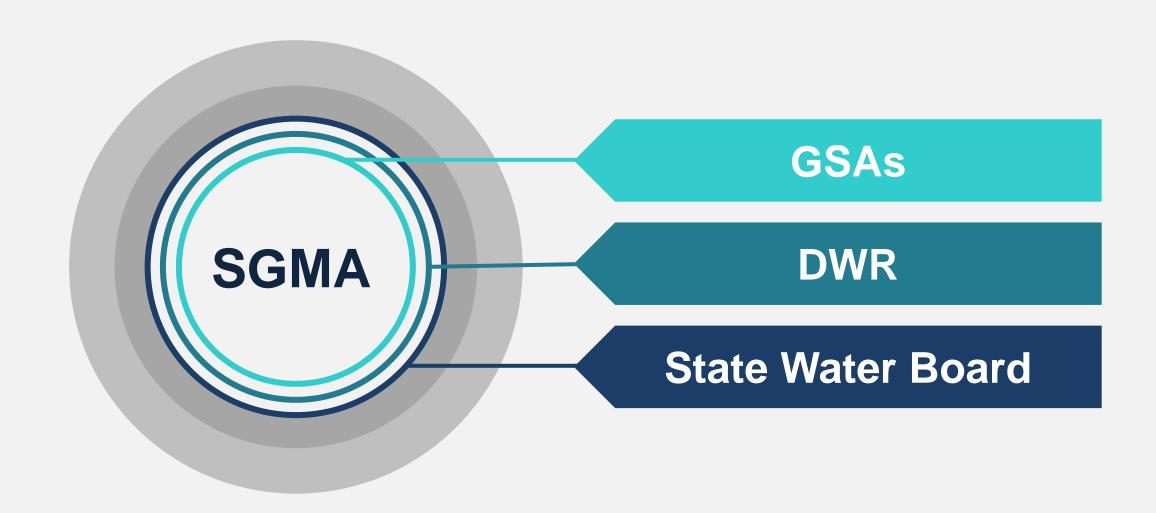
# SGMA AT THE BASIN SCALE





**Basins & Subbasins** 

### SGMA AUTHORITIES



### What is Sustainability? Basin operated within its sustainable yield and not experiencing undesirable results: Significant and unreasonable... Degraded Surface Lowering Storage Seawater Land **GW Levels** Reduction Subsidence **Depletion** Intrusion Quality

...caused by groundwater conditions occurring throughout the basin.

GSAs aren't required to address undesirable results occurring prior to 2015

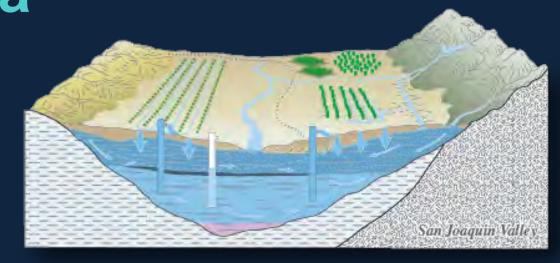
## **GSP Elements**

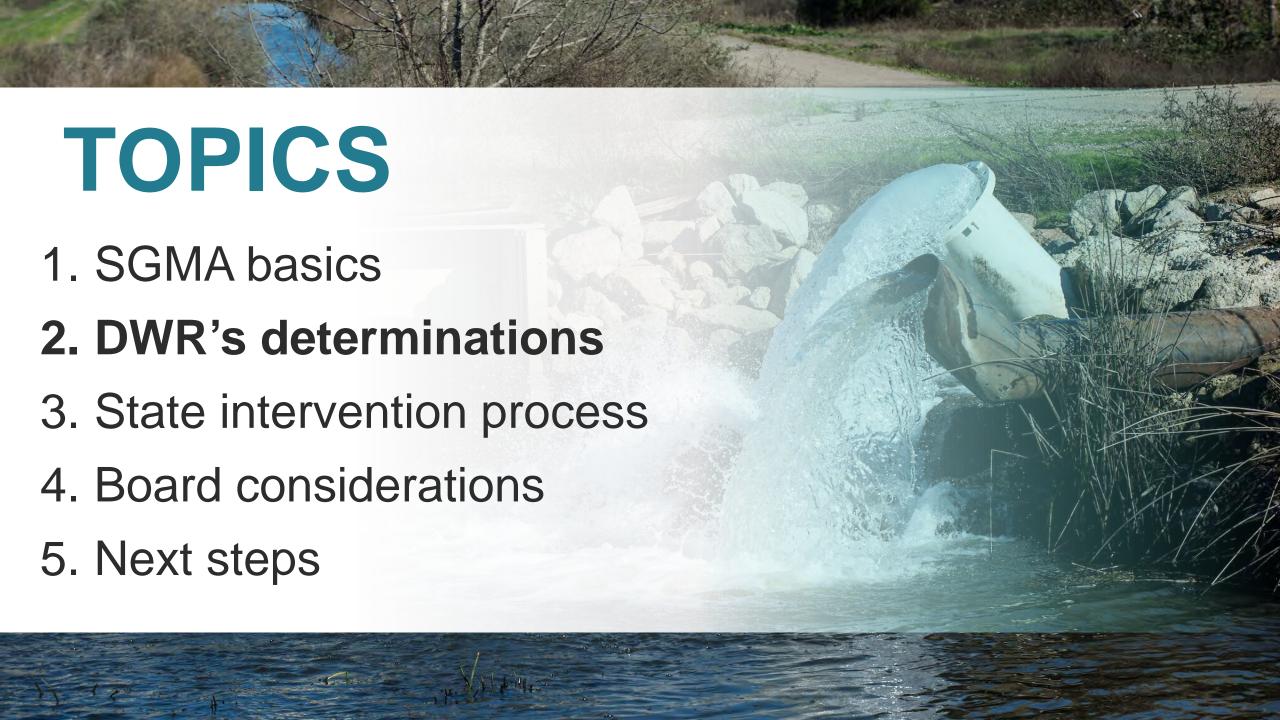
**Groundwater Conditions** 

Sustainability Criteria

Monitoring

**Projects & Actions** 



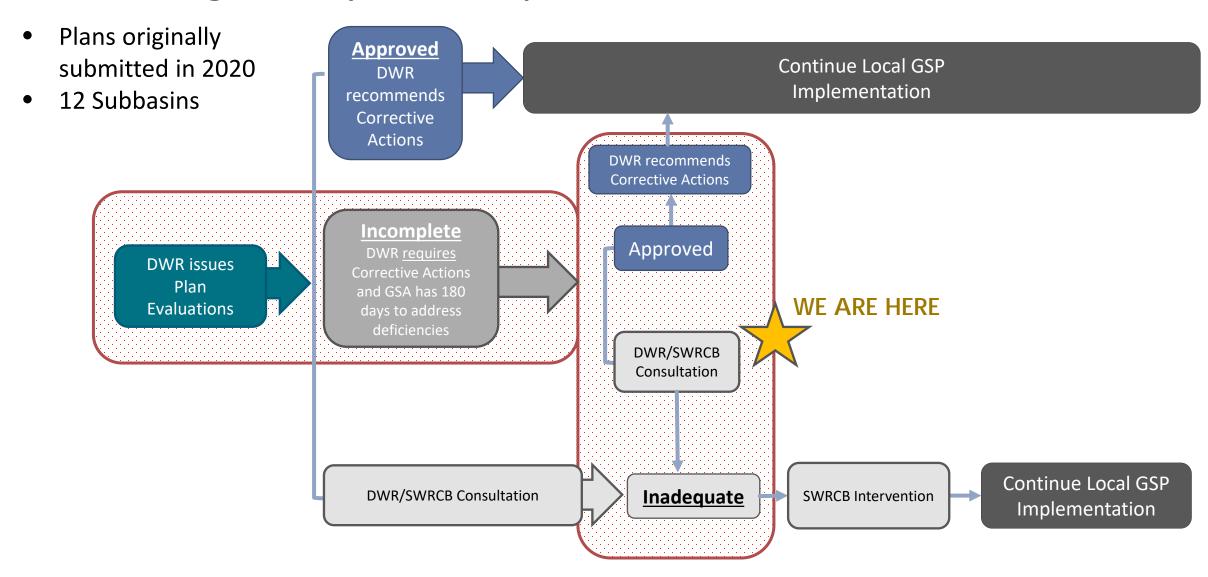


### **GSP & Alternatives Evaluation Submittals**

- Critically Overdrafted (COD) Basins
  - 21 basins submitted 46 GSPs by January 31, 2020
  - 12 of the 21 basins were deemed Incomplete by DWR in January 2022 and resubmitted their GSPs in July 2022
- High and Medium Priority Basins (Non-COD)
  - 63 basins submitted 65 GSPs by January 31, 2022
  - DWR Approved 4 basins January 2023
- Alternatives to GSPs
  - Alternatives were initially submitted by January 1, 2017
  - DWR Approved 9 Alternatives in 2019
  - Basins submitted 9 Alternatives for Periodic Evaluation by January 1, 2022 (the five-year plan update)



### SGMA Regulatory Pathways and Recent Determinations



### APPROVED SUBBASINS

#### **APPROVED:**

- Eastern San Joaquin Subbasin
- Merced Subbasin
- Westside Subbasin
- Paso Robles Subbasin
- Cuyama Subbasin
- Kings Subbasin\*

\*Multi-GSP Subbasin



#### <u>Sufficient Action Taken to Address Deficiencies (General):</u>

- Groundwater Levels: Conducted analysis to show effects on beneficial users, modified management criteria based on analysis of water levels, and proposed or developed detailed framework for well mitigation program
- Land Subsidence: Modified management criteria (minimum thresholds) related to subsidence rates/extent, identified critical infrastructure, and coordinating with key interested parties
- **Water Quality**: Collected additional data, coordinated with the Regional Boards, re-established management criteria consistent with state drinking water standards
- Interconnected Surface Water (ISW): Asking GSAs to continue to fill data gaps, collect additional monitoring data, and manage depletions of ISW and define segments of interconnectivity and timing

### INADEQUATE SUBBASINS

#### **INADEQUATE**:

- Chowchilla Subbasin
- Tulare Lake Subbasin
- Delta Mendota Subbasin\*
- Kaweah Subbasin\*
- Tule Subbasin\*
- Kern Subbasin\*

\*Multi-GSP Subbasin



### <u>Did Not Take Sufficient Action to Address Deficiencies</u> (General):

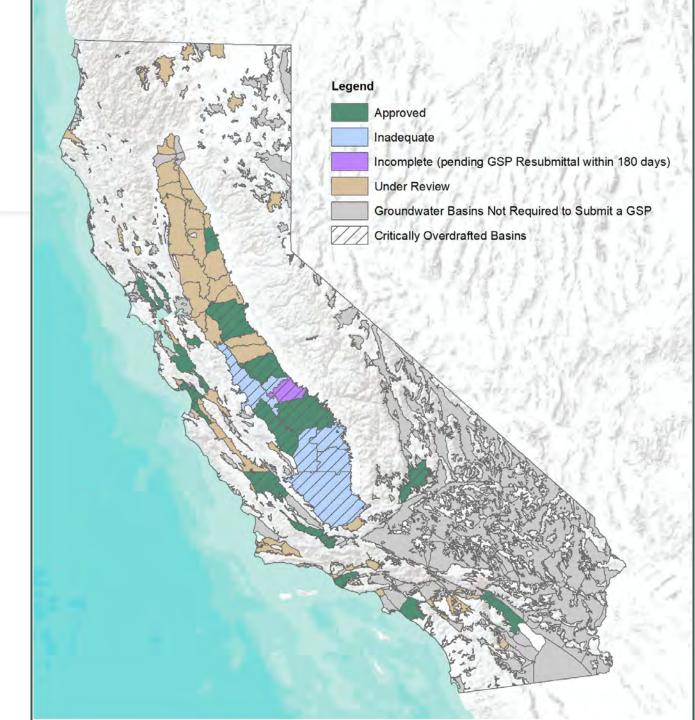
- Groundwater Levels: did not conduct sufficient analysis to show effects on beneficial users, lowered management criteria of water levels, and did not propose or develop a detailed framework for well mitigation program
- Land Subsidence: Did not modify management criteria (minimum thresholds) related to subsidence rates/extent, significant subsidence anticipated beyond 2040, did not identify critical infrastructure or coordinate with key interested parties
- Water Quality: Established management criteria and defined undesirable results in a way that would not be applicable for extended periods of time

# **Approved Plan Determinations**

18
Basins

#### **Approved Basins:**

- Santa Cruz Mid-County Basin
- 2. 180/400 Foot Aquifer Subbasin
- 3. North Yuba Subbasin
- 4. South Yuba Subbasin
- 5. Oxnard Basin
- 6. Pleasant Valley Subbasin
- 7. Las Posas Basin
- 8. Indian Wells Valley Basin
- 9. Sonoma Valley Subbasin
- 10. Petaluma Valley Basin
- 11. Napa Valley Subbasin
- 12. Santa Rosa Plains Subbasin
- 13. Eastern San Joaquin Subbasin
- 14. Merced Subbasin
- 15. Paso Robles Subbasin
- 16. Cuyama Basin
- 17. Westside Subbasin
- 18. Kings Subbasin\*



<sup>\*</sup>Multi-Plan Basin

## Non-Approved Plan Determinations

6 Basins

#### **INADEQUATE BASINS:**

- 1. Chowchilla Subbasin
- 2. Tulare Lake Subbasin
- Delta Mendota Subbasin\*
- 4. Kaweah Subbasin\*
- Tule Subbasin\*
- 6. Kern Subbasin\*

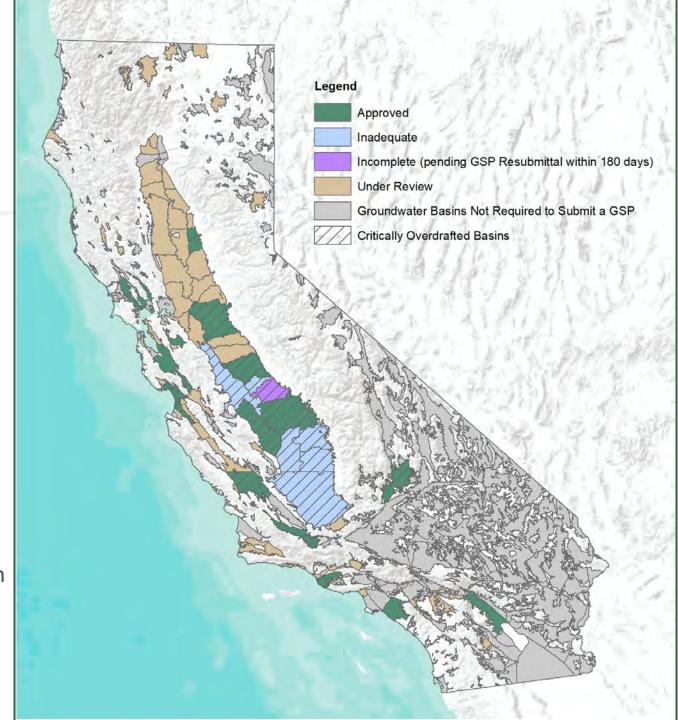


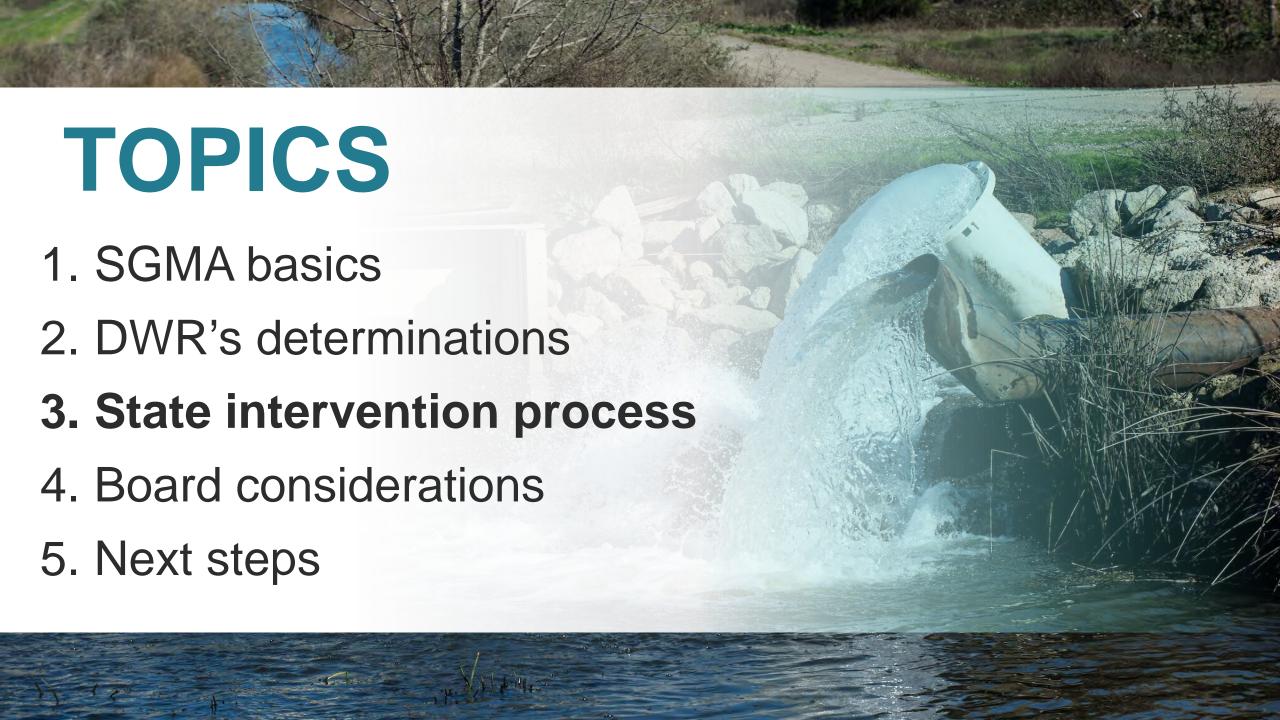
#### **INCOMPLETE BASIN**

(180 days to address deficiencies):

7. Madera Subbasin\* – Resubmitted on March 24, 2023

\*Multi-Plan Basins

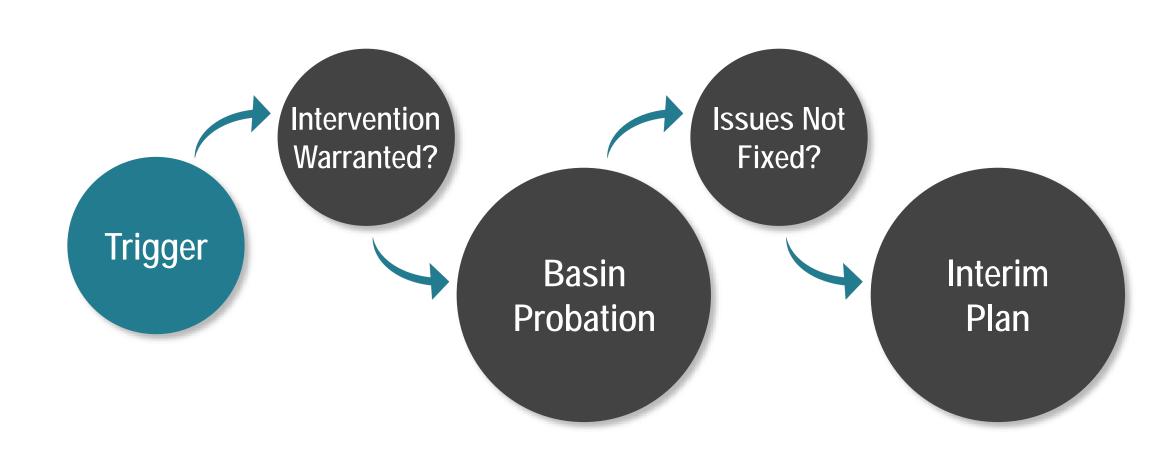






- Board only steps in when local efforts are inadequate
- 2 Backstop is triggered by deadlines and deficiencies
- Board role is intended to be temporary

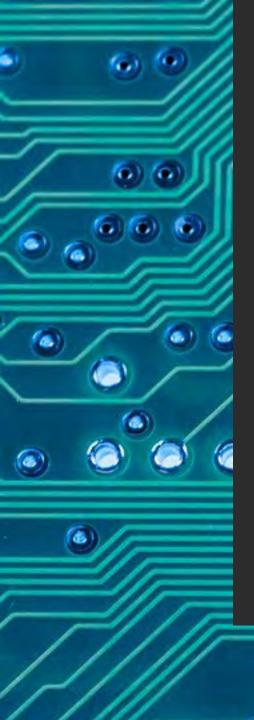
## State Intervention



# Probationary BASIN groundwater BASIN

- Board identifies deficiencies
- GSAs have time to address issues & continue to implement their plans
- Extractors begin reporting
- Board may require meters
- Board recovers costs via fees





### Extraction REPORTS

Reports are submitted annually.

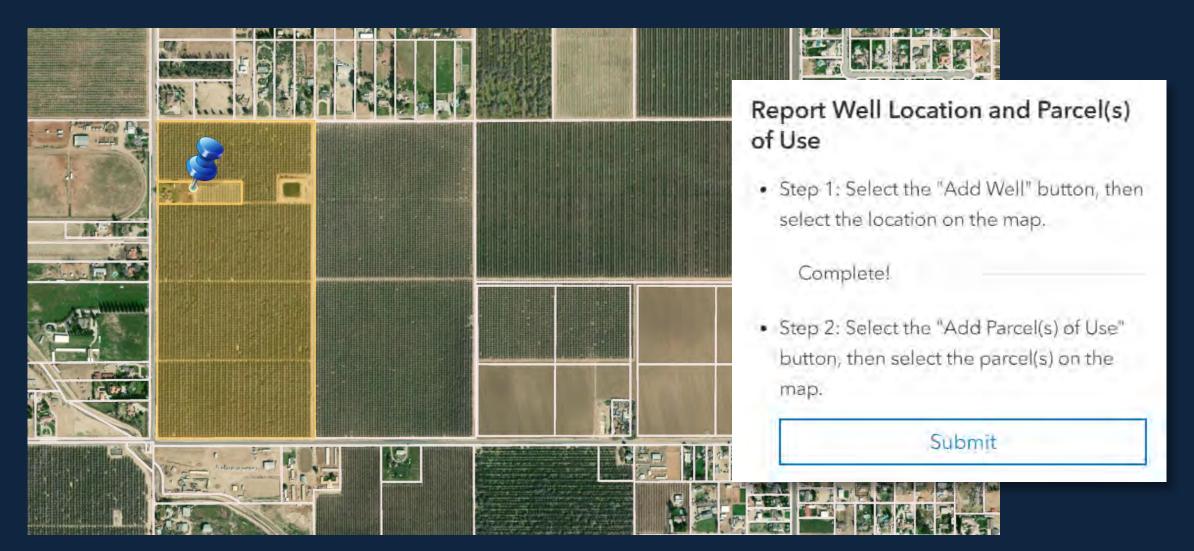
Reports require...

- well location & capacity
- monthly extraction volumes
- place & purpose of use

Reports must be filed electronically.

Information on extraction reports is available at <a href="https://www.waterboards.ca.gov/sgma/reporting\_and\_fees.html">https://www.waterboards.ca.gov/sgma/reporting\_and\_fees.html</a>.

# GEARS Groundwater Extraction Annual Reporting System



### FEES: Pumpers who must report





**Volumetric** Rate (per acre-foot)



Late Fee (per month)

\$300°

Unmanaged

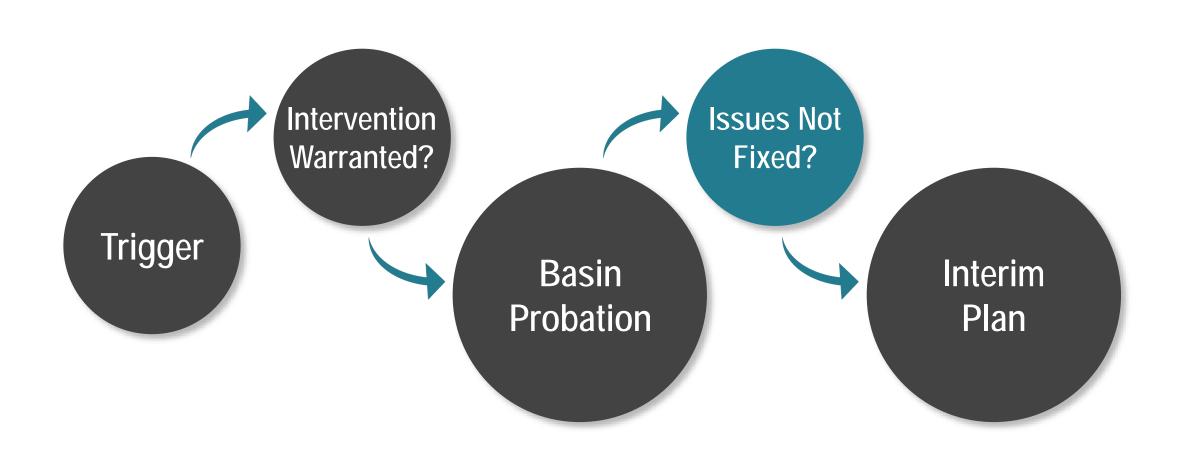
Interim Plan

**Probation** 

**Notes:** 

Fees are subject to change Special studies may incur additional costs Small domestic well owners likely exempt Waivers for DACs

## State Intervention





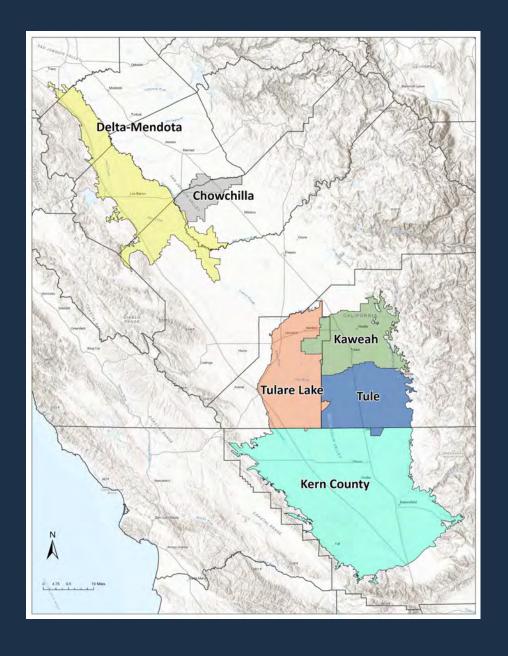
### **DWR Determinations**

### **Groundwater Sustainability Plans**



#### **Basins with Inadequate Plans:**

- 1. Chowchilla Subbasin
- 2. Delta-Mendota Subbasin
- 3. Kaweah Subbasin
- 4. Tule Subbasin
- 5. Kern County Subbasin
- 6. Tulare Lake Subbasin



### **State Intervention Timeline**

If Board determines state intervention is warranted

### DWR Determination

Inadequate?

Not likely to achieve sustainability

### **Board** Consideration

Board receipt and evaluation of DWR determination

#### **Noticing**

Public notice of hearing and contact cities and counties

At least 90 days in advance of hearing\*

#### Board Probationary Hearing

Board decides whether probation is warranted

## If Basin Designated Probationary

Board collects data and fees; local agencies work to fix plan

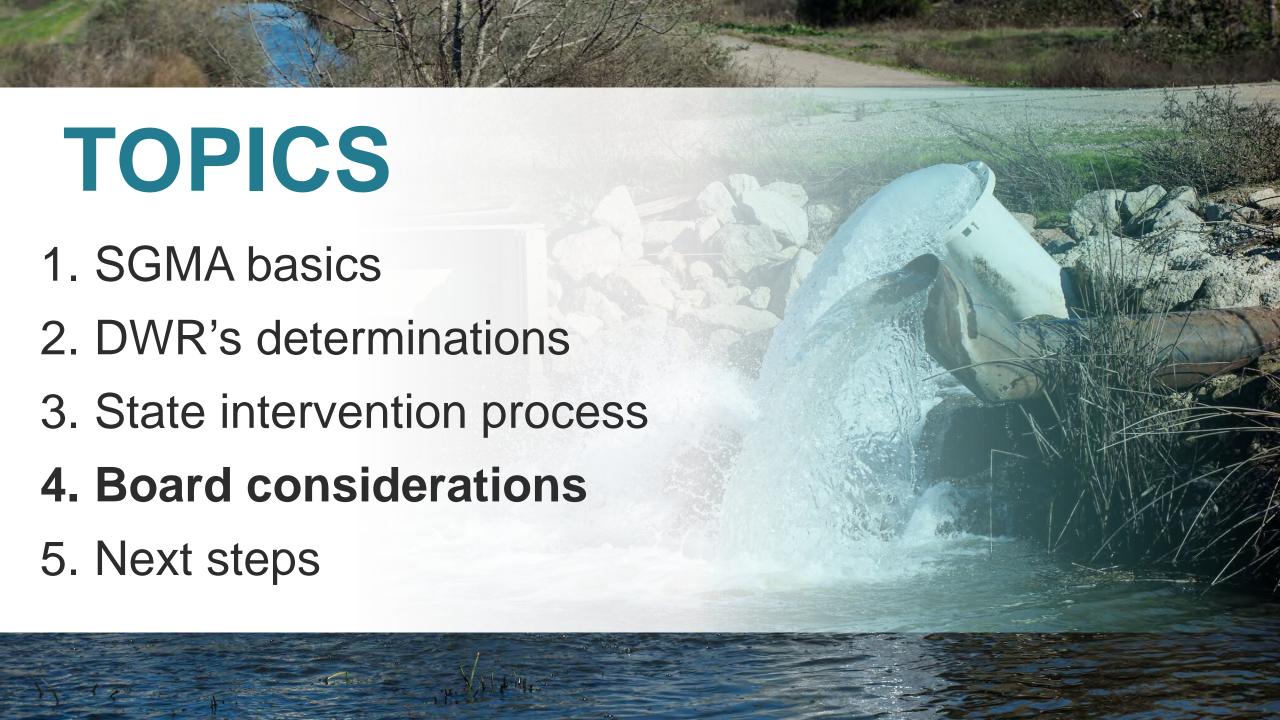
### If Deficiencies are Not Cured

Board consideration of developing and adopting an interim plan

After at least 1 year \*

#### **Board - DWR coordination**

\*Statutory minimum. Board has discretion.





- Timelines for Hearings
  How many basins and when?
- Prioritizing Basins
  Order of probationary hearings

# OPTIONS Timelines for Hearings

- All six basins in close succession (3-6 months)
- One basin at a time (2-3 years)
- Three basins at a time (6-12 months)
- Other options

## Example Timeline

2023-2025

May 2023

**Sep 2023** 

**Dec 2023** 

**Sep 2024** 

Feb 2025

**Apr 2025** 



Hearing Notice Mailed



Probation Hearing



Extraction Measurement Begins



Earliest
Possible
Interim Plan
Notice



First Reports
Due



**First Fees Due** 

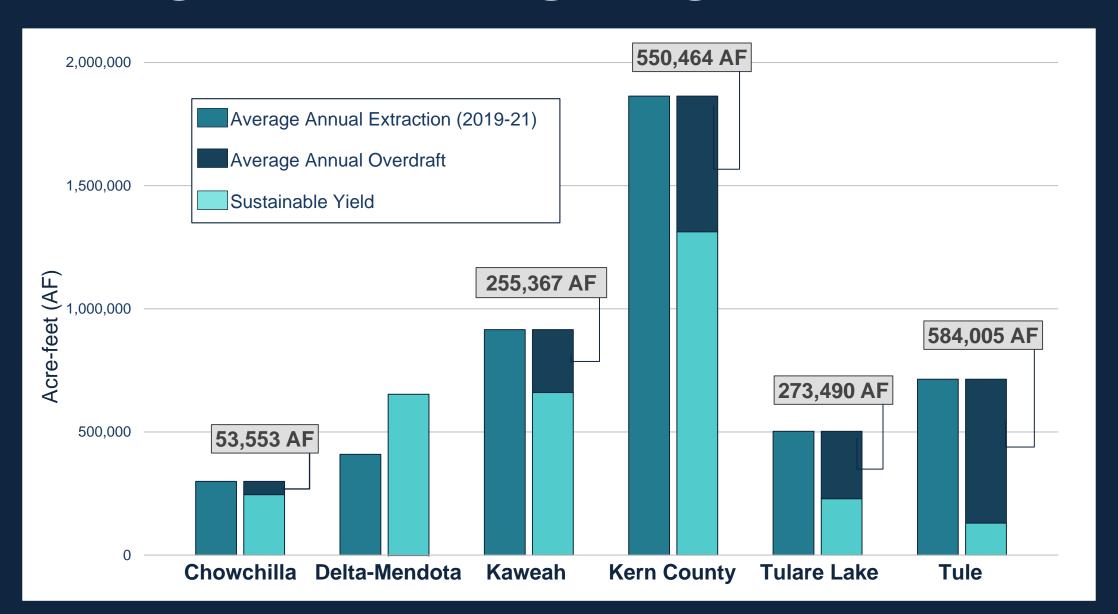
# **OPTIONS** Prioritizing Basins

- Basin overdraft
- Drinking water impacts
- Subsidence impacts
- Water quality degradation
- Implementation & coordination

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### REPORTED BASIN OVERDRAFT



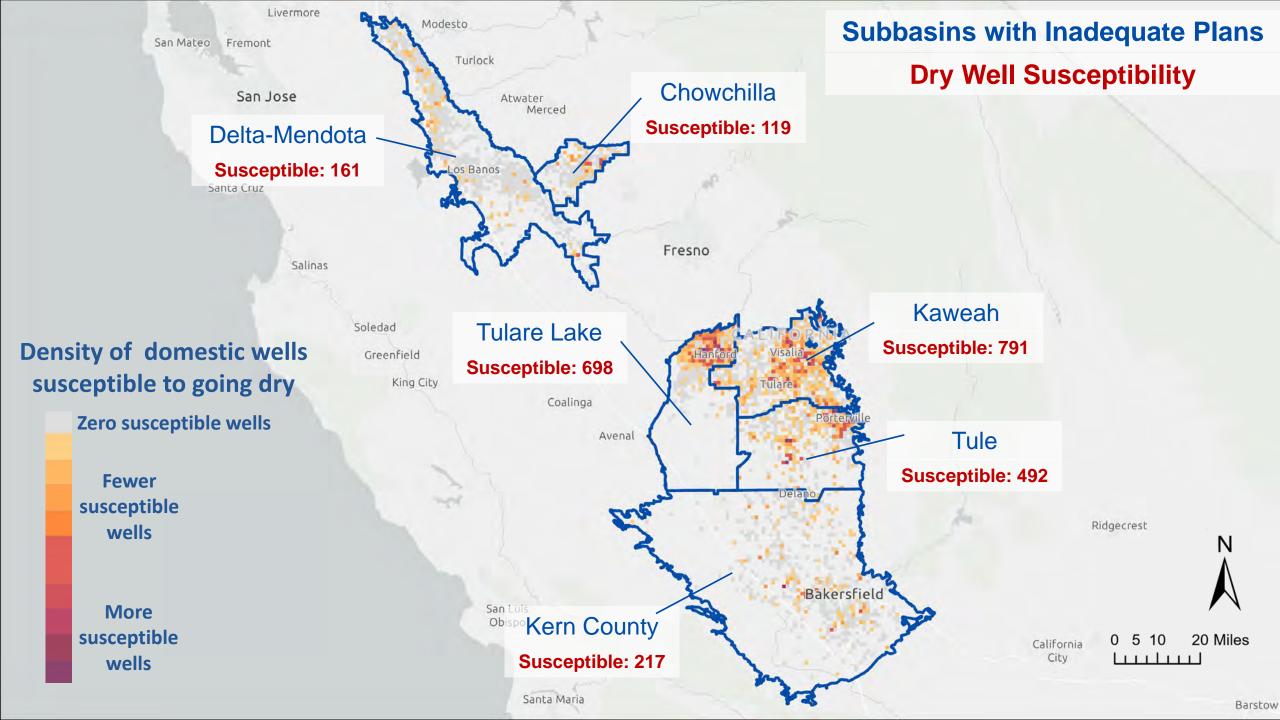
### REPORTED BASIN OVERDRAFT

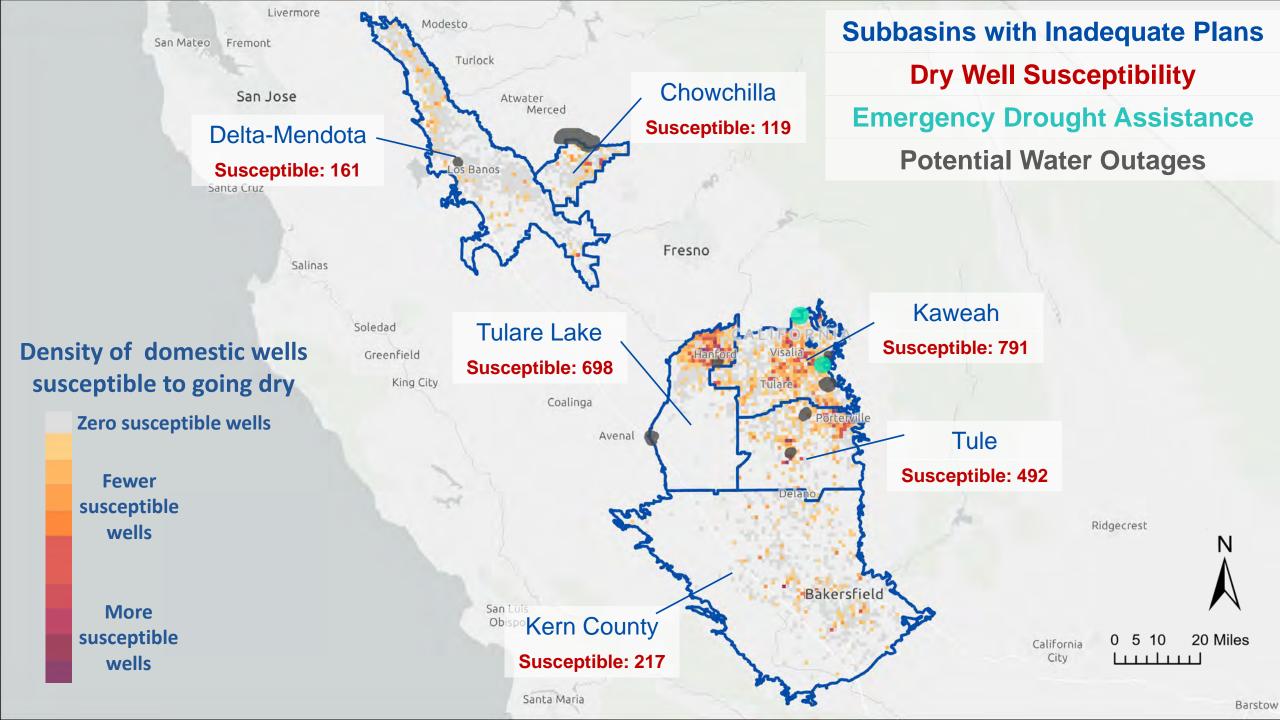
Basin	Sustainable Yield (SY)	Average Annual Extraction, 2019-2021	Average Annual Overdraft	Average Annual Extraction as % of SY
	Acre-feet per year			,
Chowchilla	245,700	299,253	53,553	122%
Delta-Mendota	653,000	409,000	-244,000	63%
Kaweah	660,000	915,367	255,367	139%
Kern County	1,313,000	1,863,464	550,464	142%
Tulare Lake	229,220	502,710	273,490	219%
Tule	130,000	714,005	584,005	549%
Sum	3,230,920	4,703,799	1,472,879	N/A

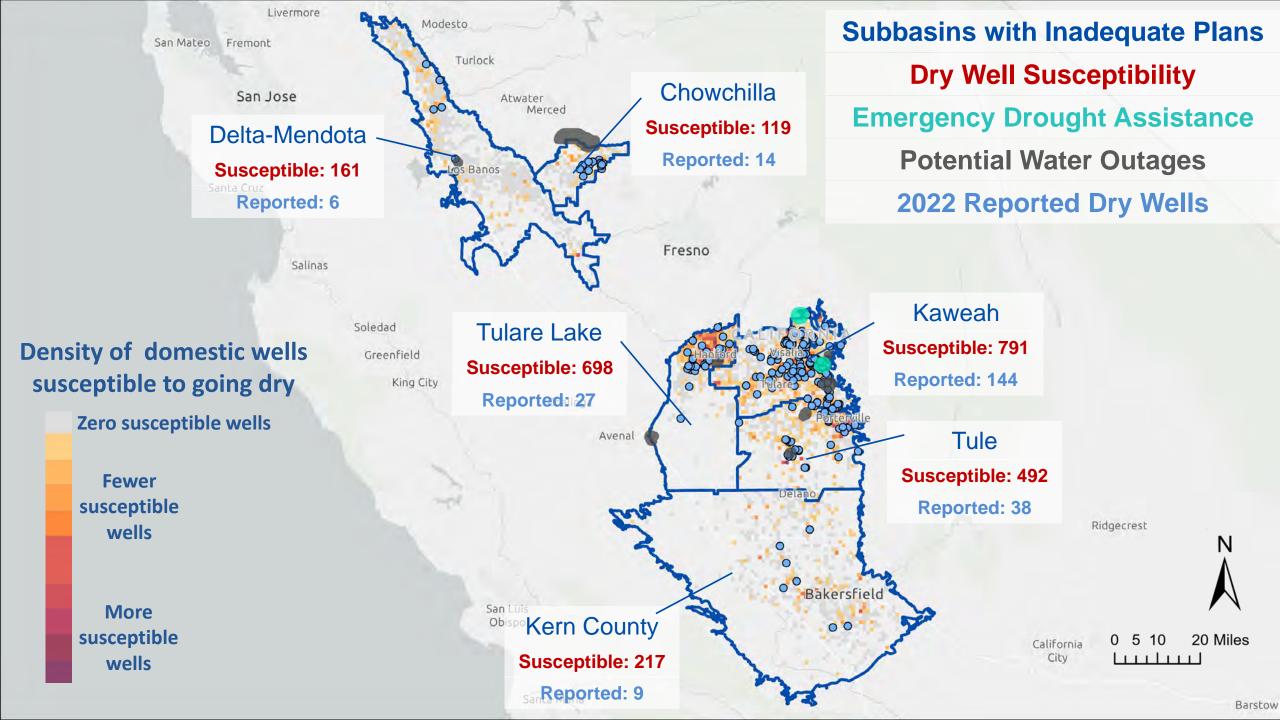
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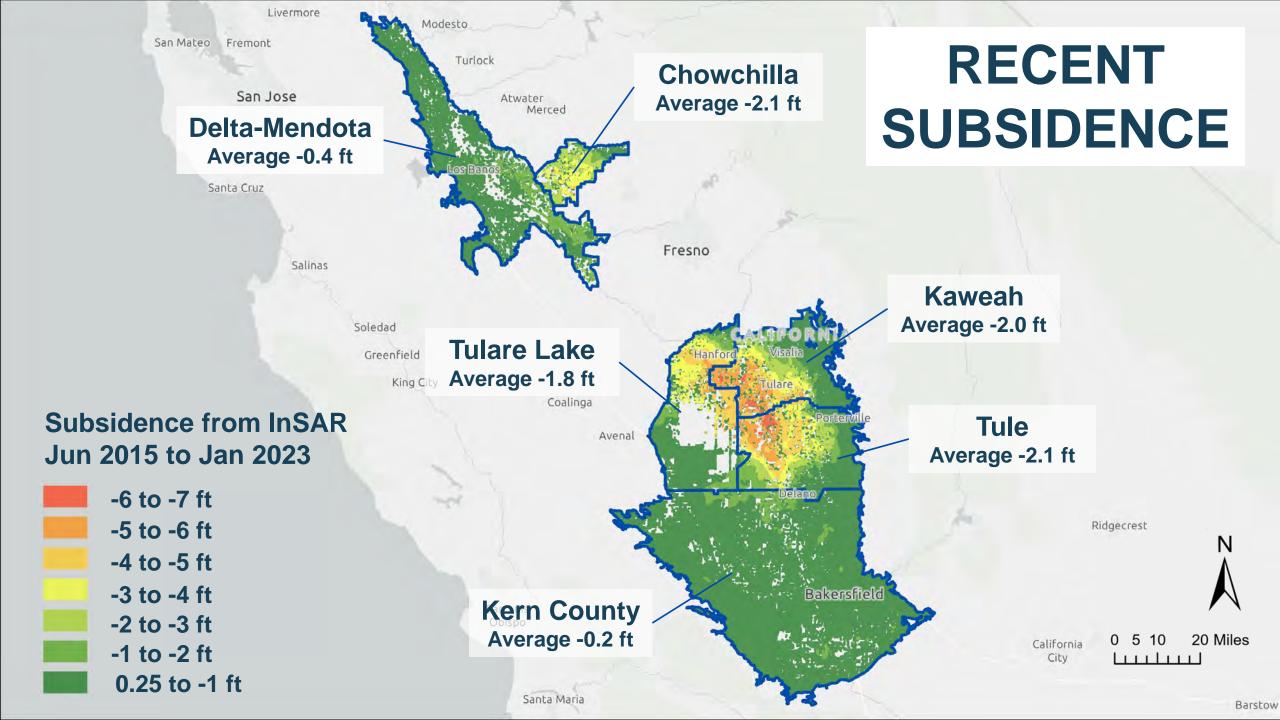






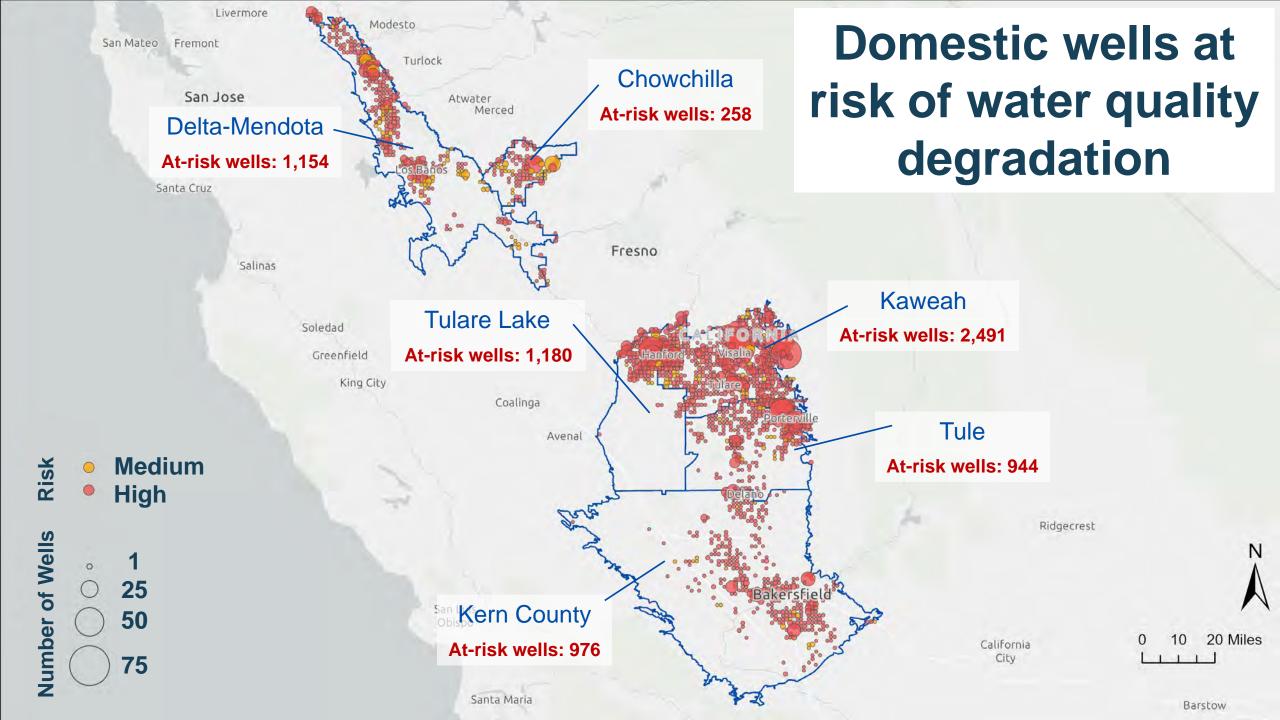
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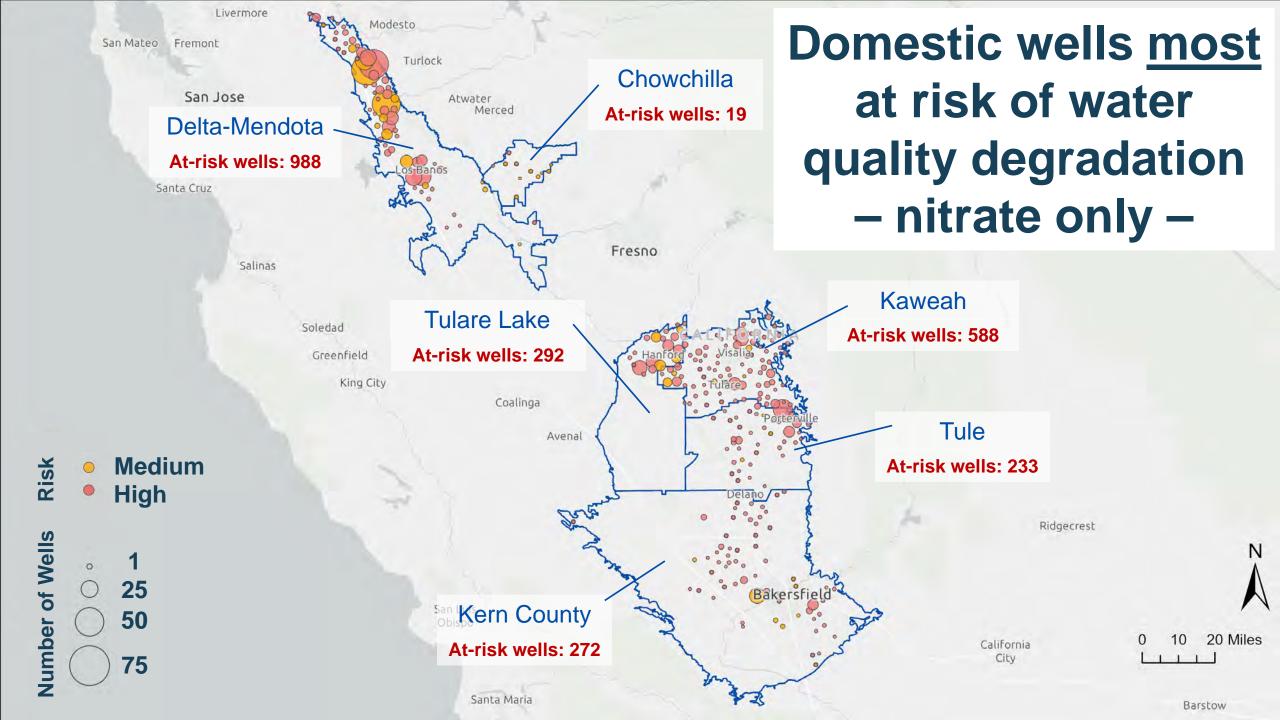
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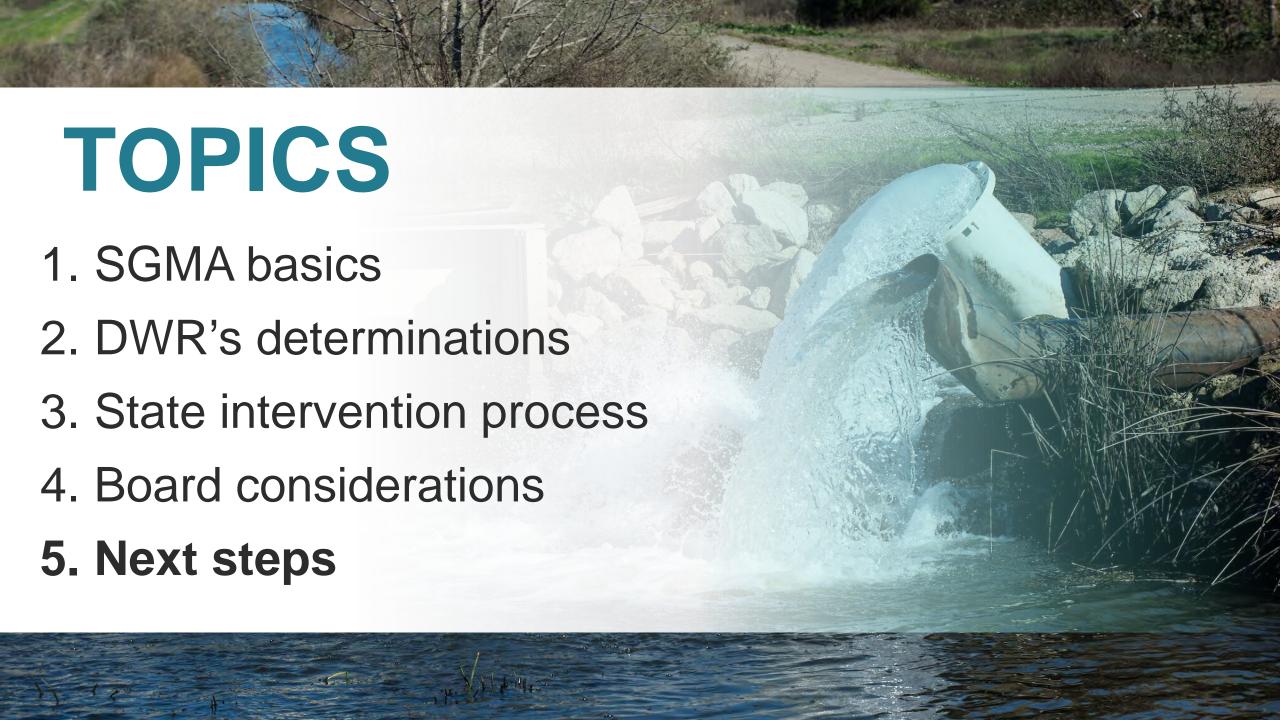
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## OPTIONS Prioritizing Basins

- Overdraft
- Drinking water impacts
- Subsidence impacts
- Water quality degradation
- Implementation & coordination



## STEPS if Moving to Hearing

- Minimum 90-day & 60-day notices
- Draft deficiencies identified
- Public comment period
- Outreach and public engagement
- Staff evaluation of information received

### BOARD RESOURCES

- GSA Look-Up Map tool
- Fact Sheets
- Water Quality Map tool



#### Natalie Stork & John Coburn Groundwater Management Program



SGMA@waterboards.ca.gov www.waterboards.ca.gov/sgma

