

Drought & Groundwater Update

SWRCB Board Meeting

June 15, 2021 – Item 8



CALIFORNIA DEPARTMENT OF WATER RESOURCES
SUSTAINABLE GROUNDWATER
MANAGEMENT OFFICE

Overview

- California's Groundwater
- Current Groundwater Conditions
- Update on Groundwater Related Drought Efforts
 - Household Water Supply Shortage Reporting
 - Drinking Water Well Principles and Strategies

California's Groundwater

In an average year,
about

40%

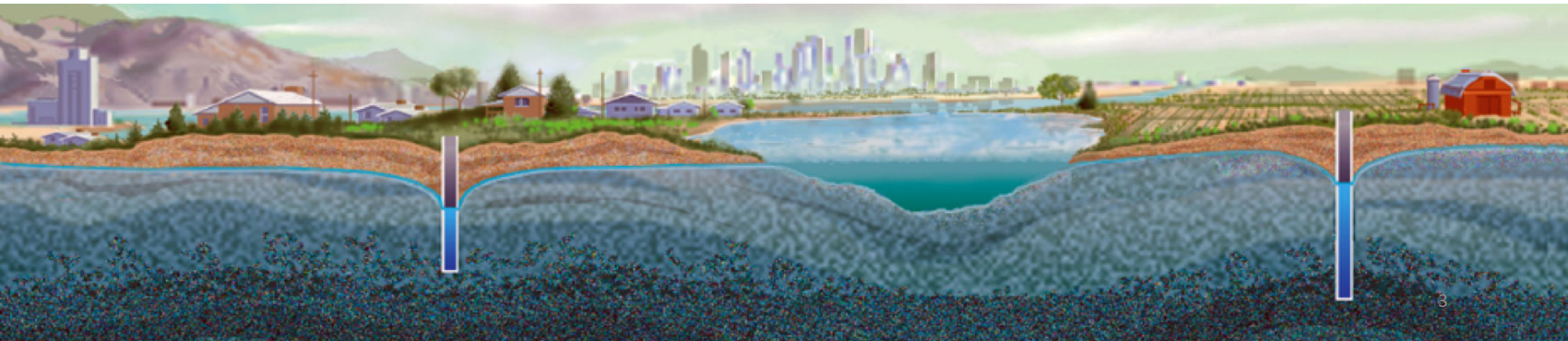
of California's water supply comes from
groundwater

In dry years,
almost

60%

85%

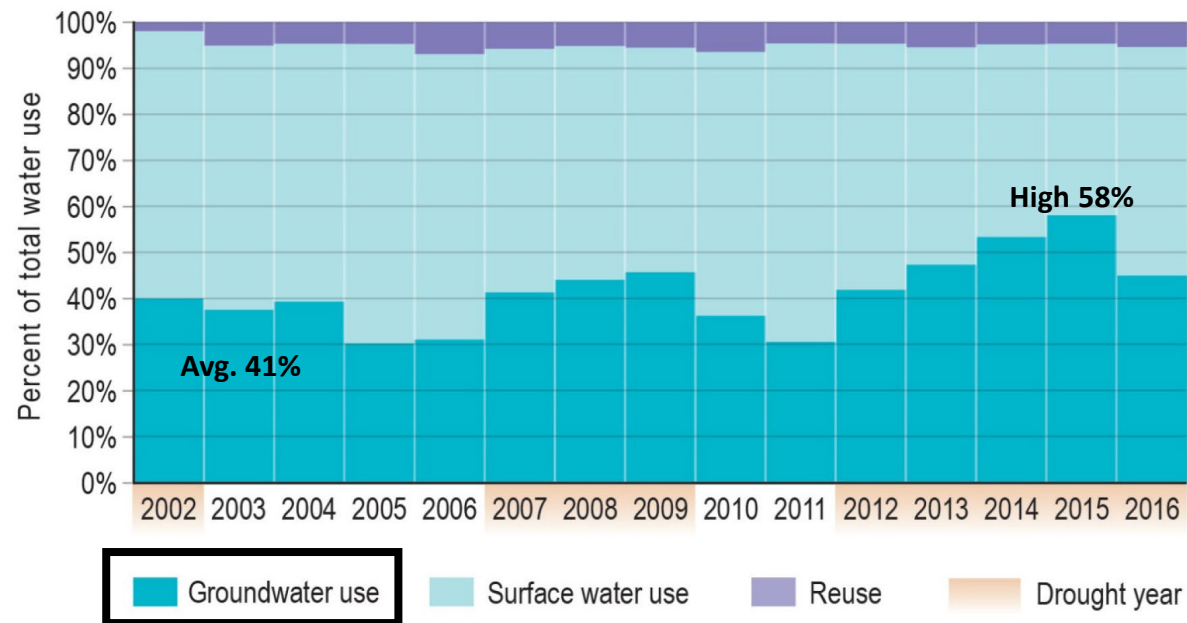
of Californians
rely on groundwater



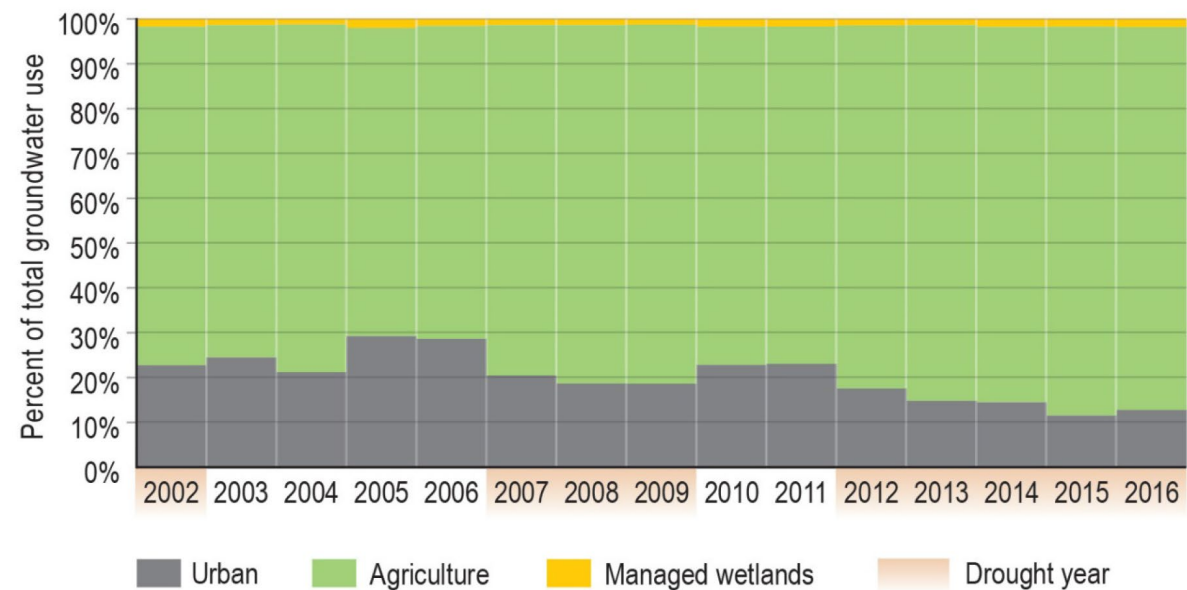
Long Term Trends in Water Use (2002-2016)



Annual Water Use by Source

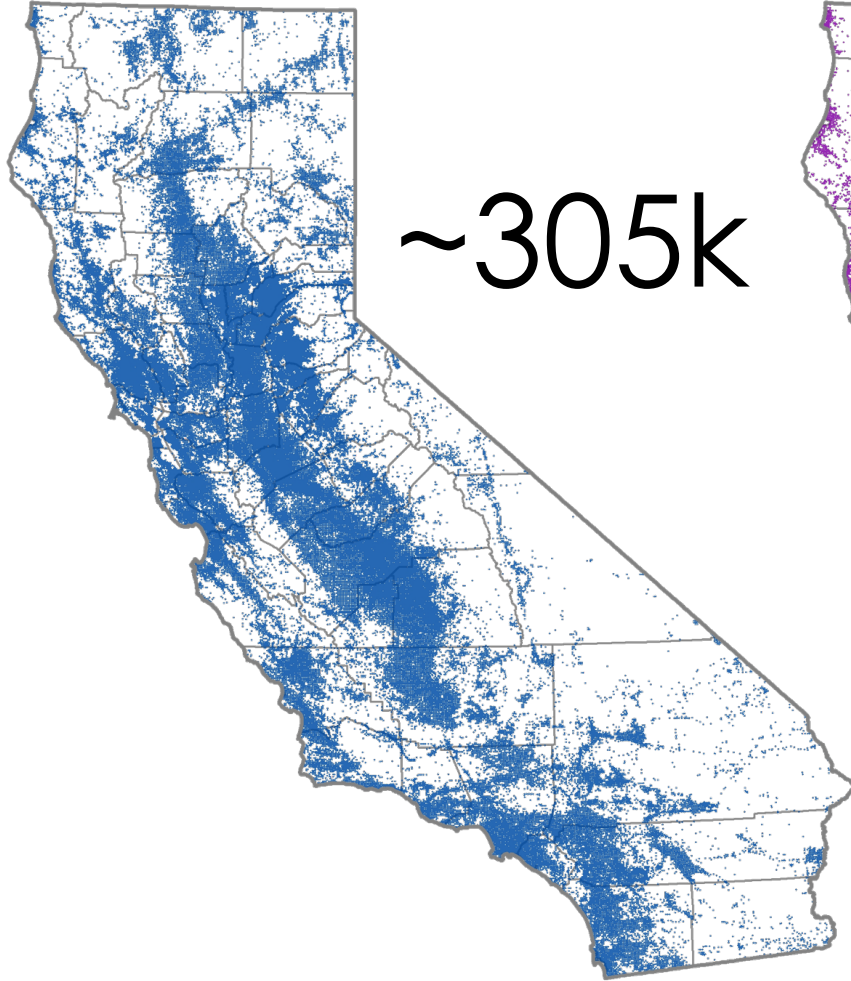


Annual Groundwater Use by Sector

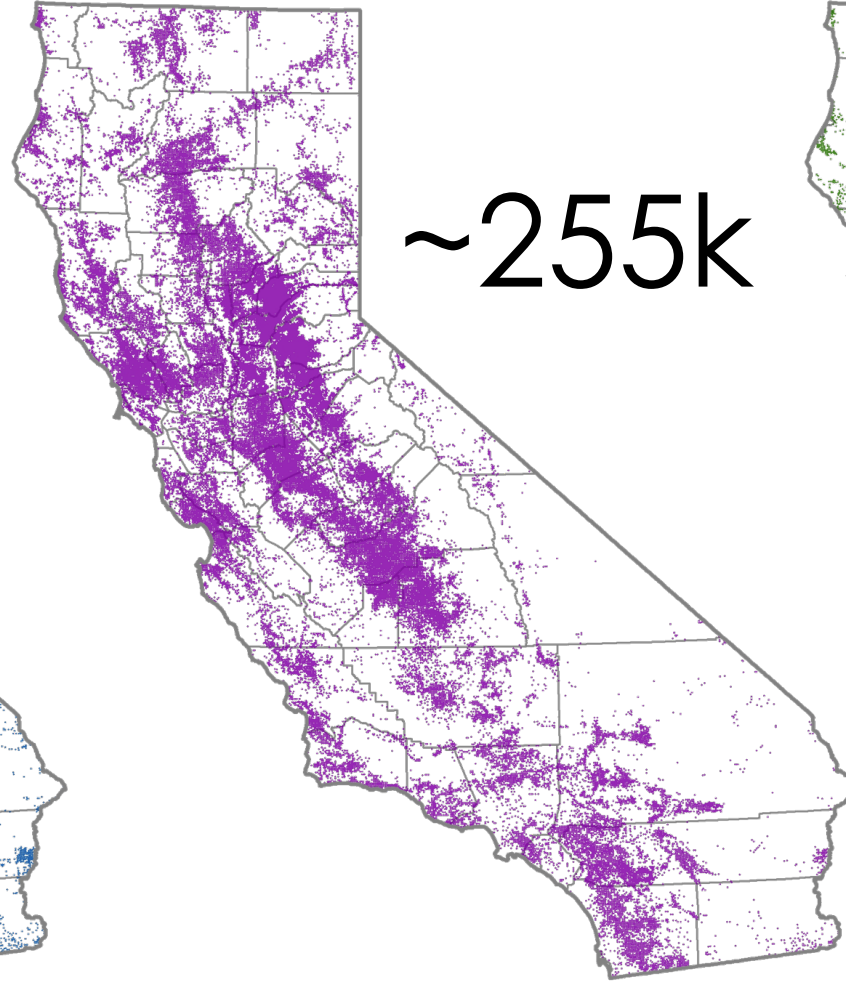


California's Groundwater Infrastructure

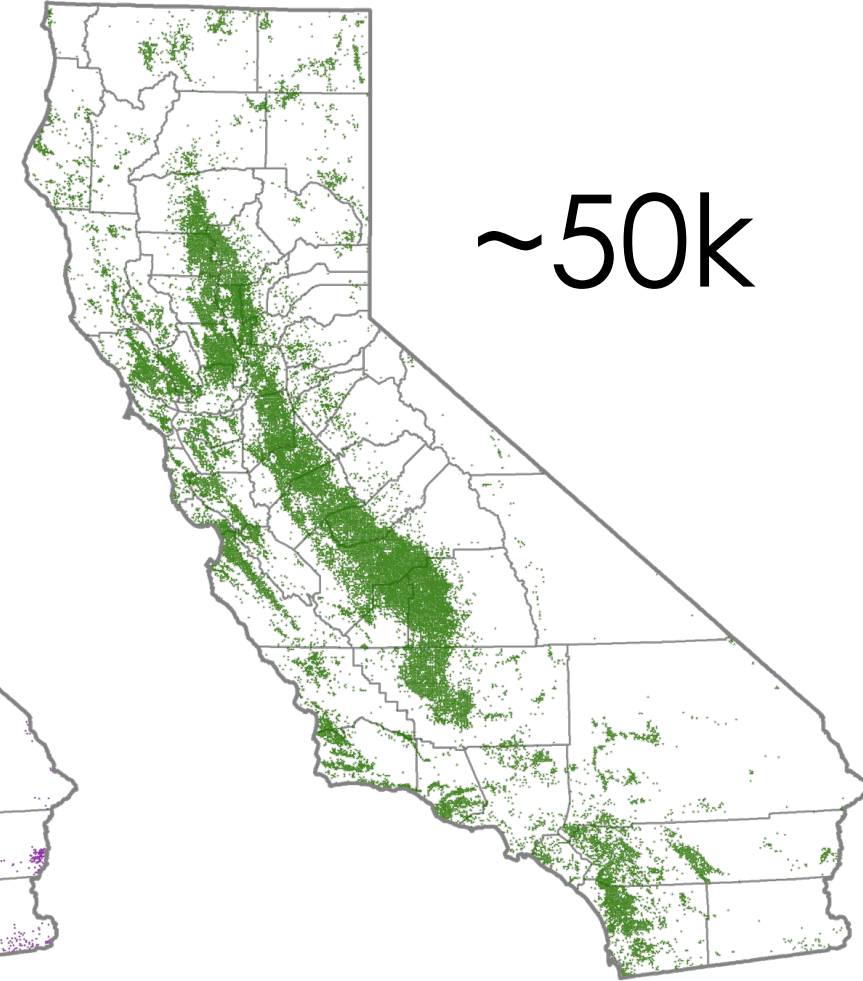
Production Wells Completion Reports
(1977 to Present)



Drinking Water Well Completion Reports
(1977 to Present)



Irrigation Wells Completion Reports
(1977 to Present)

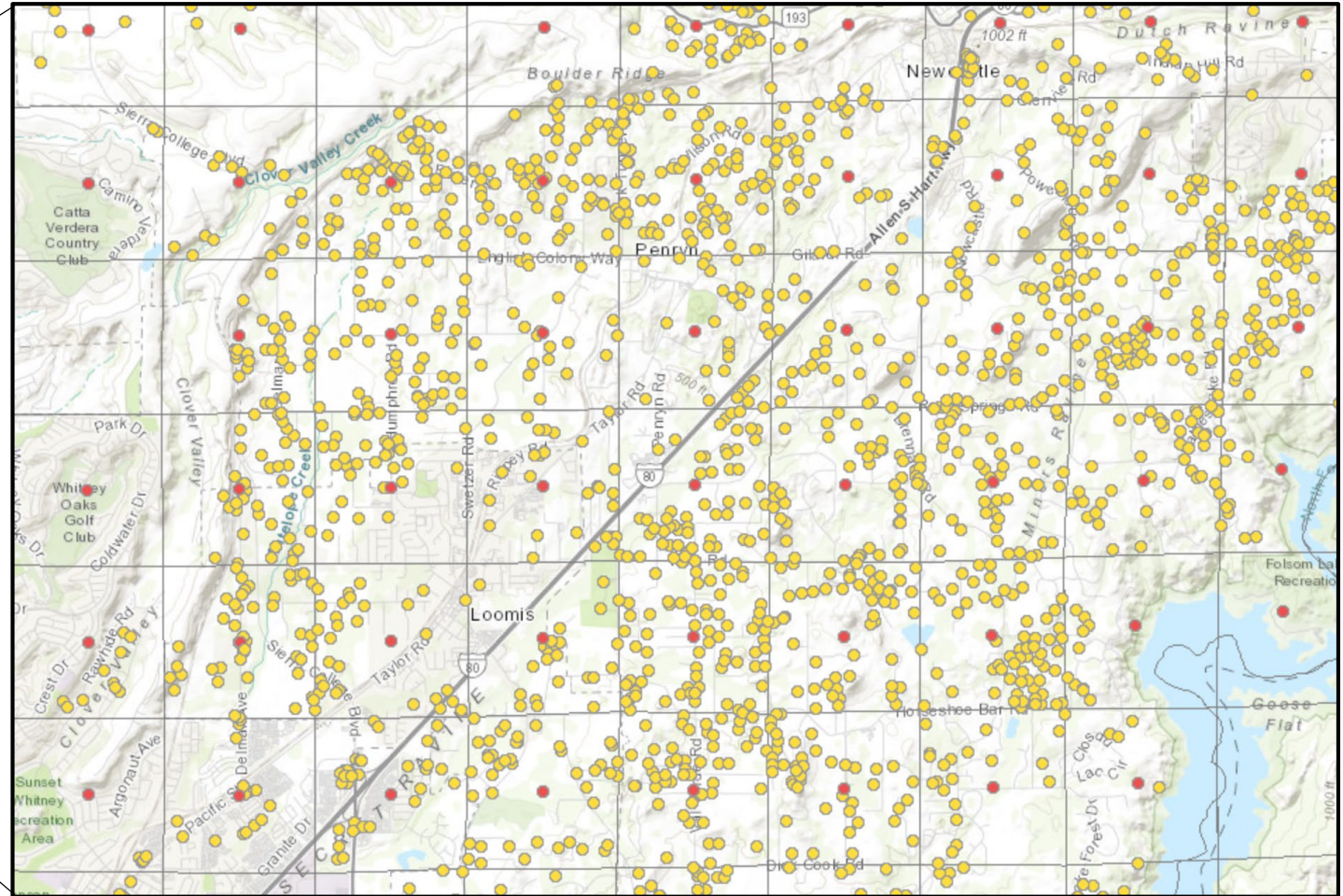
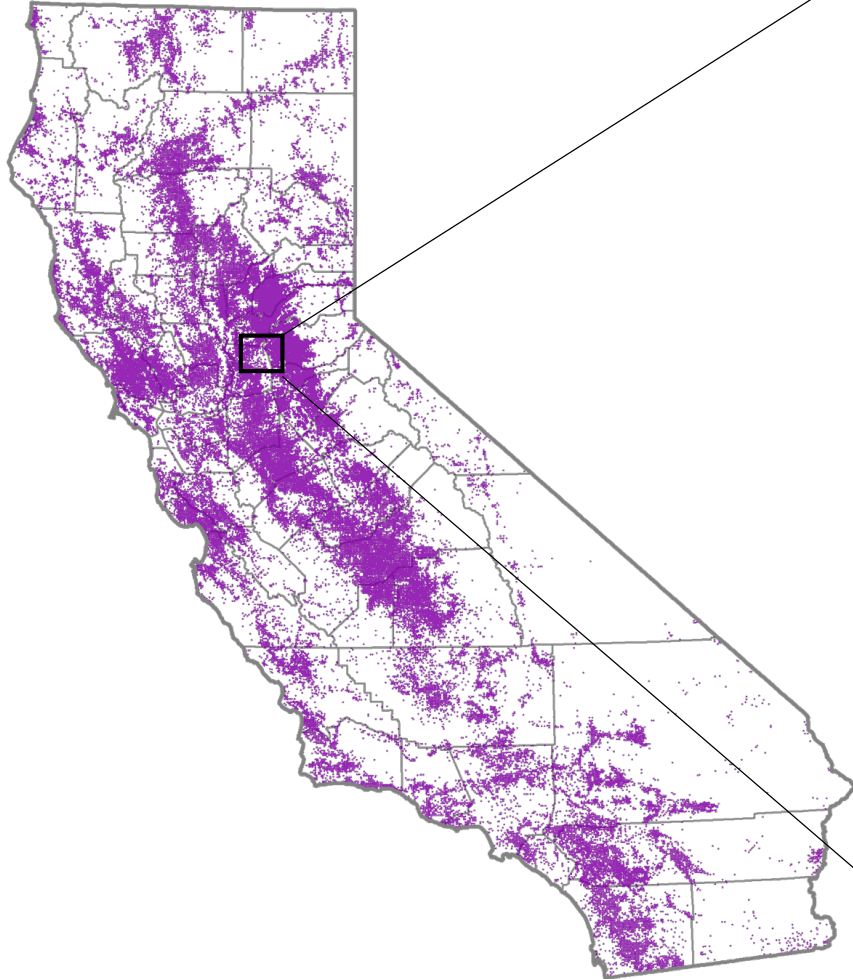


DWR's Well Completion Reports: <https://water.ca.gov/Programs/Groundwater-Management/Wells/Well-Completion-Reports>

Data available on CNRA Open Data: <https://data.cnra.ca.gov/>

California's Groundwater Infrastructure

Drinking Water Well Completion Reports
(1977 to Present)

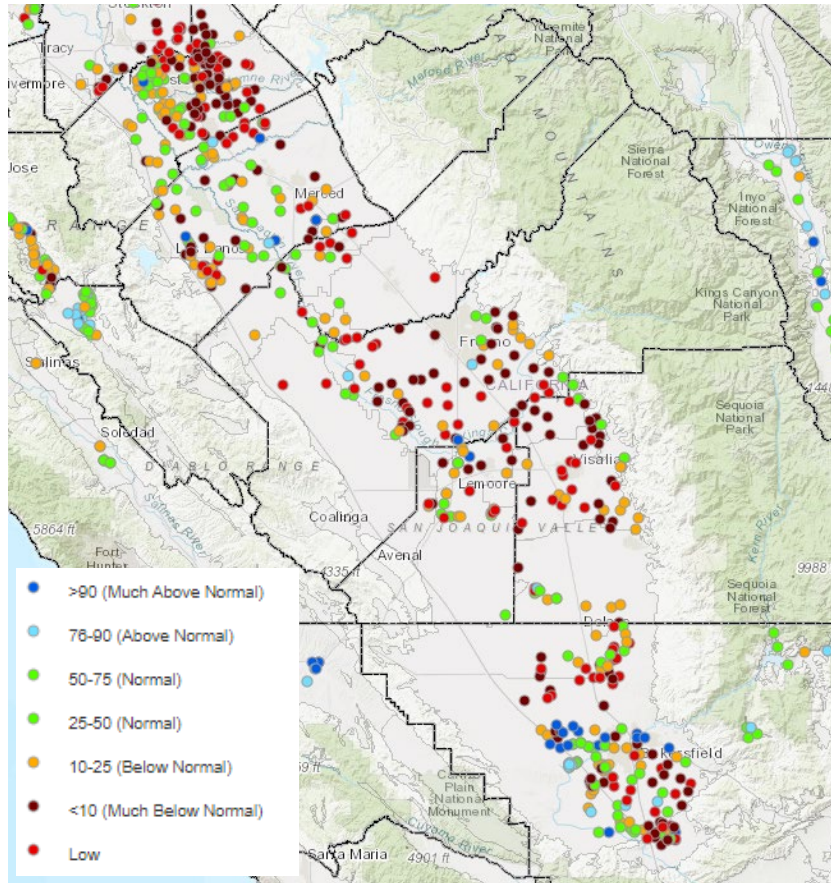


DWR's Well Completion Reports: <https://water.ca.gov/Programs/Groundwater-Management/Wells/Well-Completion-Reports>

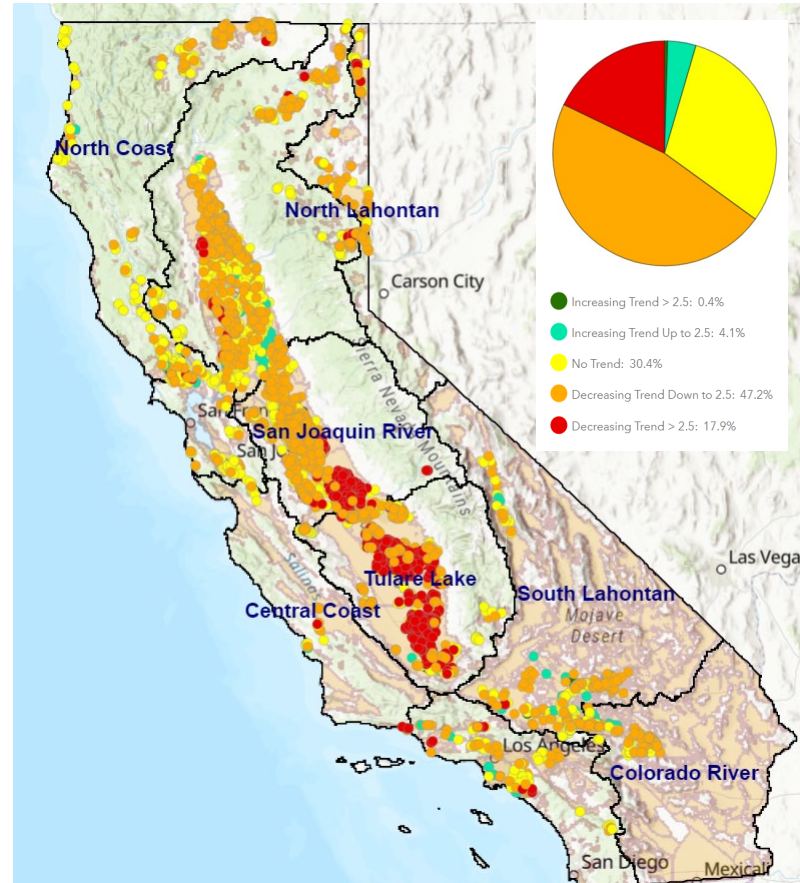
Data available on CNRA Open Data: <https://data.cnra.ca.gov/>

Groundwater Conditions

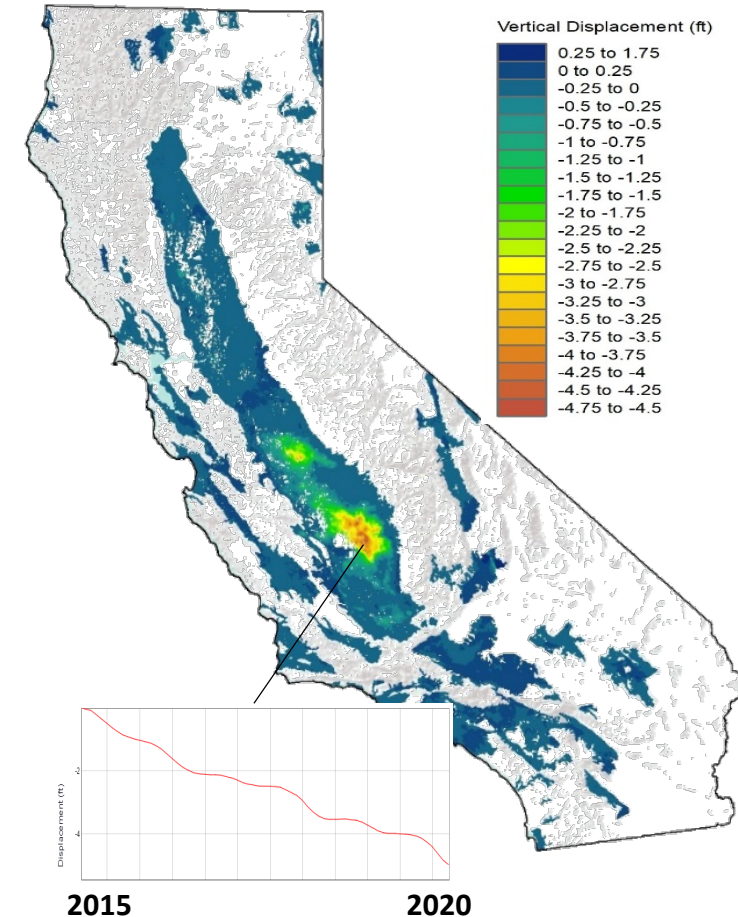
Active Groundwater Level Network



Long-term Groundwater Level Trends (20 years – 1998 to 2018)



Statewide Subsidence Data (June 2015 - Oct. 2020)



SGMA Data Viewer: <https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#currentconditions>

California's Groundwater (Bulletin 118): <https://water.ca.gov/programs/groundwater-management/bulletin-118>

Data available on CNRA Open Data: <https://data.cnra.ca.gov/>

Household Water Supply Shortage Reporting

➤ Well Owners and Agencies Can Report Water Supply Shortages

- Available in English and Spanish

➤ Statewide Summary Information

- Map
- Table

State of California
Household Water Supply Shortage Reporting System

This form is for use by individuals not served by a public water system experiencing problems with their water supply and agencies receiving calls from those individuals.

How is this information going to be used?
This information is intended to inform state and local agencies on drought impacts on household water supplies. The Household Water Supply Shortage Reporting System was first created as part of our emergency response efforts to previous droughts, and we are continuing to gather information relating to shortages of household water from private well or surface water sources. Collection of data is not to be construed as application for local, state or federal assistance. Individuals interested in financial assistance will be directed towards appropriate resources.

Data Collection Entails:

- Contact information for Household experiencing water shortage
- Water Shortage Problem Information and Location
- Financial Resources Available
- Well Log Data (optional)
- Reporting Agency or Local Government Information

For Agency Users

LOGIN ID

Password

Remember My Login ID

SIGN IN

SUBMIT REPORT **ENVIAR REPORTE**

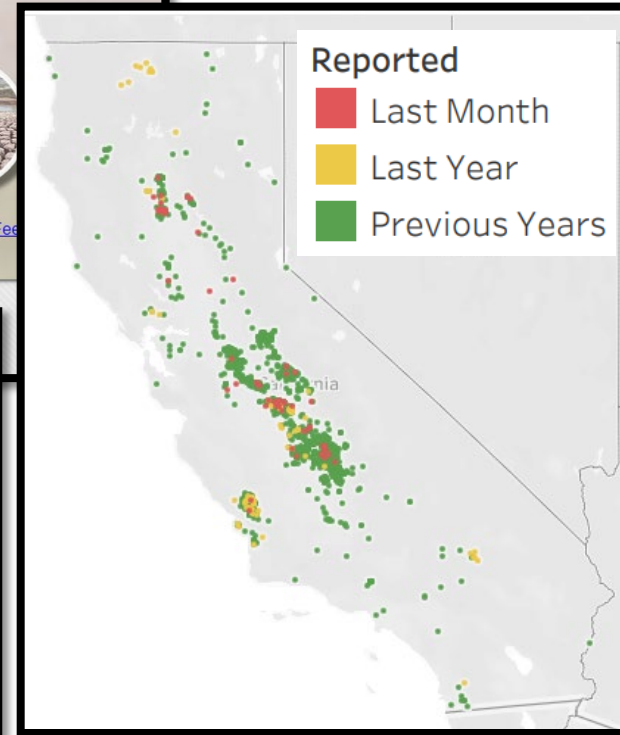
To optimize your user experience, we recommend using one of the following supported browsers:

- Firefox 39.0 or later
- Internet Explorer 10 or later
- Chrome 44 or later
- Safari 7 or later

[Statewide Summary](#)

Summary of Household Water Shortages by County
(Last updated 6/14/2021 6:46:52 AM) https://tableau.cnra.ca.gov/v/DW9_SGM/Views/mydrywatersupply/Table.pdf

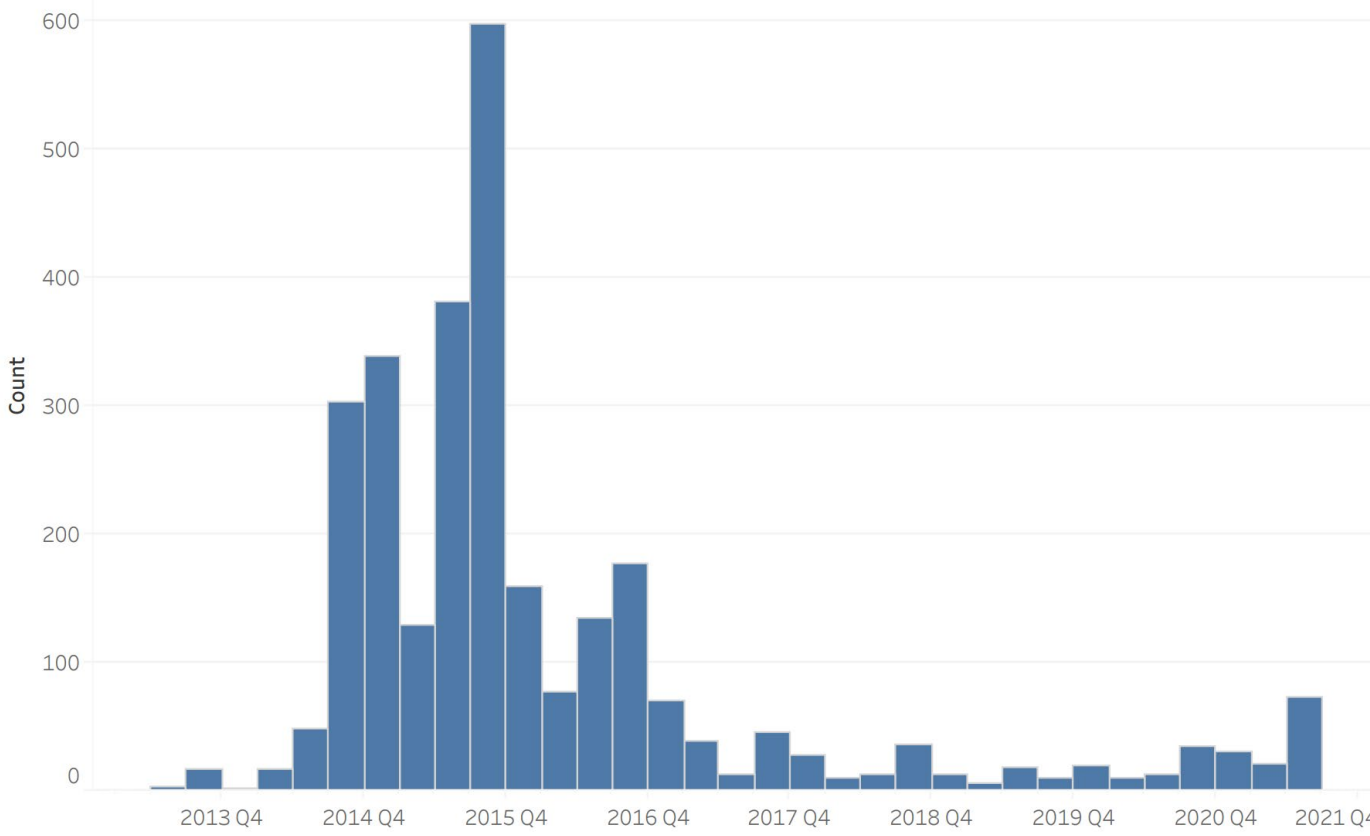
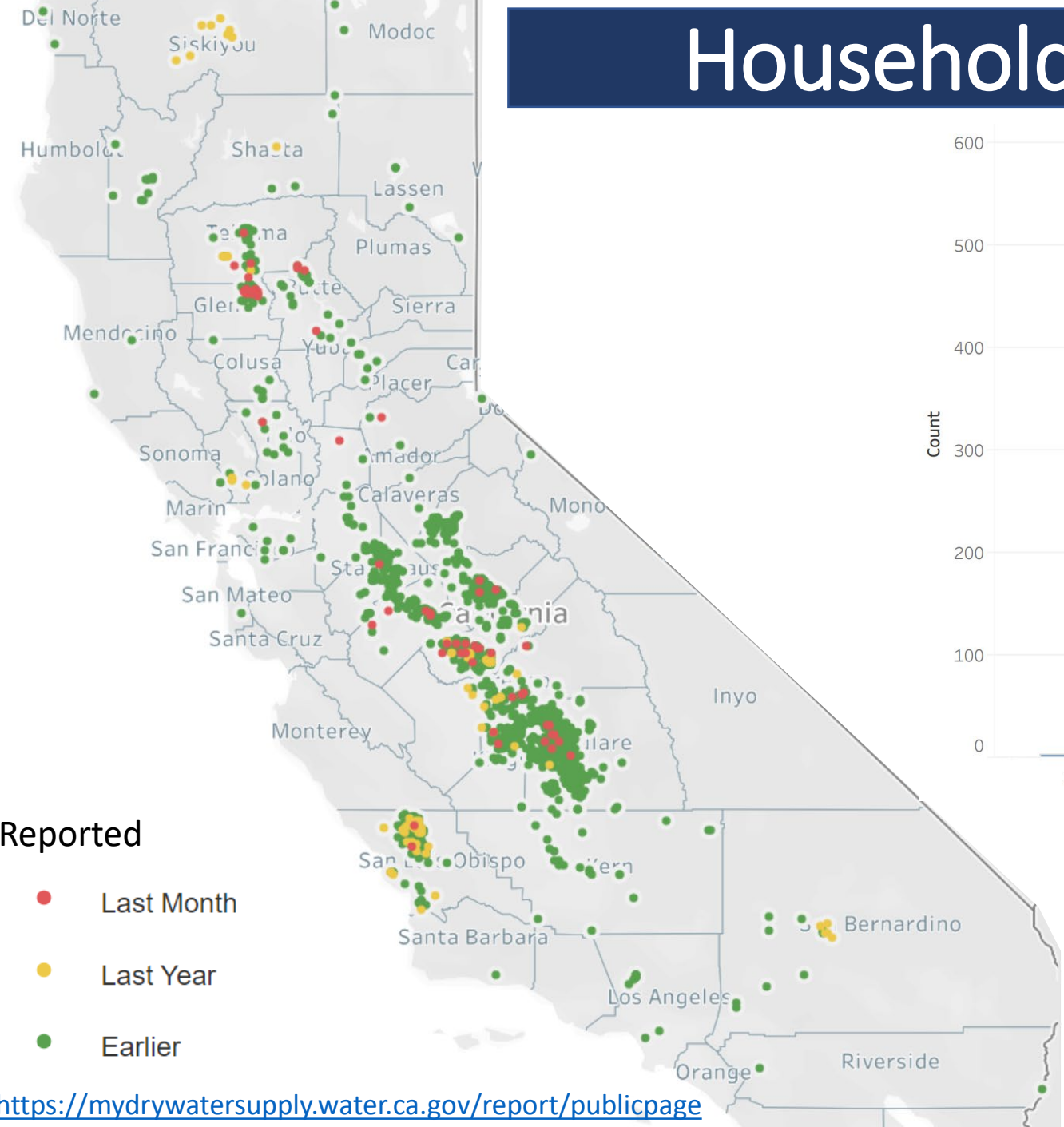
Region	County	Outage			Resolved			Total Reported Shortages
		Last Month	Last Year	Previous Years	Last Month	Last Year	Previous Years	
Coastal	Alameda							1
	Contra Costa			5				1
	Del Norte			1				1
	Marin			2				2
	Napa			1		4		5
	San Mateo			1				2
	Solano			1			1	2
	Region Total		2	11		4	4	21
Inland	Amador			1				1
	Butte		5					5
	Calaveras			1				1
	Colusa			9				9
	El Dorado			3	1			4
	Fresno			25	4	4	56	85
	Glenn		6	15	6		14	31
	Kern			23				23
	Kings			1	86	2		89
	Lassen			5				5
	Madera		1	16	340	11	2	360
	Mariposa				123	3		126
	Merced		3		58	3		64
	Modoc				4			4
	Neuads				5			5



Webpage: <https://mydrywatersupply.water.ca.gov/>

Data available on CNRA Open Data: <https://data.cnra.ca.gov/>

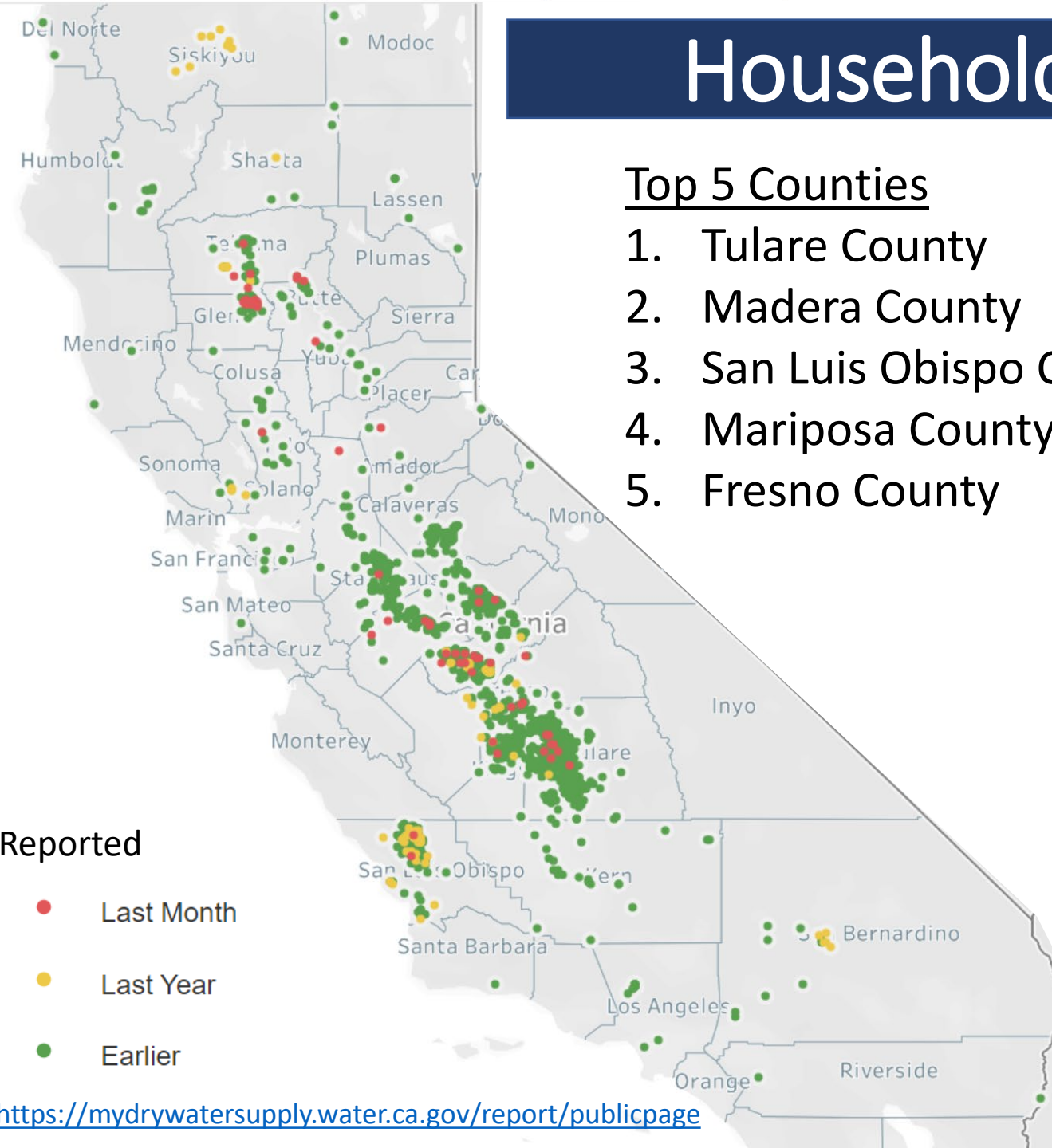
Household Shortages Reported



2,730
Previous
Years

160 54
Last Last
Year Month

Household Shortages Reported



Top 5 Counties

1. Tulare County
2. Madera County
3. San Luis Obispo County
4. Mariposa County
5. Fresno County

Reported

1400
371
270
126
96

Resolved

1326
1
44
0
56

Challenges

- Voluntary Reporting & Under Reporting
- Varying Levels of County Involvement
- Variable Local Follow-Up

Considerations

- Incentivize Local Reporting of Dry Wells
- Increase County Involvement & Coordination
- Continue to Prepare & Provide Assistance in Vulnerable Areas

Reported

- Last Month
- Last Year
- Earlier

April 21 Executive Drought Proclamation

Executive Order Item 11:

To ensure the potential impacts of drought on communities are anticipated and proactively addressed, the Department of Water Resources, in coordination with the Water Board, shall develop groundwater management principles and strategies to monitor, analyze, and minimize impacts to drinking water wells.



Next Steps:

- DWR has started coordination with SWRCB staff to develop principles and strategies
- Click here to register for [June 29](#) or [June 30](#) Listening Sessions



Questions?

Contact:
Dept of Water Resources
sgmps@water.ca.gov

Next Steps

Data:

- Continue improving access to groundwater information and coordination between agencies
 - SGMA Data Viewer, CNRA Open Data, State Board Information Systems

Drought:

- Governor's April Drought Executive Order Item 11 – Drinking Water Principles
- Enhancing and maintaining DWR's Dry Well Reporting System and increasing outreach
- Enhanced subsidence data collecting and reporting

Programs & Assistance:

- Continue SGMA & SAFER Implementation

Funding:

- Existing - \$180m in SGMA related groundwater grants to date (Prop 1 & 68)
- Proposed - \$1 billion for groundwater management & SGMA related efforts
- Additional funding proposed in May Revise will also benefit drought & groundwater management