



Board of Directors
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Michael W. Mobley, Vice President
Bruce E. Dandy, Secretary/Treasurer
Sheldon G. Berger
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Lynn E. Maulhardt
Edwin T. McFadden III

General Manager
Mauricio E. Guardado, Jr.

Legal Counsel
David D. Boyer

MINUTES
GROUNDWATER COMMITTEE MEETING
Tuesday, May 21, 2019 – 2:00 p.m. to 3:30 p.m.
Boardroom, UWCD G.I. “Irv” Wilde Headquarters
106 North 8th Street, Santa Paula, California

COMMITTEE MEMBERS PRESENT

Mike Mobley, Chair
Robert Eranio
Daniel Naumann (substituting for Edwin T. McFadden III)

STAFF PRESENT

Anthony Emmert, Assistant General Manager
Robert C. Siemak, Assistant General Manager
Dr. Maryam Bral, Chief Engineer
John Lindquist

PUBLIC PRESENT

Gordon Kimball, FPB GSA
Tony Morgan, DBS&A
Frank Brommenschenkel, Frank B & Associates
Jurgen Gramckow

OPEN SESSION: 2:00p.m.

Chair Mobley called the meeting to order at 2p.m. and asked if there were any public comments.

1. PUBLIC COMMENT

None were offered.

2. APPROVAL OF THE AGENDA

Motion

Motion to approve the agenda as presented, Director Eranio; Second, President Naumann. Voice vote: three ayes (Mobley, Eranio, Naumann). Motion carries unanimously 3/0.

3. APPROVAL OF THE MINUTES

Motion

Motion to approve the Minutes from the April 23, 2019 Groundwater Committee Meeting, Director Eranio; Second, Director Mobley. Voice vote: two ayes (Eranio, Mobley), one abstain (Naumann). Motion carries 2/1.

**4. FOX CANYON GROUNDWATER MANAGEMENT AGENCY (FCGMA) AGENDA REVIEW
(SIEMAK/LINDQUIST)**

Informational

Mr. Lindquist first summarized topics of discussion at FCGMA Board of Directors and Technical Advisory Group (TAG) meetings during the previous month. Mr. Lindquist then reviewed agenda items for the upcoming regular and special Board of Directors meetings, both scheduled on May 22. The primary agenda item for the special Board Meeting on May 22 was to decide whether to take advantage of a potential opportunity to provide funding to United to obtain State Water Project (SWP), Article 21, water and deliver it to the FCGMA's service area to reduce current overdraft conditions in the Oxnard (including Forebay area) and Pleasant Valley basins.

At its regular Board meeting that same day, FCGMA will discuss (see attached presentation for details):

- what to do with the "Church well" (well 01N22W04K01S)
- status of their GSP progress, focusing on East Las Posas Valley basin minimum thresholds and measurable objectives (MTs and MOs), and
- the Oxnard-Pleasant Valley extraction allocation ordinance.

United Staff are presenting at the GRAC Conference in September, using the Oxnard Plain and Pleasant Valley as examples of how to plan development of new water-supply sources. The presentation is tentatively entitled: "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."

Audience member Jurgen Gramckow commented that he would like United to consider not just the financial aspects of potential future Article 21 purchases, but also consider physical constraints on their delivery and how they might be put to optimal use to improve sustainable yield of the Oxnard basin.

5. MOUND BASIN GROUNDWATER SUSTAINABILITY AGENCY (MBGSA) AGENDA REVIEW (LINDQUIST)

Informational

The FCGMA's Board recently selected Intera as GSP consultant supporting Bryan Bondy and UWCD staff. United staff will be providing much of the technical support; basin boundary modifications have been approved by DWR. The June 20 Board meeting will likely address Budget, administrative issues; meeting frequency may be reduced for the remainder of the year. Monitoring well installation through DWR uncertain and natural isotope sampling will be conducted by UWCD staff this month.

6. FILLMORE AND PIRU BASINS GROUNDWATER SUSTAINABILITY AGENCY (FPBGSA) AGENDA REVIEW (EMMERT)

Informational

Both basins' boundary modifications have been approved by DWR; Board received presentation regarding stakeholder engagement and GSA Board responsibilities; conceptual modeling nearly done and numerical model construction is beginning. Budget and administrative issues most likely agenda topics for June and United is developing preliminary water balance.

7. SANTA PAULA BASIN TECHNICAL ADVISORY COMMITTEE (TAC) UPDATE (LINDQUIST)

Informational

Next TAC meeting is in September and is not a public meeting. Other upcoming activities include: consideration of effects of Ventura SWP-Interconnection project on potential Santa Paula Basin “yield enhancement” projects; progress regarding “triggers” document for funding for yield enhancement projects; evaluating existing index wells, need for more pressure transducers?

8. GROUNDWATER UPDATE

Informational

Staff provided updates on groundwater conditions throughout United’s service area, including upticks in the Piru and Fillmore basins; continuing declines in the Santa Paula basins; slight upticks in the Mound and Forebay basins; and continuing declines in Oxnard and Pleasant Valley basins. Currently, no drought conditions exist in the southern California region and temperatures for the summer are projected to be above average; with little if any precipitation.

9. FUTURE AGENDA ITEMS

Director Naumann suggested that staff continue working on evaluating ways to potentially increase the “supply-side” to meet the water needs for our service area, and present their ideas to the Groundwater Committee. Staff noted that they are working on a presentation entitled “Imagine a Year Without United,” a hydrological, economic and environmental impact perspective. Other potential presentation topics include “Decreasing Freeman Diversion Rates as a result of Changing ESA Interpretations,” and “Can We Build a Sustainable and Abundant Water Future?”

Audience member Jurgen Gramckow noted that he is disappointed by the FCGMA’s process, and would prefer to see local agencies discussing new water-supply projects rather than plan on pumping reductions and fallowing of farmland. At present, only United seems to be working towards bringing in additional water supplies to the region. Audience member (and FPBGSA Board member) Gordon Kimball followed up by stating that the Fillmore and Piru pumpers have nearly unanimous interest in assessing a pumping fee to collect funds that would allow them to purchase SWP Article 21 water in the future.

Director Mobley suggested that United invite John Riley of Verno Water to an upcoming Groundwater Committee meeting to describe Verno Water’s process for low-atmospheric-pressure distillation as a way of desalinating brackish or seawater.

10. ADJOURNMENT 3:30P.M.

6. FILLMORE AND PIRU BASINS GROUNDWATER SUSTAINABILITY AGENCY (FPBGSA) AGENDA REVIEW (EMMERT)

Informational

The FPBGSA is beginning its process for preparing GSPs for the Fillmore and Piru basins. Staff will summarize recent and upcoming activities, planning efforts, and agenda items by the FPBGSA that may affect the District's operations or overall mission. Committee will review the agenda and prepare positioning statements on behalf of the District for all agendaized discussion items, as appropriate.

7. SANTA PAULA BASIN TECHNICAL ADVISORY COMMITTEE (TAC) UPDATE (LINDQUIST)

Informational

Staff will summarize recent and upcoming activities, as well as planning efforts, by the TAC that may affect the District's operations or overall mission.

8. GROUNDWATER UPDATE

Informational

Staff will provide updates on groundwater conditions throughout United's service area, including a summary of recent changes in groundwater elevations, quality, and recharge rates; potential conservation release and modeling effects, among other issues that may be of interest or may impact the District.

9. FUTURE AGENDA ITEMS

10. ADJOURNMENT

Directors: Michael Mobley, Chair *MMh*
Robert Eranio *RSE*
Ed McFadden *Daniel C Naumann* *DCN*

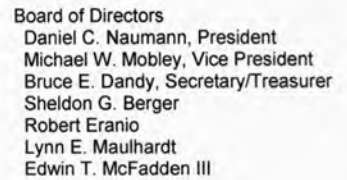
Staff: Mauricio E. Guardado, Jr. Anthony Emmert Bob Siemak
Maryam Bral Dan Detmer John Lindquist
Murray McEachron Jason Sun Bram Sercu
Kathleen Kuepper Eric Elliott Robert Marshall

The Americans with Disabilities Act provides that no qualified individual with a disability shall be excluded from participation in, or denied the benefits of, the District's services, programs or activities because of any disability. If you need special assistance to participate in this meeting, or if you require agenda material in an alternative format, please contact the District Office at (805) 525-4431. Notification of at least 48 hours prior to the meeting will enable the District to make appropriate arrangements.

Approved: *[Signature]*
Mauricio E. Guardado, Jr., General Manager

Posted: (date) May 15, 2019 (time) 2pm (attest) *Kris Sofley*
At: United Water Conservation District Headquarters, 106 No. 8th St., Santa Paula, CA

Posted: (date) May 15, 2019 (time) 2:10pm (attest) *Kris Sofley*
At: www.unitedwater.or



Legal Counsel
David D. Boyer

MEETING DATE: Tuesday, May 21, 2019

The signing or registering of your name on this sign-up form is not required but is voluntary. All persons may attend the meetings of the Board of Directors of United Water Conservation District without signing or registering their names on this form.

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Groundwater Committee Meeting

May 21, 2019



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Agenda Items 1 through 3

1. PUBLIC COMMENT
2. APPROVAL OF THE AGENDA
3. APPROVAL OF THE MINUTES

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4. Fox Canyon Groundwater Management Agency (FCGMA) Agenda Review

Oxnard sub-basin (Oxnard Plain)

Priority: High – **Critically Overdrafted**

Reason: Seawater intrusion, overdraft

GSA: Fox Canyon GMA

Las Posas basin

Priority: High

Reason: Water quality, overdraft

GSA: Fox Cyn. GMA

Pleasant Valley basin

Priority: High – **Critically Overdrafted**

Reason: Saline intrusion, overdraft

GSA: Fox Canyon GMA

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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

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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 o1N22Wo4Ko1S?
3. GSP update—focus on East Las Posas Valley basin MTs/MOs
4. Update on O-PV allocation ordinance

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Well o1N22Wo4Ko1S (“Church well”)



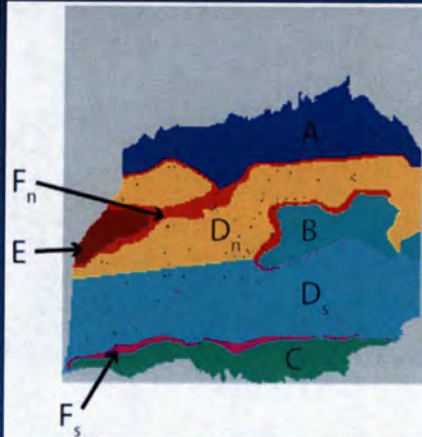
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East Las Posas Valley Basin MTs/MOs

Table 3: Local Storage Losses across the FCA

Projected Impacts in the FCA by Dec 2069 under the Baseline Future Scenario Simulations (ignoring the Eastern portion of the model where there are no wells)

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]
A	15%	83 +/- 41	4242 (4620 cells)	-	-	17623	36%
B	7%	44 +/- 45	1814 (1975 cells)	-	-	8715	32%
C	8%	51 +/- 35	2266 (2468 cells)	-	-	16256	33%
Dn	20%	78 +/- 39	-	8120	29%	8120	3%
Ds	29%	57 +/- 37	-	7618	19%	7618	2%
E	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%



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Allocation ordinance revisions proposed by FCGMA staff:

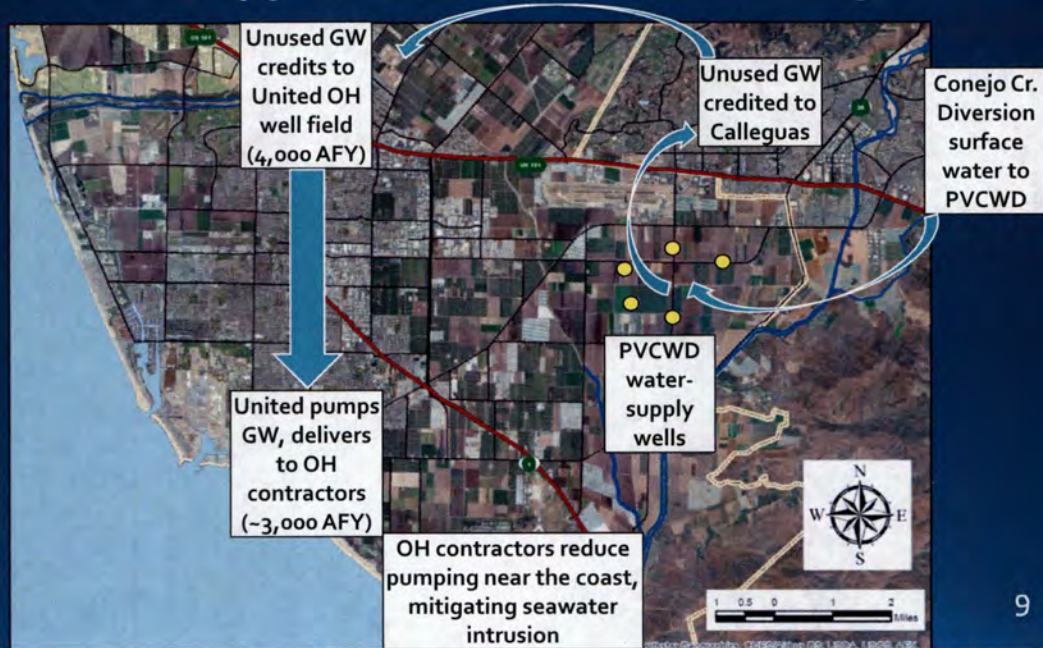
"PVCWD Extraction Allocation"

(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 Water Program credits...will be presented at the Board meeting."

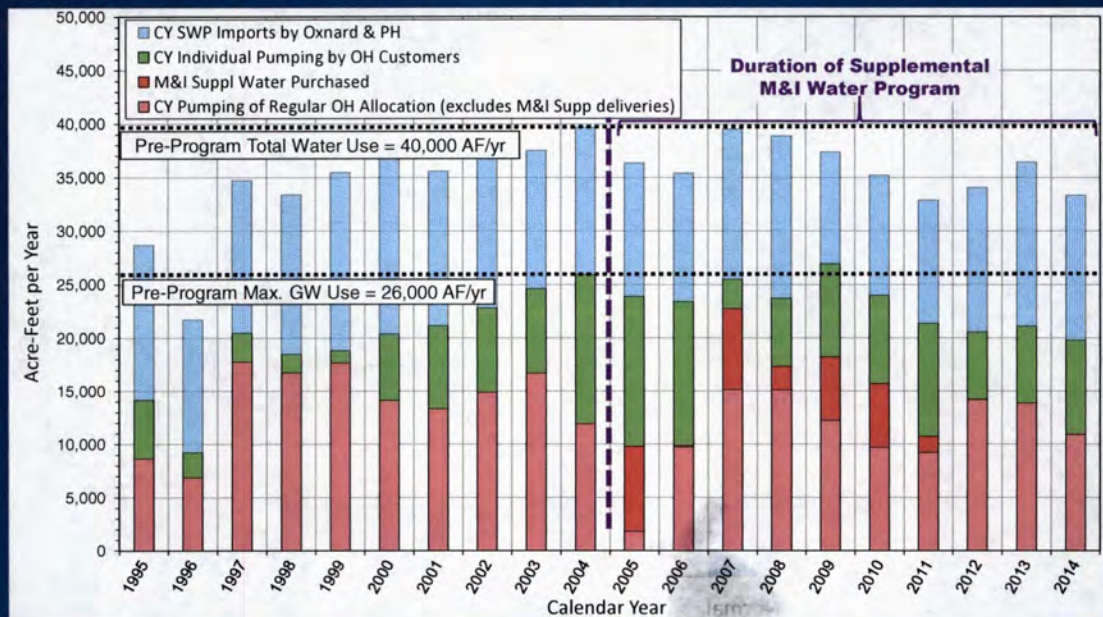
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Conejo Creek / Supplemental M&I Water Program



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Water Use by O-H Contractors, by Calendar Year



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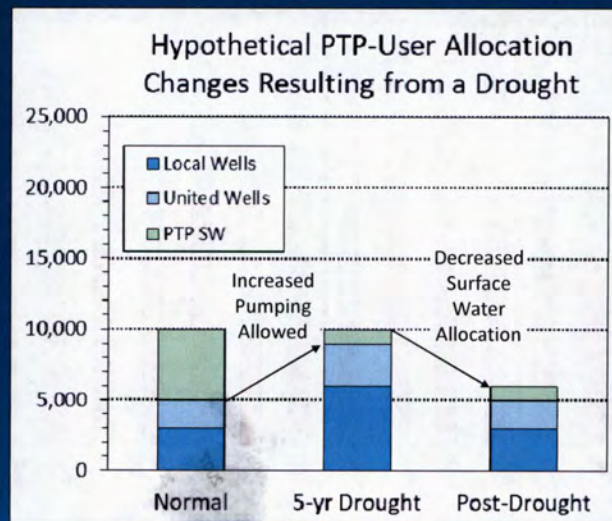
Emergency (water-supply) situations:

- "...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..."

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Santa Clara River "allocation" terminology:

- Rename this as "Santa Clara River Water Flex Allocation"



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- 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"

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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

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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

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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"

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5. Mound Basin GSA Agenda Review

Mound basin

Priority: Medium => High

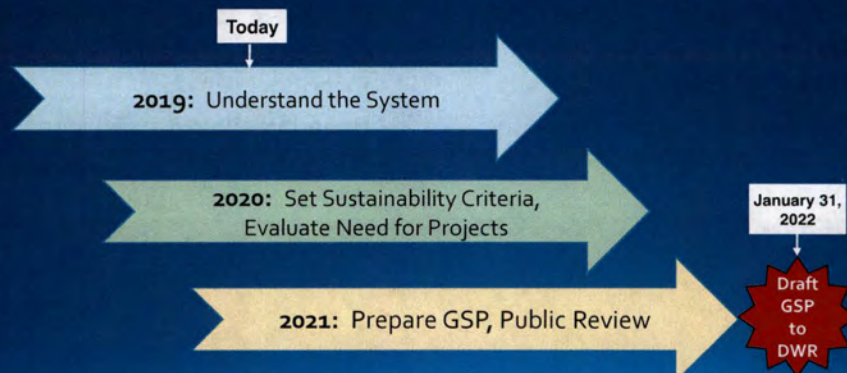
Reason: Water quality, dependence on groundwater, forecasted population growth

GSA type: JPA

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Recent activities:

- GSP-support contractor selected (Intera)
 - United providing much technical support
- Basin boundary modifications approved by DWR



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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

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6. Fillmore and Piru Basins GSA Agenda Review

Fillmore basin

Priority: Medium => High

Reason: Water quality, dependence on groundwater, forecasted population growth

GSA type: JPA (Fillmore + Piru)

Piru basin

Priority: High

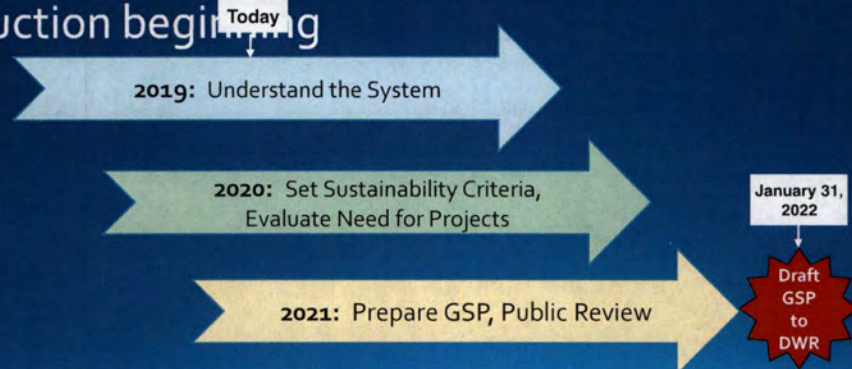
Reason: Water quality, dependence on groundwater

GSA type: JPA (Fillmore + Piru)

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Recent activities:

- Basin boundary modifications approved by DWR
- Presentation on stakeholder engagement and GSA-Board-member duties/responsibilities
- Conceptual modeling nearly done, numerical model construction beginning



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Future agenda items/upcoming activities:

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

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7. Santa Paula Basin TAC Update

Santa Paula basin

Priority: Medium => Very Low

Reason: Adjudicated

GSA type: Technical Advisory Committee

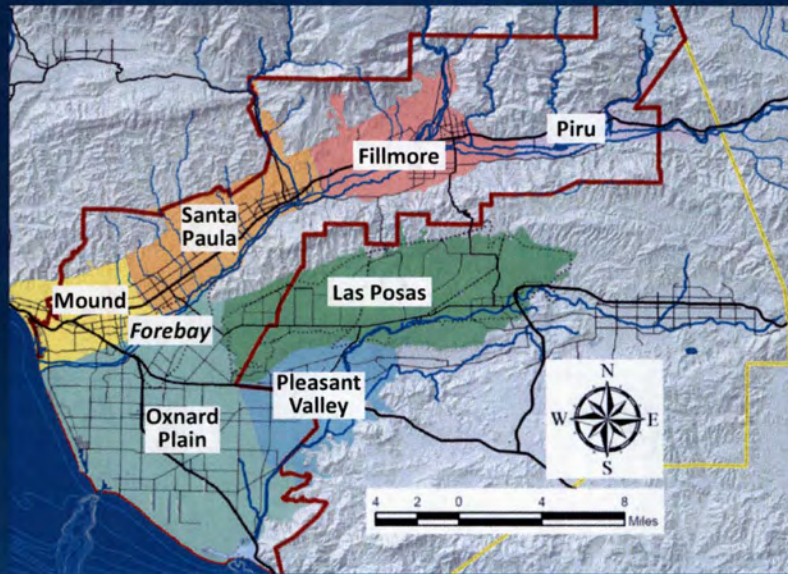
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Upcoming Activities

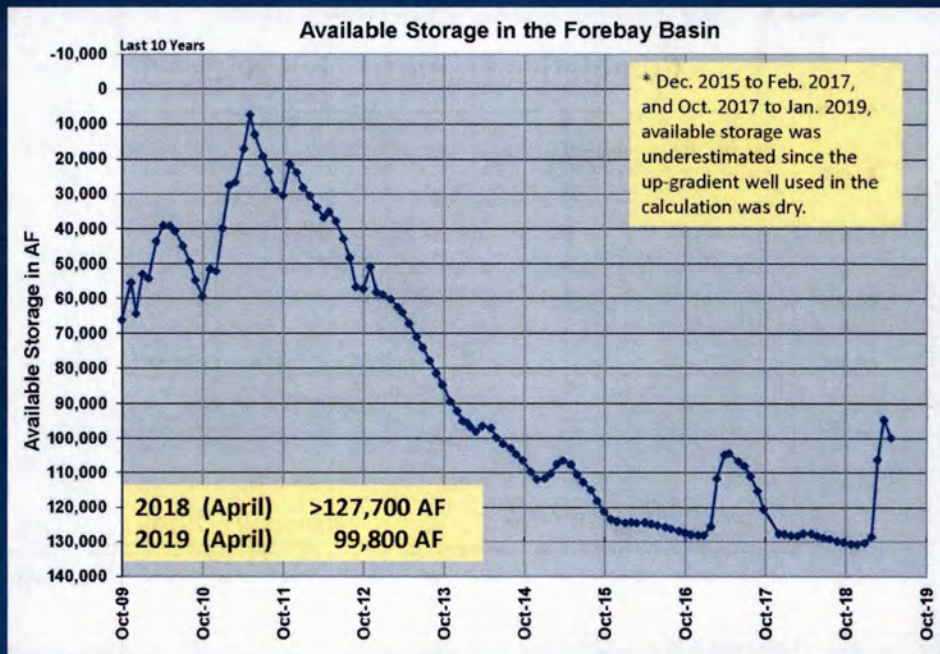
- Next TAC meeting: Sept. 5 (not a public meeting)
- Upcoming activities:
 - Consider effects of Ventura SWP-Interconnection project on potential Santa-Paula-basin "yield enhancement" projects
 - Progress regarding "triggers" document and funding for yield-enhancement projects
 - Evaluate existing index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

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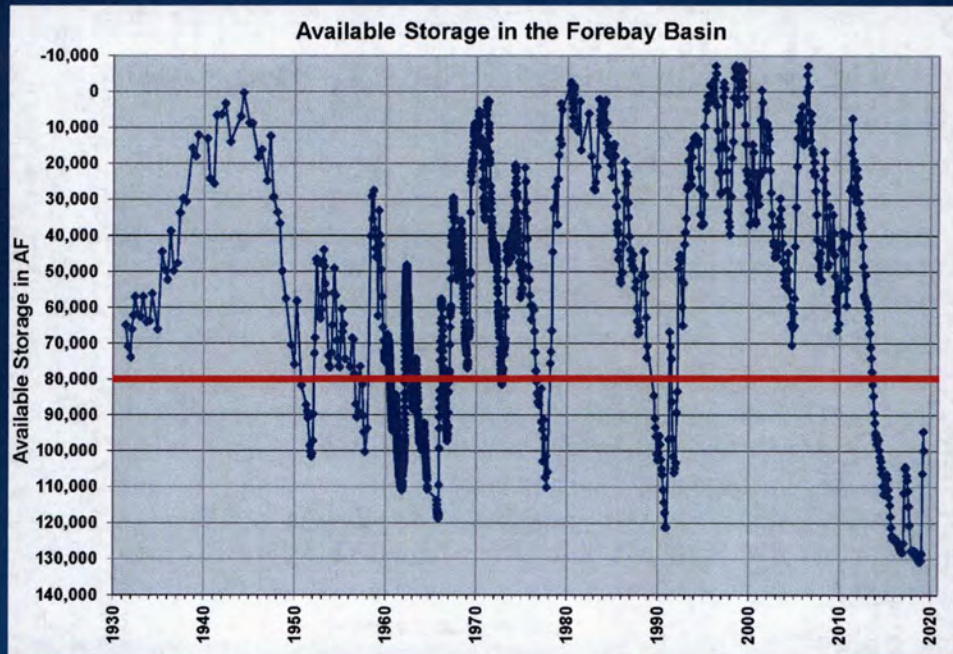
8. Groundwater Conditions Update



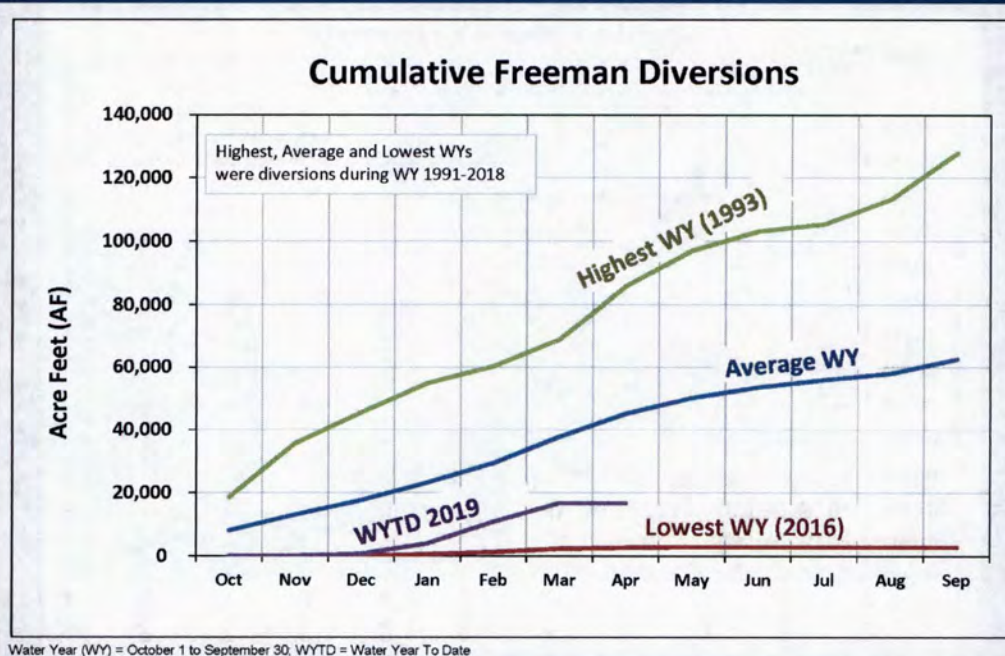
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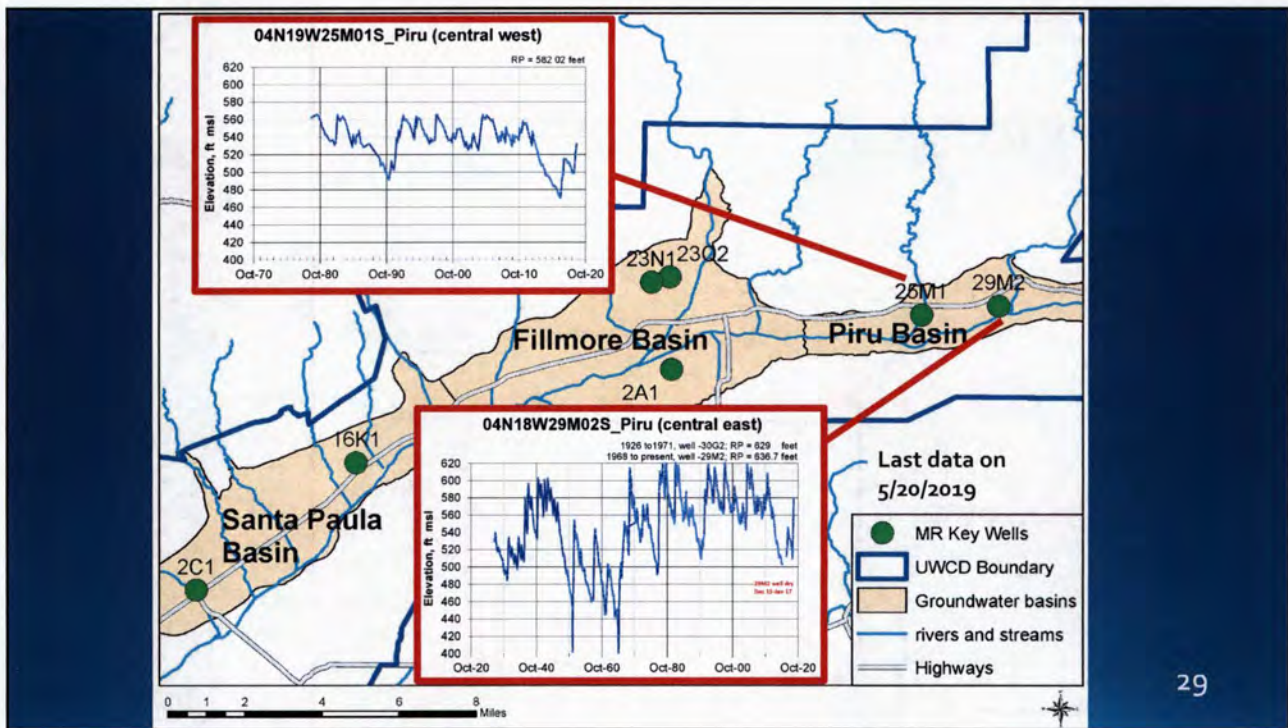


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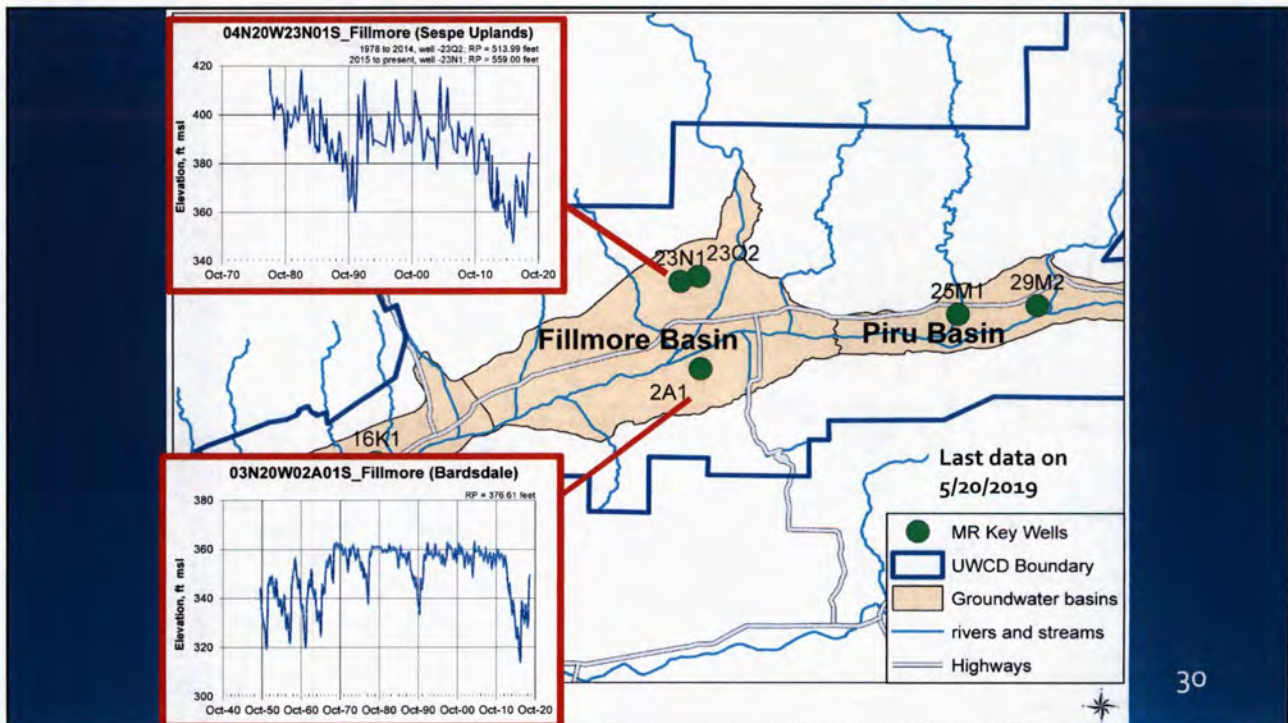


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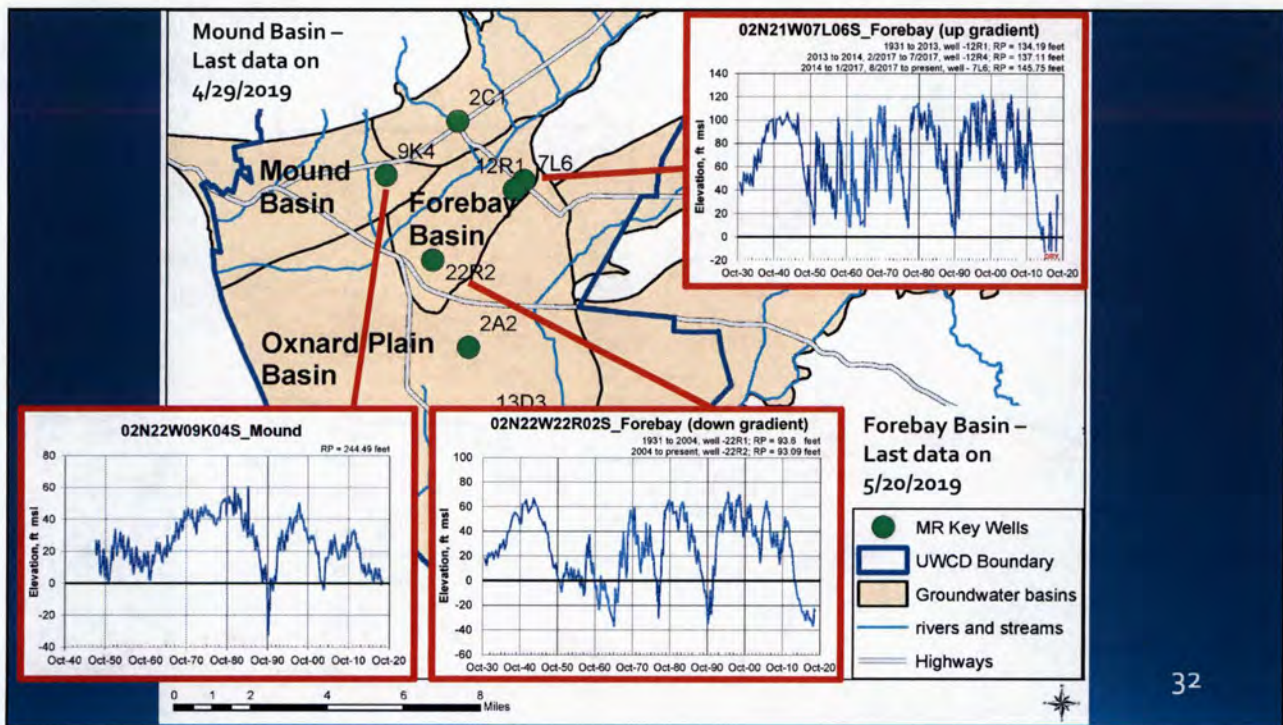
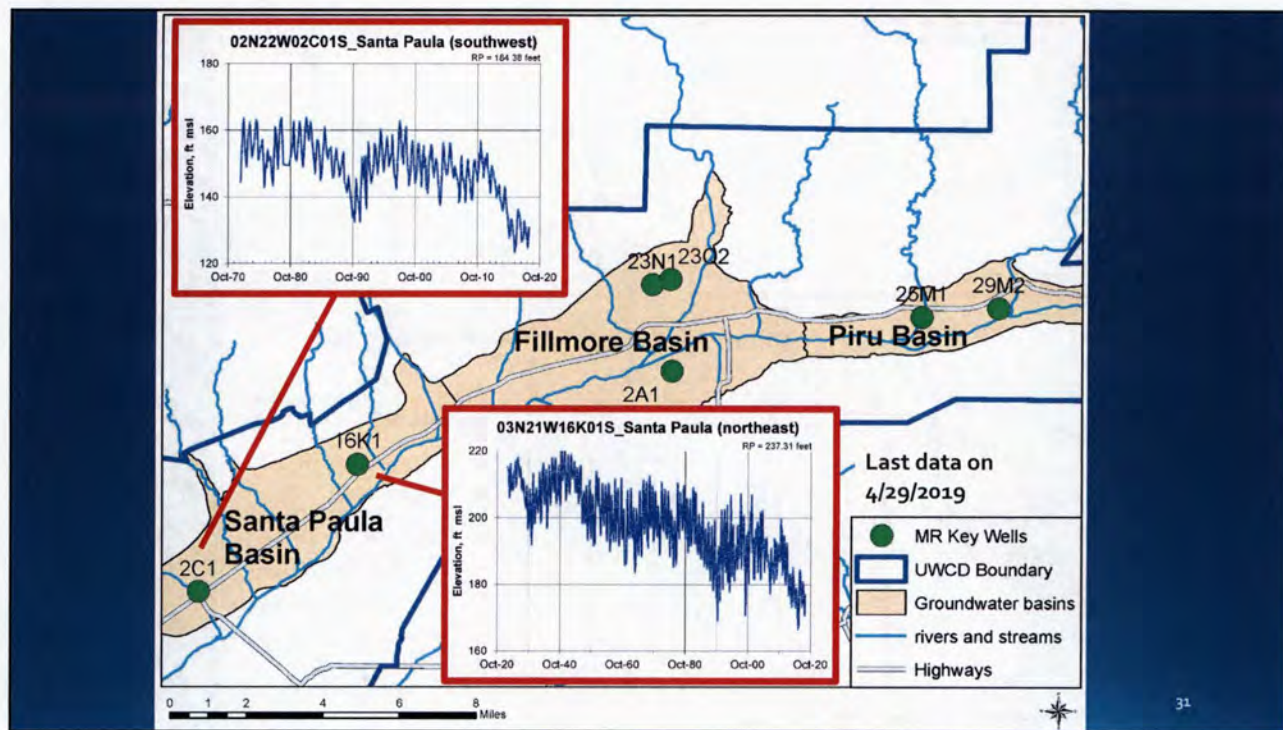




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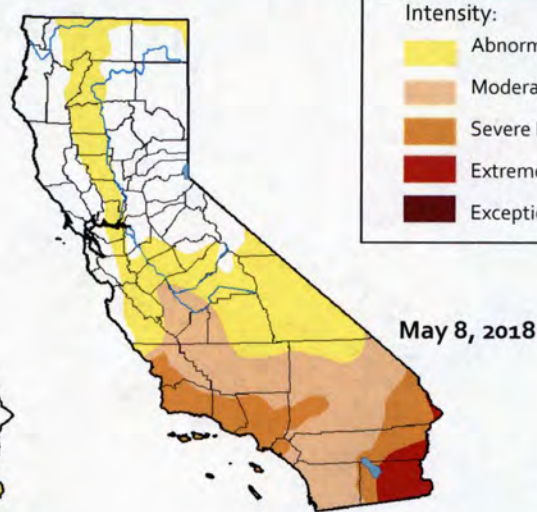
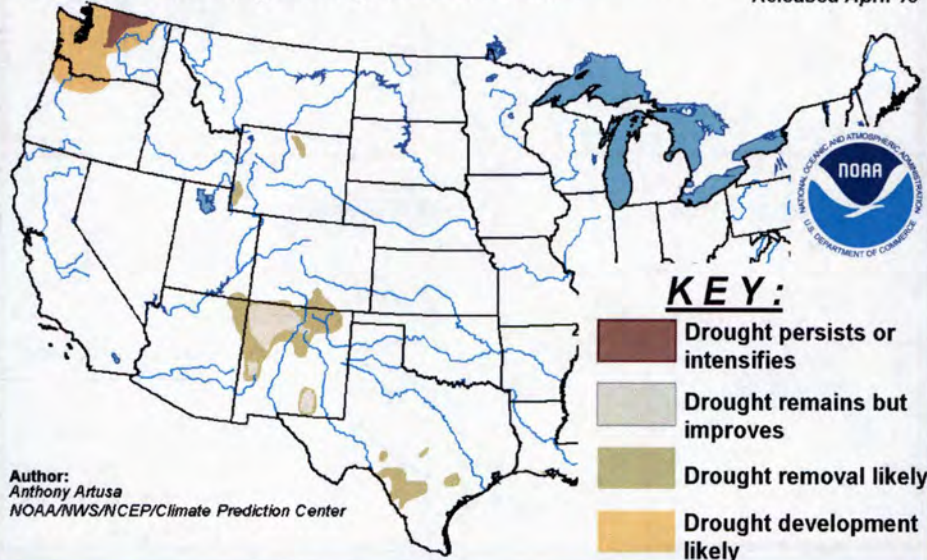
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U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for April 18 - July 31, 2019
Released April 18

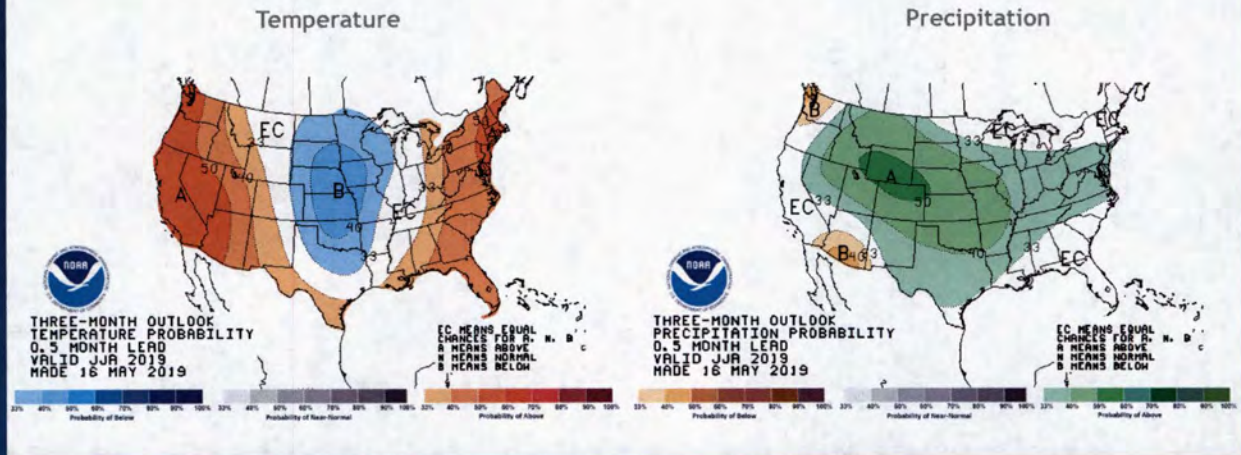


Intensity:

- Abnormally Dry
- Moderate Drought
- Severe Drought
- Extreme Drought
- Exceptional Drought

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



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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"



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10. ADJOURNMENT

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

Henry David Thoreau

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