

AGENDA
WATER RESOURCES COMMITTEE
Tuesday, October 5, 2021, at 9 a.m.
UNITED WATER CONSERVATION DISTRICT
Boardroom, 1701 N. Lombard Street, Oxnard CA 93030

Meeting attendees should be aware that the meetings of the Committee are, as required by law, open to the public and the District has very limited powers to regulate who attends Committee meetings. Therefore, attendees must exercise their own judgement with respect to protecting themselves from exposure to COVID-19, as the District cannot ensure that all attendees at public meetings will be free from COVID-19.

OPEN SESSION:

- 1. Public Comment**
The public may address the Water Resources Committee on any matter on the agenda or within the jurisdiction of the Committee. All comments are subject to a five-minute time limit.
- 2. Approval of Minutes - Motion**
The Committee will review and consider approving the minutes from the Water Resources Committee meeting of August 31, 2021.
- 3. Seawater Intrusion Update 2020 (30 min: Kathleen Kuepper)**
Staff will present on recent groundwater conditions in the Oxnard basin, with emphasis on seawater intrusion and recorded chloride concentrations in coastal monitoring wells.
- 4. Update on Water Supply and Demand Trends in the OPV Basins (20 min: John Lindquist)**
Staff will brief the Committee on water use trends from reported groundwater extraction data for the Oxnard and Pleasant Valley basins.
- 5. Operations of the Hardened Ramp with Mod 6 and Mod 9 Designs (20 min: M. McEachron)**
Staff will describe potential design modifications to improve functionality of the proposed hardened ramp fish passage design.
- 6. Water Resources Department Update (5 minutes: Mr. Detmer)**
Staff is available to provide updates to the Committee on recent Water Resources Department activities and projects.
- 7. Groundwater Sustainability Agencies Update (10 minutes: Mr. Detmer)**
The Committee will receive a summary presentation on GSA activities and schedules for the Fillmore and Piru Basins, Mound Basin and Fox Canyon Groundwater Management Agency (Oxnard, Pleasant Valley and Las Posas Valley basins).

FUTURE AGENDA ITEMS

ADJOURNMENT



UWCD Water Resources Committee Agenda

October 5, 2021

Page 2

Directors:

Edwin T. McFadden III, Chair
Lynn E. Maulhardt
Daniel C. Naumann

Staff:

Mauricio E. Guardado, Jr.	Dr. Maryam Bral
Dan Detmer	Eric Elliott
Dr. Zachary Hanson	Kathleen Kuepper
John Lindquist	Murray McEachron
Dr. Bram Sercu	Dr. Jason Sun

The Americans with Disabilities Act provides that no qualified individual with a disability shall be excluded from participating 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's offices at (805) 525-4431. Notification of at least 48 hours prior to the meeting will enable the District to make appropriate arrangements.

Approved: _____


Mauricio E. Guardado, General Manager


Dr. Maryam Bral, Chief Engineer

Posted: (date) September 30, 2021

(time) 4:45 p.m.

(attest) *Destiny Rubio*

At: UWCD Headquarters, 1701 N. Lombard Street, Oxnard, CA 93030

Posted: (date) September 30, 2021

(time) 5:00 p.m.

(attest) *Destiny Rubio*

At: www.unitedwater.org

MINUTES
WATER RESOURCES COMMITTEE
Tuesday, August 31, 2021, at 9 a.m.
UNITED WATER CONSERVATION DISTRICT
Boardroom, 1701 N. Lombard Street, Oxnard CA 93030

Committee Members Present:

Chair Edwin McFadden – Chair

Director Naumann

Director Maulhardt – joined the meeting at 9:17 am (participated via Webex)

Staff Present:

Mauricio E. Guardado Jr., general manager

Dr. Maryam Bral, chief engineer

Dan Detmer, supervising hydrogeologist

Dr. Zachary Hanson, hydrogeologist

Kathleen Kuepper, hydrogeologist

John Lindquist, senior hydrogeologist

Zachary Plummer, IT administrator

Dr. Bram Sercu, senior hydrologist

Dr. Jason Sun, senior hydrogeologist/modeler

Public Present: Attendance List (attached)

Tim Nicely

Martin Gramckow

Jurgen Gramckow

Jennifer Tribo

OPEN SESSION: 9:08 a.m.

Chair McFadden called the Water Resources Committee Meeting to order at 9:08 a.m.

1. Public Comment

Chair McFadden asked if there were any public comments for the Water Resources Committee. None were offered.

2. Approval of Minutes - Motion

Motion to approve the July 8, 2021, Water Resources Committee meeting minutes, Director Naumann; Second, Director McFadden. Voice vote: two ayes (McFadden and Naumann); none opposed; one absent (Maulhardt), motion carries 2/0/1.



3. Expert Panel Technical Review Memo, UWCD Regional GW Flow Model

Senior Hydrogeologist/Modeler Dr. Jason Sun provided updates and slides (see attached) on the expert panel technical review memo and the UWCD regional groundwater flow model.

Director Maulhardt joined the meeting at 9:17 am.

4. Coastal Brackish Groundwater Extraction Simulation with MODFLOW-USG

Dr. Sun provided updates and slides (see attached) on the Coastal Brackish Groundwater Extraction simulation with MODFLOW-USG. Chair McFadden asked if the chloride concentrations listed offshore are derived from the model estimate. Dr. Sun stated that staff starts with ocean and aquifers chloride estimates.

Director Maulhardt asked for clarification on the simulation. Dr. Sun stated that the blue areas indicate a chloride concentration of 100 mg/l. He added, what we see in the simulation is the seawater intrusion moving back and forth a bit and drifting towards the Mugu Navy Base.

Supervising Hydrogeologist Dan Detmer stated that staff had worked quickly to calibrate this model as the project is funded by a Prop 1 grant. Staff has now calibrated the solute transport and will begin running scenarios for Coastal Brackish Groundwater Extraction and Treatment Plant Project (CBG-WET). He added that the Mugu aquifer plume does not move much on the inland extent north of the Mugu base, where there is vertical flow down into the Fox Canyon aquifer.

Chief Engineer Dr. Maryam Bral mentioned the work that the Engineering department had been doing to support this project. Engineering coordinated another set of water quality data, which is being collected from Oxnard and Mugu aquifers for a wide range of constituents beyond just chloride and TDS.

Director Maulhardt stated that he was in awe at how transparent staff has been in the model development process and how willing staff has been to use outsiders to critique and inspect the work that has been done. He then complimented the General Manager and Senior Managers for creating an environment where the technical staff can excel.

5. When Will the Current Local Dry Cycle End?

Senior Hydrogeologist John Lindquist provided updates and slides (see attached) on historical patterns of drought and flood and commented that the current local dry cycle could continue for a few more years.

Chair McFadden stated that with amplification of the wetter conditions, systems that depend on snowfall will be in trouble in the future and systems that depend on stormwater will have an advantage. Mr. Lindquist agreed with this statement and noted that with warmer conditions there is a lot of water that is being evapotranspired. He added that high flows will still source from the Sespe watershed, and it will be a challenge to divert more muddy water.

6. Water Resources Department Update

Mr. Detmer provided a verbal update to the Committee regarding Water Resources department activities for the previous month. He stated that work continues on the groundwater modeling and the final draft of the model expansion report just needs final internal review. Staff addressed



comments from the panel and there is interest from the GSAs since Mound Basin and Fillmore Piru Basin rely on the model for their GSPs.

Mr. Detmer stated that there is another round of the Prop 1 Groundwater Grant program, which is for implementation projects only. He added the deadline is September 7 and staff will be applying. The intention is to apply for the first four (4) full scale production wells for the CBG-WET project. Letters of support were received from both the US Navy and Fox Canyon GMA.

Mr. Detmer stated that one challenge is to identify what will be done with the product water. There is saline water at the base of the perched aquifer, and the degree of confinement is a question there. He added that the District needs to prove it out to satisfy regulators that there are no organic contaminants in the water. Mr. Detmer stated that staff have been discussing requirements for a surface water discharge permit with the Regional Board for test pumping of the new production wells.

Director Maulhardt raised some concerns regarding the pumping of the product brine, and staff clarified that brine from the treatment plant will be routed to existing permitted ocean outfalls. Staff proposes temporary discharge piping for the test pumping and Director Maulhardt is hopeful the pipe will not need to be buried.

Dr. Bral stated that staff is only speaking about the scope of the Prop 1 Round 3 grant proposal, not the full scale project that includes RO treatment. Staff has been discussing use of the Salinity Management Pipeline (SMP) for the CBG-WET project but that will be discussed in the future. Mr. Detmer clarified the new grant proposal is for test pumping and additional monitoring wells in the deep perched zone are also proposed to assess the downward gradients and potential for vertical groundwater flow.

7. Groundwater Sustainability Agencies Update

Mr. Detmer provided a verbal update to the Committee regarding the activities of the various GSAs within United's service area, and activities related to Santa Paula basin management.

FUTURE AGENDA ITEMS

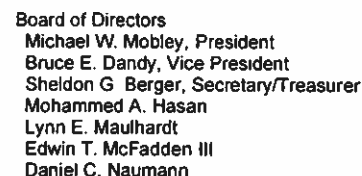
None were suggested.

ADJOURNMENT

Chair McFadden adjourned the meeting at 10:53 am.

I certify that the above is a true and correct copy of the Minutes of the UWCD Water Resources Committee Meeting of August 31, 2021.

Chair Edwin McFadden



Legal Counsel
David D. Boyer


MEETING DATE: Tuesday, August 31, 2021

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.

Representing

Santa Fe


City of Ventura



Expert Panel Technical Review Memo

UWCD Regional Groundwater Flow Model


Presented by Dr. Jason Sun, Ph.D., P.E, Senior Groundwater Modeler
Water Resources Committee Meeting
August 31, 2021



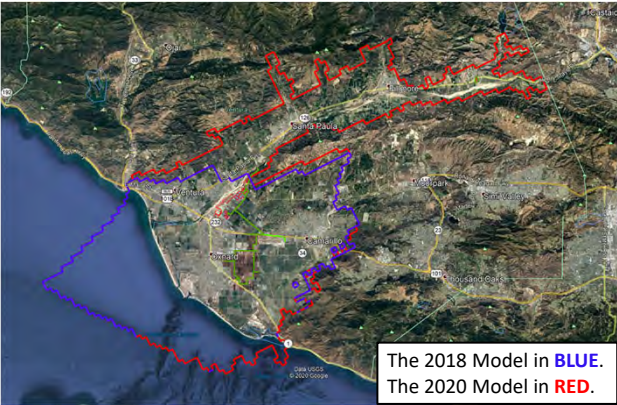
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Expert Review Panel

- Jim Rumbaugh**
Developer of the widely used MODFLOW pre- and post-processor, Groundwater Vistas
- Dr. Sorab Panday**
Co-author of MODFLOW
Author of MODFLOW-USG
Member of National Academy of Engineering
- John Porcello**
Licensed Geologist and Hydrogeologist
Principal groundwater hydrologist, with focus on western U.S.

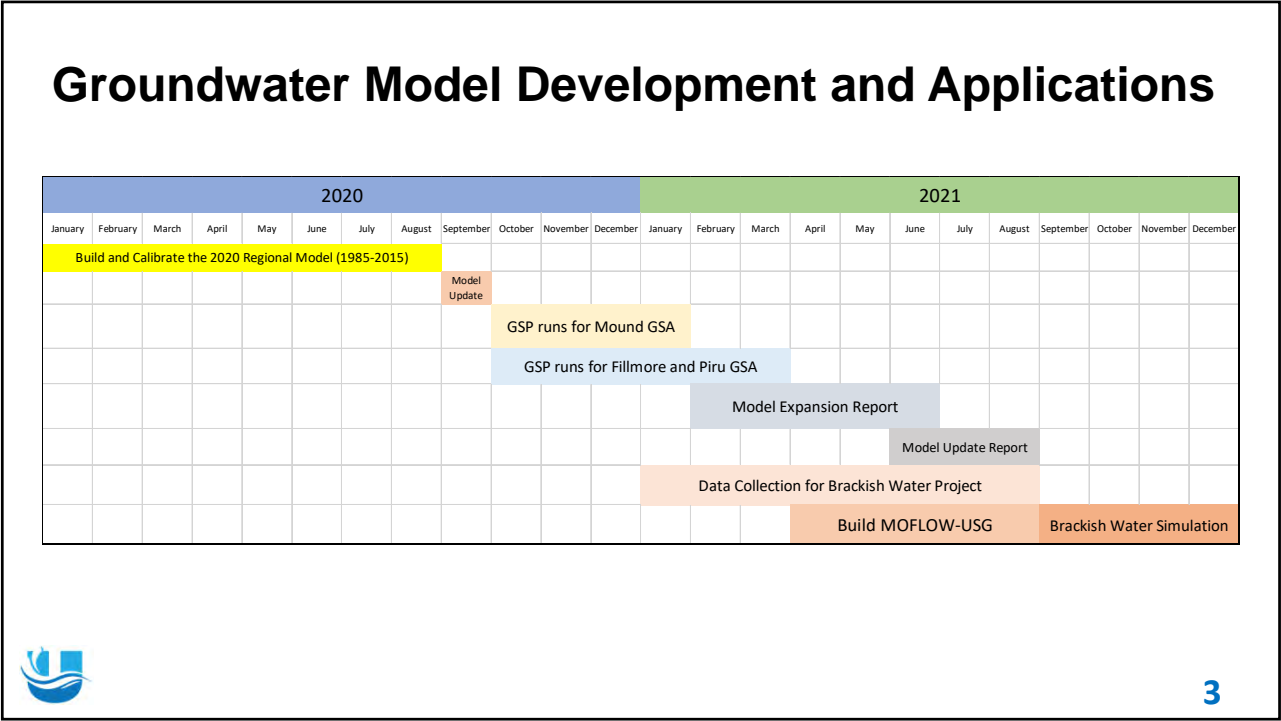


The expert panel started to review in 2016
The expert panel has reviewed the 2018 and 2020 GW models

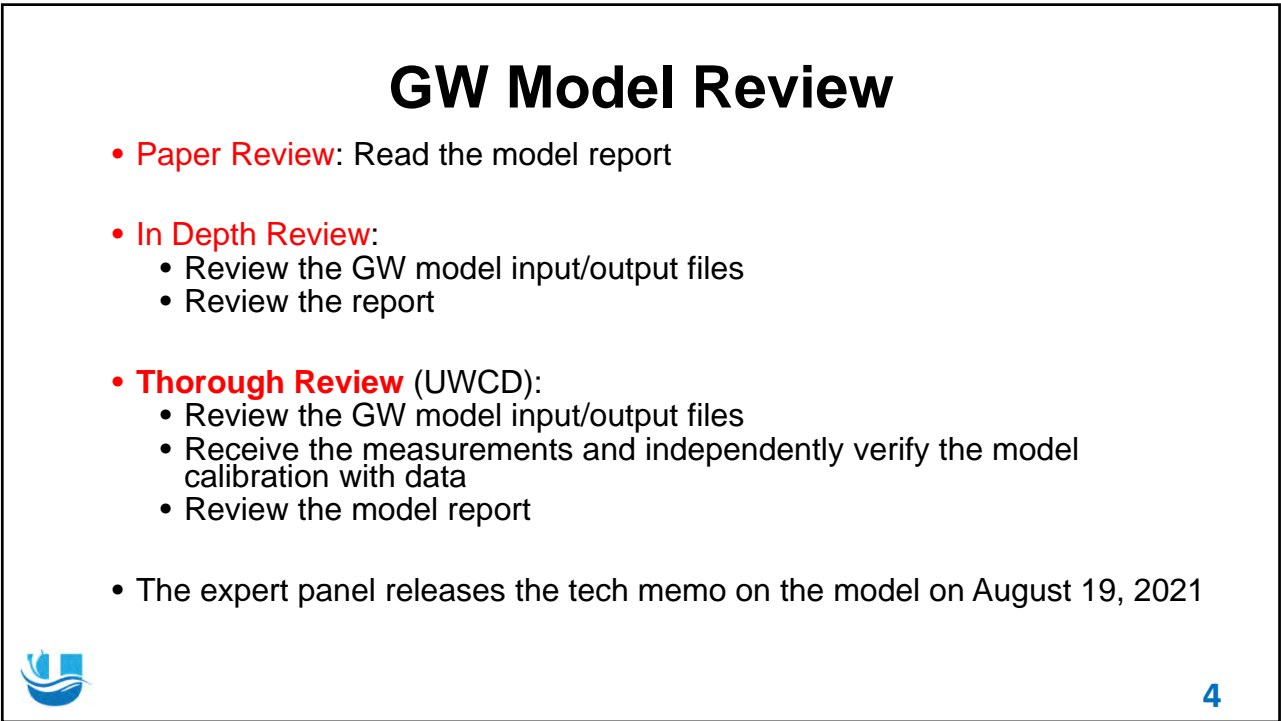


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Summary of Model Review Tech Memo

1. The numerical GW model is **well-designed** and **well-calibrated**
2. The numerical GW model **compares well with the description of geology and hydrogeology** developed from the data
3. The model calibration remains of **good quality** in the **update period**
4. The model is viewed by the expert review panel as an **appropriate tool** for...assisting with long-term sustainable management of the groundwater resources in these seven groundwater basins.
5. ...the UWCD team should be proud of the current model.



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Acknowledgement:

Management:

General Manager
- Mauricio Guardado
Chief Engineer
- Dr. Maryam Bral

Water Resources Department:

Dan Detmer
Eric Elliot
Murray McEachron
Dr. Bram Sercu
Dr. Zach Hanson
John Lindquist
Kath Kuepper
Robert Marshall

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6

Battle-Tested Model

- The model has been reviewed internally by UWCD surface water hydrologists and hydrogeologists
- The model has been reviewed externally by an expert panel composed of nationally recognized modelers (Dr. Sorab Panday, Mr. John Porcello, and Mr. Jim Rumbaugh).
- The model has been reviewed by Stanford professor, Dr. Daniel Tartakovsky
- City of Oxnard hires a consultant to review the model



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Questions/Comments



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Coastal Brackish Groundwater Simulation with MODFLOW-USG



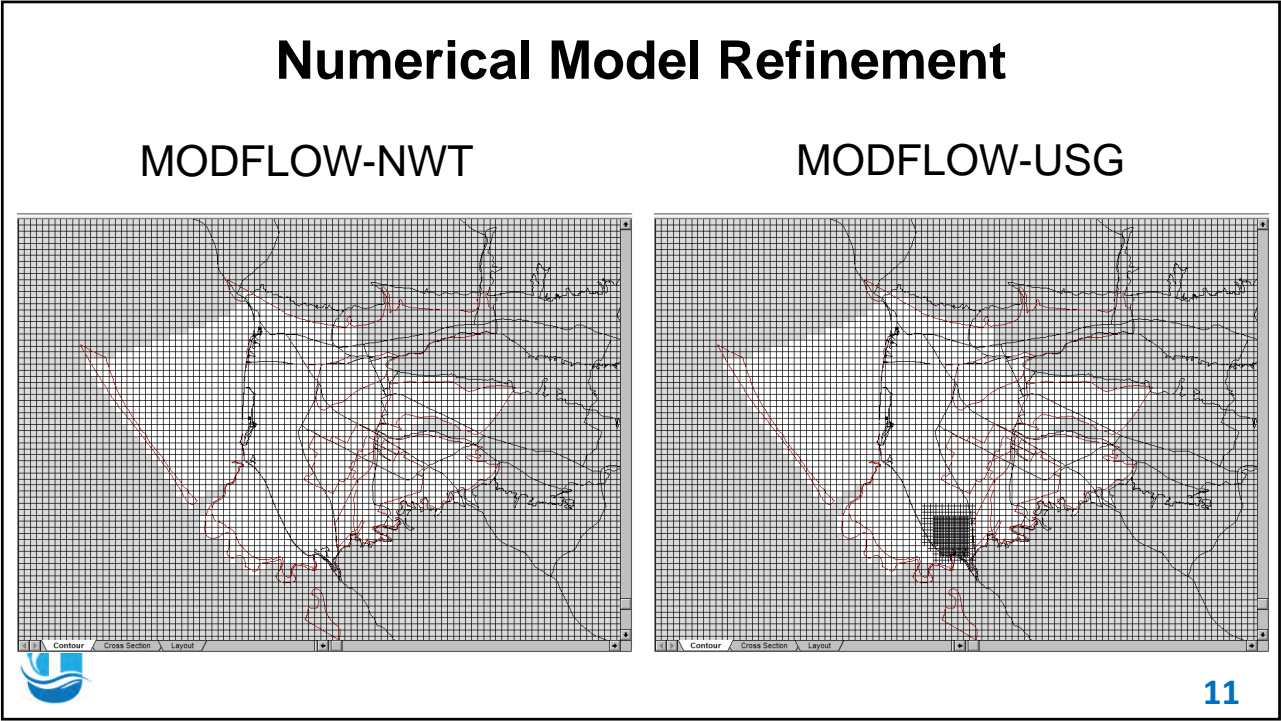
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- Prop 1 Grant
- The 2018 Model (Coastal Plain Model) has been converted into MODFLOW-USG
- Model refinement (model layers and grids) has been applied
- Flow model calibration was reviewed to be good
- Transport model (seawater intrusion) is calibrated preliminarily

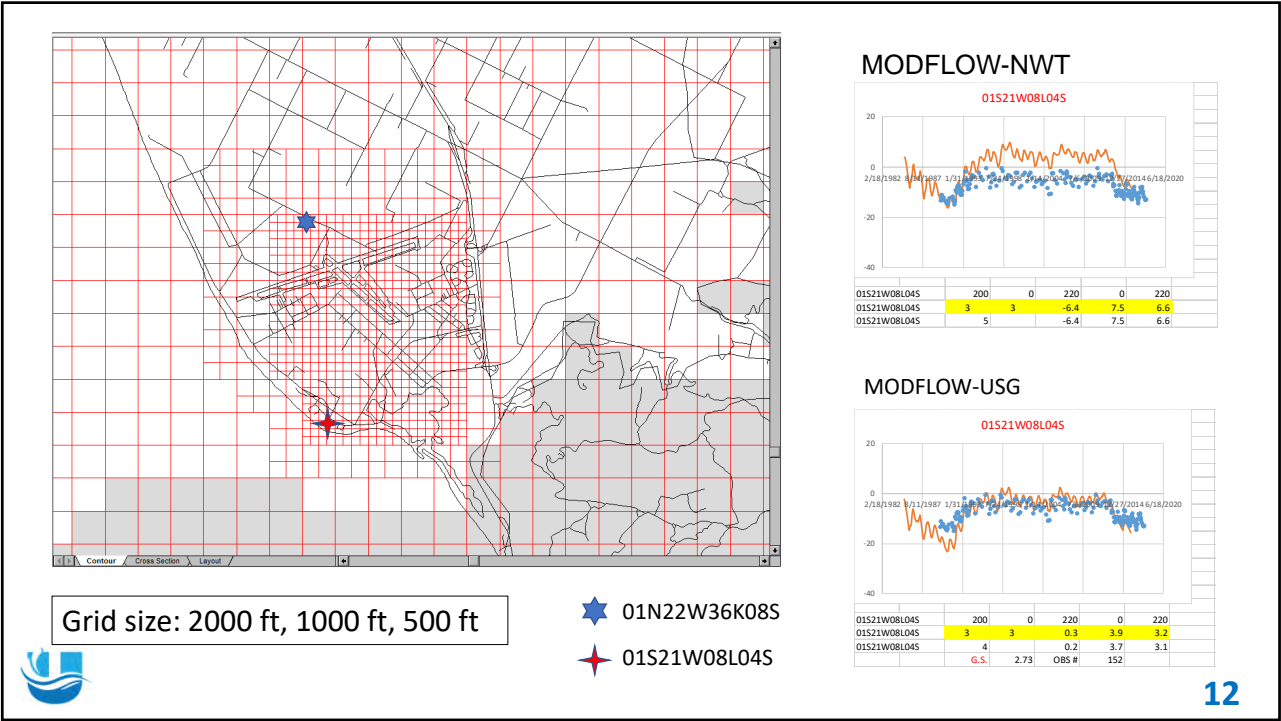


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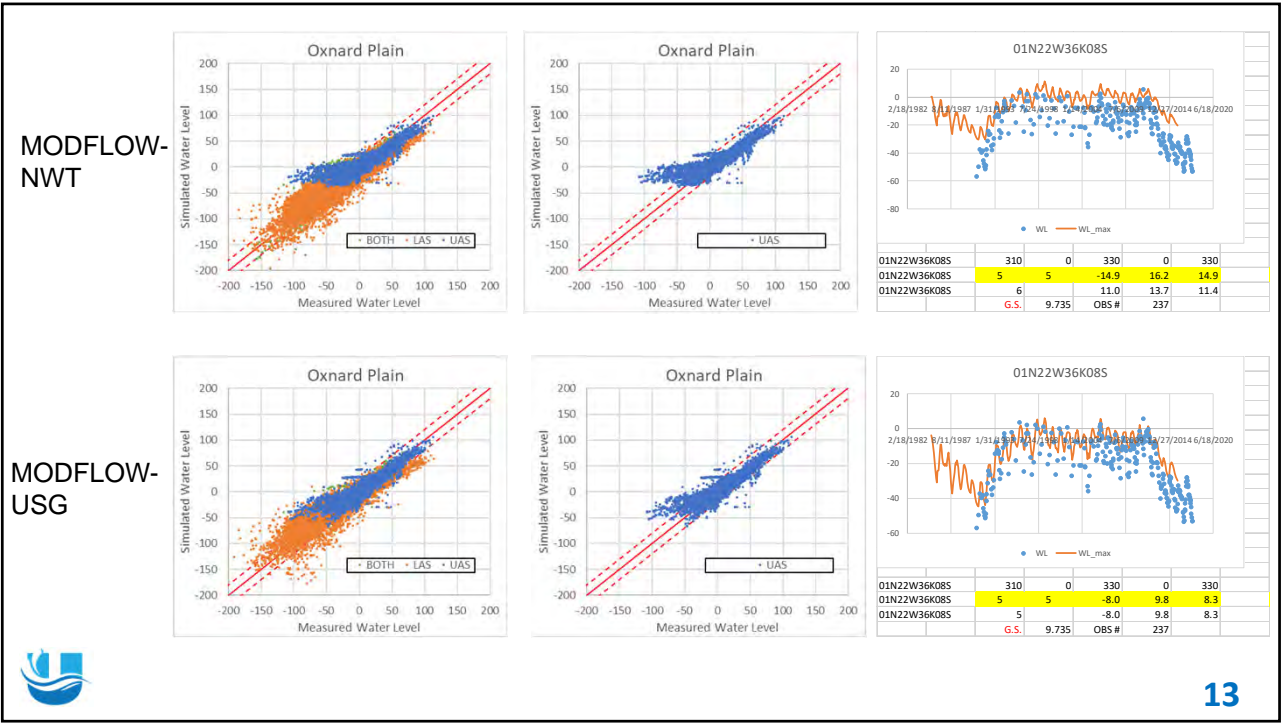
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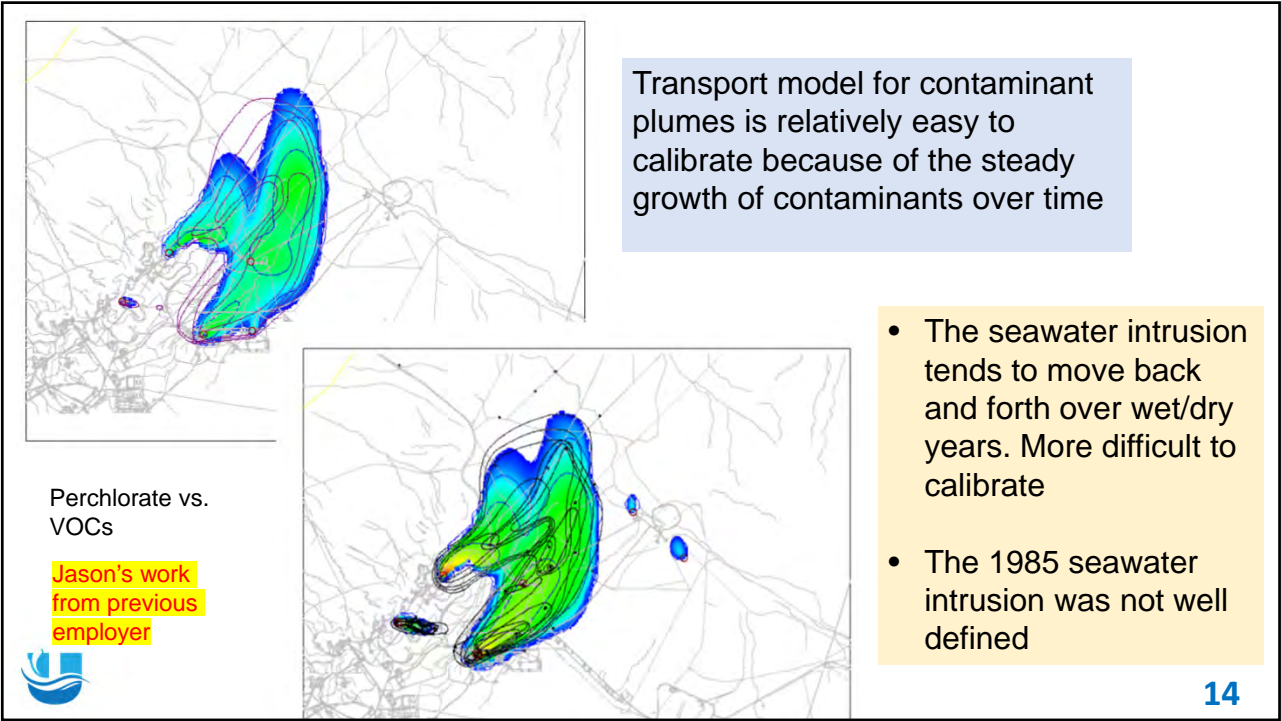
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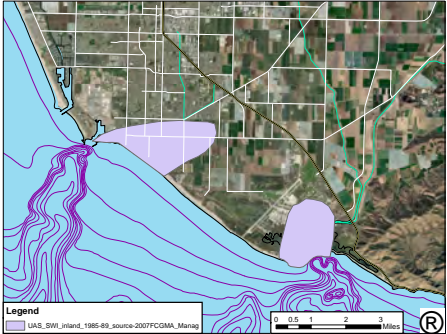


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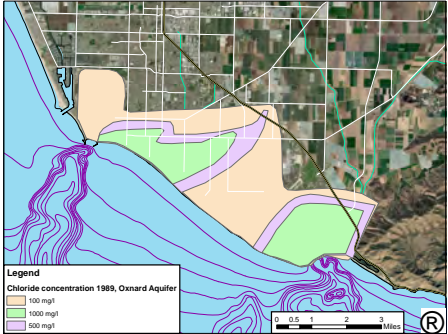


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Seawater Intrusion (SWI) Investigation




1985-1989 UAS SWI Inland Extent (FCGMA)



1989 Oxnard Aquifer SWI Inland Extent (USGS)
USGS revised the extent to be smaller later

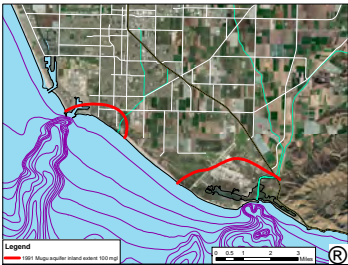
More investigations in 1994, 1999, 2002, 2005 and 2015



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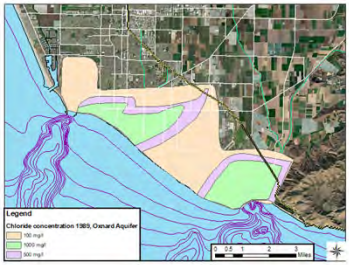
Seawater Intrusion (SWI) Investigation

Preliminary
1991
Mugu
Aquifer
SWI Inland
Extent
(UWCD)



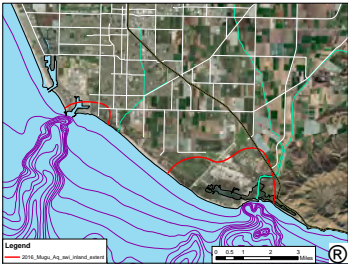
Legend
1991 Mugu aquifer inland extent 100 mgd

1989
Oxnard
Aquifer
SWI
Inland
Extent
(USGS)



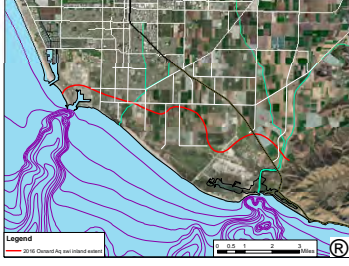
Legend
Chloride concentration 1989, Oxnard Aquifer
100 mg/l
1000 mg/l
5000 mg/l

2015
Mugu
Aquifer
SWI Inland
Extent
(UWCD)




Legend
2015 Mugu Aquifer inland extent

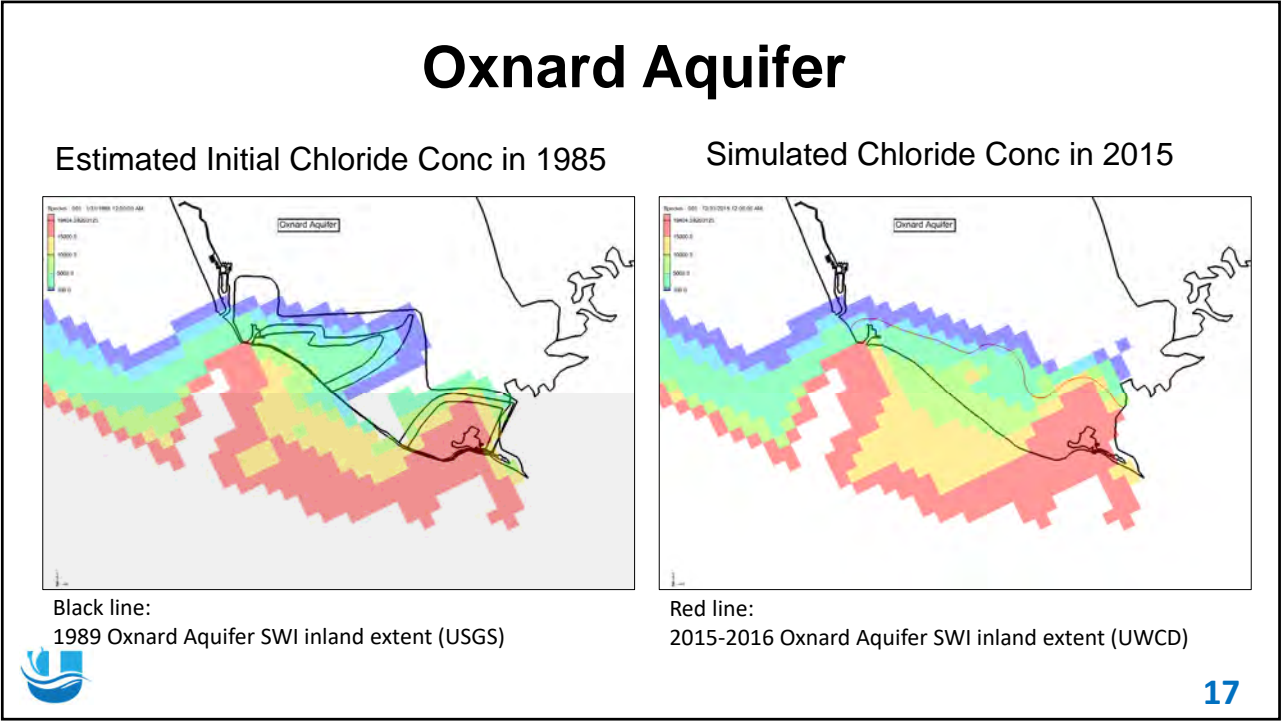
2015
Oxnard
Aquifer
SWI Inland
Extent
(UWCD)



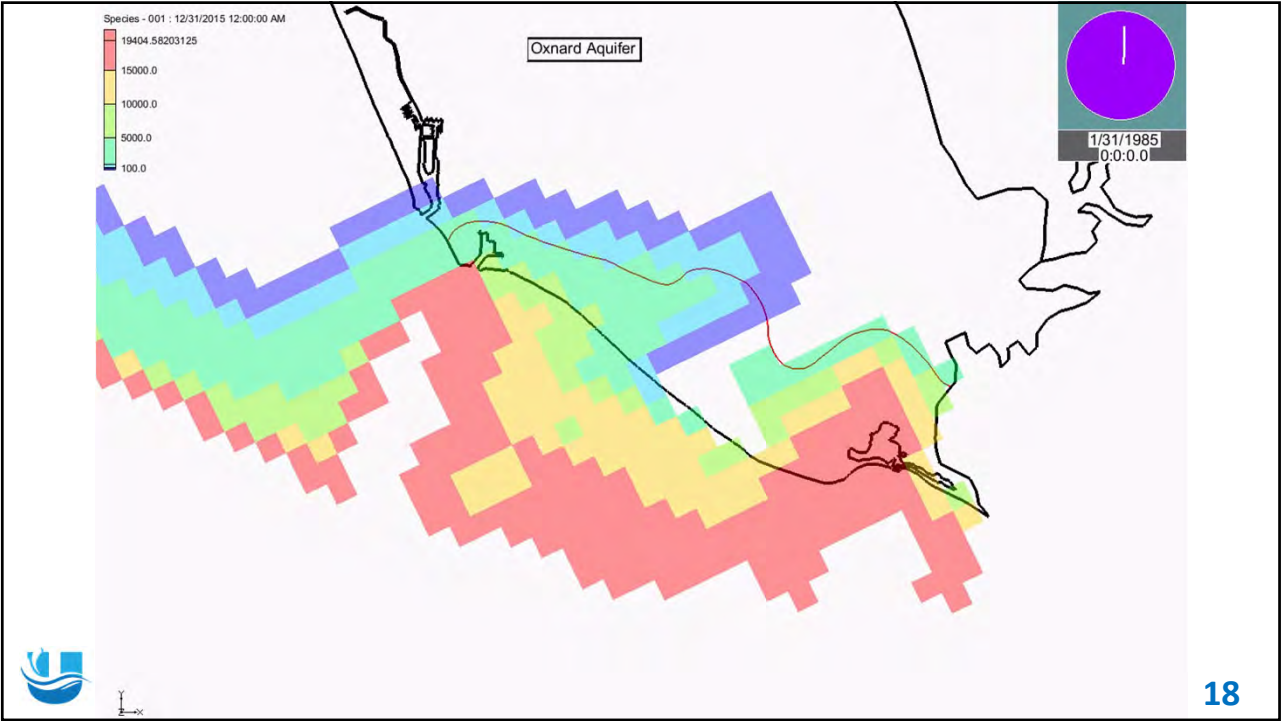
Legend
2015 Oxnard Aquifer inland extent



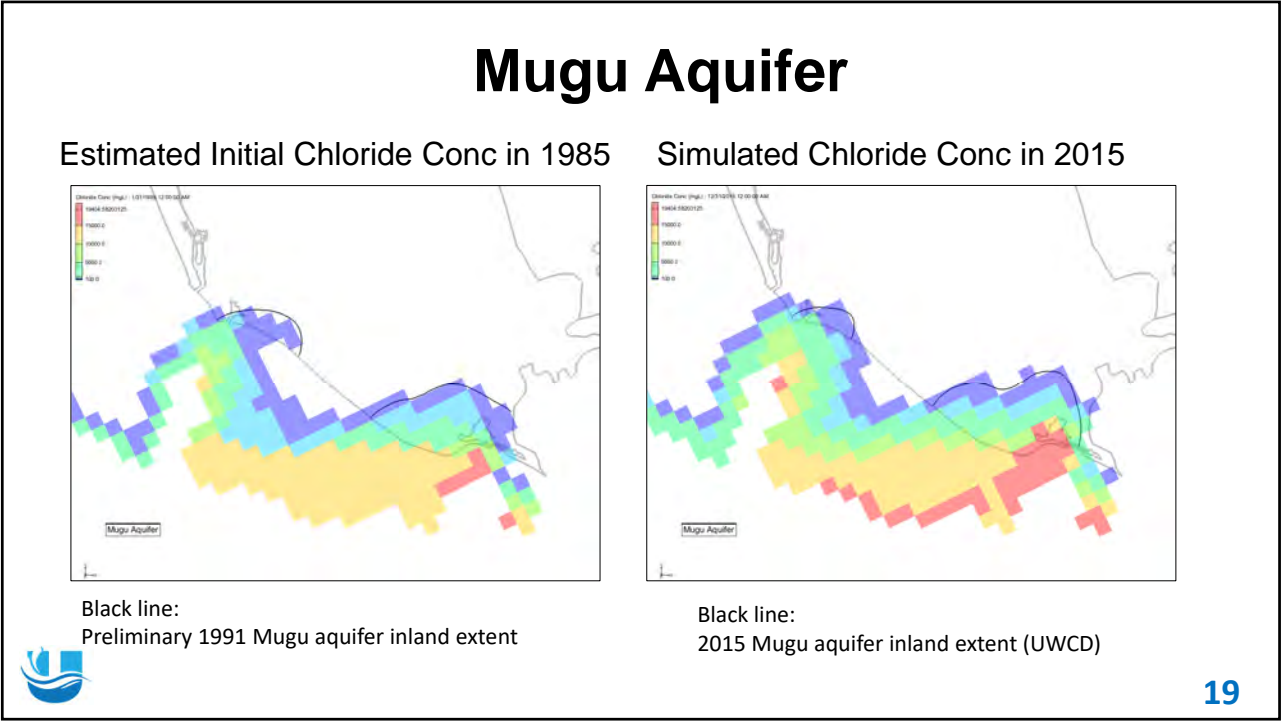
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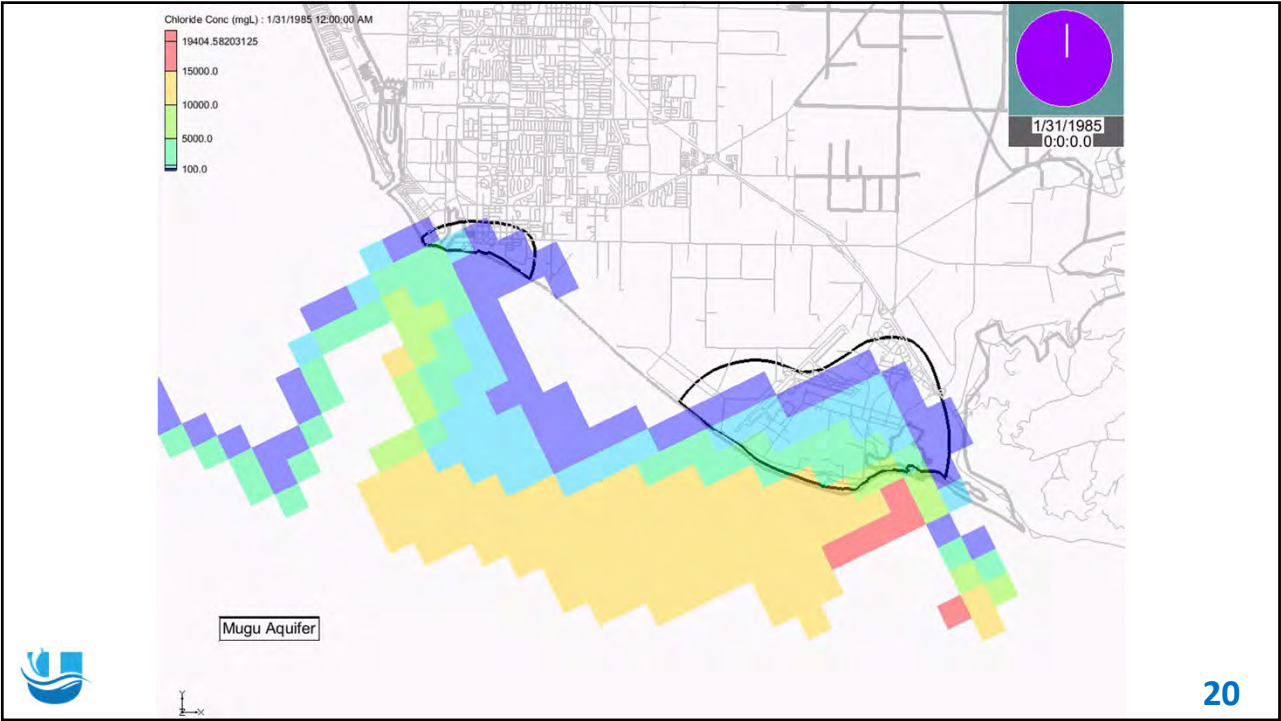
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Conclusions

- A detailed analysis on the seawater intrusion data from 1985 to 2015 may be beneficial
- The MODFLOW-USG model is ready for the brackish water project
- The MODFLOW-USG model will be sent to the Expert Panel for review
- The MODFLOW-USG model may continue to be improved while simulating the brackish water project in parallel



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Questions/Comments



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When Will the Current Local Dry Cycle End?

A Brief Review of Historical Data and a Peek at What the National Weather Service Expects in 2022


Presented by John Lindquist, Senior Hydrogeologist
Water Resources Committee Meeting
August 31, 2021



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OUTLINE

1. How severe is our current drought compared to historical droughts?
2. What can we learn about **local** drought frequency and duration from long-term rainfall-proxy data (tree rings)?
3. How are droughts and wet periods expected to change in the future?
4. Please, just tell me when it's going to rain again...



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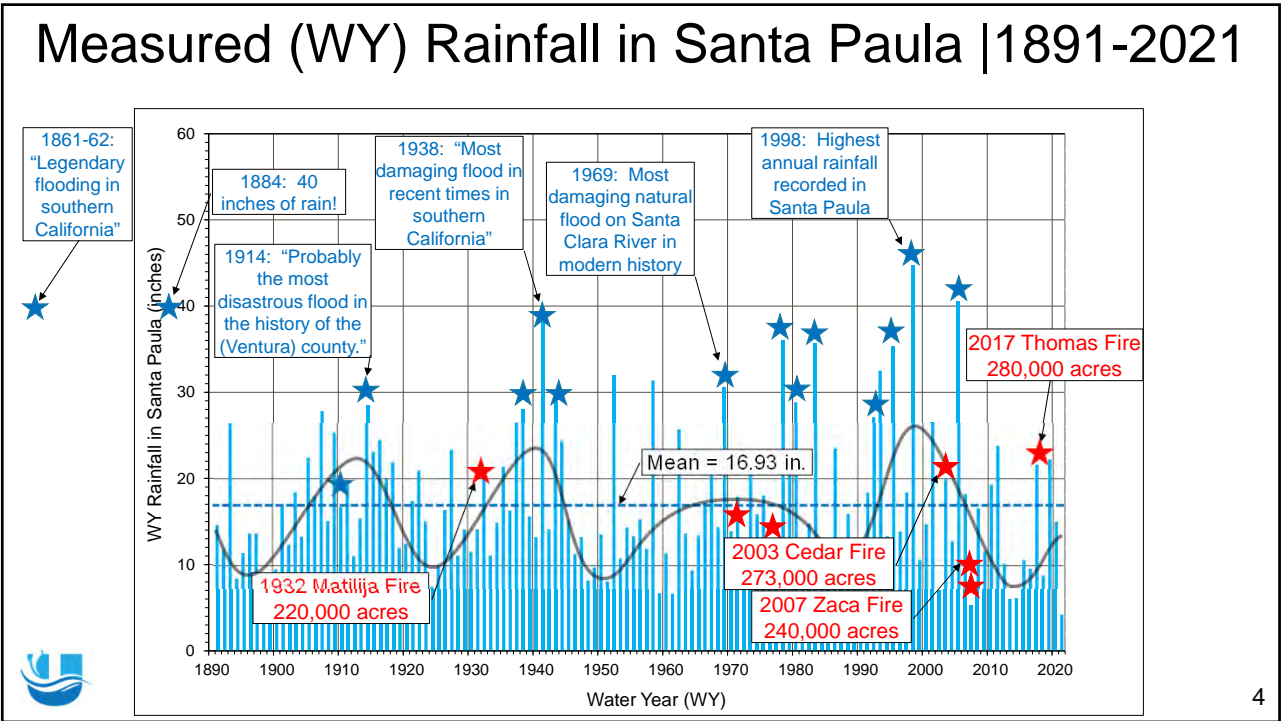




1. THE HISTORICAL RECORD

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Local Cycles of Dry and Wet Periods Aren't New

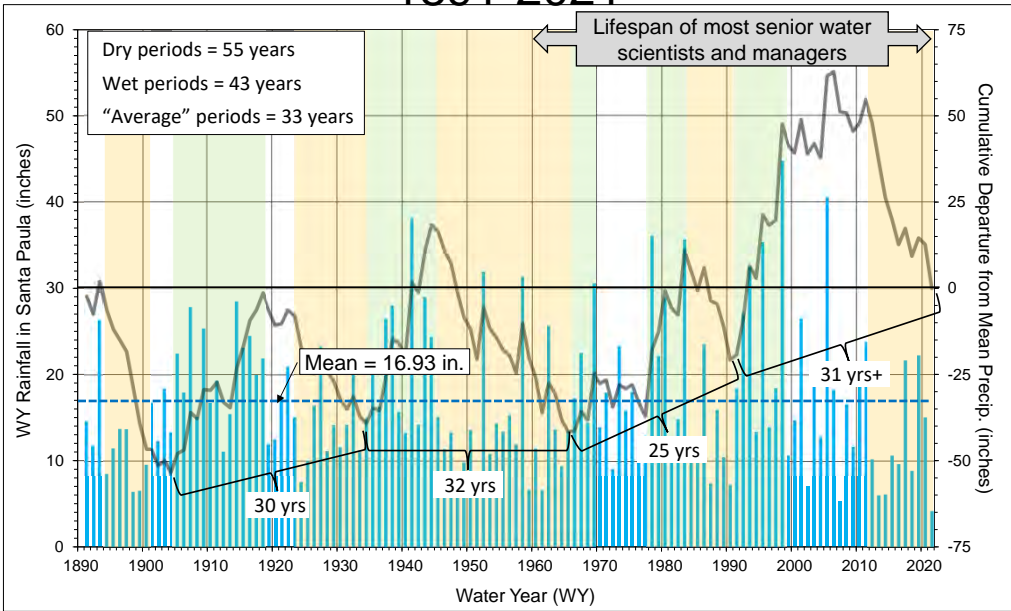
"The length of a complete wet and dry period during the time rainfall has been measured and recorded at Santa Paula...is in the order of twenty to thirty years."

Vernon Freeman, "People – Land – Water" (1968)

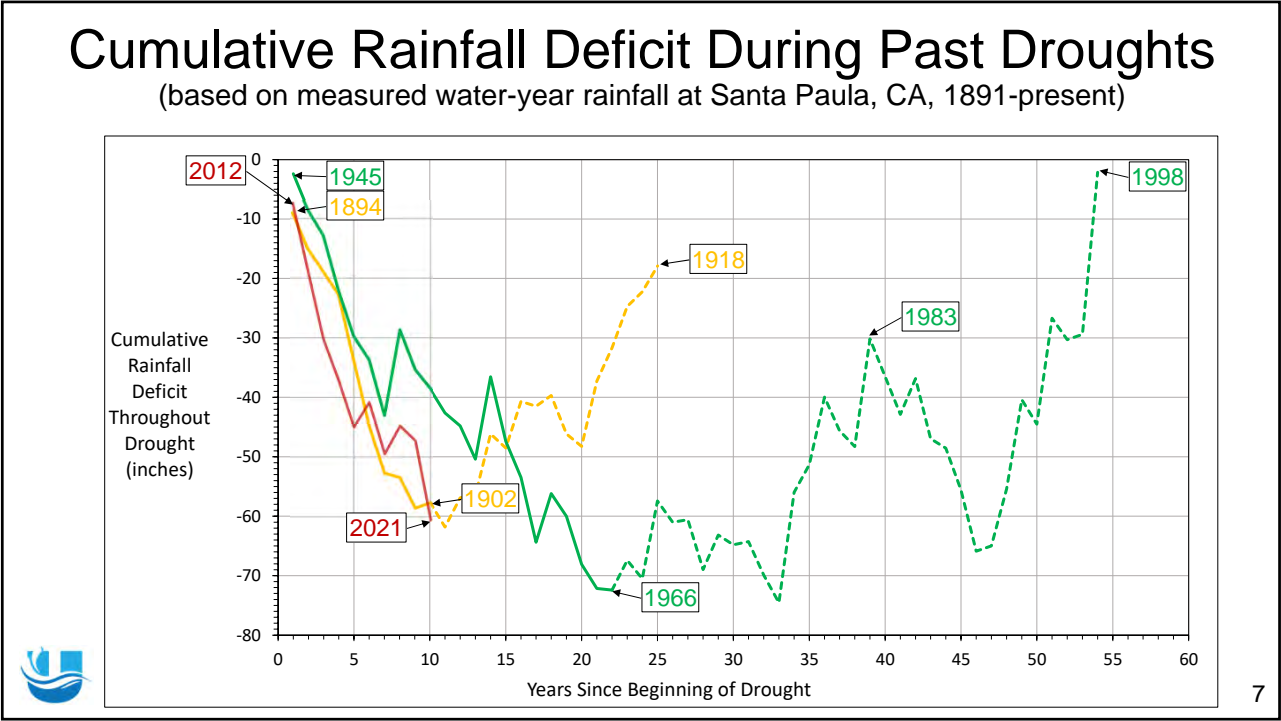


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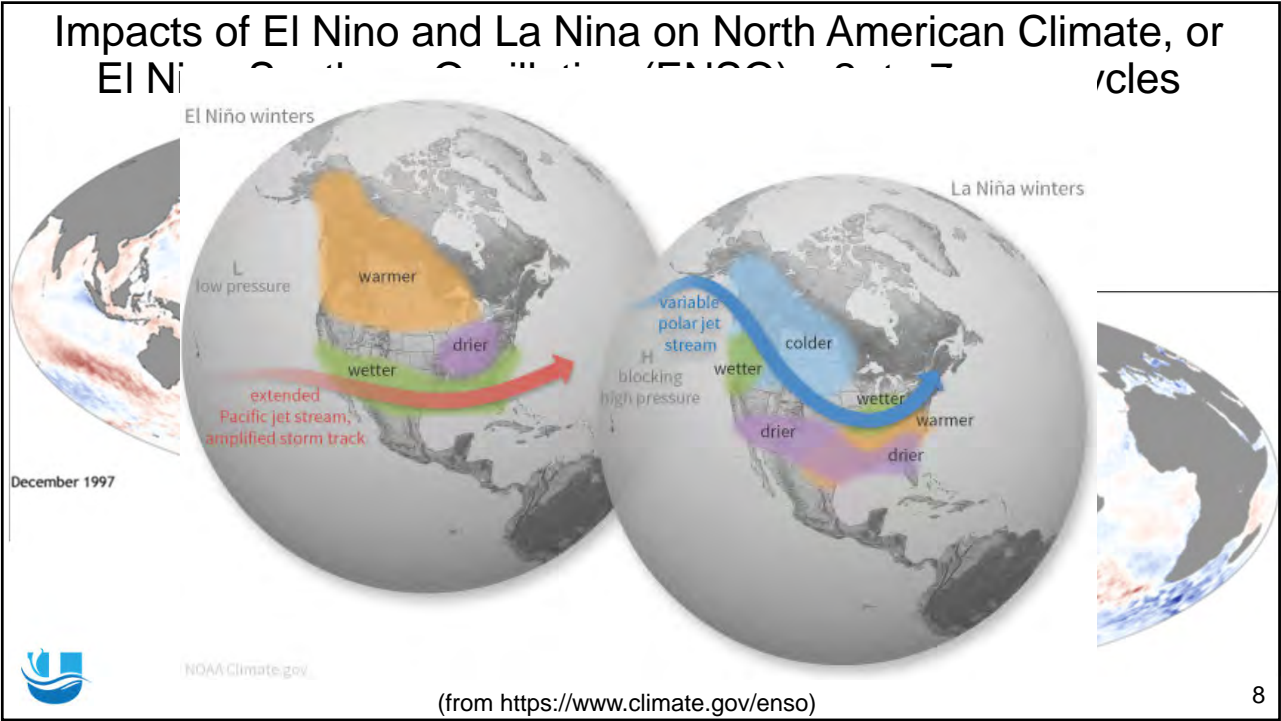
Cumulative Departure from Mean Precipitation 1891-2021



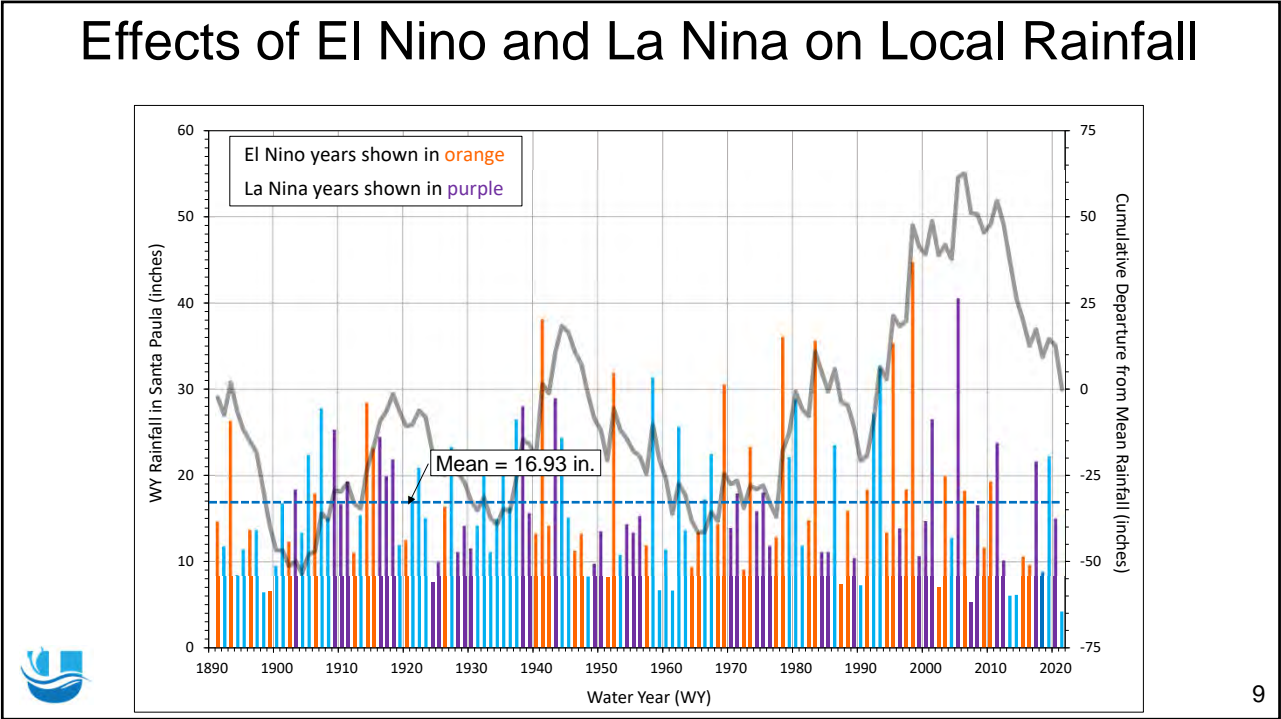
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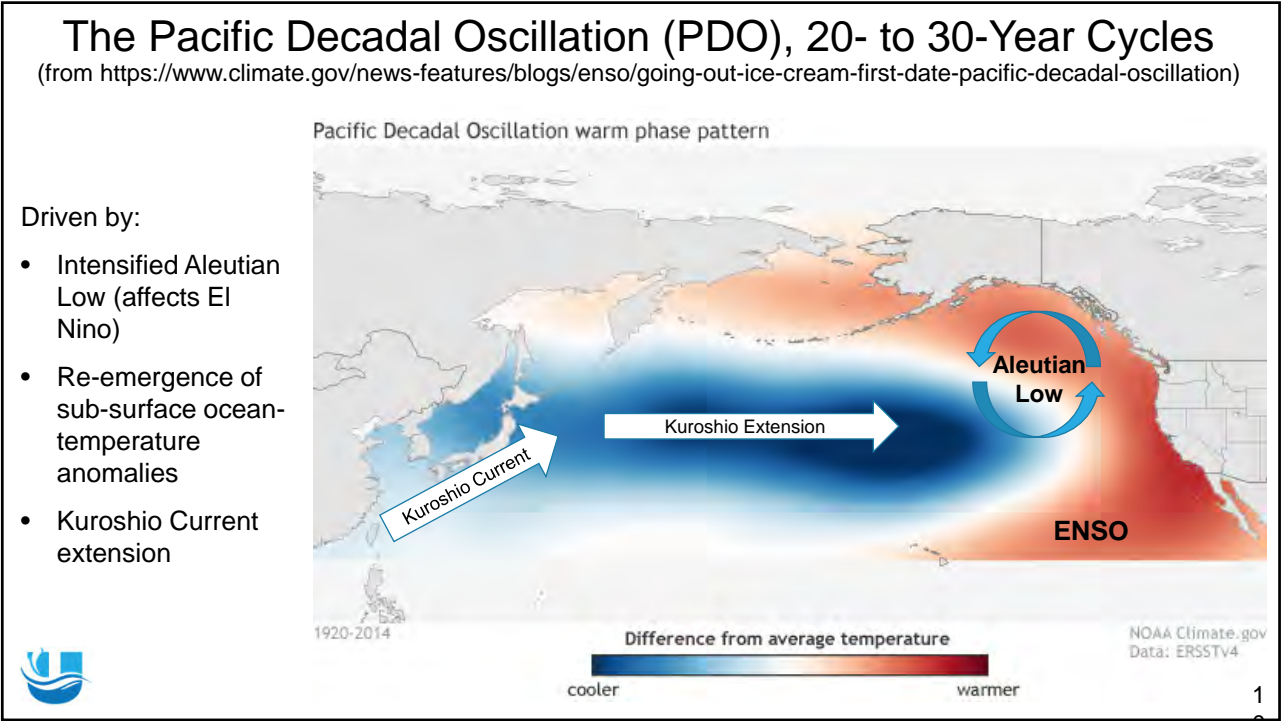
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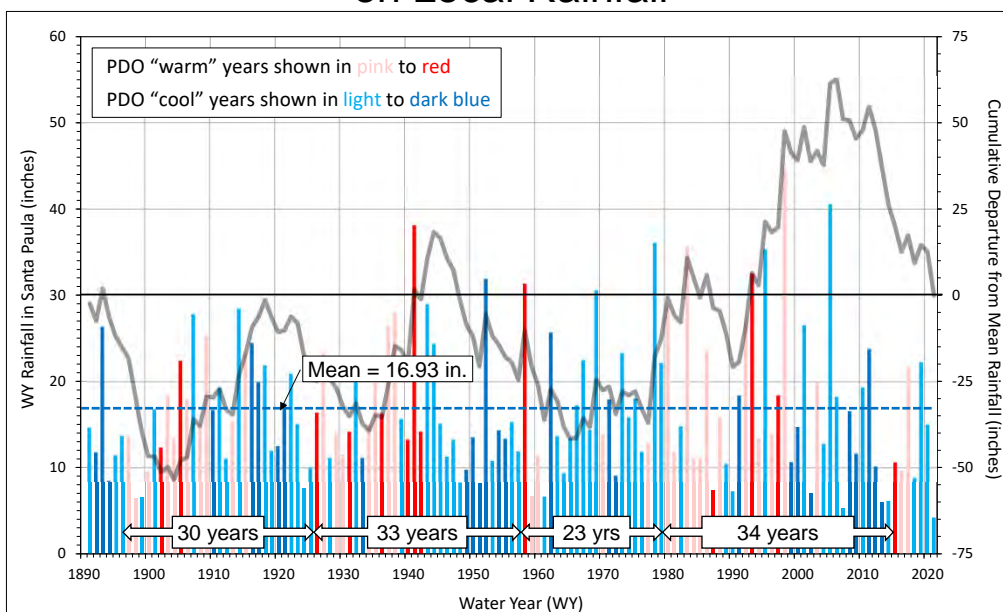


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Impacts of PDO Warm and Cool Cycles (20- to 30-years each) on Local Rainfall



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Local Cycles of Dry and Wet Periods Aren't New

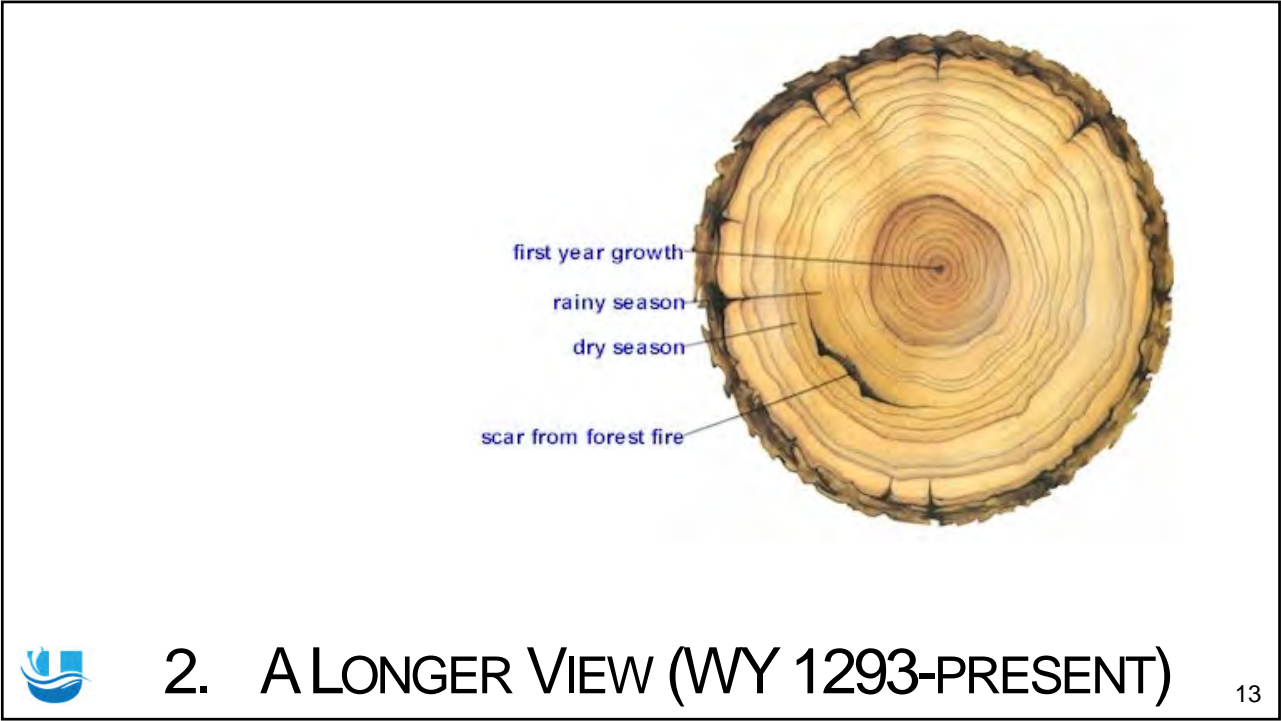
"Although the present drought years seem endless and normal to most of our people, the nearly 200 years of California's written history records six wet periods with major floods, which have run their course and were followed by periods of drought."

Vernon Freeman, "People – Land – Water" (1968)

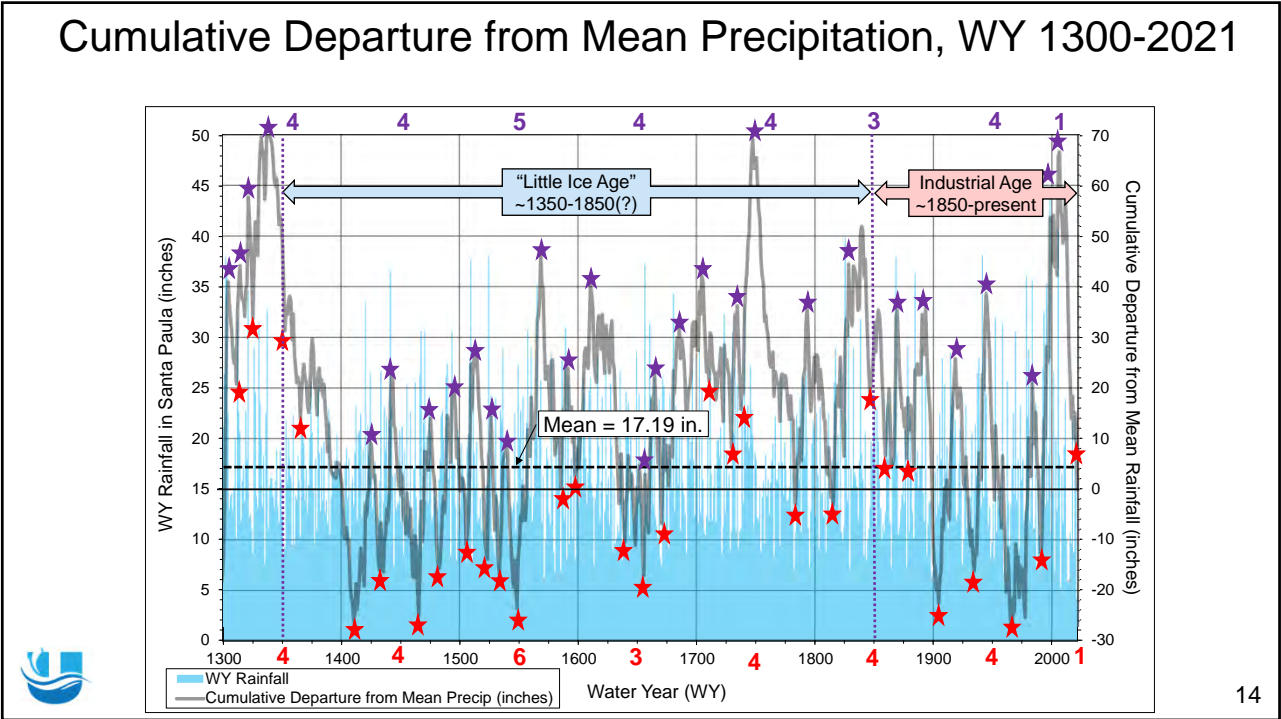


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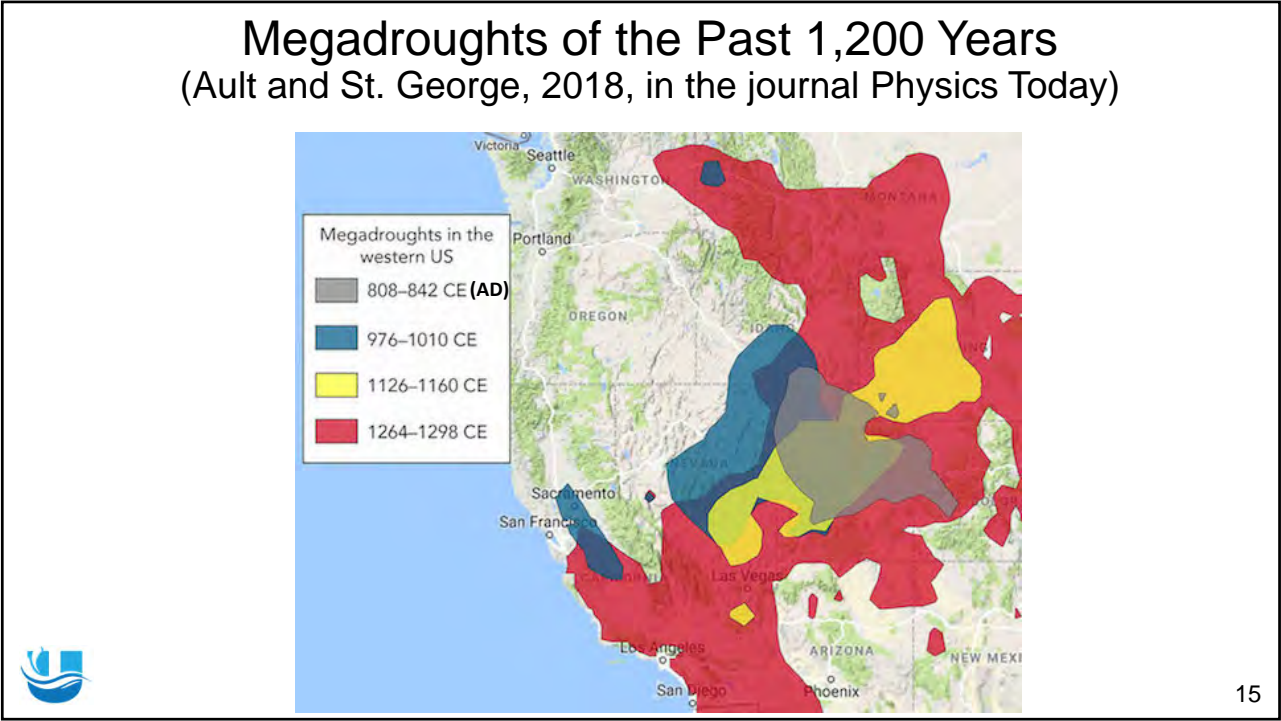
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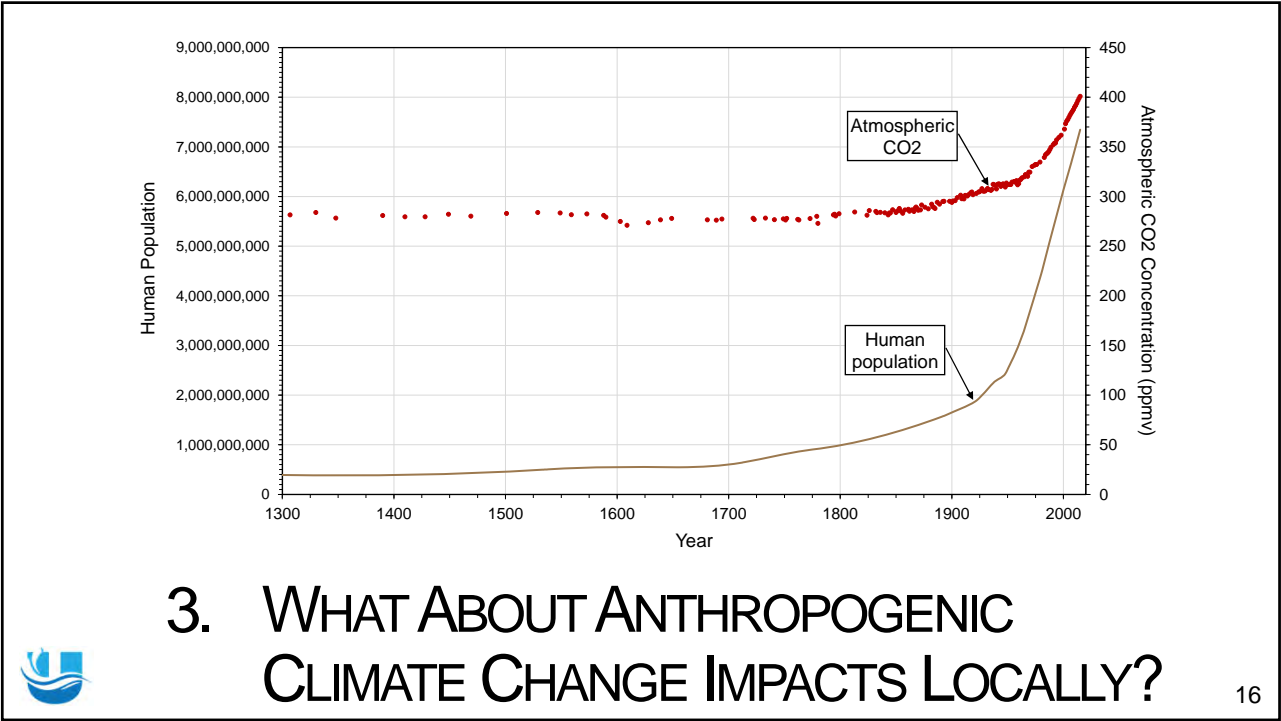
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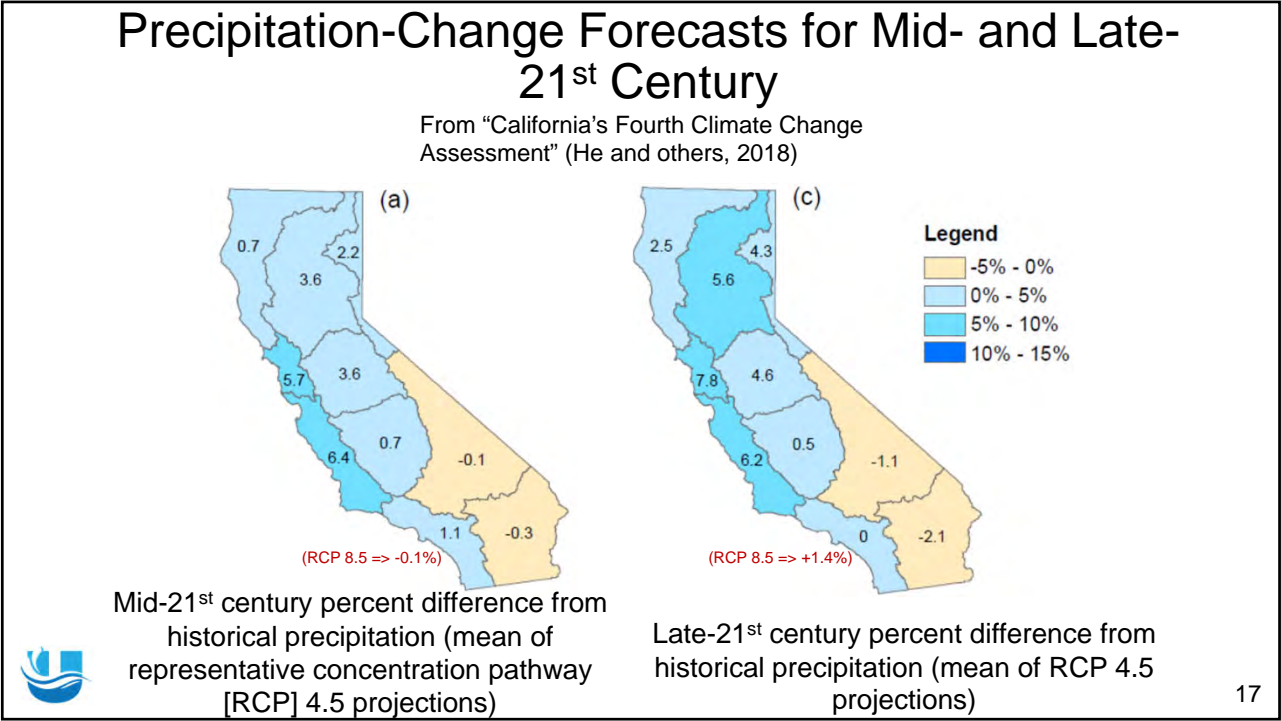
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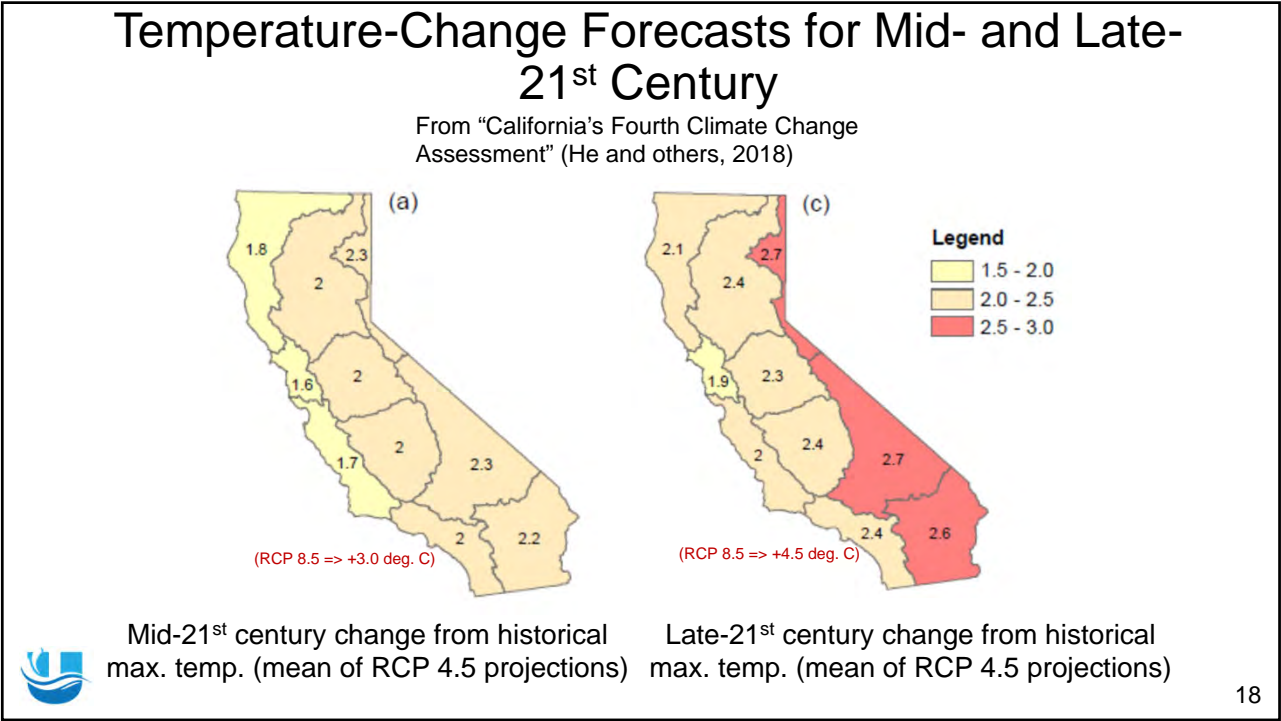
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Runoff Predictions Based on DWR Change Factors

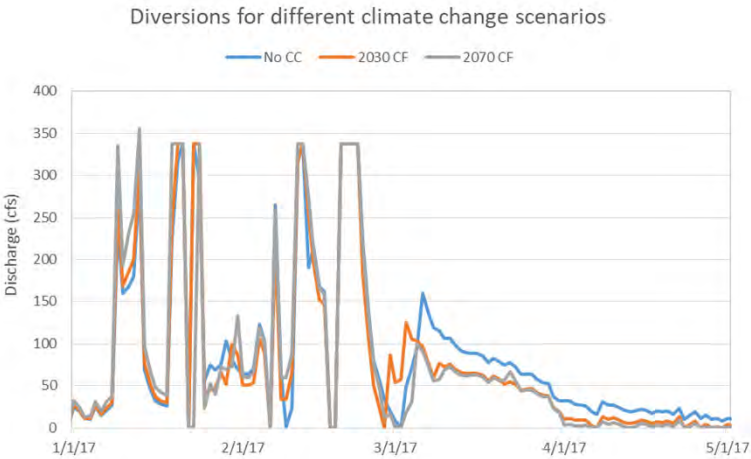
Climate Change Scenario	Sespe Runoff (AF)	Sespe Change	SCR at FMN Runoff (AF)	SCR at FMN Change
None	91,950		215,400	
2030 CF	87,640	-5 %	205,220	-5%
2070 CF	88,850	-3 %	209,200	-3%



19

19

Diversion Predictions Based on DWR Change Factors



Climate Change Scenario	Annual Diversions (AF)*	Change
None	62,938**	
2030 CF	60,809	-3 %
2070 CF	58,994	-6 %

*2021 GSP model runs Mound/Filmore/Piru
**Preliminary results



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OTHER KEY POINTS ABOUT LIKELY CLIMATE-CHANGE EFFECTS LOCALLY (FROM OAKLEY AND OTHERS, 2019)

1. Winter expected to be slightly wetter, spring and fall expected to be slightly drier
 - a) Number of “dry days” (without precipitation) likely to increase
 - b) More intense rainfall on remaining “wet days”
 - c) Implies larger, but less frequent, stormflows in rivers and streams in Ventura County (not a report conclusion, but consistent with California DWR climate-change forecasts)
2. Overall increase in temperature (seasonal, diurnal, extremes)
 - a) Increased evaporation, potentially less runoff/streamflow
 - b) Increased demand for water by people and crops



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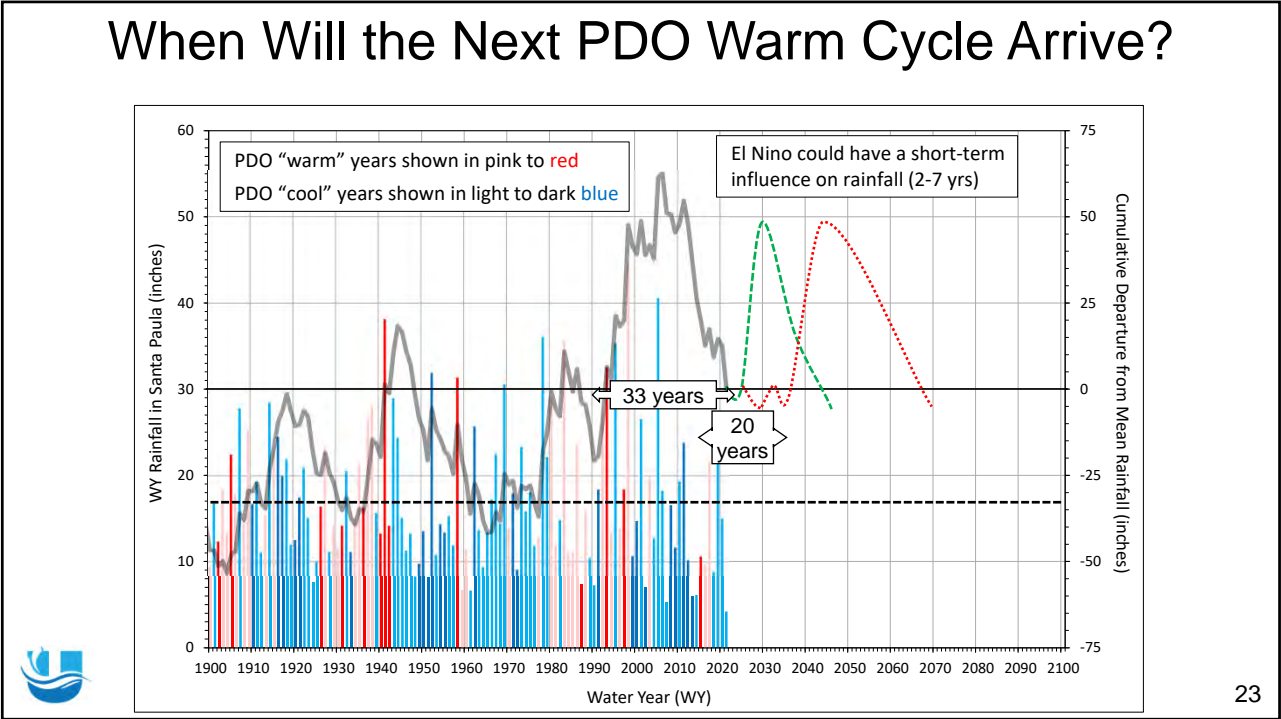


4. WHATEVER... JUST TELL ME WHEN IT'S GOING TO RAIN AGAIN

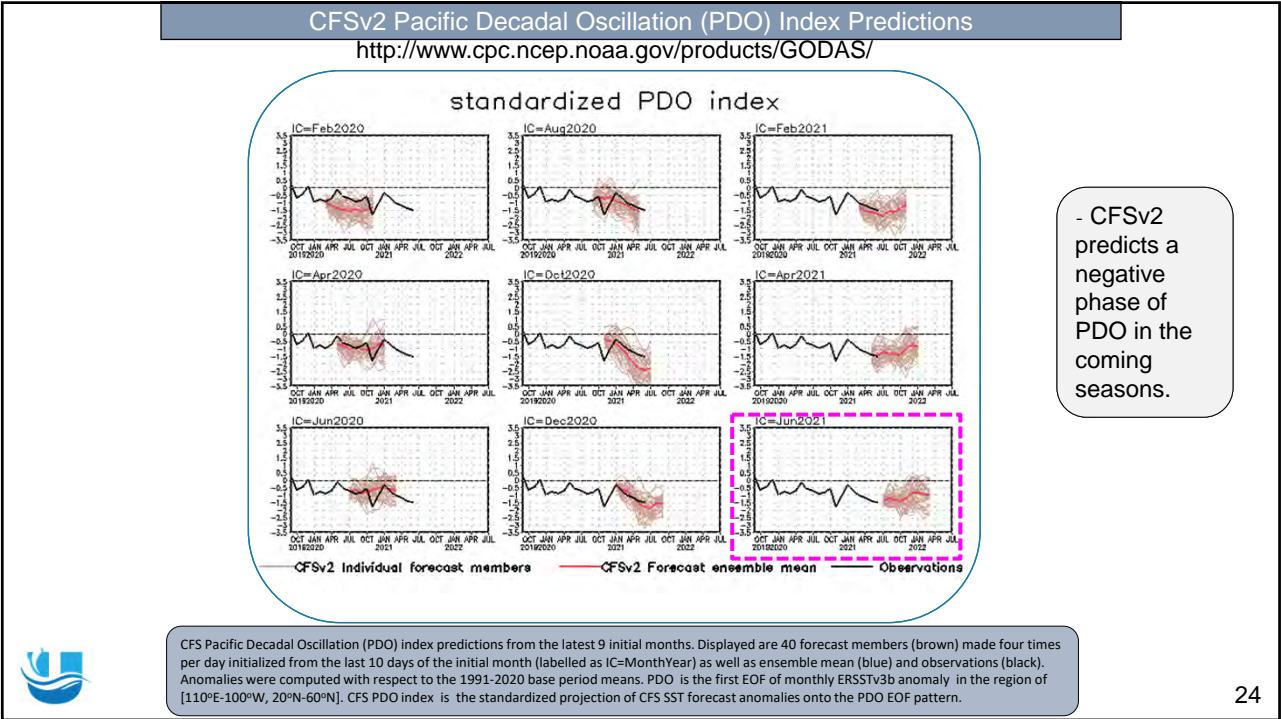


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In Summary

The past 10 to 20 years have been rough:

- Following the wettest decade in recorded history (1990s), we had an average decade (2000s) and then a very dry decade (2010s)
 - Extreme dry years in 2002, 2007, 2013, 2014, 2018, and 2021
- Not surprisingly, we've also seen major wildfires in the past 10 years

The 2000s and most of the 2010s coincided with a PDO cool phase:

- Drier conditions consistent with historical climate cycles
- **However**—Most climate scientists now recognize some degree of amplification of the impacts of the PDO, ENSO, and other ocean/atmosphere circulation cycles resulting from anthropogenic climate change

We likely will enter a warm (and wet) PDO phase sometime in the next decade (or two?)



- Be prepared for further “amplification” and uncertainty

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Questions?

*“It never rains in California
But girl, don't they warn ya?
It pours, man, it pours”*

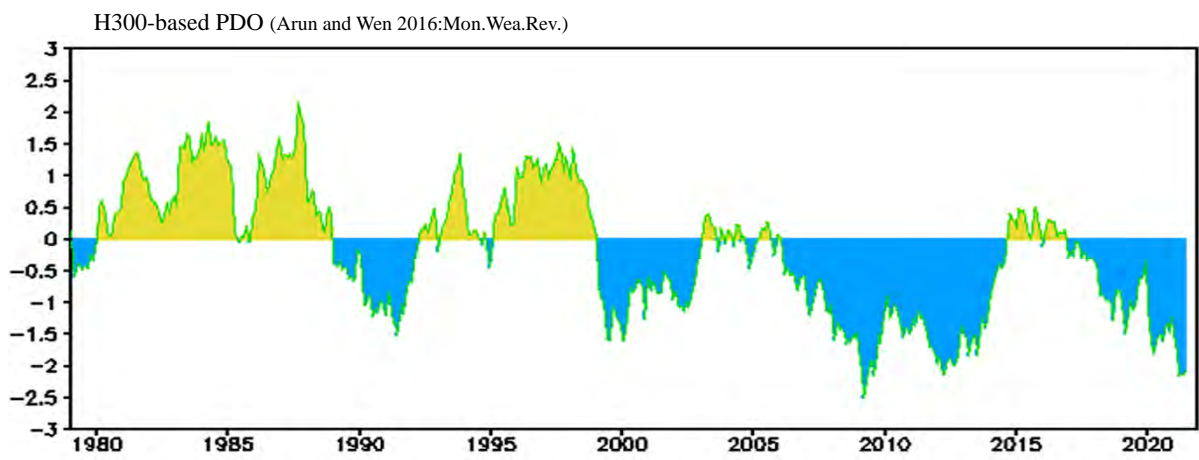
--Albert Hammond, 1972



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Where are We in the Current PDO Cycle?



27



Staff Report

To: Water Resources Committee

Through: Mauricio E. Guardado, Jr., General Manager

From: Maryam Bral, Chief Engineer
Dan Detmer, Water Resources Manager

Date: September 28, 2021 (October 5, 2021 Committee Meeting)

Agenda Item: 6. **Monthly Water Resources Department Report**
Information Item

Staff Recommendation:

Receive a summary report on various Water Resources departmental activities.

Discussion:

Staff Activities

In addition to the Department's routine, ongoing groundwater monitoring and reporting programs and its support of Groundwater Sustainability Agencies (summarized in a separate staff report), notable efforts and activities conducted by staff during the past month included the following:

- Groundwater Modeling:
 - Staff has completed expansion and documentation of the active domain of United's numerical groundwater flow model to incorporate the Piru, Fillmore and Santa Paula basins, updated the Regional Model to include the years 2016-2019, and verified the calibration of the expanded and updated model. Staff has also completed documentation of the inputs required for forward-looking projections conducted for the Mound and Fillmore & Piru basins groundwater sustainability agencies (GSAs). Staff is finalizing documentation of the model update and verification effort. The independent Expert Panel has reviewed the expanded and updated Regional Model and related documents and authored a Technical Memo detailing their favorable review of United's work.
 - Staff has converted the 2018 version of the groundwater flow model (coastal plain basins) to a new software version that allows for the simulation of salinity changes associated with seawater intrusion in the coastal areas surrounding Pt. Mugu and Port Hueneme. This work is funded by the Prop 1 Coastal Brackish Project feasibility study and incorporates revised geologic mapping in the study area, work that was also funded by the Prop 1 grant.
-

Agenda Item: 6. Monthly Water Resources Department Report
Information Item

Page 2

- Staff hosted the third Technical Advisory Committee meeting for the Prop 1 grant work on September 27. Dr. Sun presented his work on conversion of the coastal plain model to MODFLOW-USG, and staff reported other progress related to development of the Coastal Brackish Groundwater Extraction and Treatment Project.
- Staff continue to help the Environmental Services Department (ESD) evaluate effects of existing and potential future surface water flow conditions at the Freeman Diversion.
 - Staff are assisting ESD in evaluating fish passage design modifications under consideration for United's Habitat Conservation Plan (HCP).
- Staff continue to assist with planning and coordination for release of Table A water and supplemental State Water Project water acquired from the Santa Clarita Valley Water Agency and the City of San Buenaventura. 3,150 AF has been received and United has the option to purchase an additional 1,260 AF.
- Staff continue to collaborate with the Engineering Department with development and design of a portfolio of new or improved water-supply projects within the District's service area. Staff and their consultant are working and meeting regularly to refine the conceptual design of water-supply projects and new conveyance systems so that they yield the best value in terms of sustainable yield for the groundwater basins in United's service area and refine existing routing models to distribute available surface water and new water supply project water.
- Staff continue preparing a report detailing conditions related to ongoing and active seawater intrusion in the Oxnard basin.

Outreach and Educational Activities:

- Staff participated in planning efforts for United's upcoming Water Sustainability Summit tentatively scheduled for this fall. Activities included support of development of an agenda, development of analyses and evaluations of new projects, and preparation of presentations for the Summit.
- Three staff presented at the Groundwater Resources Association of California's "Western Groundwater Congress" in Burbank, on modeling work and water-supply project planning in progress by United.



Staff Report

To: Water Resources Committee

Through: Mauricio E. Guardado, Jr., General Manager

From: Maryam Bral, Chief Engineer
Dan Detmer, Water Resources Manager

Date: September 28, 2021 (October 5, 2021 Committee Meeting)

Agenda Item: 7. **Update on Groundwater Sustainability Agencies (GSAs) and Sustainable Groundwater Management Act (SGMA) Information Item**

Staff Recommendation:

Receive a summary report of Water Resources Department activities related to the Sustainable Groundwater Management Act (SGMA) and Groundwater Sustainability Agencies (GSAs) for the groundwater basins within District boundaries.

Discussion:

Fox Canyon Groundwater Management Agency (FCGMA)

Staff continue to monitor and, where appropriate, participate in the FCGMA's groundwater sustainability planning and implementation efforts in the Oxnard, Pleasant Valley, and Las Posas Valley (Western Management area) basins. United staff continue to meet periodically with FCGMA staff to develop analyses of benefits and impacts of water-supply projects and different variations of those projects in support of developing a sustainable, resilient water-supply portfolio for the service areas of both agencies. United staff also attended and, where appropriate, contributed to FCGMA Board and Committee meetings, as follows:

Board of Directors meetings – The FCGMA Board held a regular meeting online on September 22. Notable topics included:

- Board received a presentation from FCGMA staff on a proposed ordinance that would extend an OPV basins provision for waiver of assessment of surcharges for groundwater production in excess of that of the 2005-2014 allocation period if production was not greater than in 2018. After a public hearing was conducted, the Board voted to not adopt the proposed extension.
 - Board approved the Professional Services Contract with Larry Walker Associates to draft a fact sheet and present findings related to potential regulatory requirements associated
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Agenda Item: 7. Update on Groundwater Sustainability Agencies (GSAs) and Sustainable Groundwater Management Act (SGMA)
Information Item

Page 2

with securing rights for the water discharged from the City of Simi Valley's Water Quality Control Plant (SVWQCP) and dewatering wells.

OPV Variance Review Committee meeting – The FCGMA Operations Committee held online meetings on September 13 and September 27. Several variance requests were reviewed, and Committee recommendations will be advanced to the full FCGMA Board.

Fiscal Committee meeting – The FCGMA Fiscal Committee has not met since May 18.

Operations Committee meeting – The FCGMA Operations Committee has not met since May 19.

The Legal *Ad Hoc* Committee of the OPV Core Stakeholder Group has not met since June 11. Discussions by this committee are subject to a non-disclosure agreement.

Fillmore and Piru Basins Groundwater Sustainability Agency (FPBGSA)

Staff continue to participate in FPBGSA activities supporting SGMA compliance and GSP preparation for the Fillmore and Piru basins, as follows:

Board of Directors meetings – The FPBGSA held a regular Board meeting on September 23. Notable topics included:

- The Board received brief updates from staff on administrative items and GSP development activities since the previous Board meeting.

The next regular FPBGSA Board meeting is scheduled for October 21 at 5:00 pm.

GSP preparation – The draft GSP for the Fillmore basin, as prepared by consultant DBS&A was posted on the agency website on August 9. The public comment period for the Fillmore basin GSP closes on October 9. The draft GSP for the Piru basin was posted on August 23 and comments are due October 23. Public workshops were conducted the morning of September 17 and the evening of September 23 in order to present a summary of the plans and receive input from the public. A web-based data management and mapping system that includes well construction information and available water level and water quality records for wells within the Piru and Fillmore basins remains available on the agency website, as are numerous technical references relating to the basins and development of the GSPs.

New Monitoring Wells – Staff is helping coordinate land access agreements with area landowners in opportune locations for new monitoring wells funded by a DWR Technical Support Services grant. Staff is also preparing documents for a request for bids from C-57 well drilling contractors.

Mound Basin Groundwater Sustainability Agency (MBGSA)

Staff continue to participate in MBGSA activities supporting SGMA compliance and GSP development for the Mound basin, as follows:

Agenda Item: 7. Update on Groundwater Sustainability Agencies (GSAs) and Sustainable Groundwater Management Act (SGMA)
Information Item

Page 3

Board of Directors meetings

The MBGSA Board held a special meeting on September 9. The main topic of discussion was the consideration of a master services agreement and work order with Rincon Consultants, Inc., for GSP development support. The consultancy would assist with updating the GSP to address public comments received concerning riparian and aquatic habitats within Mound basin. After discussion, the Board authorized the execution of the agreement.

The MBGSA Board held a regular meeting on September 16. Notable topics included:

- Executive Director Bryan Bondy provided an update concerning the monitoring wells through DWR's Technical Support Services (TSS) grants program for GSP development and implementation. The City of Ventura site use agreement was executed by all parties. The next steps will be to have site meeting with DWR and finalize the TSS agreement. After these steps are completed, construction can be scheduled.
- Executive Director Bryan Bondy provided an update on GSP development, and a summary of comments received during the public comment period.

The next regular MBGSA Board meeting is scheduled for October 21, at 1:00 pm.

GSP preparation – The draft GSP was posted on the agency website on June 23. The public comment period for the Mound basin GSP closed on August 23. Several comments focused on groundwater dependent ecosystems within the Mound Basin and whether the shallow alluvial deposits in Mound Basin should be considered a principal aquifer. United staff are supporting development of responses to public comments on the GSP as requested by the MBGSA.

Santa Paula Basin Technical Advisory Committee (TAC)

Staff continue to participate in the Santa Paula basin TAC in support of the Santa Paula Basin Judgment and in conformance with SGMA reporting requirements for adjudicated basins, as follows:

The TAC held a regular meeting on September 22. The primary topics presented and discussed at this meeting include:

- New/destroyed wells in Santa Paula basin.
- GSP update of neighboring basins.
- Summary of the draft 2020 Santa Paula Basin Annual Report.
- Status of discussion items from the Technical Work Group of the TAC meeting held in August.
- Summary of United's Regional Model, which now includes Santa Paula, Fillmore, and Piru basins.
- Status of, and comments on, the Triggers Analysis.