



YSGA BOARD OF DIRECTORS MEETING

September 20, 2021

Agenda

- Consideration: Consent Items
- Report of the Chair and Executive Officer
- Water Conditions Update
 - Dana Carey, Yolo County OES
 - Tim Busch, Woodland Davis Clean Water Agency
 - Leo Refsland, Madison/Knights Landing/Cacheville CSDs
 - Charlie Schaupp, Esparto CSD
- Consideration: RWUA's Request to Join YSGA
- Consideration: North Yolo Management Area Recharge Project
- Consideration: Formation of YSGA Drought Contingency Planning Committee
- Update on Groundwater Sustainability Plan Development
- Members' Reports and Future Agenda Items

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Consideration: Consent Items

- Approve June 21, 2021 Board of Directors' Meeting Minutes
- Receive Fiscal Year 2020-2021 Financial Statements: July 1, 2020 - June 30, 2021
- Receive Fiscal Year 2021-2022 Financial Statements: July 1, 2021 - September 3, 2021
- Approve Recommended Auditor for FY 2020/21 Audit
- Adopt 2022 Board of Directors Meeting Dates: 1/10, 3/21, 6/20, 9/19, 11/21/22
- Receive minutes of Executive Committee: 6/11, 7/26, and 8/16/21
- Receive minutes of Working Group: 7/29/21

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Draft Yolo Subbasin GSP Posted to Website



Draft Yolo Subbasin GSP

- <https://www.yologroundwater.org/yolo-groundwater-sustainability-plan>

Survey for Comment Submission (comments received until October 27, 2021)

- <https://www.surveymonkey.com/r/KB7DXYV>

Review of Public Workshop Content

Public Workshop Review

- August 25 public meeting - 71 Participants
- September 1 public meeting - 45 Participants

September 1, 2021 Yolo Subbasin Groundwater Agency Public Workshop

Watch later Share

YOLO SUBBASIN GROUNDWATER AGENCY
PUBLIC WORKSHOP - SEPTEMBER 1, 2021

www.yologroundwater.org
530-662-3211
info@yolosga.org

MORE VIDEOS

1:35 / 1:31:51

YouTube

Review of Public Workshop Content

Presented on

- GSP Development Process
- Groundwater Conditions in the Yolo Subbasin
- Sustainable Management Criteria
- Projects and Management Actions

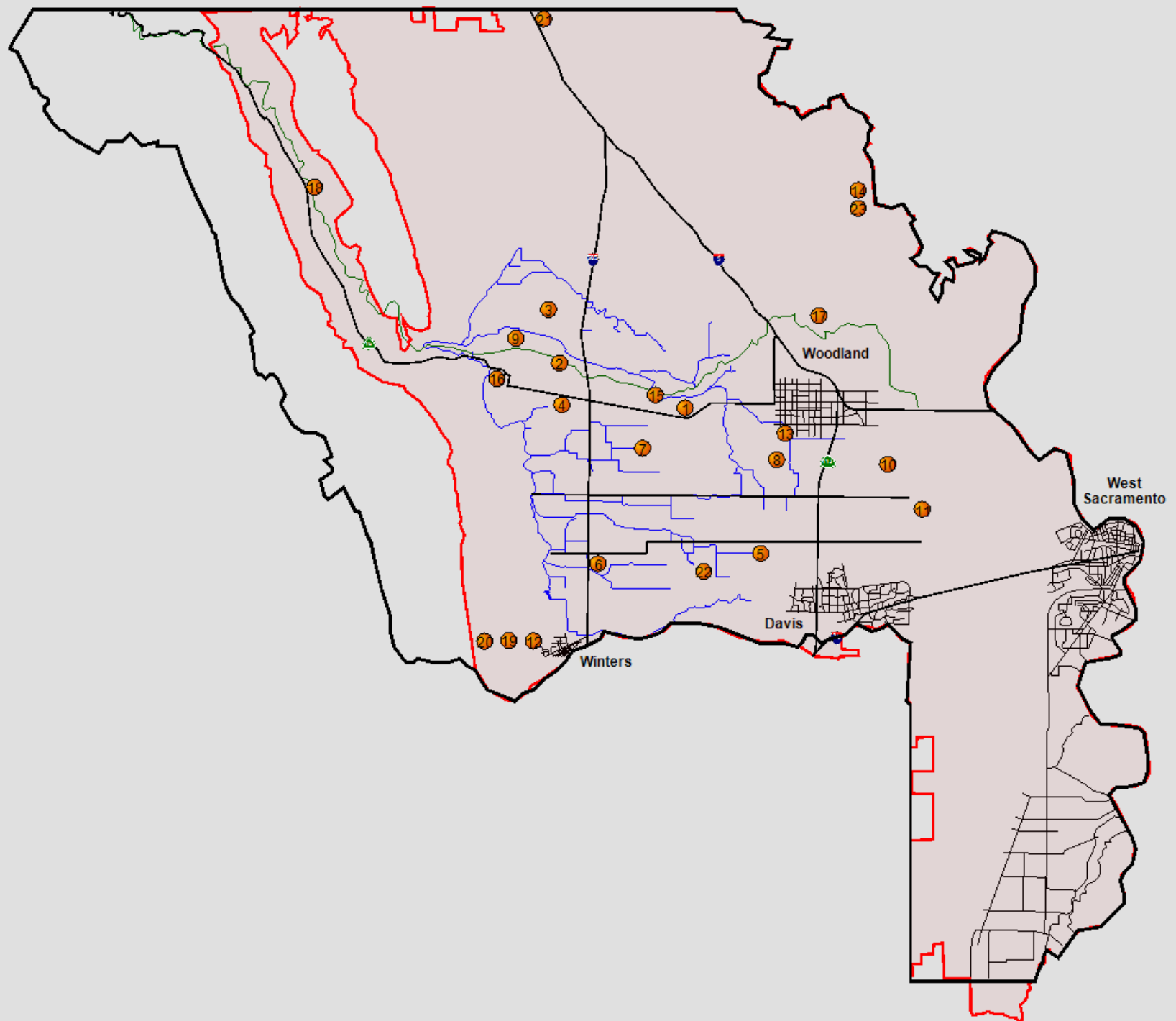
Public Workshop Feedback

- Questions about data gaps – Dunnigan Hills, South Yolo MAs
- Questions related to a changing future
 - Changing land use
 - Climate change
 - Changes in groundwater usage

Public Workshop Feedback

- Concerns about the financial impacts to domestic well owners
- Concerns of additional management actions
 - Meters on well
 - Limits on new wells
 - Well permitting process
 - Groundwater transfers

Well Monitoring
Real-Time



SCADA Links	
Comparison Trends	
Comparison Table	
Legend	
Monitoring Site	●
YSGA	—
County	—

Well Monitoring

Depth to Water Historical Comparison
(Daily Average DTW in feet)

SCADA Links

Well Map

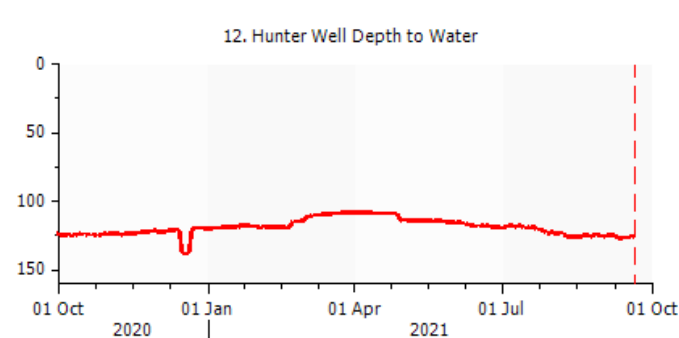
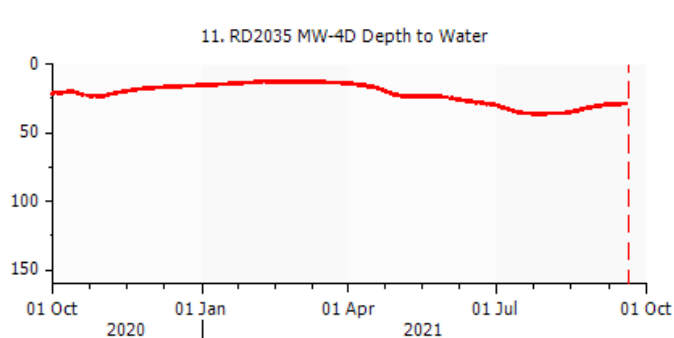
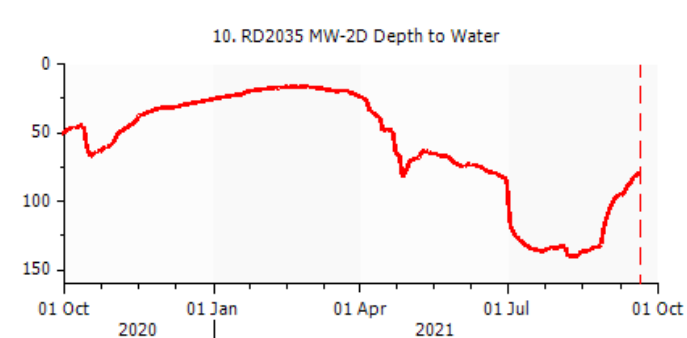
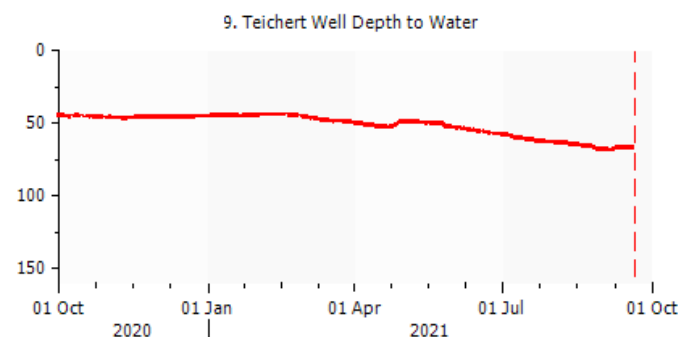
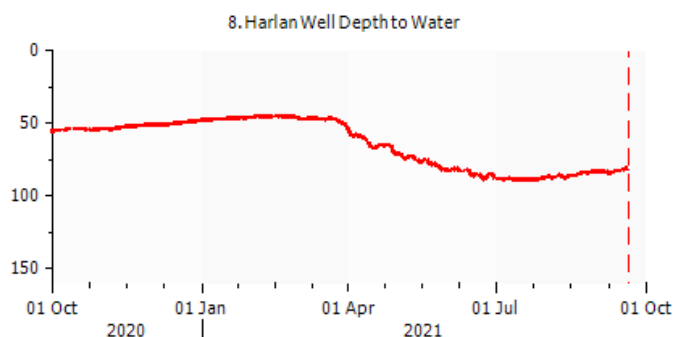
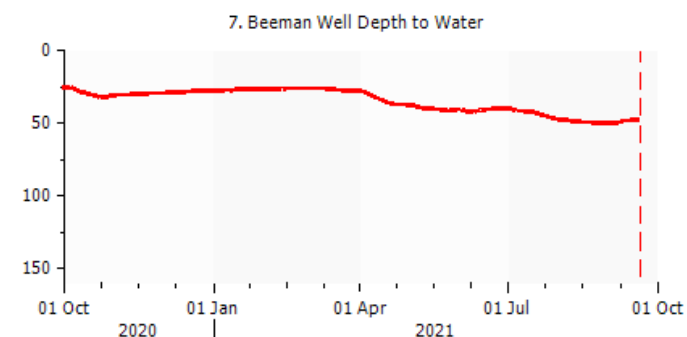
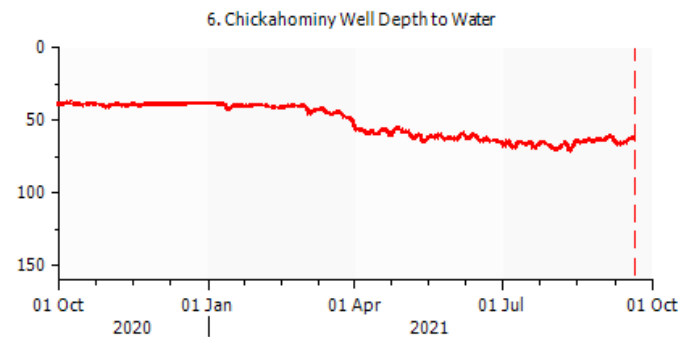
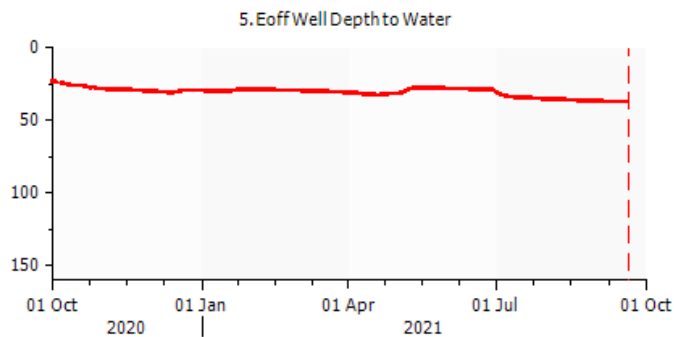
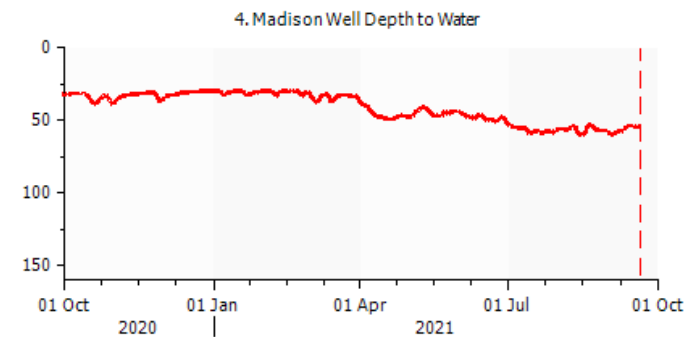
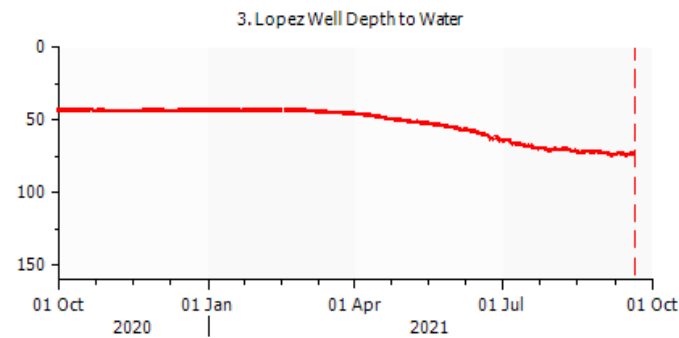
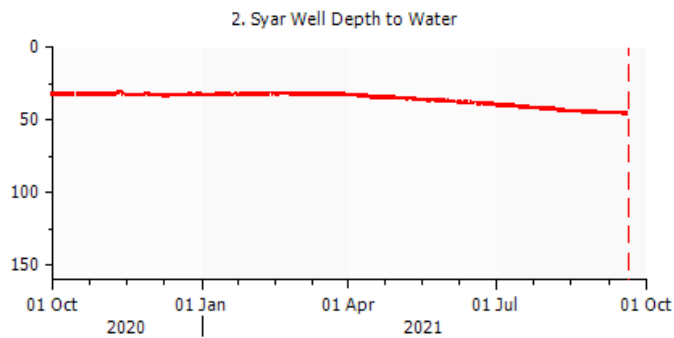
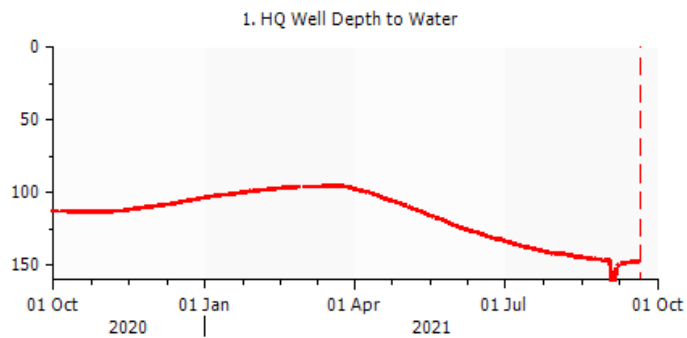
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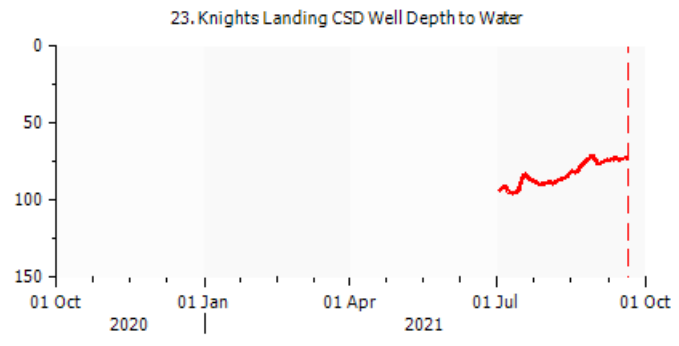
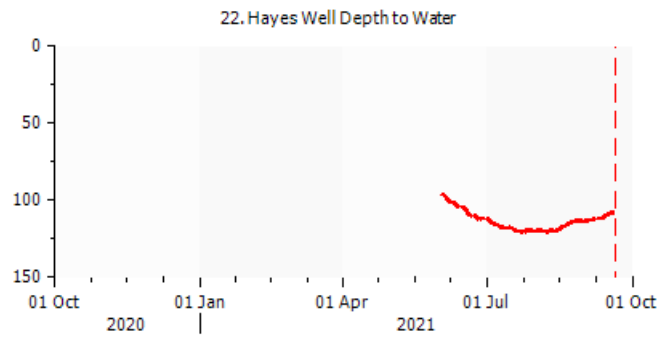
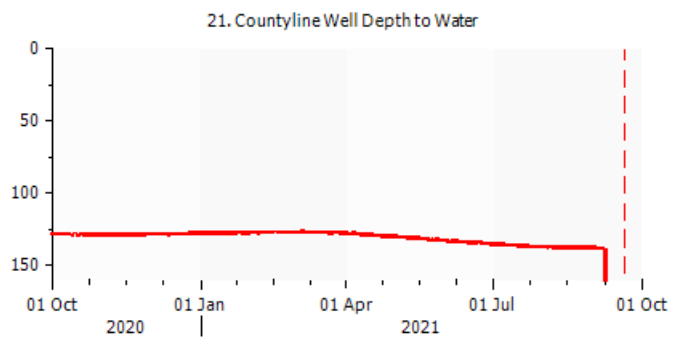
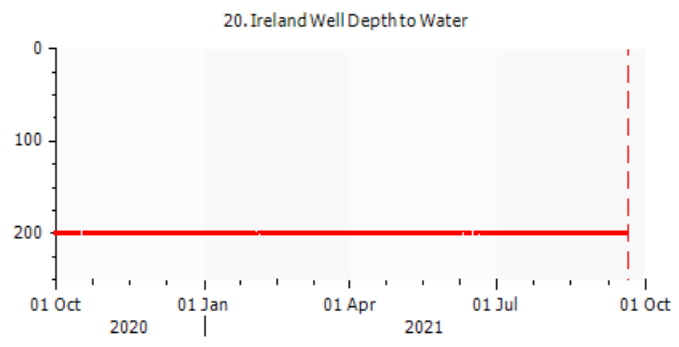
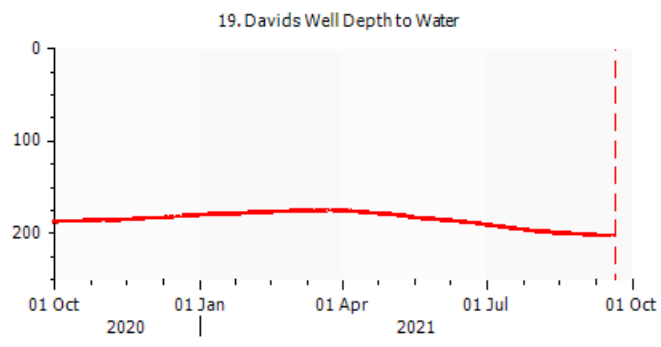
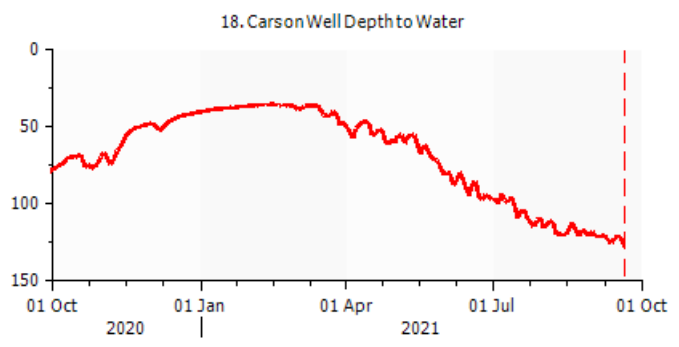
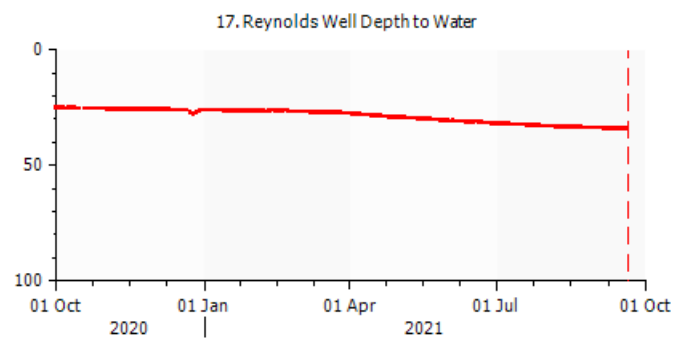
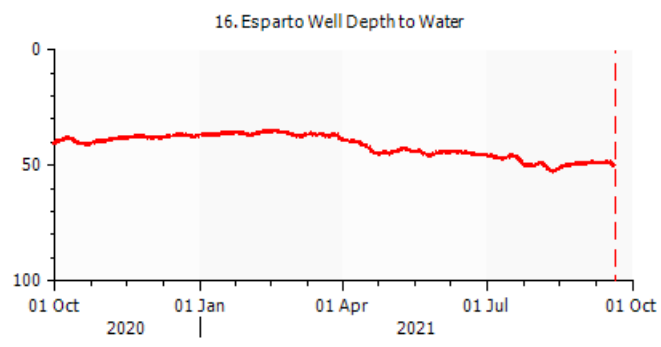
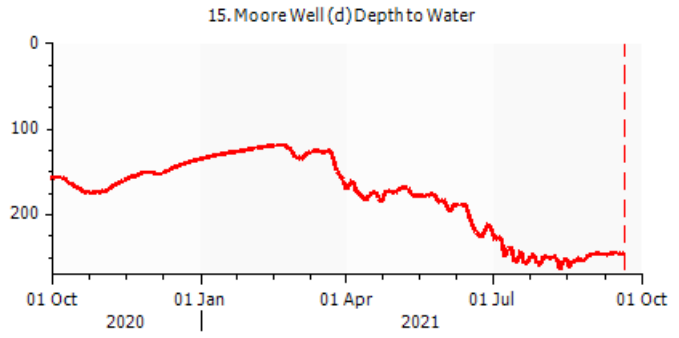
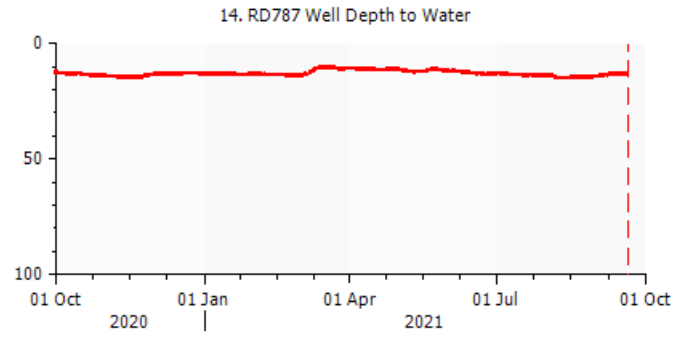
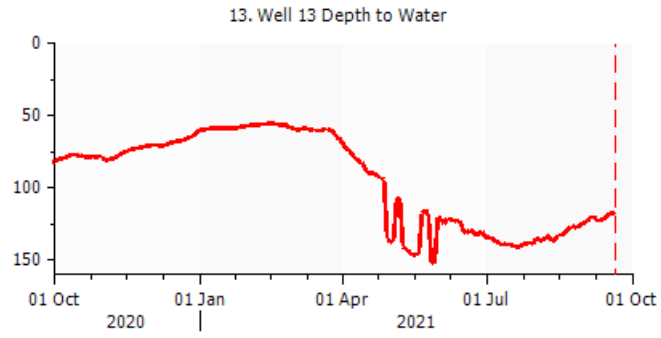
09/20/21

Comparison Trends

Comparison Table 2

Well	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	<u>Δ 2020 - 2021</u>	<u>Δ 2015 - 2021</u>
1.	95.6	94.0	98.7	107.9	132.8	134.2	122.9	110.7	115.4	106.2	114.0	148.0	-34.0	-13.8
2.	35.8	45.1	35.0	53.9	53.5	51.0	50.3	30.8	33.7	30.6	31.9	45.0	-13.1	6.0
3.	48.0	39.6	45.8	52.3	82.4	77.4	61.1	40.2	44.6	39.0	43.6	73.2	-29.6	4.2
4.		32.9	34.1	41.9	61.1	58.7	44.9	30.6	31.8	30.2	32.7	55.0	-22.3	3.7
5.		17.4	19.8	23.8	35.2	36.5	35.7	23.7	25.3	18.6	21.6	37.1	-15.5	-6
6.			35.8	40.0	70.0	64.0	46.1	33.9	40.4	33.4	38.6	62.0	-23.4	1.9
7.				17.2	43.7	50.3	27.1	20.8	21.9	19.3	24.7	47.6	-22.9	2.7
8.				59.0	81.4	79.9	78.4	56.3	61.9	50.5	57.0	81.0	-23.9	-1.1
9.					78.4	73.4	59.4	41.8	44.8	41.7	43.1	66.9	-23.8	6.5
10.					79.2	76.6	72.8	41.8	65.2	47.8	66.6	80.1	-13.5	-3.4
11.					29.0	25.3	25.3	16.0	21.9	16.4	23.1	28.6	-5.5	-3.2
12.									123.2	113.3	123.9	125.9	-2.0	
13.									90.4	79.9	88.3	117.7	-29.4	
14.									12.1	11.2	11.4	13.1	-1.7	
15s.									41.8	36.7	46.2	50.5	-4.2	
15d.									160.8	138.1	158.2	246.0	-87.9	
16.										37.9	40.7	50.3	-9.7	
17.										21.0	24.7	34.0	-9.4	
18.										73.7	80.5	128.0	-47.4	
19.										178.7	186.7	202.1	-15.4	
20.										198.9	199.0	198.9	.0	
21.										120.6	128.3	138.0	-9.7	
22.												108.2		
23.												71.9		

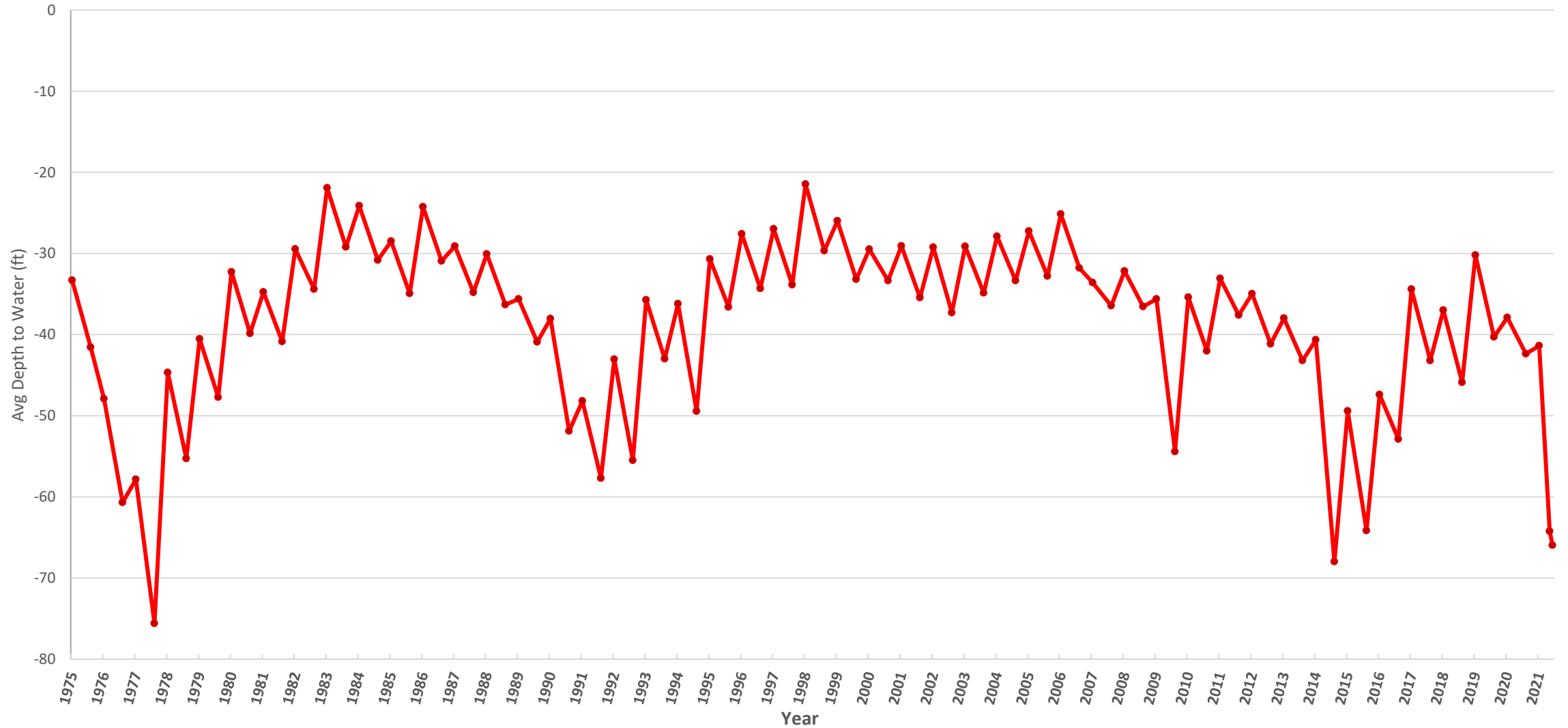




August 2021 Measurements

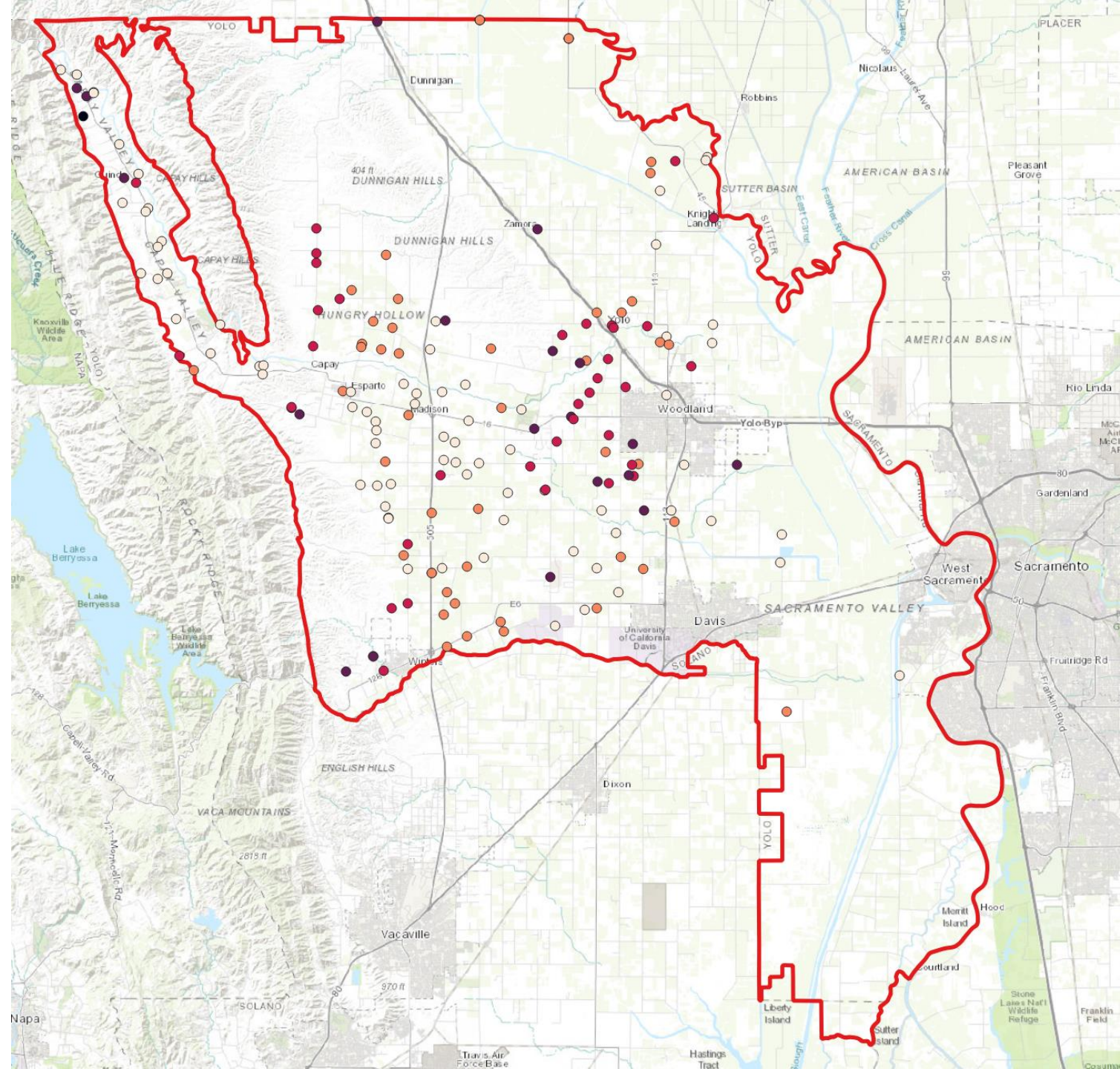
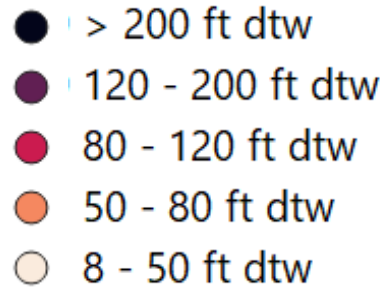
YFCWCWD Average Groundwater

Depth by Season (August 2021 is 117 wells)



August 2021 Depth to water

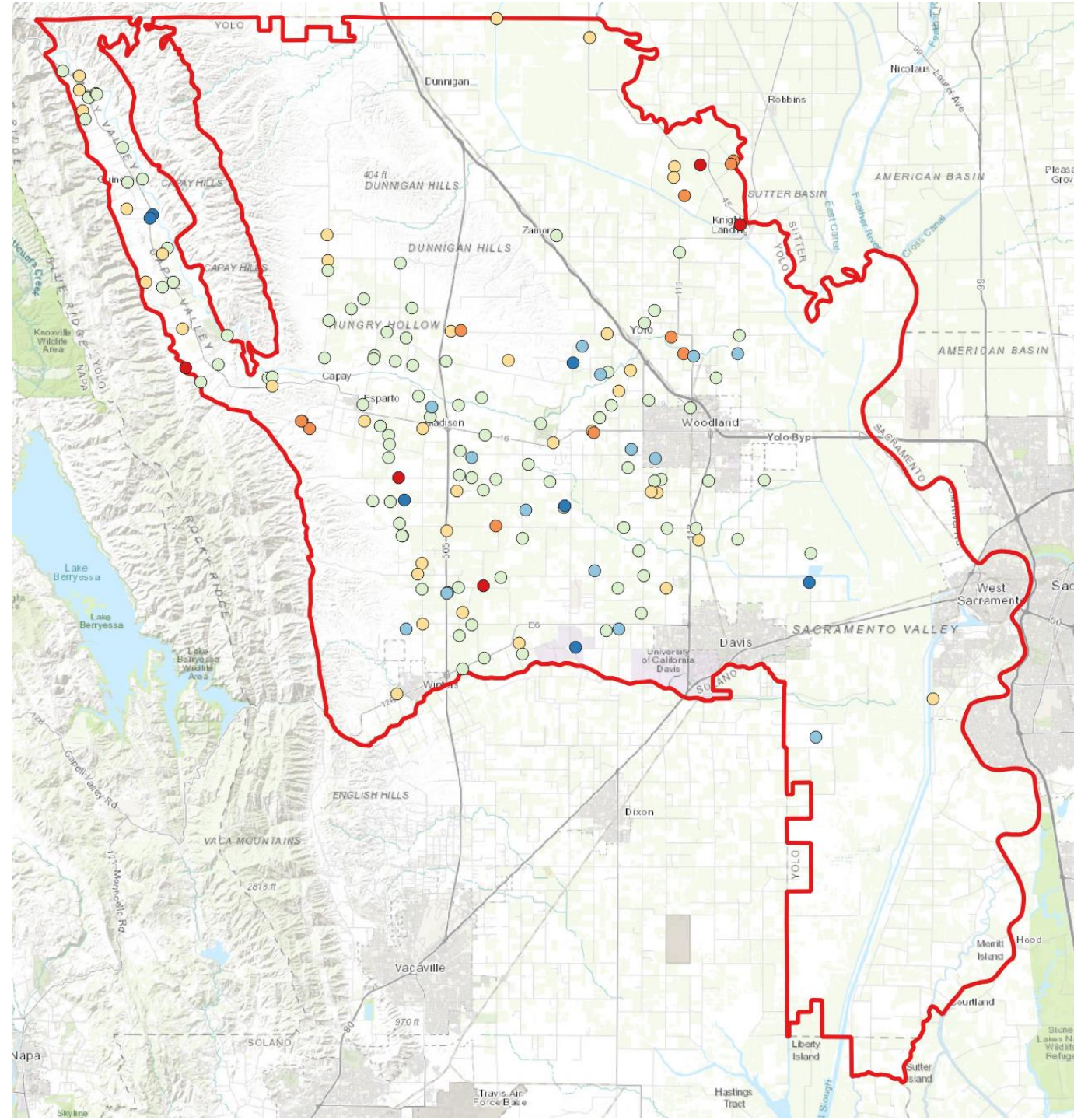
- Incorporates YCFC network & DWR measurements from August



Comparison with 2015 Drought

- August DTW compared to max DTW 2014-2015
- 33% of wells are at or below 2015 low

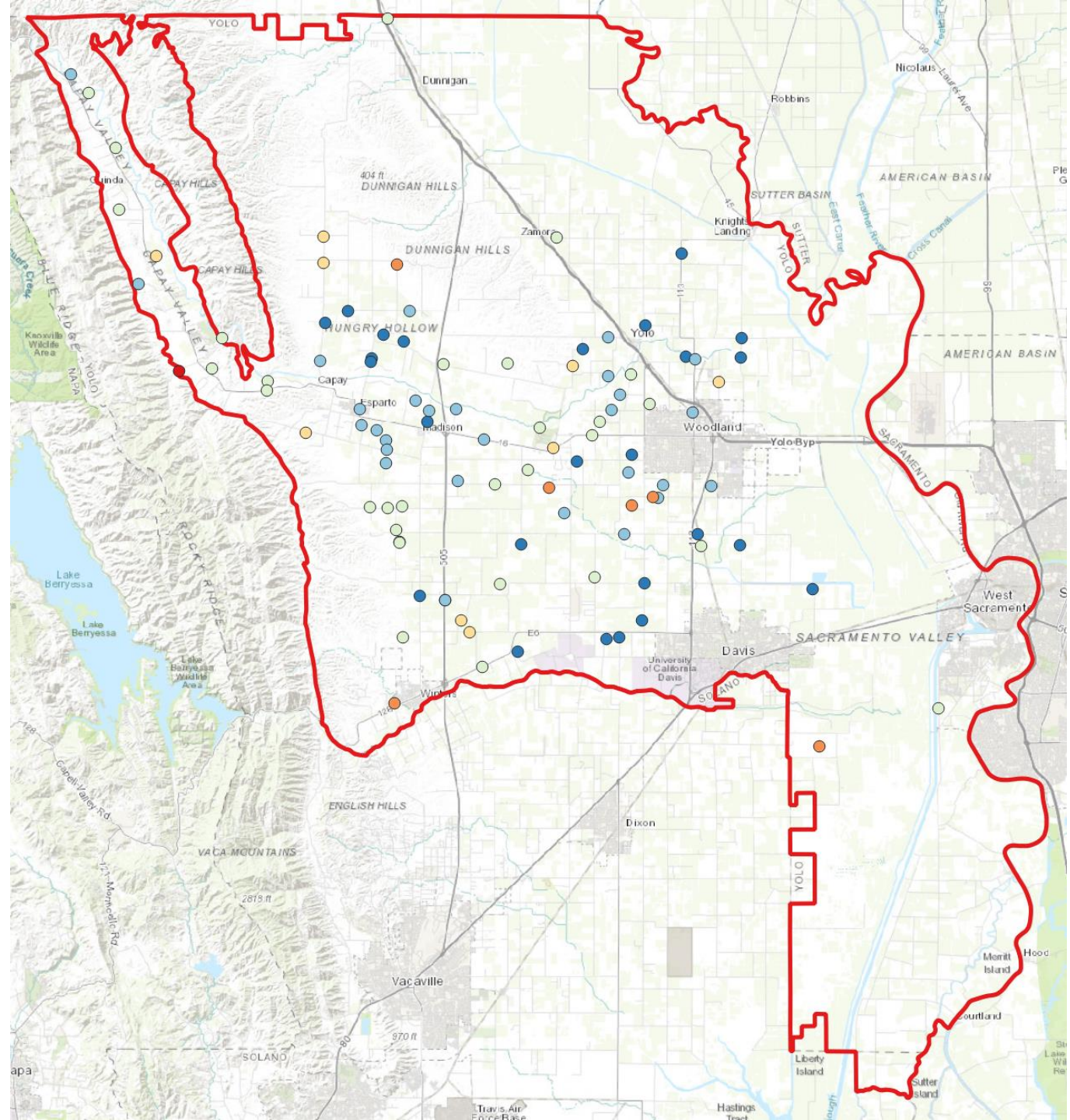
- > 40 ft below 2015 low
- 20 - 40 ft below 2015 low
- Less than 20 ft below 2015 low
- Less than 20 ft above 2015 low
- 20 - 40 ft above 2015 low
- > 40 ft above 2015 low



Comparison with 1977 Drought

- August 2021 DTW compared to Max DTW 1976-1978
- 17% of wells are at or below 1977 low

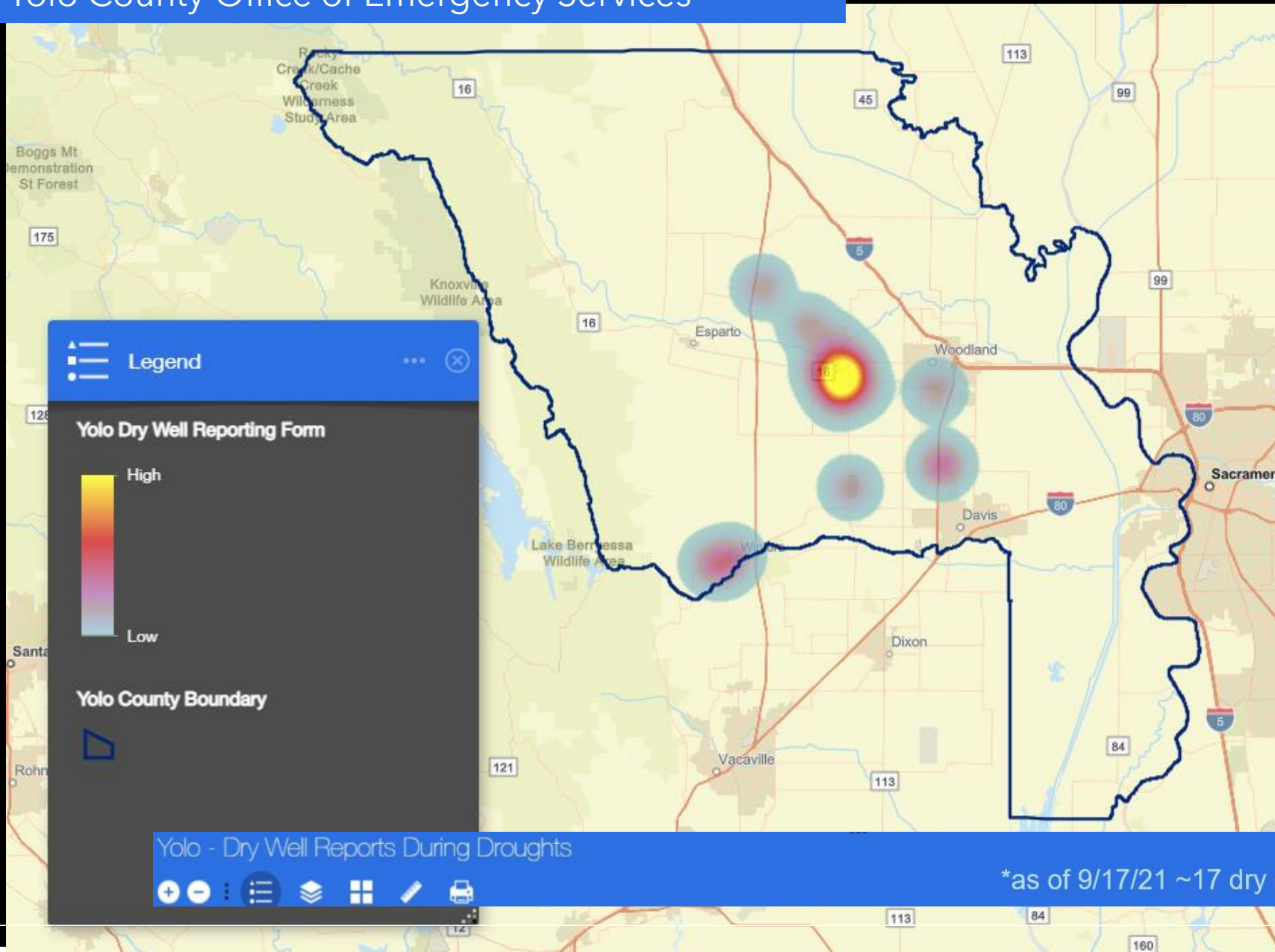
- > 30 ft below 1977 low
- 15- 30 ft below 1977 low
- < 15 ft below 1977 low
- < 15 ft above 1977 low
- 15-30 ft above 1977 low
- > 30 ft above 1977 low



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Yolo County Office of Emergency Services



Woodland Davis Clean Water Agency

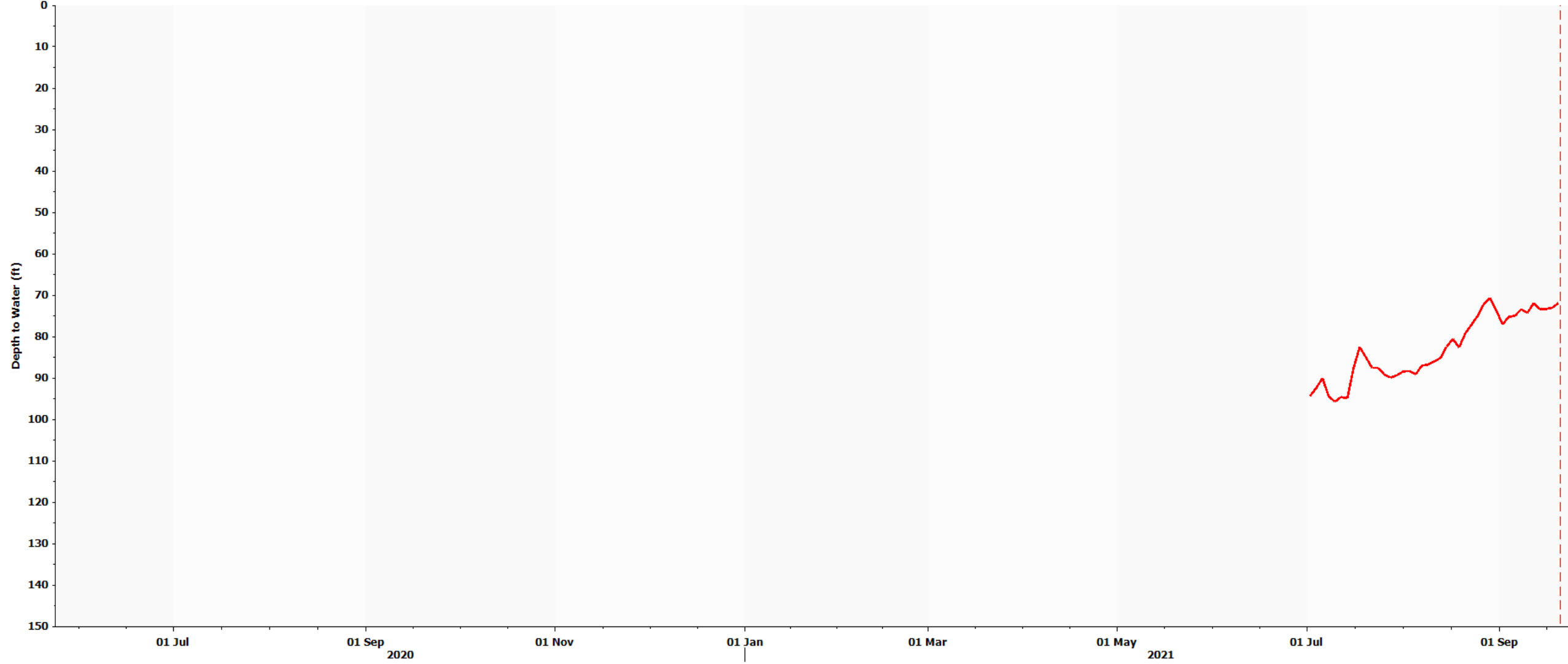
4. Madison Well Depth to Water



Trace
◆ Madison Well Depth to Water (Weekly Minimum)

Depth to Water as of September 19, 2021 = 54.1 feet

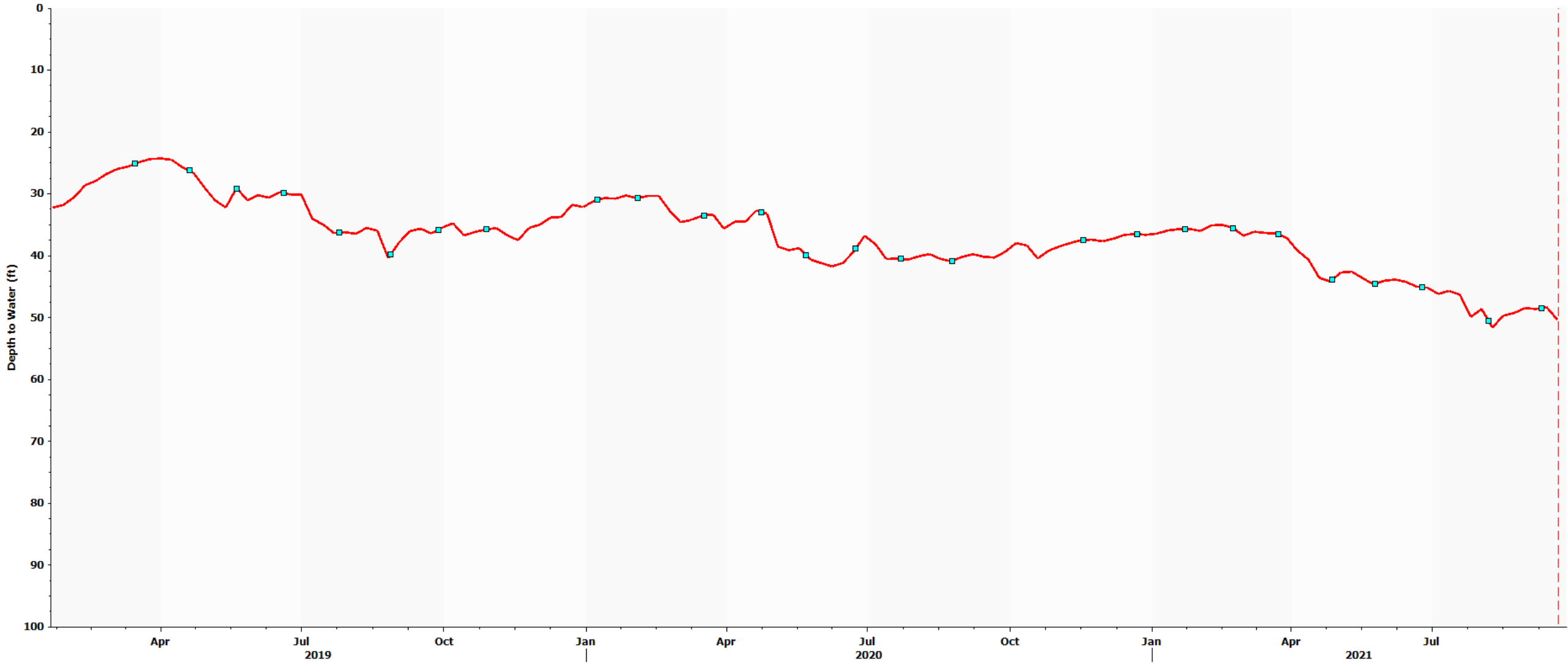
Knights Landing CSD Well Depth to Water



Trace | Ruler | Latest Value | 9/18/2021 12:21:46.678 PM 71.9

Depth to Water as of September 18, 2021 = 71.9 feet

16. Esparto Well Depth to Water

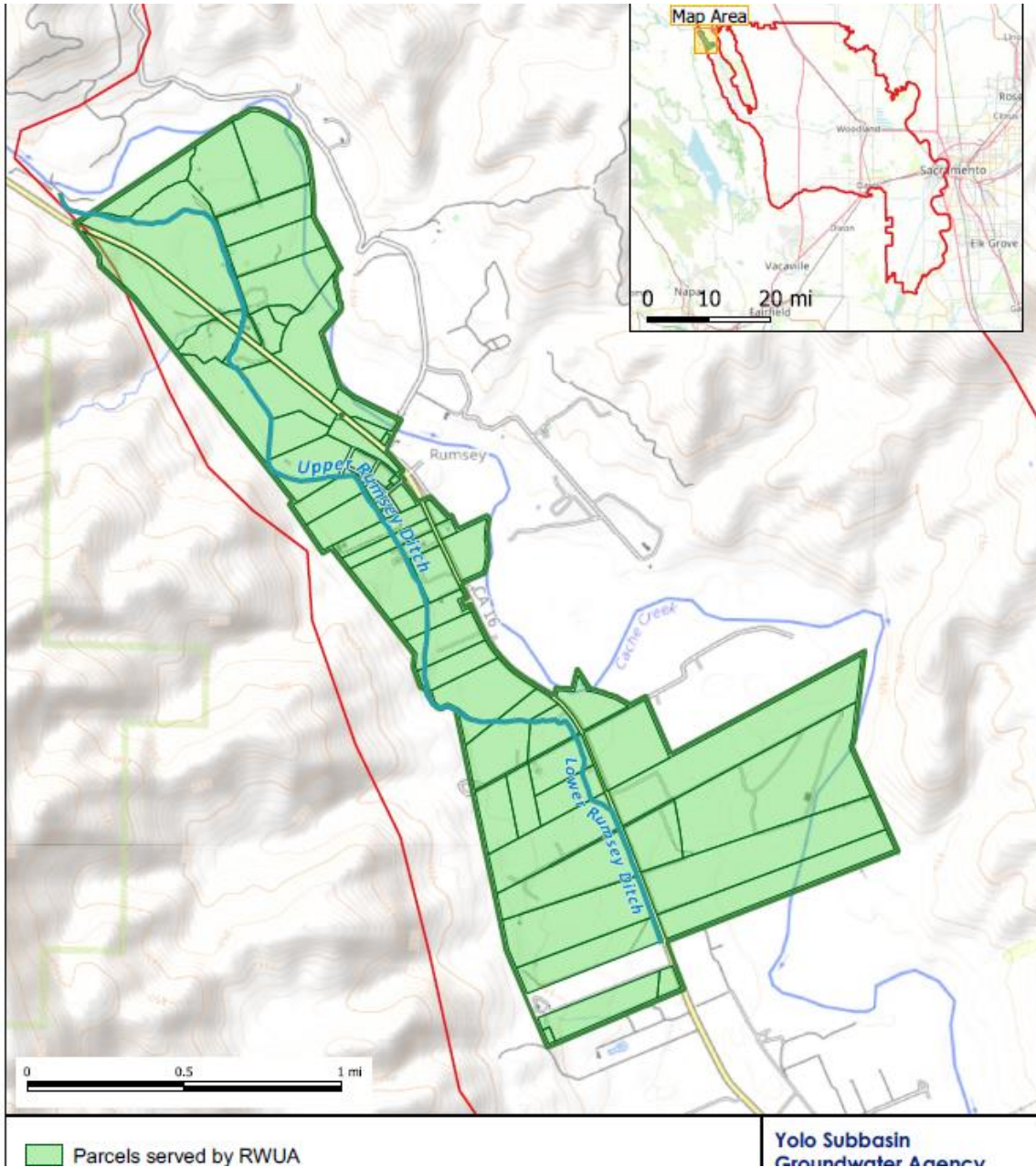


Trace Esparto Well Depth to Water (Weekly Minimum) Ruler

Depth to Water as of September 19, 2021 = 50.2 feet

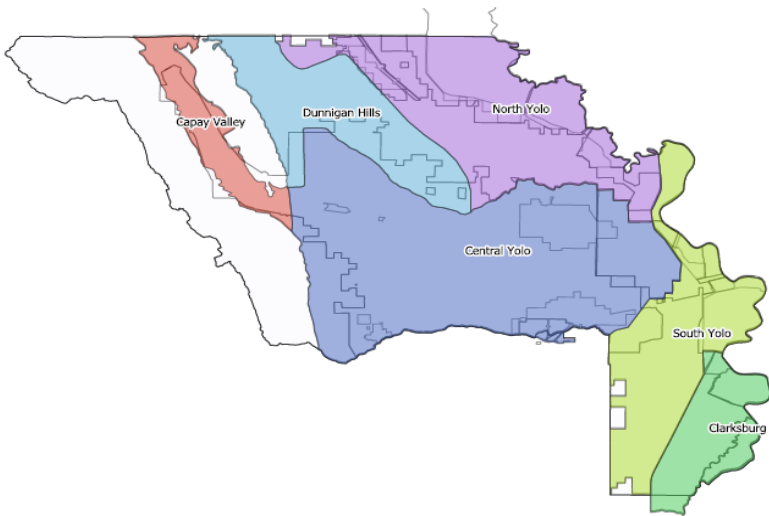
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Consideration: RWUA's Request to Join YSGA

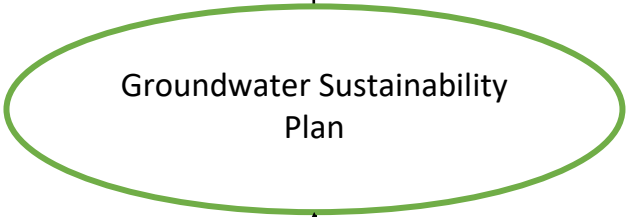
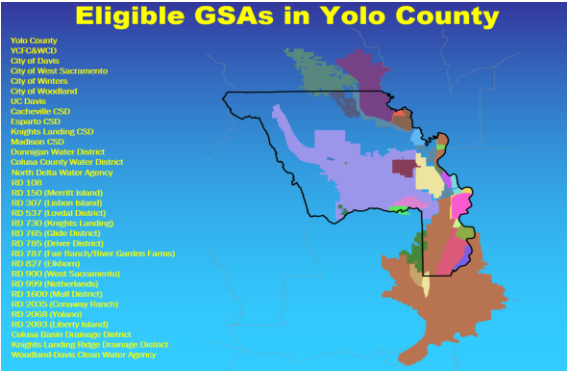
- Non-profit organization with 40 members
- Provides irrigation water to approximately 340 acres in northern Capay Valley
- RWUA requested YSGA membership and representation by farmer Ken Muller
- EC recommends 1-year backpay + current FY dues ($\$340 * \$0.50/\text{acre} * 2 \text{ years} = \340)
- **EC recommends allowing RWUA to join the YSGA and authorizing Chair Cornwell to sign the Affiliated Party MOU on behalf of the YSGA.**



Yolo Subbasin Groundwater Agency

26 Members

- Limited Authority
- For regional planning & reporting
- JPA defines authorities & responsibilities of GSA, Management Areas, and Eligible Entities



Management Areas are used to define sustainability goals and objectives for a hydrogeologic setting.

Capay Valley

Rumsey Water Users Assoc.
 YCFC&WCD
 Yocha Dehe Wintun Nation
 Yolo County (white area)
 Yolo County Farm Bureau
 Environmental Representative

North Yolo

Dunnigan WD
 Colusa Drain Mutual Water Co.
 California American Water Co.
 RDs 108, 730, and 787
 YCFC&WCD
 Yolo County (white area)
 Yolo County Farm Bureau
 Environmental Representative

Central Yolo

Cities of Davis, Woodland & Winters
 UC Davis
 YCFC&WCD
 RD 2035
 Esparto and Madison CSDs
 Yolo County (white area)
 Yolo County Farm Bureau
 Environmental Representative

Dunnigan Hills

YCFC&WCD
 Yolo County Farm Bureau
 Yolo County (white area)
 Environmental Representative

South Yolo

City of West Sacramento
 Colusa Drain Mutual Water Co.
 RDs 537 and 1600
 YCFC&WCD
 Yolo County Farm Bureau
 Yolo County (white area)
 Environmental Representative

Clarksburg

RDs 150, 307, 765, and 999
 Yolo County Farm Bureau
 Environmental Representative

Advisory Committee
Public

Advisory Committee
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Buckeye Creek Recharge Project



Image 1 – Project Location

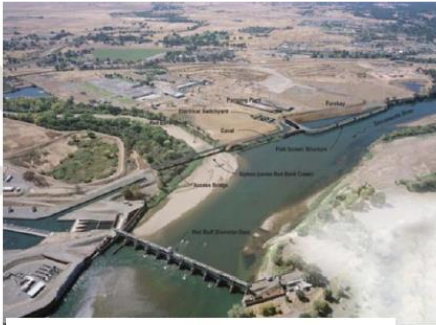


Image 2 – TCCA Pumping Plant



Image 3 – Project Location Detail



Image 4 – Dewatering Gate

- 180-day temporary permit with SWB
- Diverts water from Tehama Colusa Canal to Buckeye Creek via dewatering gates
- Pilot project that can be applied to other small Creeks
- Estimated cost: \$60-123k
- Estimated AF recharged: 1-2 TAF
- Cost per AF: ~\$60/AF

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Consideration of Forming a YSGA Drought Contingency Planning Committee

Context: In the event we don't receive any rain this year ...

what actions would the YSGA like to take?

Committee Intent

Report to the County on Drought Contingency Plan Related to YSGA's Groundwater Authority

Committee Deliverables

- Interim/Short-Term MAs to Better Manage a Longer-Term Drought
- Prioritize Projects for Implementation – Projects Ready to Proceed

Consideration of Forming a YSGA Drought Contingency Planning Committee

Potential Near-Term Management Actions for Mitigating Drought

- Expansion or additional evaluation of implementing MA2 and MA8
- Consideration of additional data that can be collected as part of the well permitting process
- Evaluation of new well limitations in the short-term – potentially only on property that has not been irrigated historically
- Consideration of allowing YSGA staff time to assist with grant writing for drought funding opportunities
- Others?

Emergency Drought Funding

California Come Back Plan Water Infrastructure Funding Package	
Program	Funding Amount
Drinking Water & Wastewater Infrastructure	\$1,300,000,000
Overdue Water Bill Payments to Utilities	\$1,000,000,000
Multi-benefit Land Repurposing for Water Users	\$500,000,000
Sustainable Groundwater Management Act Implementation	\$300,000,000
Wildlife Corridor & Fish Passage Projects	\$230,000,000
Water Conveyance Improvements & Damage Repair	\$200,000,000
Habitat Restoration & Multi-Benefit Flood-Risk Reduction Projects	\$200,000,000
Groundwater Cleanup and Water Recycling Projects	\$150,000,000
Data Collection to Forecast, Monitor & Assess Hydrologic Conditions	\$91,000,000
State Water Efficiency & Enhancement Program Grants	\$60,000,000
Fisheries & Wildlife Conservation	\$33,000,000
Emergency & Permanent Solutions	\$27,000,000

FEDERAL FUNDING

- USDA Rural Development (\$41M)
- US EPA Drinking Water program
- Bureau of Reclamation – Water SMART
- FEMA – BRIC & HMP programs

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YSGA Working Group Discussion

PROPERLY DEFINE THE PROBLEM

- Understand more about where concerned workshop participants are located
- Understand more about the wells that are failing – construction info., location, total well depth, etc.
- Idea to overlay OES dry well map with changing water levels map (how localized are the problems?)

CONSIDER YSGA'S MISSION and AUTHORITY

- Create a communication plan to inform the public of the proper notification process (relationship between YSGA and Yolo County)
- Consider proper tools for solving the problem (blanket actions may not be necessary for localized issues)
- Does the YSGA want to be involved in short-term/emergency response (and funding mechanism)?

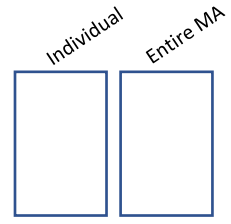
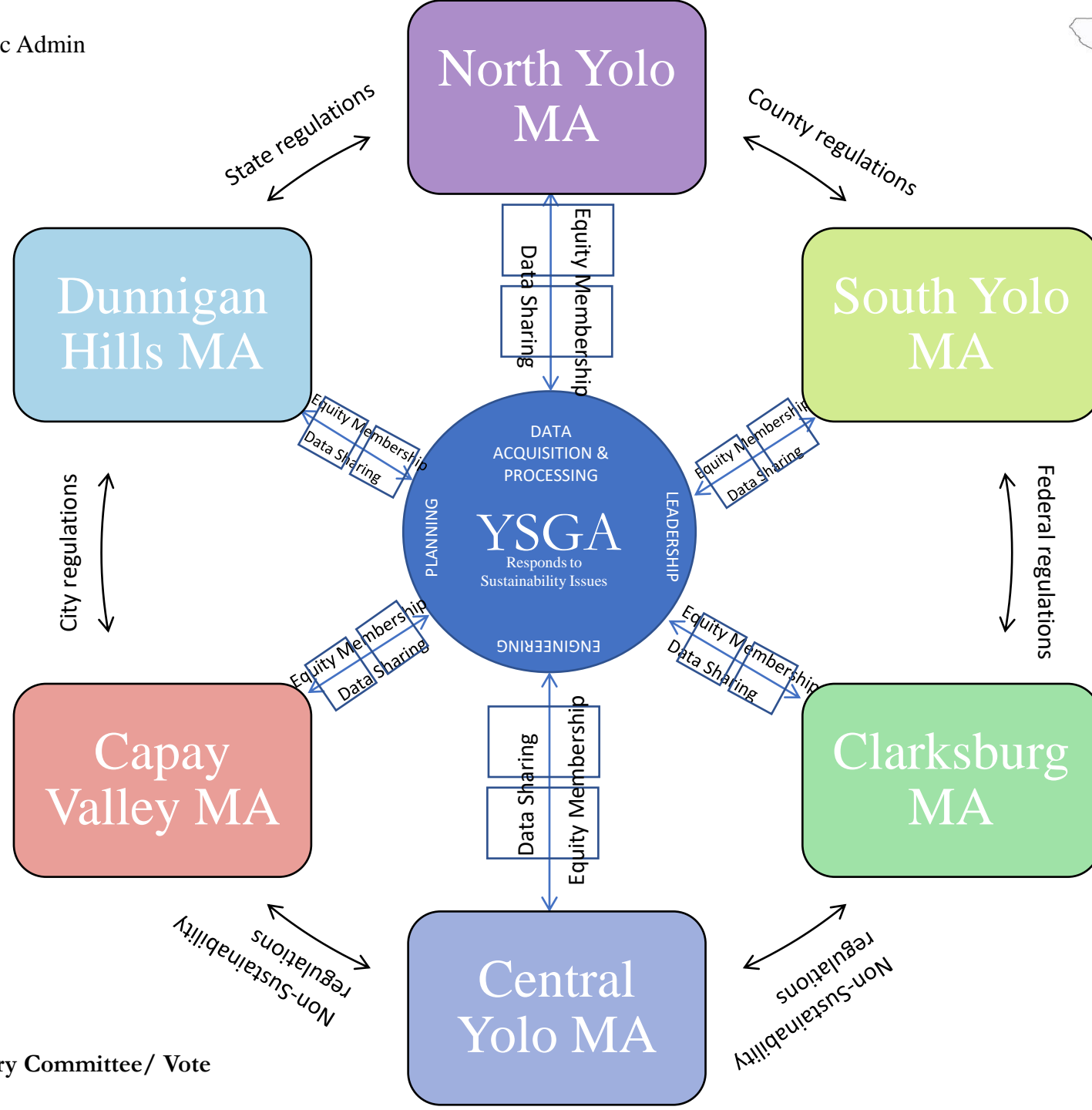
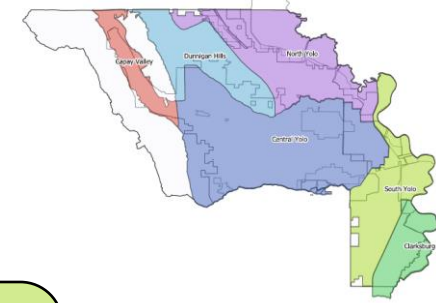
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YSGA Working Group Discussion (cont.)

PROJECT-RELATED IDEAS

- Districts need to encourage conjunctive use for all growers within service area
- Assess projects based on whether they are helping problem areas identified
- Desire to support the District's efforts in proceeding with China Slough recharge project

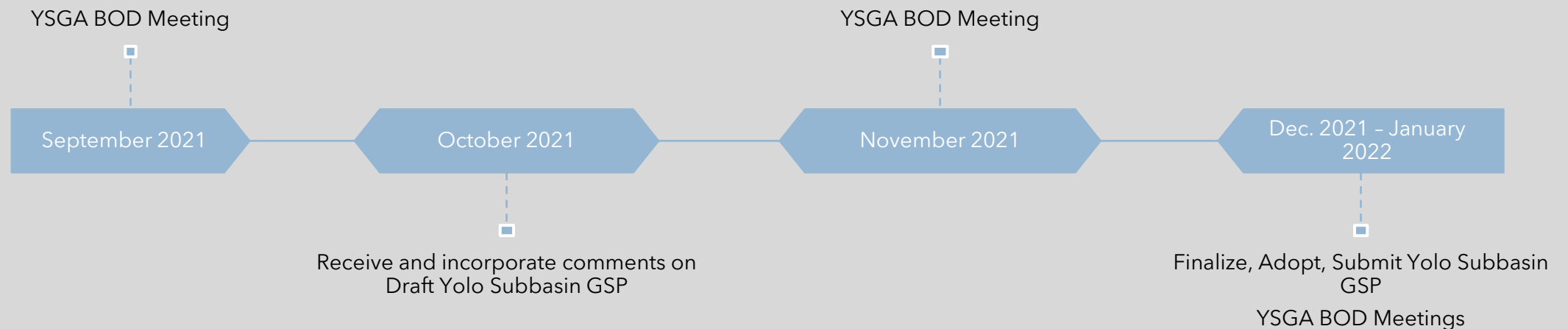
EC Recommends Forming an *Ad-Hoc*
Drought Contingency Planning Committee

Agenda

- Consideration: Consent Items
- Report of the Chair and Executive Officer
- Water Conditions Update
 - Dana Carey, Yolo County OES
 - Tim Busch, Woodland Davis Clean Water Agency
 - Leo Refsland, Madison/Knights Landing/Cacheville CSDs
 - Charlie Schaupp, Esparto CSD
- Consideration: RWUA's Request to Join YSGA
- Consideration: North Yolo Management Area Recharge Project
- Consideration: Formation of YSGA Drought Contingency Planning Committee
- **Update on Groundwater Sustainability Plan Development**
- Members' Reports and Future Agenda Items

Update on GSP Development

- Continued work on GSP sections by GSP Technical Team
- Posted draft Yolo Subbasin GSP to website (comments received until 10/27/21):
<https://www.yologroundwater.org/yolo-groundwater-sustainability-plan>
- Working Group Meeting - July and September
- Public Workshops - August 25 and September 1, 2021
- Yolo/Solano, and Yolo/North and Yolo/South American Interbasin Coordination Meetings



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