Groundwater Committee Meeting

May 21, 2019



Agenda Items 1 through 3

1. PUBLIC COMMENT

2. APPROVAL OF THE AGENDA 3. APPROVAL OF THE MINUTES 4. Fox Canyon Groundwater Management Agency (FCGMA) Agenda Review

Oxnard sub-basin (Oxnard Plain)

Priority: High – Critically OverdraftedReason: Seawater intrusion, overdraftGSA: Fox Canyon GMA

Las Posas basin Priority: High Reason: Water quality, overdraft GSA: Fox Cyn. GMA

Pleasant Valley basin

Priority: High – Critically OverdraftedReason: Saline intrusion, overdraftGSA: Fox Canyon GMA

Recent activities:

• April 24—Regular BoD meeting

- California DWR: Presentation on SGMA
 - Water quality, groundwater-level declines, seawater intrusion
- FCGMA staff and Dudek: GSP progress update
- May 2—TAG meeting
 - FCGMA staff: GSP progress update
 - Dudek: Sustainable management criteria analysis for East Las Posas Valley basin

• May 15—FCGMA staff discussion with United staff about past deliveries of Supplemental M&I Program water

Future agenda items/upcoming activities:

May 22 BoD *special* meeting (1:00 pm) agenda: 1. Potential water purchase opportunity

May 22 BoD regular meeting agenda:

- 2. What to do with well o1N22W04K01S?
- 3. GSP update—focus on East Las Posas Valley basin MTs/MOs
- 4. Update on O-PV allocation ordinance

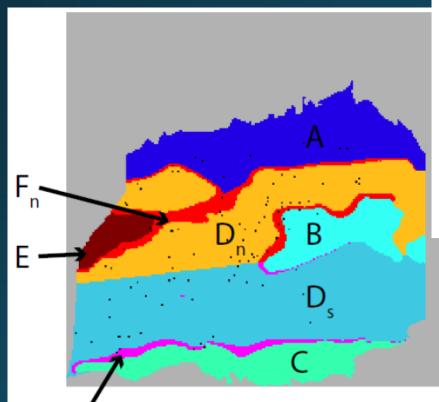
Well o1N22W04K01S ("Church well")



East Las Posas Valley Basin MTs/MOs

Table 3: Local Storage Losses across the FCA

Zone	Fraction of the FCA	Average head decline [ft] (+/- 1 stdev)	Area of the FCA that is unconfined in this zone [Acres]	Loss of Confined Storage [AF]	Loss of Confined Storage [% of 2015]	Total Loss of Storage [AF]	Total Loss of Storage [% of 2015]
Α	15%	83 +/- 41	4242 (4620 cells)	-	-	17623	36%
В	7%	44 +/- 45	1814 (1975 cells)		-	8715	32%
С	8%	51 +/- 35	2266 (2468 cells)		-	16256	33%
Dn	20%	78+/-39	-	8120	29%	8120	3%
Ds	29%	57+/-37	-	7618	19%	7618	2%
Е	2%	90 +/- 12	602 (656 cells)		-	7792	25%
Fn	4%	94 +/- 26	1228 (1337 cells)	1178	100%	9097	12%
Fs	2%	77 +/- 27	492 (536 cells)	309	100%	3756	13%
TOTAL			10644 (11592 Cells)	17225	24%	78977	8%

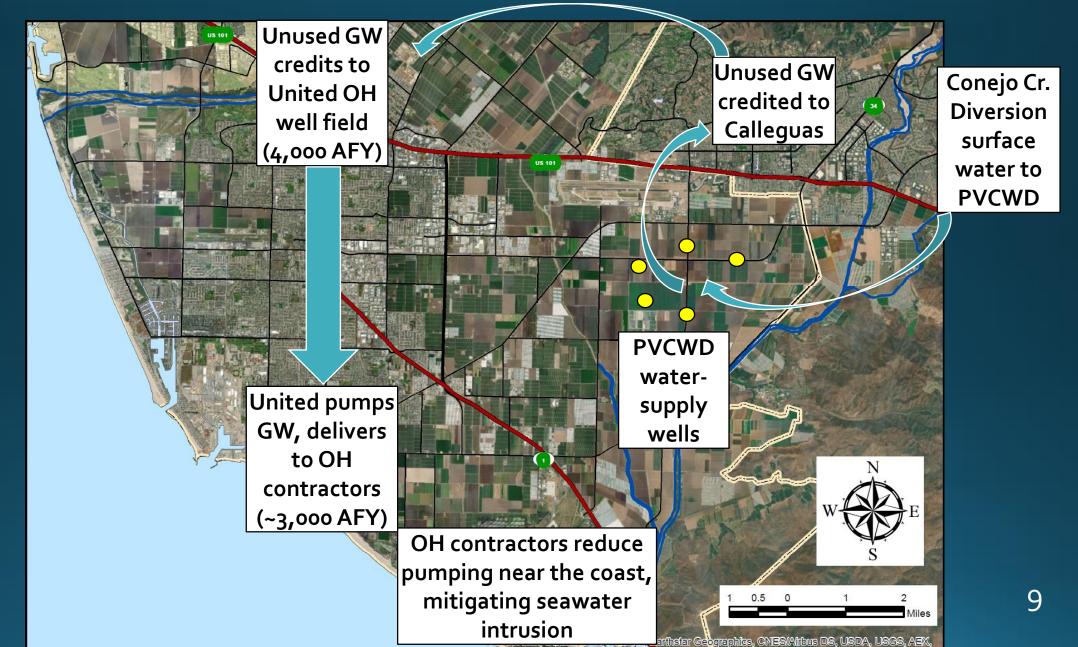


Allocation ordinance revisions proposed by FCGMA staff:

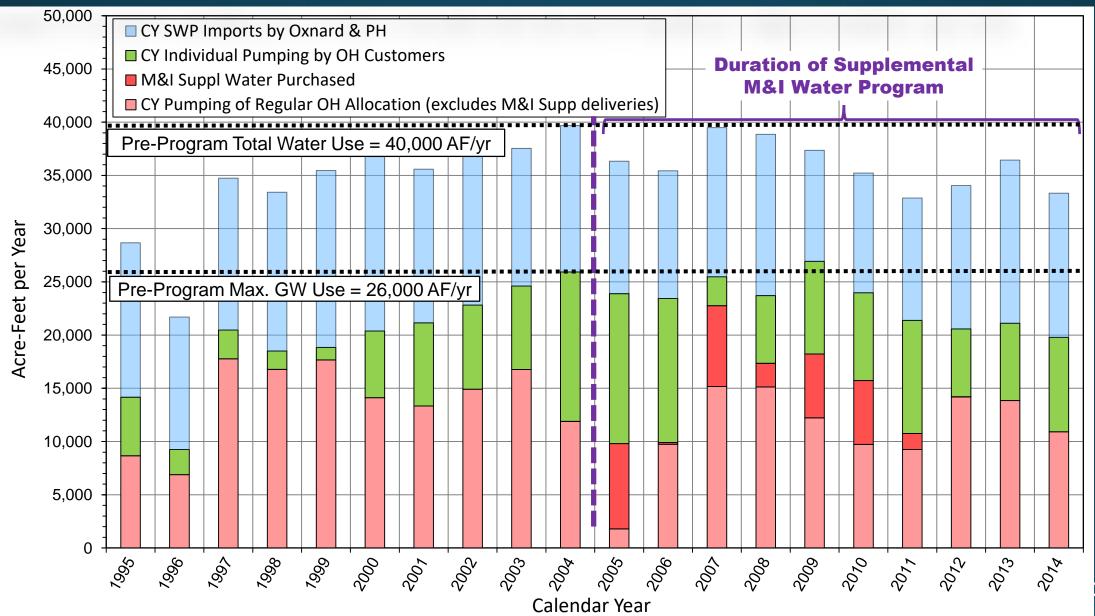
"PVCWD Extraction Allocation"

- (focusing on Conejo Creek/Supplemental M&I Water Program):
 - FCGMA Board concerned about possible "double-counting" of 2005-14 groundwater extractions by PVCWD and United WCD.
 - "An evaluation of extractions by UWCD and O-H contractors including Supplemental M&I Waer Program credits...will be presented at the Board meeting."

Conejo Creek / Supplemental M&I Water Program



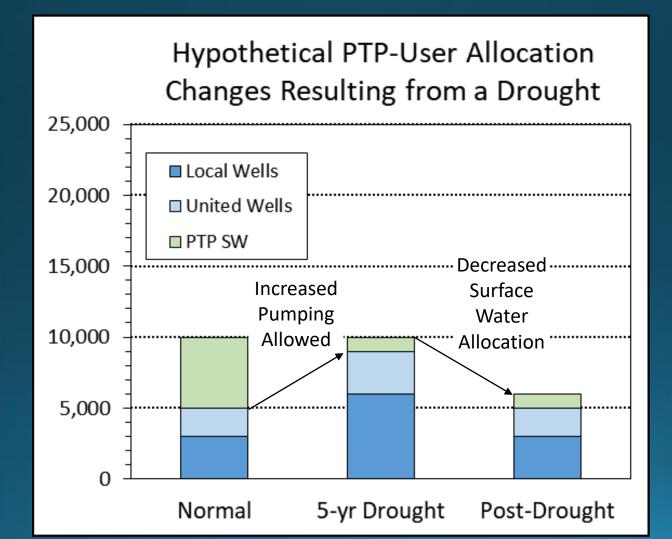
Water Use by O-H Contractors, by Calendar Year



Emergency (water-supply) situations:

- "...ordinance should not contain an automatic emergency response provision."
- "...Board would consider the need for Agency response to a... declaration of emergency with potential to affect water supplies..."

Santa Clara River "allocation" terminology: • Rename this as "Santa Clara River Water Flex Allocation"



Allocation carryover among commonly owned facilities:

- Previous draft prohibited transfer of unused allocation carryover among commonly owned extraction facilities (wells).
- "Staff is developing language which would allow an owner to *file* for a transfer with the Agency."

O-H Pipeline language (sub-allocations):
FCGMA staff "see progress toward agreement"

Carryover of unused Santa Clara River surface water "flex allocation:"

 FCGMA staff are developing language to include flexibility in unused Santa Clara River allocation

• Similar to unused extraction allocations

Other upcoming activities:

- June (and July) TAG meetings
 - FCGMA consultant (Dudek) not likely to attend
 - Uncertain that TAG meetings will occur

• GSP schedule update (as of April 24):

- Revised draft GSPs released to Board and public: July 24
- GSPs adopted by FCGMA: December 13
- GSPs submitted to DWR: December 16

United Presentation at GRAC Conference in September, Based on the Oxnard Plain and PV Basins

"Not Thrilled About Asking Your Customers for an Additional \$500 Million to Maintain Their Existing Water Supply?

An Example of the Benefits of Thoroughly Evaluating Future Water Demand under SGMA and Ranking Water-Supply Projects to Optimize Cost Efficiency"

5. Mound Basin GSA Agenda Review

Mound basin

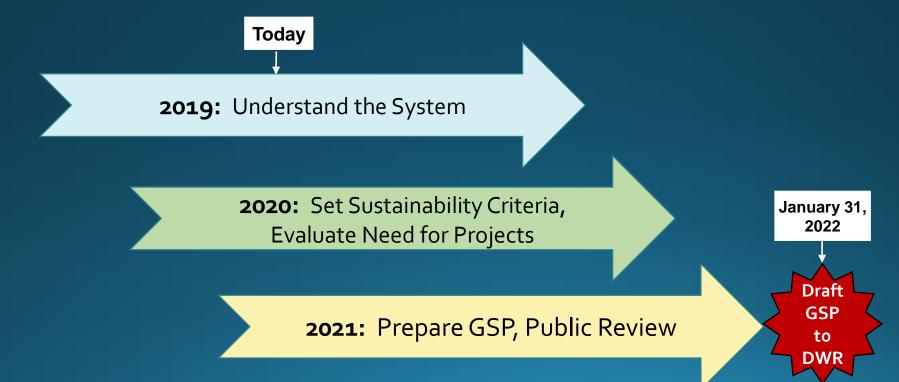
Priority: Medium => High

Reason: Water quality, dependence on groundwater, forecasted population growth **GSA type**: JPA

Recent activities:

GSP-support contractor selected (Intera)

- United providing much technical support
- Basin boundary modifications approved by DWR



Future agenda items/upcoming activities:

- June 20 BoD meeting agenda (probable):
 - Budget
 - Administrative issues
 - Meeting frequency may be reduced for the remainder of this year

Monitoring well installation by DWR uncertain
Natural isotope sampling by United this month

6. Fillmore and Piru Basins GSA Agenda Review

Fillmore basin

Priority: Medium => High

Reason: Water quality, dependence on groundwater, forecasted population growthGSA type: JPA (Fillmore + Piru)

Piru basin

Priority: High

Reason: Water quality, dependence on groundwater

GSA type: JPA (Fillmore + Piru)

Recent activities:

- Basin boundary modifications approved by DWR
- Presentation on stakeholder engagement and GSA-Boardmember duties/responsibilities
- Conceptual modeling nearly done, numerical model construction begir Today ig

2019: Understand the System

2020: Set Sustainability Criteria, Evaluate Need for Projects

2021: Prepare GSP, Public Review

January 31, 2022

> Draft GSP

> > to

DWF

Future agenda items/upcoming activities:

- June 20 BoD meeting agenda (probable):
 - Budget
 - Administrative issues
- United developing preliminary water balance

7. Santa Paula Basin TAC Update

Santa Paula basin

Priority: Medium => Very Low

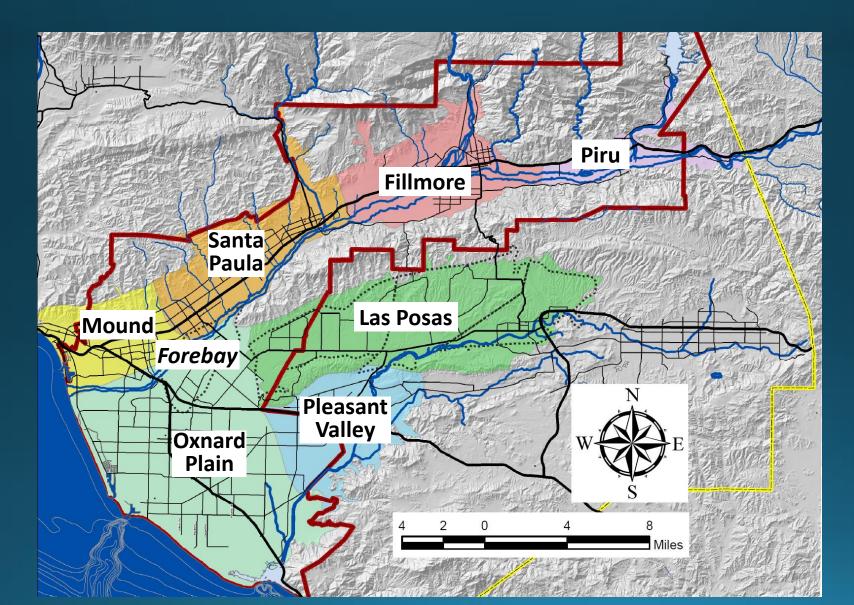
Reason: Adjudicated

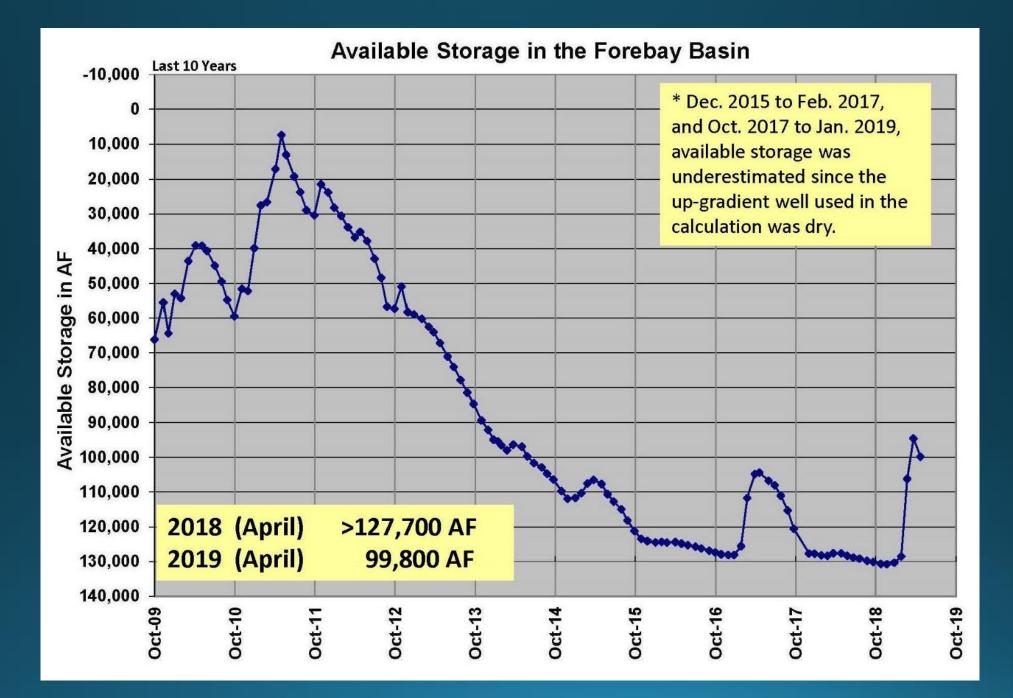
GSA type: Technical Advisory Committee

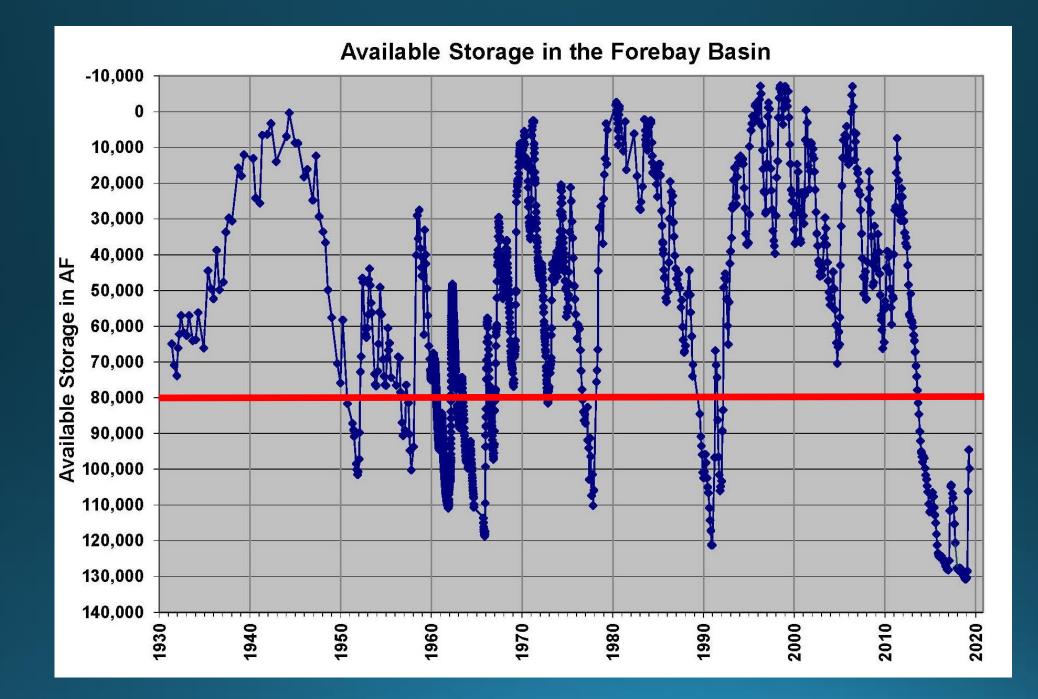
Upcoming Activities

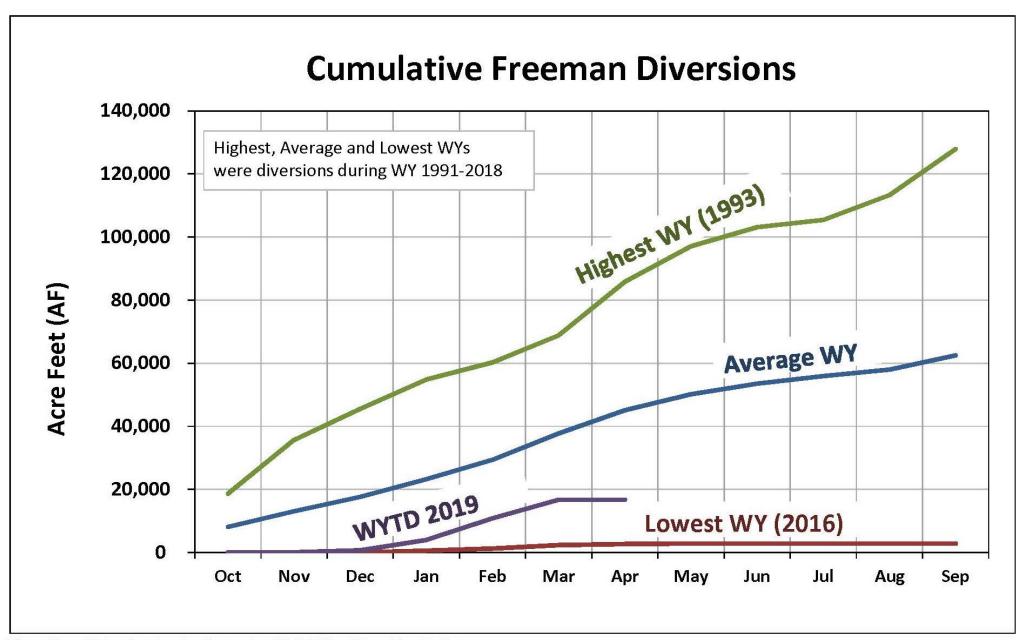
- Next TAC meeting: Sept. 5 (not a public meeting)
- Upcoming activities:
 - Consider effects of Ventura SWP-Interconnection project on potential Santa-Paula-basin "yield enhancement" projects
 - Progress regarding "triggers" document and funding for yield-enhancement projects
 - Evaluate existing index wells, need for more pressure transducers?

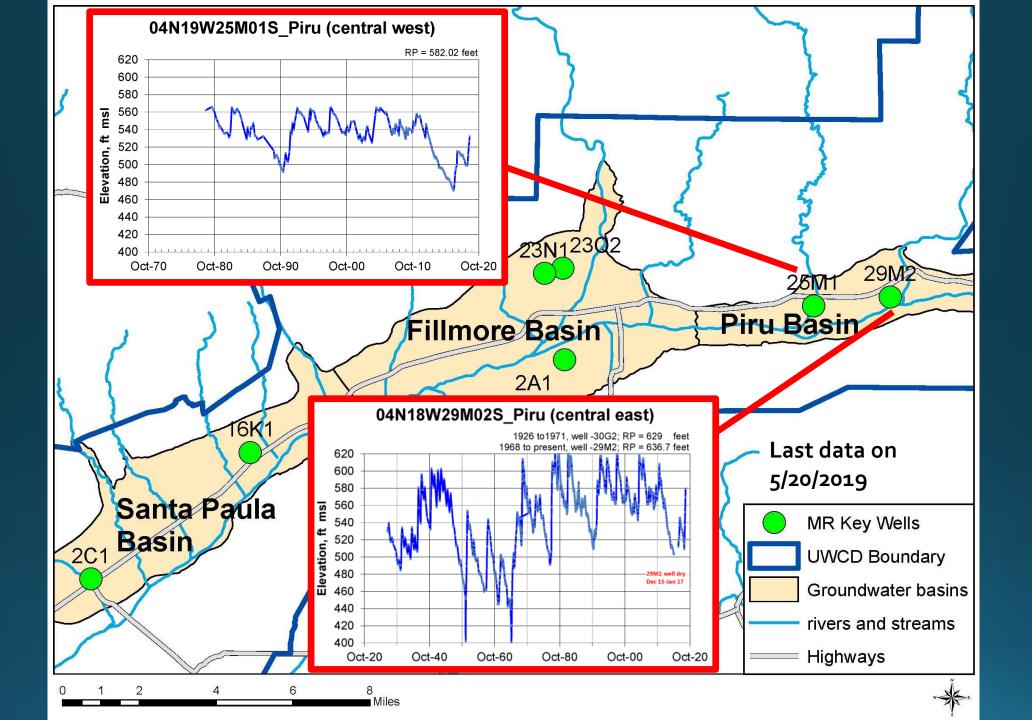
8. Groundwater Conditions Update

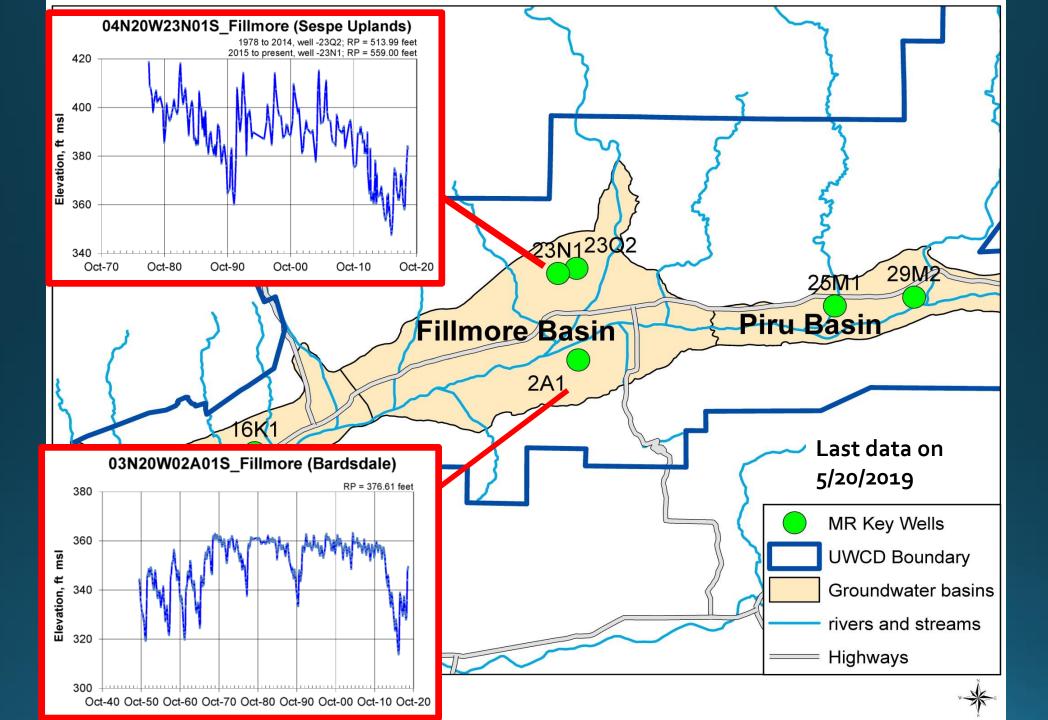


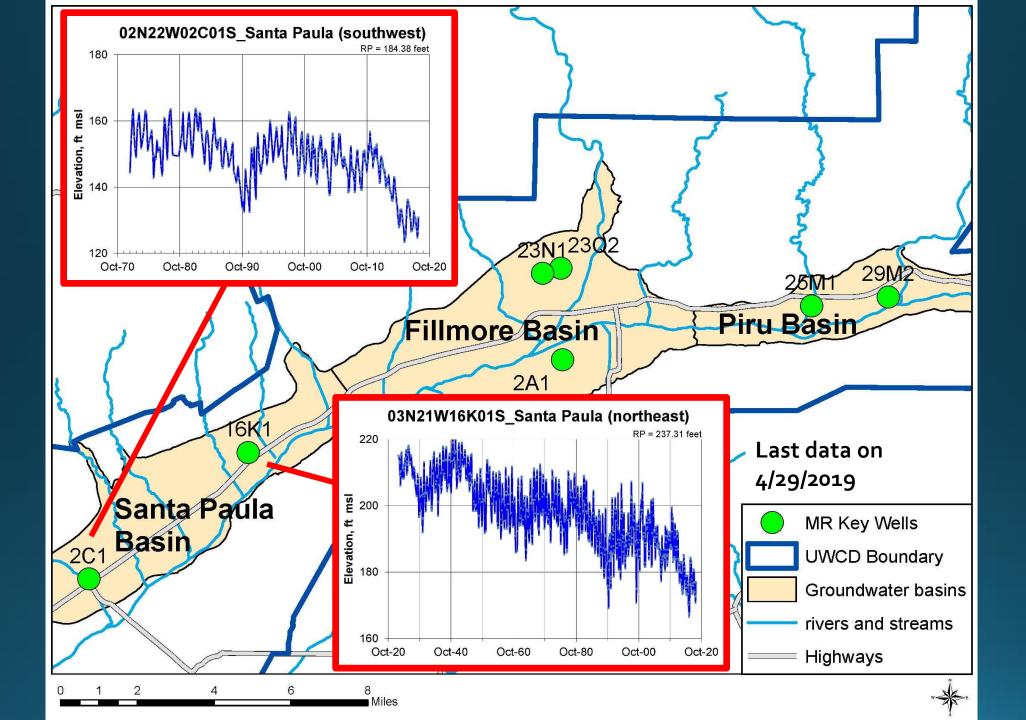


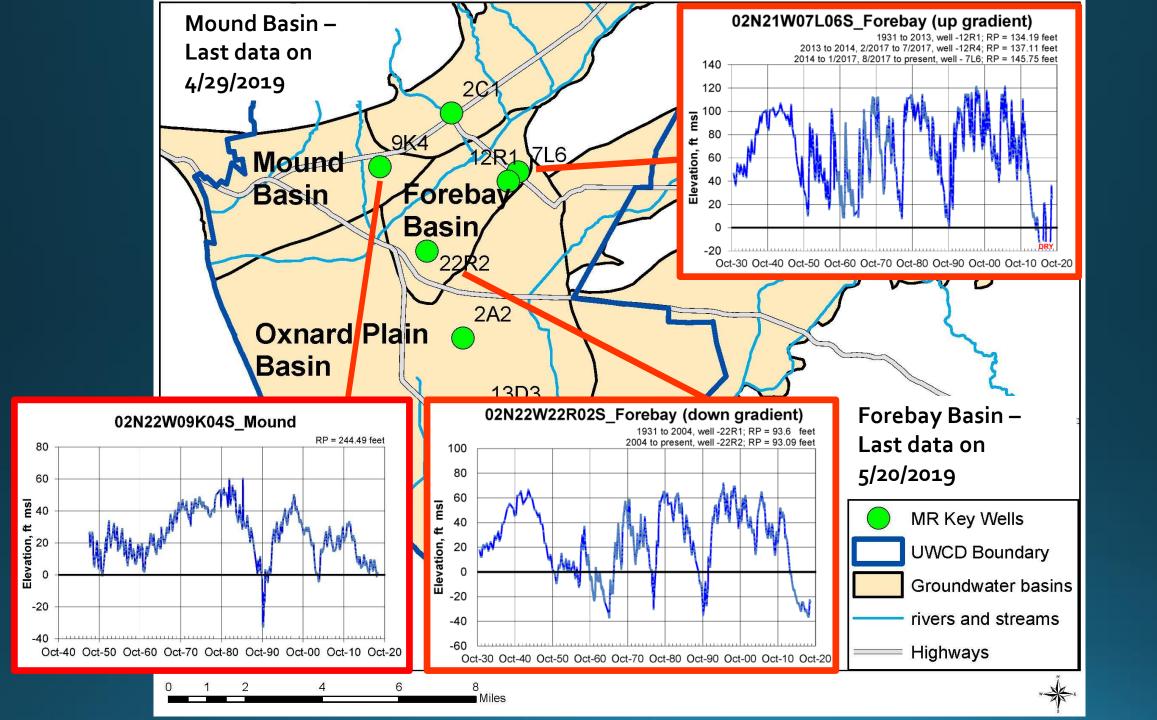


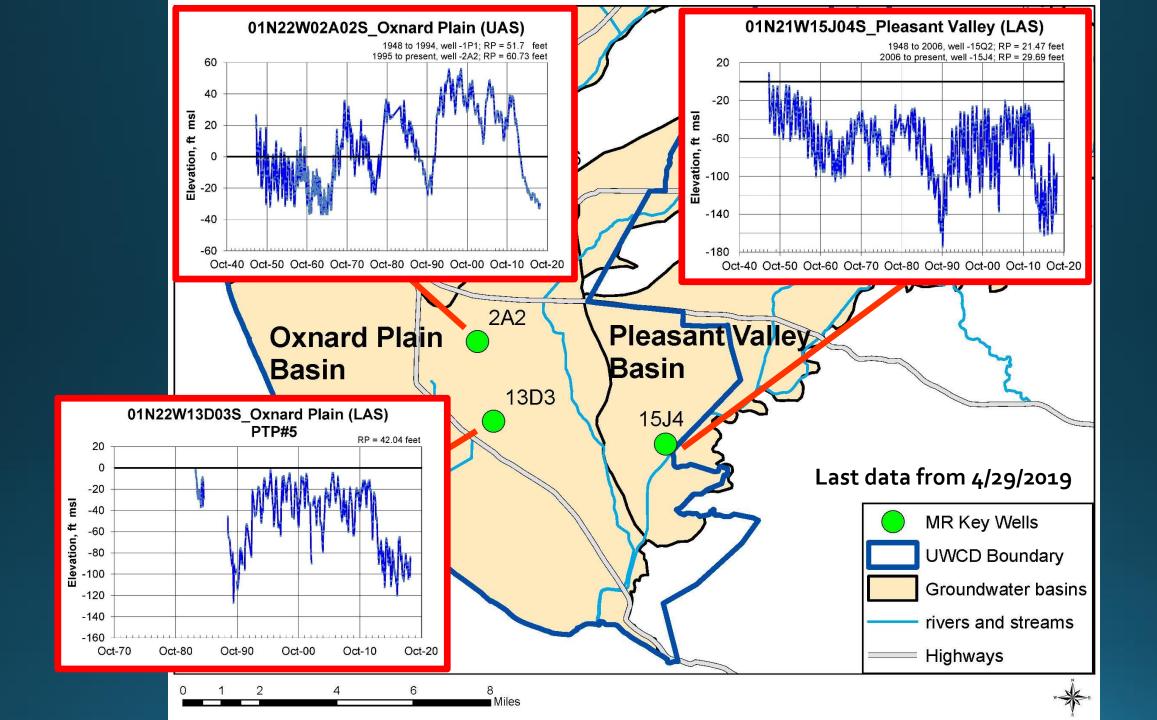


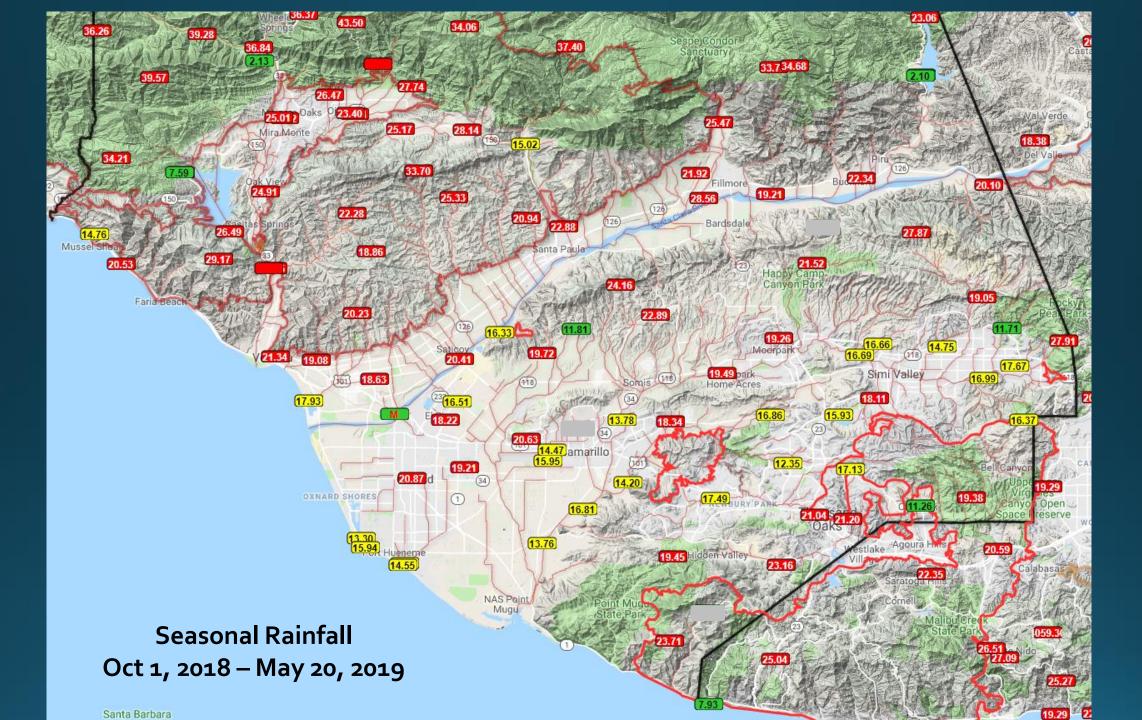


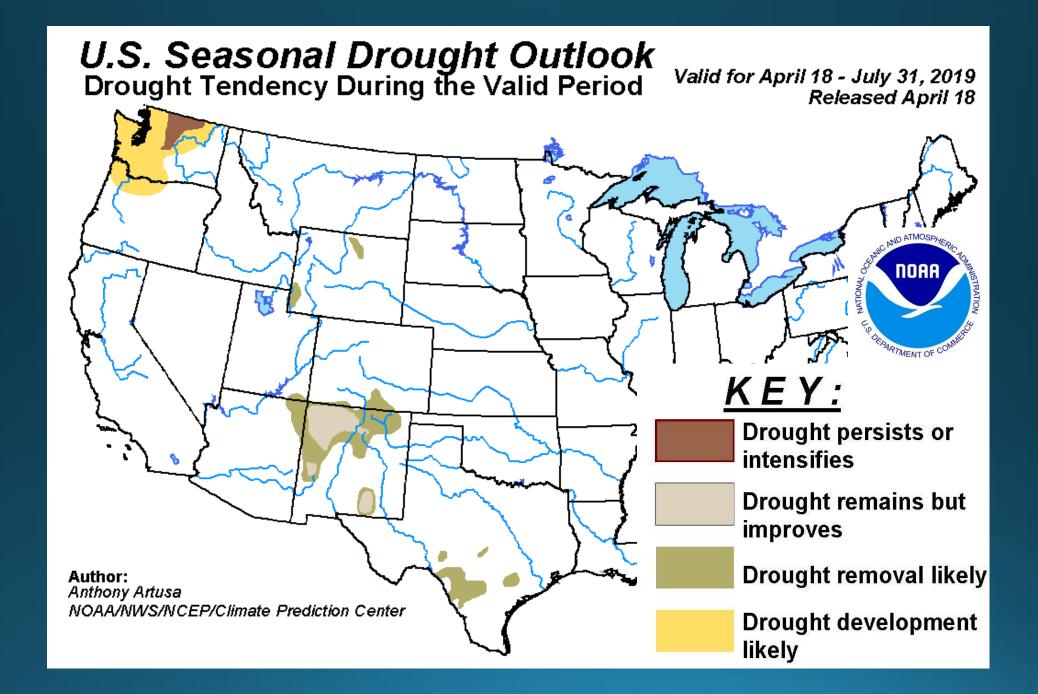


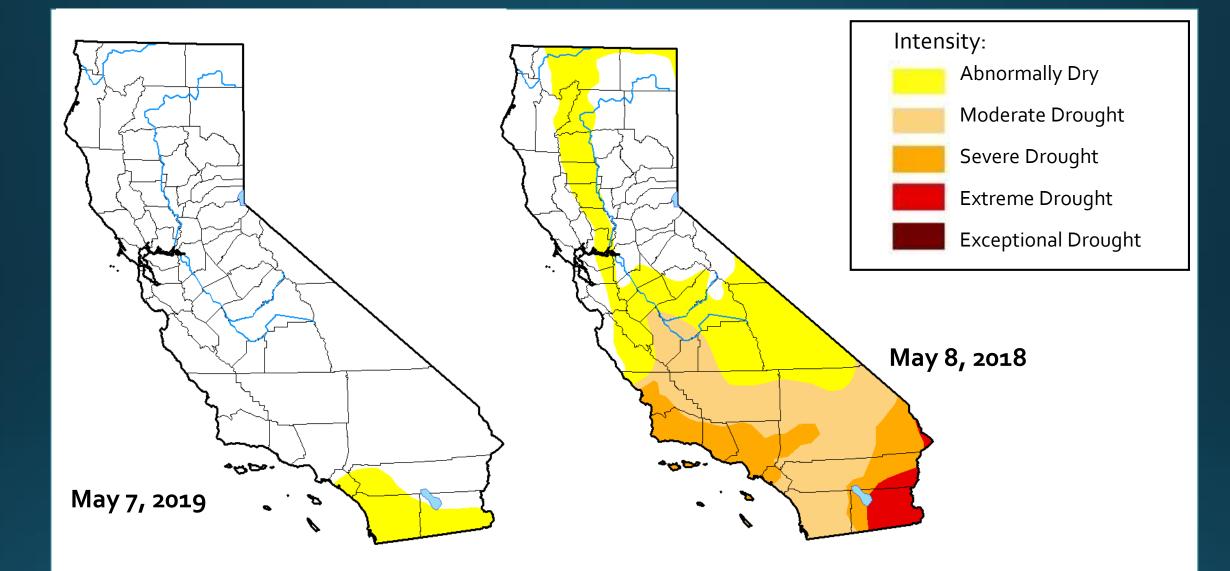












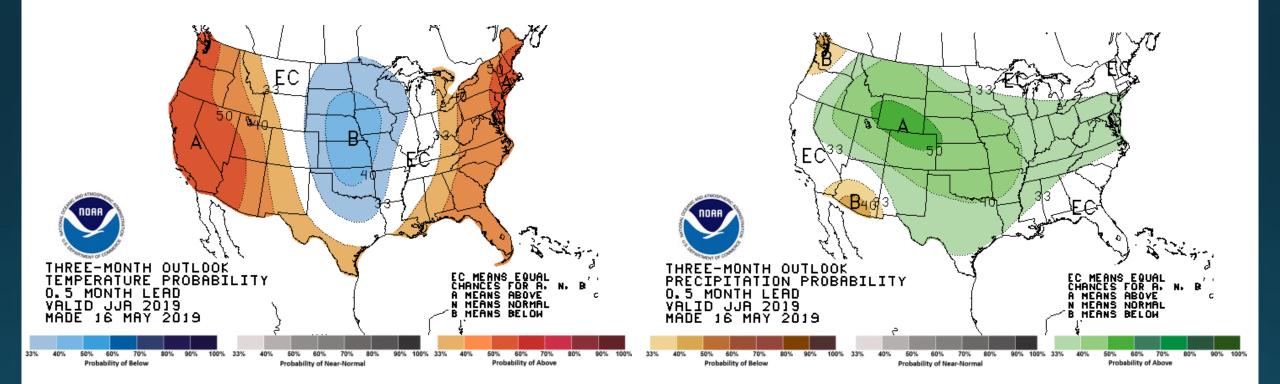
Map Source: The National Drought Mitigation Center

Maps are an assessment of drought conditions based on precipitation amounts and does not consider groundwater storage depletion.

June – August 2019

Temperature

Precipitation



9. FUTURE AGENDA ITEMS

- "Imagining A Year Without United--Hydrogeological, Economic, and Environmental Impacts"
- "Decreasing Freeman Diversion Rates as a Result of Changing ESA Interpretations: How United Intends to Stop the Downhill Slide"
- "Can We Build a Sustainable and Abundant Water Future? Concepts, Costs, and Challenges"



10. ADJOURNMENT

"In the long run, men hit only what they aim at."

Henry David Thoreau