



CGA/GGA Joint Board Meeting Packet

August 14, 2026

Staff Report

To: CGA-GGA Joint Board

Agenda Item: 3. Colusa Subbasin Periodic Evaluation and Plan Amendment

- a. Receive updates on progress related to development of the Colusa Subbasin Periodic Evaluation and Plan Amendment
- b. Receive updates on proposed revisions related to groundwater elevation sustainable management criteria and monitoring.
- c. Receive updates on proposed Recommended Corrective Action (RCA) responses related to land subsidence.
- d. Receive updates on proposed RCA responses related to water quality and monitoring.

Date: August 14, 2026

Background

In April 2024, the Glenn Groundwater Authority (GGA) and Colusa Groundwater Authority (CGA) submitted a Revised Colusa Subbasin Groundwater Sustainability Plan (GSP) to address deficiencies identified by the Department of Water Resources. The 2024 GSP was approved by DWR in February 2025. The determination letter included several Recommended Corrective Actions (RCAs) that should be addressed during the GSP Periodic Evaluation.

GSP Periodic Evaluations are required to be completed at least every five years. The Colusa Subbasin GSP Periodic Evaluation is due by January 28, 2027.

GSPs are living documents that must be adapted as new information becomes available and conditions change. Depending on the adaptations, GSP Plan Amendments may be required to capture the changes. It is expected that the Colusa Subbasin GSP will be amended to capture relevant updates related to GSP implementation and to address the RCAs.

Staff, the consultant team, Counsel, and Board members will share updates and hold discussion relating to the Colusa Subbasin Periodic Evaluation and Plan Amendment.

Recommendation

1. Hold discussion and provide direction to staff, consulting team, legal counsel, and or committees as needed.

Attachments

- Draft Presentation

Colusa Subbasin Joint Board GSP Implementation Updates

August 14, 2026



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Outline

- Item 3 - Colusa Subbasin Periodic Evaluation and Plan Amendment
- Item 4 - Groundwater Demand Management Program Development
- Item 5 - Review Davids Engineering Budgets, Meeting Schedule, and Next Steps

Colusa Subbasin Joint Board GSP Updates

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Item 3 - Colusa Subbasin Periodic Evaluation and Plan Amendment

Colusa Subbasin Joint Board GSP Updates

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Colusa Subbasin Periodic Evaluation and Plan Amendment

- GSP Periodic Evaluation and Plan Amendment are in progress
 - **Plan Amendment:** Draft GSP updates in mid-Sept. 2026 (public review process)
 - **Periodic Evaluation:** Draft report in Oct. 2026 (GSA review)
- Plan Amendment is focused on responses to DWR's April 2024 approval letter "Recommended Corrective Actions" (RCAs)
- Proposed revisions and RCA responses to review today related to:
 - Groundwater elevation
 - Land subsidence
 - Water quality

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Item 3b - Proposed Revisions Related to Groundwater Elevation Sustainable Management Criteria (SMC)

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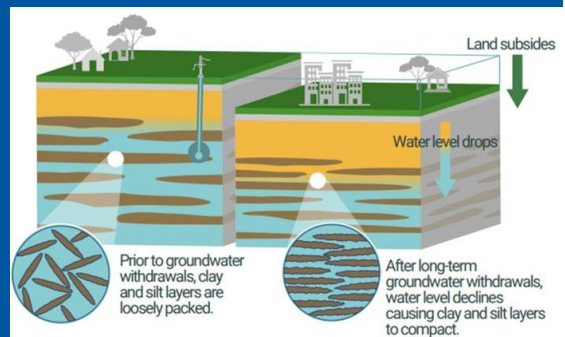


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Critical Head Analysis and SMC Comparison

- “Critical head” (CH) is the groundwater level below which subsidence begins
- DWR wants the GSAs to quantify CH to connect groundwater elevation SMC to subsidence risk
- Analyzed CH by two approaches (trend, empirical)
- Compared CH with existing SMC
 - Minimum thresholds (MTs)
 - Measurable objectives (MOs)
 - Interim milestones (IMs)
- Consider SMC revisions if below the critical head (within uncertainty) and risk of subsidence impacts (past subsidence, near crit. infrastructure)
- *Approach generally consistent with Yolo Subbasin*



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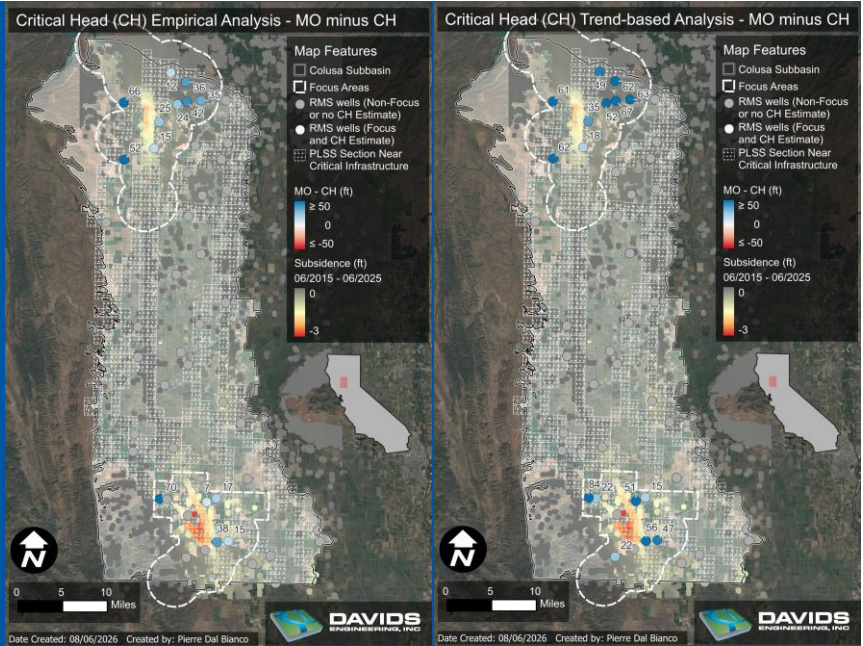
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Source: <https://water.ca.gov/Programs/Groundwater-Management/Subsidence>

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DRAFT Critical Head Results

- MOs above Critical Head (CH) in all Focus Areas*
- Different results from each DWR-recommended CH estimation approach
- **Recommendation:**
No MO changes



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* Focus areas include areas with historical subsidence and reported dry wells.

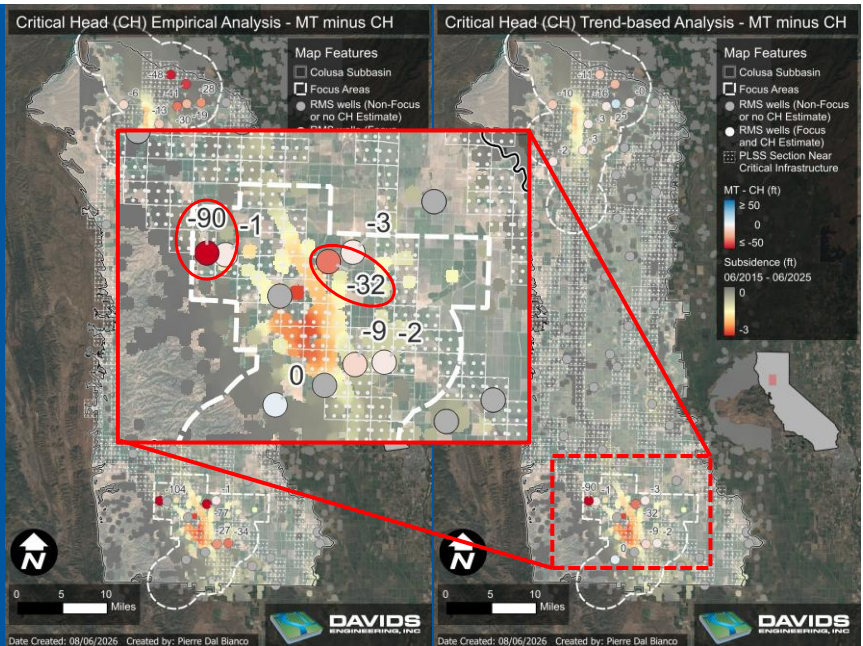
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DRAFT Critical Head Results

- MTs below CH at most wells in Focus Areas*
- Different results from each DWR-recommended CH estimation approach
- **Recommendation:**
Propose MT and 2027 IM revisions for Focus RMS wells if:
 - MT below the lowest estimated CH (by > 10 ft)
 - ≥1 ft subsidence since 2015
 - Near critical infrastr.



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* Focus areas include areas with historical subsidence and reported dry wells.

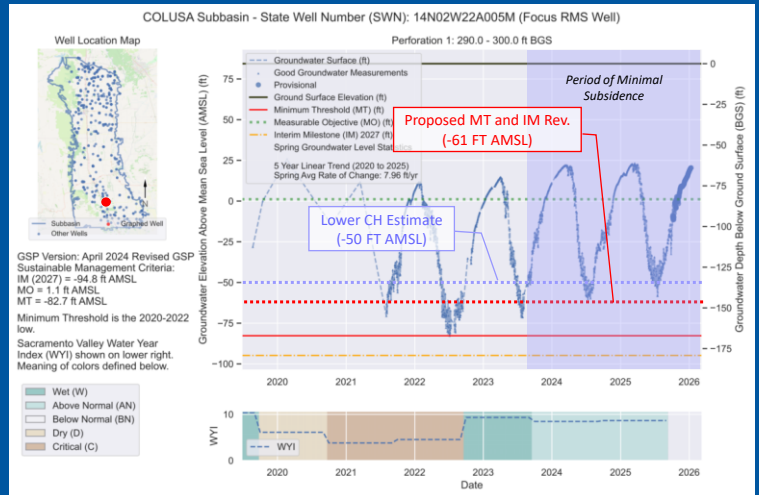
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Proposed Revisions to Groundwater Elevation MTs and 2027 IMs

- MT:
 - Lower CH estimate
 OR
 - Minimum groundwater elevation in “period of minimal subsidence” (if lower)
- 2027 IM: Equal to MT



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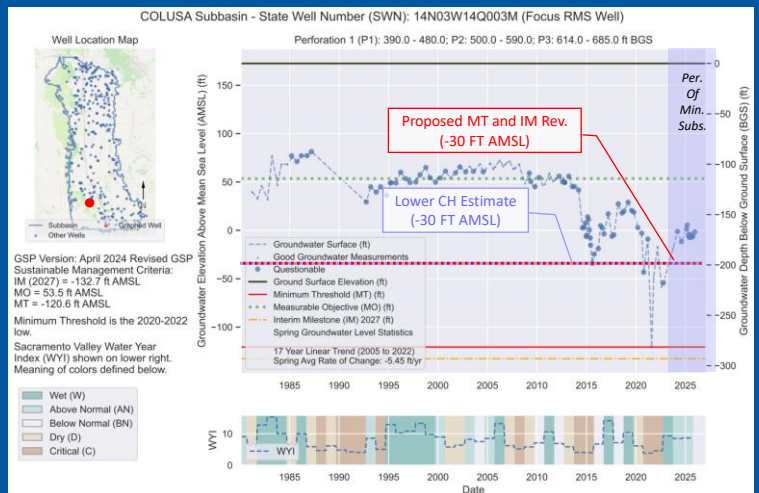


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Proposed Revisions to Groundwater Elevation MTs and 2027 IMs

- MT:
 - Lower CH estimate
 OR
 - Minimum groundwater elevation in “period of minimal subsidence” (if lower)
- 2027 IM: Equal to MT



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Item 3b - Proposed Revisions Related to Groundwater Elevation Monitoring Network (Data Gaps)

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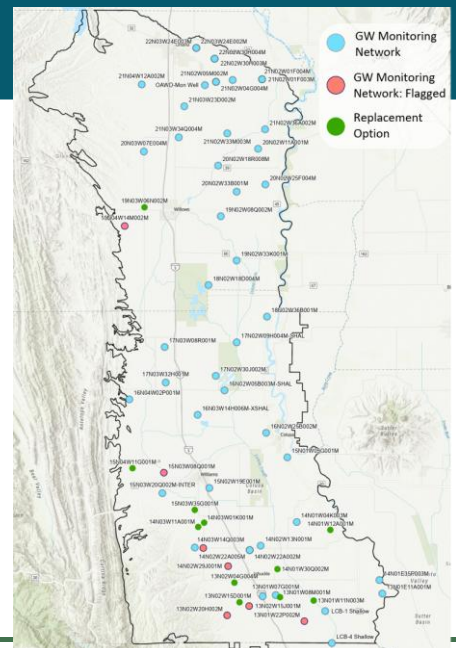


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Groundwater Level Monitoring Network Updates

- Seven wells identified for replacement due to wells being caved, damaged, discontinued.
- Searched for wells where water level is tracked by other agencies:
 - Department of Water Resources (DWR)
 - US Bureau of Reclamation (USBR)
- Candidate replacement well criteria includes:
 1. Well Use designated as Observation or Irrigation
 2. Status designated Active
 3. Well Completion Report (WCR) identified
 4. Perforated intervals documented
 5. Data through 2026
- Identified at least one replacement well for each of the seven wells



Colusa Subbasin Joint Board GSP Updates

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Item 3c – Recommended Corrective Action (RCA) for Land Subsidence

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Recommended Corrective Action Summary Update: Subsidence

Recommended Corrective Action (RCA) Summary	Update
RCA 3a, Infrastructure Map: Document infrastructure considered when defining undesirable results; provide maps/tables of specific infrastructure plus formal correspondence on susceptibility and explain how land uses/property interests were determined.	Provide a map and supporting text correlating infrastructure locations with subsidence extent, and documented stakeholder outreach.
RCA 3b/3c, UR/MT Spatial Extent: Define the spatial extent, rate, and cumulative limit of subsidence that constitutes an undesirable result (UR)/minimum threshold (MT), tied to beneficial uses and infrastructure impacts.	Retain existing spatial extent, PLSS sections (1x1 mi square or 'sections'), with added justification and further linking them to identified users and infrastructure.
◆ RCA 3d, UR Definition: Redefine UR conditions so they trigger with subsidence that substantially interferes with land uses.	Link the UR criteria to the tiered Yellow/Orange/Red trigger framework and critical infrastructure documentation (Table 5-1, RCA 3a Figure), so Groundwater Demand Management (GDM) actions are initiated with lead time to feasibly prevent an undesirable result.
◆ RCA 3e, Triggers for Action: Redefine yellow/red-light trigger conditions so they are tied to feasibly preventing a UR.	Add an intermediate Orange tier. ● Yellow: 0.5 ft cumulative within 1 mi of critical infrastructure (3+ sections) or 0.1 ft/yr for 2 consecutive years (6+ sections) → GDM Action 1. ● Orange: 1.0 ft within 1 mi of infrastructure (2+ sections) or 0.1 ft/yr for 2 consecutive years (8+ sections) → GDM Action 2. ● Red: corresponds to the UR threshold → GDM Action 3. <i>(Values subject to refinement prior to finalization of the GDM Program)</i>

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◆ Red diamond indicates items that may need board approval

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Item 3d – RCAs for Water Quality and Monitoring

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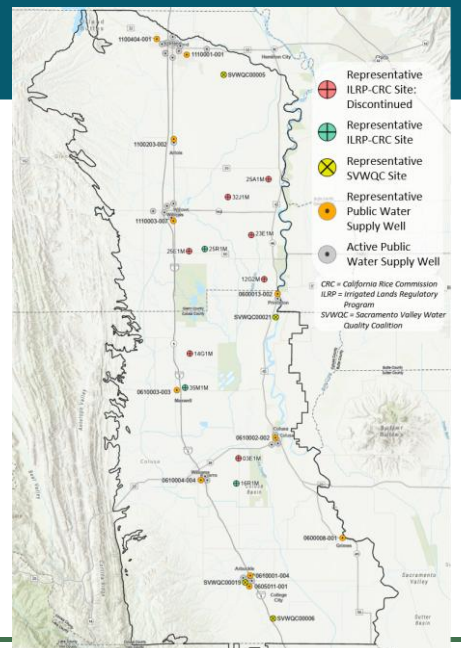
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Groundwater Quality Monitoring Network Updates

- Seven wells discontinued from Irrigated Lands Regulatory Program (ILRP)-California Rice Commission (CRC) monitoring network.
 - Rationale for discontinuing is documented in CRC's *Revised Groundwater Quality Trend Monitoring Workplan (April 2021)*. Available at [ILRP Coalition Submittals Page](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/water_quality/coalitions_submittals/#rice): https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/water_quality/coalitions_submittals/#rice
- The discontinued ILRP-CRC wells are listed in the SGMA Portal and will need to be removed to match the current ILRP-CRC network.
- Remaining groundwater quality monitoring network wells provide sufficient spatial coverage.



Recommended Corrective Action Summary Update: Water Quality

Recommended Corrective Action (RCA) Summary	Update
RCA 6a, Sulfate as a COC: Either add sulfate as a constituent of concern (COC) in a future GSP update or provide adequate reasoning for excluding it.	Designate sulfate as a COC, supported by geochemical analysis.
RCA 7a, EC as Proxy: Revise SMC to include identified COCs or demonstrate with evidence that TDS is a reasonable proxy for other constituents.	Demonstrate electrical conductivity (EC) as a reliable proxy for salinity-related constituents; confirm remaining constituents show no increasing trend or are actively regulated where localized increasing trends.
RCA 7c, Coordination Protocol: Coordinate with drinking water, environmental, and irrigation users, plus water quality regulatory agencies/programs, to build a defined process for monitoring and determining whether GSA management/extraction is degrading water quality.	Summarize coordination in one place with an annual protocol described in GSP Section 7. Plan describes: • Data compilation steps • Data evaluation steps • Coordination and Communication steps

Colusa Subbasin Joint Board GSP Updates

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Item 4a - Groundwater Demand Management (GDM) Program Development

Water accounting system statements and associated outreach materials

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GDM Ad Hoc Meetings (2026)

- 01/08/2026 - Refocusing efforts after Water Accounting System (WAS) RFQ and selection process
- 02/20/2026 - Groundwater budgets and sustainable yield
- 03/12/2026 - GDM triggers and actions
- 04/09/2026 - GDM triggers and actions, continued
- 05/14/2026 - Water Accounting System updates and GDM triggers and actions, continued
- 06/04/2026 - Outreach, Water Accounting System updates, GDM triggers and actions, continued
- 07/09/2026 - GDM triggers and actions, continued
- 08/06/2026 - Funding for GDM actions and outreach plan/framework (WAS statement/flyer)
- 09/10/2026 - Funding for GDM actions and outreach plan/framework (WAS statement/flyer)
- 10/08/2026 - Draft GDM Program documentation review and discussion
- 11/05/2026 - Draft GDM Program documentation review and discussion
- 12/03/2026 - Approve final GDM Program documentation and outline next steps into 2027

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GDM Outreach Updates

- Water accounting outreach explainer video
- Feedback can be provided via the QR code on the first page of the statements and from the outreach video
- Planned grower outreach events:
 - 09/02 from 12:30 to 13:30 at Granzellas, Willams
 - 09/03 from 12:30 to 13:30 at Glenn Success Square, Orland

WATER YEAR 2025 COLUSA SUBBASIN (10/01/24 - 09/30/25) WATER ACCOUNTING STATEMENT



ACCOUNT SUMMARY

Account ID	
CSMA	CGA, GGA
Mailing Address	
Report Generated On	08/06/2026
Number of Parcels	4
Total Assessed Area (AC)	508.55
Total Geometric Area (AC)	508.33
Total Field Area (AC)	470.59
Percent Farmed	90.1%
NGWI (AF)	598.9

KEY DEFINITIONS

Precipitation (PR)
Total precipitation on your land.

Evapotranspiration (ET)
Combined consumptive use of water through evaporation from the soil surface and transpiration from plants.

Applied Surface Water (ASW)
Water delivered from canals, ditches, or other surface water conveyance systems and applied to your land for irrigation and/or direct recharge.

Runoff From Precipitation (ROPR)
Estimated by considering rainfall intensity, duration, and existing soil and land use conditions.

Runoff From Applied Surface Water (ROASW)
Estimated based on ASW, crop type, and estimated deep percolation based on soil parameters.

$$NGWI = \text{WATER INFLOWS} - \text{WATER OUTFLOWS} = PR + ASW - (ET + ROPR + ROASW)$$



Net Groundwater Impact (NGWI)
The estimated net effect that land and water management practices have on the groundwater system.

>>> POSITIVE NGWI
Your land likely is a net contributor to the groundwater system.

>>> NEAR-ZERO NGWI
Water inflows and outflows were balanced.

>>> NEGATIVE NGWI
Your land likely is a net extractor from the aquifer.



Please scan the QR code to provide any feedback or corrections.

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Colusa Subbasin Joint Board GSP Updates

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Item 4b - Groundwater Demand Management (GDM) Program Development

Outreach material mailings

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Item 4c - Groundwater Demand Management (GDM) Program Development

GDM Triggers and Actions

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Sustainability Indicator	GDM Action 0	Trigger 1 (Yellow Light)	GDM Action 1	Trigger 2 (Orange Light)	GDM Action 2	Trigger 3 (Red Light)	GDM Action 3	SWRCB Intervention
Groundwater Levels/Storage	Develop GDM Program and Implement Water Accounting System (WAS)	12.5% (6) RMS wells fall below 50% between their MT and MO for 2 consecutive fall minimum measurements	Continue implementation of GDM outreach and education program with specific focus on and GDM Action 2	12.5% (6) RMS wells fall below 25% between their MT and MO for 2 consecutive fall minimum measurements	Implement NGWI fees and use for implementation of GDM Actions	12.5% (6) RMS wells fall below their MT for 2 consecutive fall minimum measurements (UR)		<u>Administrative Fees:</u> - \$300 / Well / YR
	Continue PMA Implementation and continue to maximize State and Federal Funds		and motivating voluntary GDM actions (e.g., preparations for proposition 218 process for NGWI fees)		Continue implementation of GDM outreach and education program with specific focus on GDM Action 3 (e.g., allocation program)		In addition to GDM Actions 1 and 2, implement groundwater allocation of sustainable yield, with policies for transitional water, carryover, penalties, water markets, etc.	- \$20 / AF of Groundwater Extracted (Probationary Subbasin)
Cumulative Subsidence	Continue coordination with voluntary landowner efforts	Cumulative subsidence is greater than 0.5 FT at 3 contiguous sections within 1 mile of critical infrastructure	Implement other strategic actions to prepare for GDM	Cumulative subsidence is greater than 1.0 FT at 2 contiguous sections within 1 mile of critical infrastructure		Cumulative subsidence is greater than 2.0 FT for any sections (UR)		<u>Enforcement:</u> - Likely includes extraction limits - Likely includes large penalties - Other unknown SWRCB actions
	Implement GDM outreach and education program with specific focus on providing water accounting statements and further explaining the Draft GDM Program		Action 2 (e.g., provide access to water accounting data via online portal)		Implement other strategic actions to prepare for GDM			
Annual Subsidence	Fully prepare and develop, but do not implement, GDM Action 2 (NGWI fees) and Action 3 (allocation program)	Annual subsidence is > 0.10 FT / YR at 6 contiguous sections for 2 consecutive years		Annual subsidence is > 0.10 FT / YR at 8 contiguous sections for 2 consecutive years	Action 3 (e.g., develop a comprehensive allocation program)	Annual subsidence is > 0.10 FT / YR at 10 contiguous sections for 2 consecutive years (UR)		
Prop 26 (WAT § 10730)				Prop 218 (WAT § 10730.2)				
GDM Outreach and Education								

Colusa Subbasin Joint Board GSP Updates

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Item 5 - Review Davids Engineering Budgets, Meeting Schedule, and Next Steps

Colusa Subbasin Joint Board GSP Updates

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Review Meeting Schedule and Next Steps

- Joint Board Meetings
 - Alternating Willows and Colusa
 - Date:
 - Willows: 3rd Friday of the month (starting July 17)
 - Colusa: 2nd Friday of the month typically (starting August 14)
 - Time: 13:30 to 16:30
- GDM Ad Hoc Meetings
 - Held monthly
 - Scheduled through end of 2026
- Outreach Meetings (09/02/2026 and 09/03/2026)

Colusa Subbasin Joint Board GSP Updates

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DE Task Order Review and Discussion

Note: 1173 = CGA; 1178 = GGA

GSP Imp Support Remaining:
~\$18K*

Outreach Support:
~\$26K Remaining

Periodic
Evaluation
and Plan
Amendment
(1178.07)

Colusa
Subbasin GSP
WY 2025
Annual
Report
(1173.03.04)

Colusa
Subbasin GSP
Imp. Support
(1173.05.03)

Groundwater
Demand
Management
Program
Development

Colusa
Subbasin
Water
Accounting
System Phase
I (1178.08.01)

~\$159K Remaining

~\$1K Remaining

~\$44K Remaining

~\$4K Remaining

Colusa Subbasin Joint Board GSP Updates

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Questions and Discussion

Colusa Subbasin Joint Board GSP Updates

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Staff Report

To: CGA-GGA Joint Board

Agenda Item: 4. Groundwater Demand Management Program Development

- a. Receive updates from staff, consultant team, and ad hoc committee members on Water Accounting System Statements and associated outreach materials.
- b. *Authorize outreach materials mailing packet in an amount not to exceed \$11,000 to be paid on a cost share basis of 57% CGA and 43% GGA.
- c. Receive updates from staff, consultant team, and ad hoc committee members on Groundwater Demand Management Program triggers and actions.

Date: August 14, 2026

Background

The CGA and GGA Groundwater Demand Management Ad Hoc Committees have been meeting jointly, generally with consultant support, to discuss and prepare recommendations to the GSAs on the development of a Groundwater Demand Management Program.

The ad hoc committees met August 6, 2026. During this meeting, the ad hoc committees focused on draft Water Accounting System Statements and related outreach materials, estimated costs, and funding options.

The Team will showcase outreach materials being developed, including a brief video explaining Net Groundwater Impact and water accounting system statements.

The GSAs have identified outreach as a critical component of Groundwater Demand Management Program development, with Water Accounting System Statements serving an important role in the communication. Water Accounting System Statements have been developed for each account containing at least 10 acres in aggregate. The statements would be accompanied by an informational flyer on Net Groundwater Impact and an announcement for upcoming outreach meetings. Costs for a mailing service to prepare and mail the statements and related materials is estimated to be less than \$11,000, which is not included in the current agreement with Davids Engineering. Costs could be split (1) evenly between the GSAs, (2) based on a percentage of parcels in each GSA, or (3) based on a percentage of land mass in each GSA. Both options two and three are approximately 57% CGA and 43% GGA.

The ad hoc committees also confirmed the recommended Triggers and Actions, which will be reviewed and confirmed with the GSAs.

Staff, the consultant team, and ad hoc committee members will provide an update.

Ad Hoc Committee Members

CGA: Lewis Bair, Halbert Charter, Jeff Moresco, Jim Wallace

GGA: John Amaro (or Jeff Sutton), Mark Lohse (or Seth Fiack), Chuck Schonauer (or Justin Dahl)

Recommendation

1. Receive update from staff, consultant team, and ad hoc committee members.
2. Provide direction to staff, consulting team, legal counsel, and or committees as needed.

Attachments

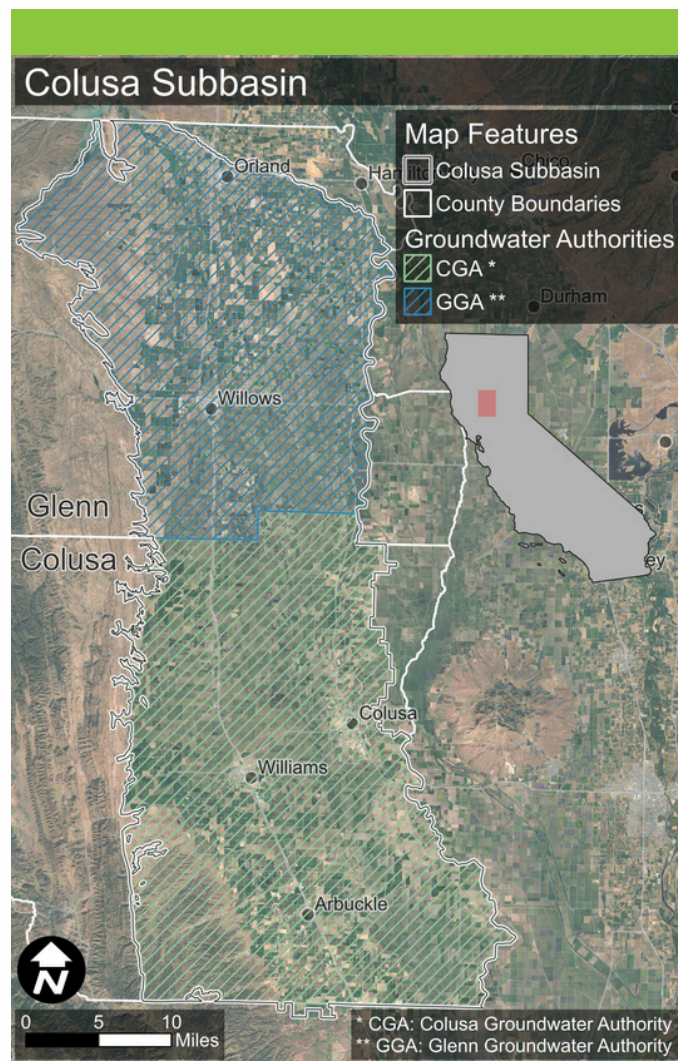
- Draft Presentation (see Item 3 attachment)
- Water Accounting System flyer
- Sample Water Accounting System Statements

WATER ACCOUNTING SYSTEM OVERVIEW

The Colusa Groundwater Authority (CGA) and Glenn Groundwater Authority (GGA) are the two local Groundwater Sustainability Agencies (GSAs) responsible for jointly managing the Colusa Subbasin under California's Sustainable Groundwater Management Act (SGMA). Together, the CGA and GGA are implementing the [Colusa Subbasin Groundwater Sustainability Plan \(GSP\)*](#), which provides the long-term framework for achieving and maintaining groundwater sustainability in the subbasin.

As part of that effort, the CGA and GGA are developing a Groundwater Demand Management (GDM) Program for the Colusa Subbasin. The goal of the GDM Program is to address overdraft (estimated as approximately 60,000 acre-feet per year), groundwater level declines, and subsidence and related undesirable results. This commitment was included in the revised GSP with a program to be developed by the end of 2026. Since the GSP revisions were completed, the CGA and GGA have been working to develop the program and evaluate key considerations for its implementation

A key part of the GDM Program is development of a subbasin-wide **Water Accounting System (WAS)**, which helps the GSAs understand water accounting across the Colusa Subbasin and inform groundwater management decisions by providing consistent and transparent information. A WAS will provide landowners and water users a clearer picture of their own water accounts for their land. Water accounting statements estimating **Net Groundwater Impacts (NGWI)** for each water year (October through September) will be provided to landowners.



***Learn more about the Colusa Subbasin GSP at colusagroundwater.org/projects/groundwater-sustainability-plan.**

>>> WATER ACCOUNTING AND NET GROUNDWATER IMPACT (NGWI)

Water accounting is the process of measuring how water moves across your land(s): what water comes in and what goes out, with the difference being your net groundwater impact (NGWI). Think of it as a financial balance sheet, but for water. Water accounting provides a consistent, transparent way to understand water management on your land(s) and supports sustainable groundwater management decisions for the entire subbasin.

>>> WHAT IS NET WATER GROUNDWATER IMPACT (NGWI)?

NGWI is the estimated net effect that land and water management practices have on the groundwater system.

>>> UNDERSTANDING YOUR WATER ACCOUNTING STATEMENTS

Net Groundwater Impact (NGWI) is the estimated net effect that land and water management practices have on the groundwater system. Colusa water accounting statements summarizes available data for the land(s) associated with your accounts (currently based on contact address on file with the County Assessor's Offices) and provides an estimate of your NGWI for the stated water year. NGWI is defined as:

$$\text{NGWI} = \text{WATER INFLOWS} - \text{WATER OUTFLOWS} = \text{PR} + \text{ASW} - (\text{ET} + \text{ROPR} + \text{ROASW})$$

>>> POSITIVE NGWI

Your land is a net contributor to the groundwater system. Your parcel(s) received more water (through precipitation and applied surface water) than was consumed by crops or moved off your land(s) as runoff. The excess represents water available to recharge the groundwater system.

>>> NEGATIVE NGWI

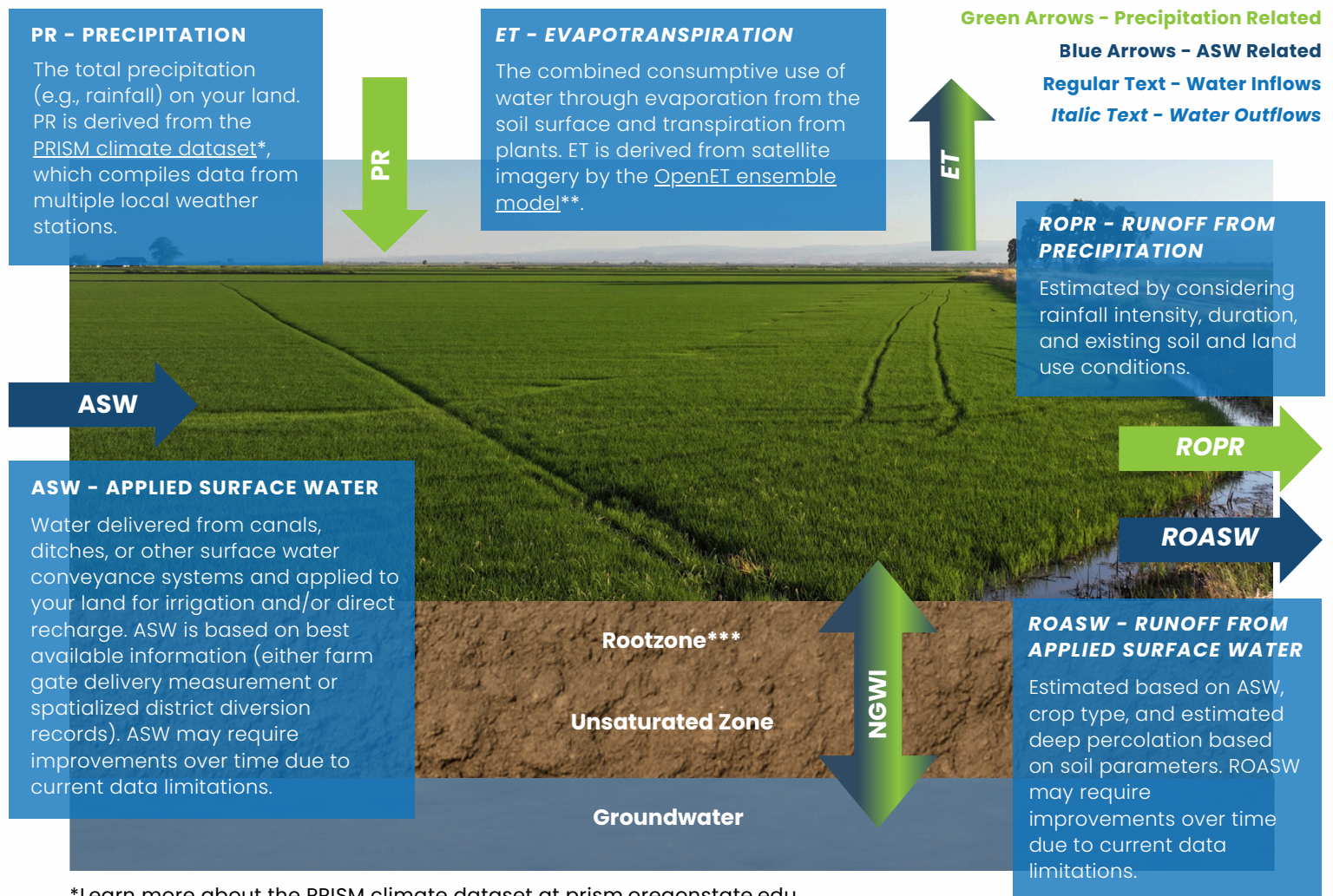
Your land is a net extractor from the aquifer. Your parcel(s) receive less water (through precipitation and applied surface water) than was consumed by crops or moved off your land(s) as runoff. The deficit implies a net extraction of groundwater.

>>> NEAR-ZERO NGWI

Water inflows and outflows were balanced.

Your feedback is important. Because water accounting statements rely on the best available data, some information may be incomplete or need refinement. This is especially true for applied surface water delivery data, parcel/account relationships (currently based on contact address on file with the County Assessor's Offices), or other local information. If you believe information in your statement is missing or incorrect, please contact us at CThomasKeefer@rgs.ca.gov (CGA) and LHunter@countyofglenn.net (GGA) so the data can be reviewed and improved.

NET GROUNDWATER IMPACT (NGWI) COMPONENTS <<<



*Learn more about the PRISM climate dataset at prism.oregonstate.edu.

**Learn more about the OpenET ensemble model at etdata.org/what-is-et.

***Annual changes in water storage in or above the rootzone are assumed to be zero.

WATER ACCOUNTING STATEMENT

ACCOUNT SUMMARY

Account ID	
GSAs	CGA, GGA
Mailing Address	
Report Generated On	08/06/2026
Number of Parcels	4
Total Assessed Area (AC)	508.55
Total Geometric Area (AC)	500.33
Total Field Area (AC)	470.59
Percent Farmed	90.1%
NGWI (AF)	598.9

KEY DEFINITIONS

Precipitation (PR)

Total precipitation on your land.

Evapotranspiration (ET)

Combined consumptive use of water through evaporation from the soil surface and transpiration from plants.

Applied Surface Water (ASW)

Water delivered from canals, ditches, or other surface water conveyance systems and applied to your land for irrigation and/or direct recharge.

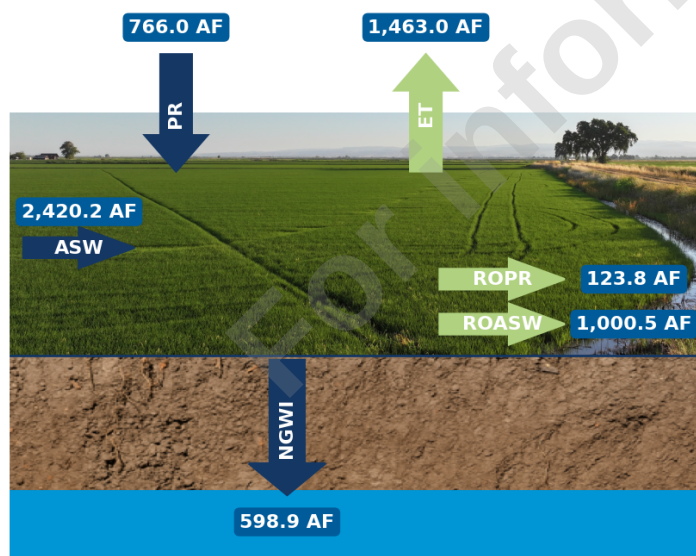
Runoff From Precipitation (ROPR)

Estimated by considering rainfall intensity, duration, and existing soil and land use conditions.

Runoff From Applied Surface Water (ROASW)

Estimated based on ASW, crop type, and estimated deep percolation based on soil parameters.

$$\text{NGWI} = \text{WATER INFLOWS} - \text{WATER OUTFLOWS} = \text{PR} + \text{ASW} - (\text{ET} + \text{ROPR} + \text{ROASW})$$



Net Groundwater Impact (NGWI)

The estimated net effect that land and water management practices have on the groundwater system.

>>> POSITIVE NGWI

Your land likely is a net contributor to the groundwater system.

>>> NEAR-ZERO NGWI

Water inflows and outflows were balanced.

>>> NEGATIVE NGWI

Your land likely is a net extractor from the aquifer.



Please scan the QR code to provide any feedback or corrections.

WATER ACCOUNTING STATEMENT



This statement is for information and review purposes only

This statement does not establish any allocation, credit, penalty, fee, or regulatory requirement. It does not require you to take any immediate action. The CGA and GGA are sharing these statements now to increase transparency, and allow landowners to review the information as the GDM Program is being developed.

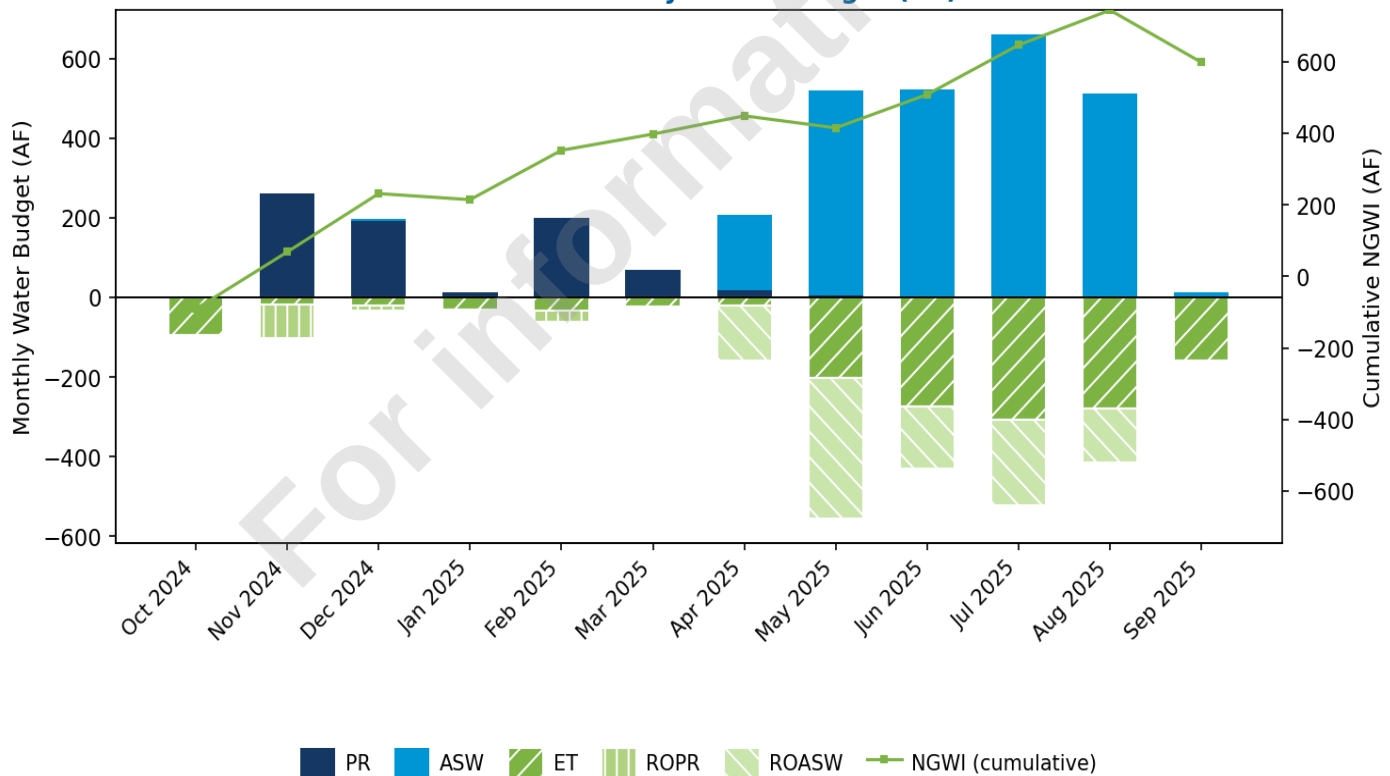
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Abbreviations

AF: Acre-Feet | ASW: Applied Surface Water | CGA: Colusa Groundwater Authority | GGA: Glenn Groundwater Authority | GSA: Groundwater Sustainability Agency | ET: Evapotranspiration | FT: Feet | NGWI: Net Groundwater Impact | PR: Precipitation | ROASW: Runoff from Applied Surface Water | ROPR: Runoff from Precipitation | WY: Water Year

Account Monthly Water Budget (AF)



WATER ACCOUNTING STATEMENT

Region-Level Water Accounting Summary

Note: Values below are per-district aggregations across all parcels in this account. Total values in AF. Applied surface water sourced from RemoteTracker raster model. $NGWI = P + ASW - (ET + ROPR + ROASW)$ (Net Groundwater Impact; a positive number means you are having a net positive impact on the groundwater system (i.e., a net contributor); a negative number means you are having a net negative impact on the groundwater system (i.e., a net extractor). NGWI is assessed over the entire parcel, including non-irrigated areas; parcels with substantial riparian vegetation or open water may show a lower NGWI driven by natural evapotranspiration rather than consumptive use of groundwater.

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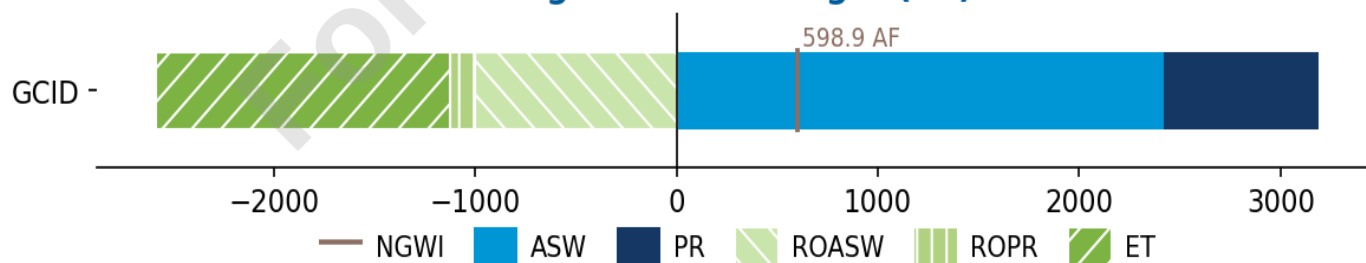
Region	Assessed Area (AC)	Farmed Area (AC)	PR (AF)	ASW (AF)	ET (AF)	ROPR (AF)	ROASW (AF)	NGWI (AF)
GCID	508.55	450.72	766.0	2420.2	1463.0	123.8	1000.5	598.9
Total	508.55	450.72	766.0	2420.2	1463.0	123.8	1000.5	598.9

Region-Level Land Use / Land Cover (AC)

Note: The 5 largest crop types by total acreage are shown individually; remaining crops are grouped into Other Crops, Idle, and Other Non-Crops (native, riparian, urban, and other non-irrigated classes). Total Field AC reflects all DWR-mapped field pixels within the region. All values are reported in acres.

Region	Rice	Native Vegetation	Urban	Other Crops	Idle	Other Non-Crops	Total Field AC
GCID	450.72	16.69	3.18	0.0	0.0	19.87	470.59
Total	450.72	16.69	3.18	0.0	0.0	19.87	470.59

Region Water Budget (AF)



WATER ACCOUNTING STATEMENT

Parcel-Level Water Accounting Summary

Note: Values below are per-parcel aggregations across all districts. Total values in AF. Applied surface water sourced from RemoteTracker raster model. $NGWI = P + ASW - (ET + ROPR + ROASW)$ (Net Groundwater Impact; a positive number means you are having a net positive impact on the groundwater system (i.e., a net contributor); a negative number means you are having a net negative impact on the groundwater system (i.e., a net extractor). NGWI is assessed over the entire parcel, including non-irrigated areas; parcels with substantial riparian vegetation or open water may show a lower NGWI driven by natural evapotranspiration rather than consumptive use of groundwater.

Values are rounded for display; totals are computed on unrounded values, so columns may not sum exactly to the totals shown.

APN	Assessed Area (AC)	Farmed Area (AC)	PR (AF)	ASW (AF)	ET (AF)	ROPR (AF)	ROASW (AF)	NGWI (AF)
	109.04	99.51	144.4	504.5	309.9	19.9	209.7	109.5
	160.0	147.46	258.9	706.6	493.5	42.1	239.8	190.0
	119.29	99.95	183.3	635.8	329.0	31.0	295.3	163.8
	120.22	103.8	179.4	573.2	330.6	30.7	255.7	135.5
Total	508.55	450.72	766.0	2420.2	1463.0	123.8	1000.5	598.9

Parcel-Level Land Use / Land Cover (AC)

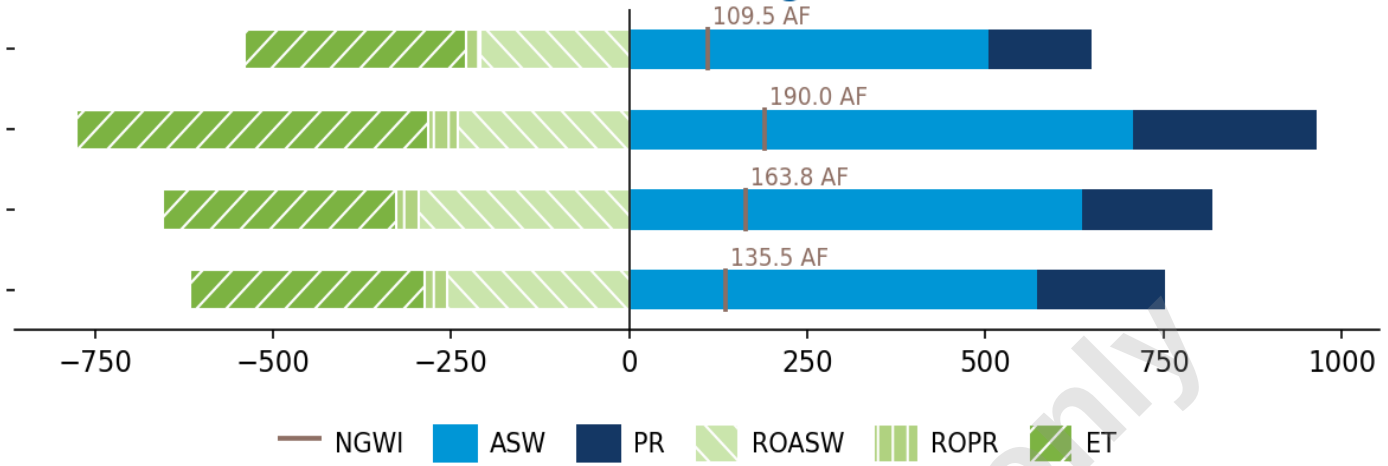
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APN	Rice	Native Vegetation	Urban	Other Crops	Idle	Other Non-Crops	Total Field AC
	99.51	3.21	0.4	0.0	0.0	3.61	103.12
	147.46	6.95	2.78	0.0	0.0	9.73	157.19
	99.95	3.85	0.0	0.0	0.0	3.85	103.8
	103.8	2.68	0.0	0.0	0.0	2.68	106.48
Total	450.72	16.69	3.18	0.0	0.0	19.87	470.59

WATER ACCOUNTING STATEMENT



Parcel Water Budget (AF)



For information only

WATER ACCOUNTING STATEMENT

ACCOUNT SUMMARY

Account ID	
GSAs	GGA
Mailing Address	
Report Generated On	08/06/2026
Number of Parcels	5
Total Assessed Area (AC)	930.14
Total Geometric Area (AC)	931.31
Total Field Area (AC)	822.46
Percent Farmed	78.4%
NGWI (AF)	-689.9

KEY DEFINITIONS

Precipitation (PR)

Total precipitation on your land.

Evapotranspiration (ET)

Combined consumptive use of water through evaporation from the soil surface and transpiration from plants.

Applied Surface Water (ASW)

Water delivered from canals, ditches, or other surface water conveyance systems and applied to your land for irrigation and/or direct recharge.

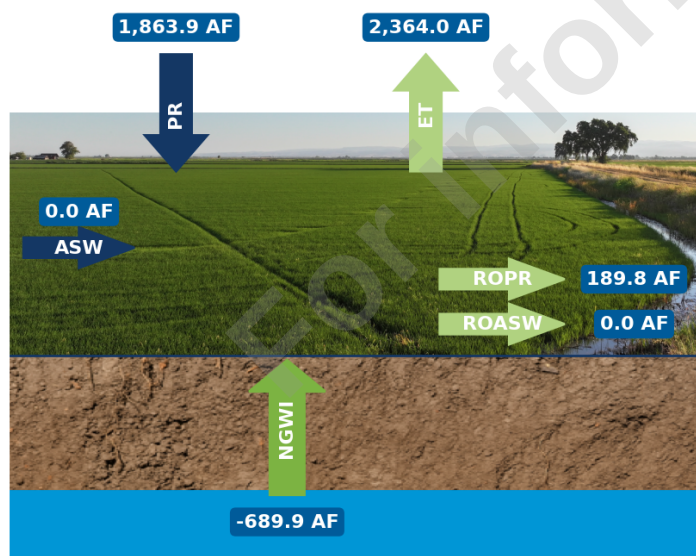
Runoff From Precipitation (ROPR)

Estimated by considering rainfall intensity, duration, and existing soil and land use conditions.

Runoff From Applied Surface Water (ROASW)

Estimated based on ASW, crop type, and estimated deep percolation based on soil parameters.

$$\text{NGWI} = \text{WATER INFLOWS} - \text{WATER OUTFLOWS} = \text{PR} + \text{ASW} - (\text{ET} + \text{ROPR} + \text{ROASW})$$



Net Groundwater Impact (NGWI)

The estimated net effect that land and water management practices have on the groundwater system.

>>> POSITIVE NGWI

Your land likely is a net contributor to the groundwater system.

>>> NEAR-ZERO NGWI

Water inflows and outflows were balanced.

>>> NEGATIVE NGWI

Your land likely is a net extractor from the aquifer.



Please scan the QR code to provide any feedback or corrections.

WATER ACCOUNTING STATEMENT



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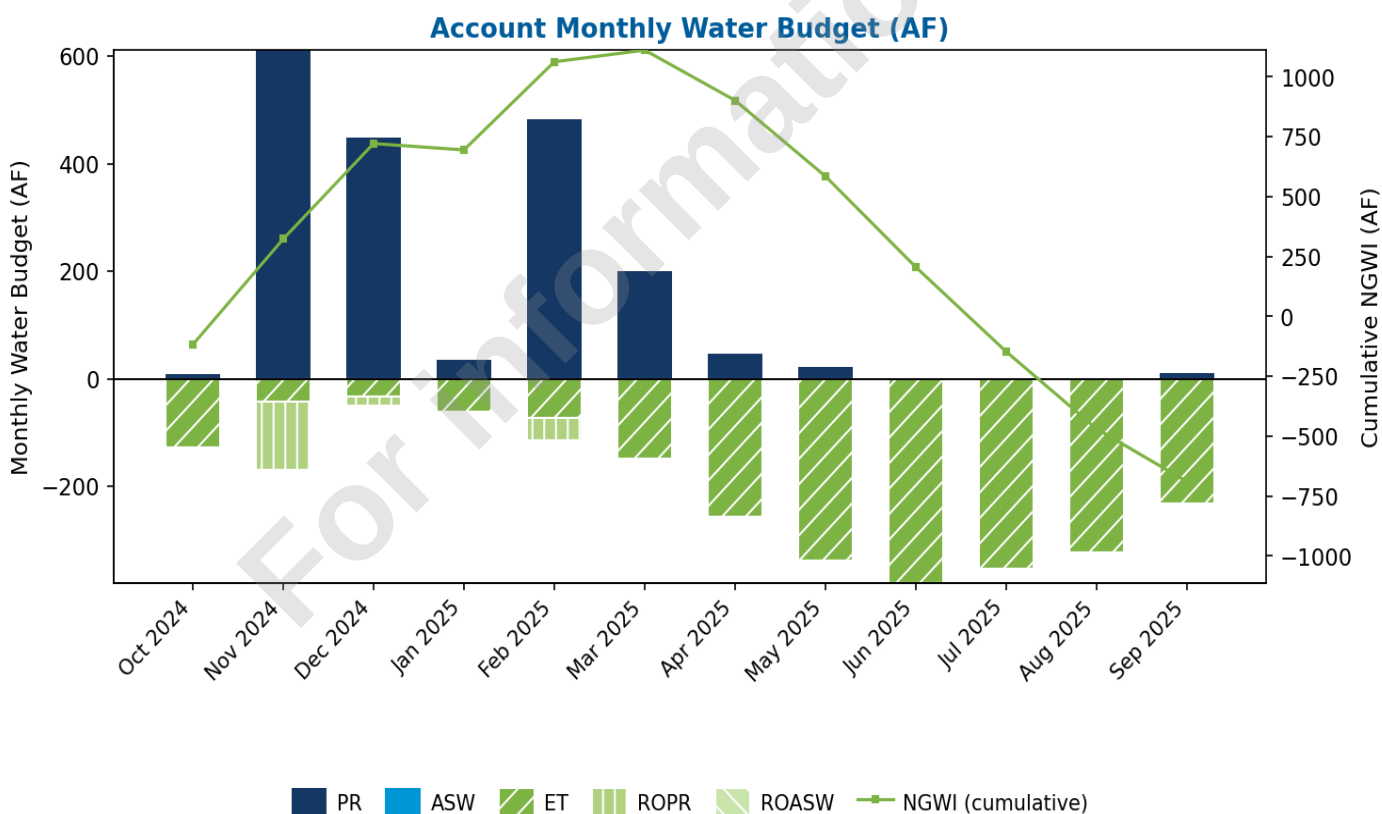
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WATER ACCOUNTING STATEMENT

Region-Level Water Accounting Summary

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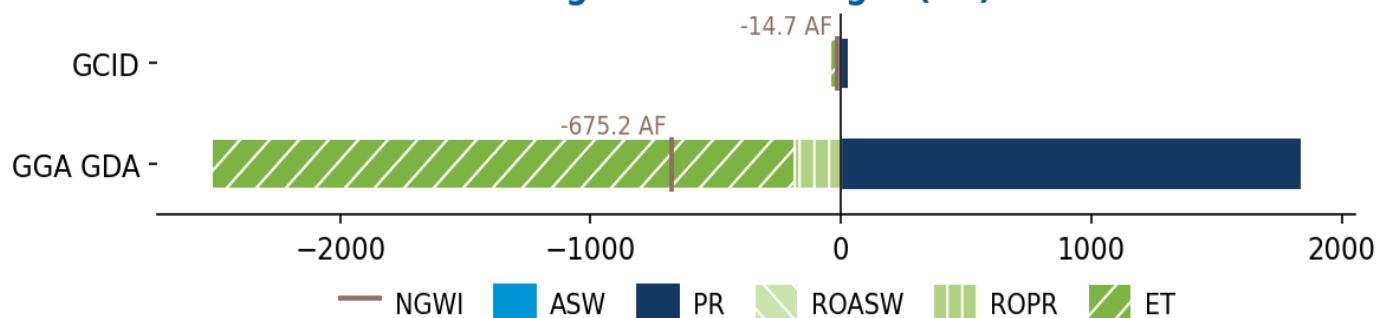
Region	Assessed Area (AC)	Farmed Area (AC)	PR (AF)	ASW (AF)	ET (AF)	ROPR (AF)	ROASW (AF)	NGWI (AF)
GCID	13.42	5.07	27.0	0.0	37.2	4.6	0.0	-14.7
GGA GDA	916.72	724.86	1836.9	0.0	2326.9	185.2	0.0	-675.2
Total	930.14	729.92	1863.9	0.0	2364.0	189.8	0.0	-689.9

Region-Level Land Use / Land Cover (AC)

Note: The 5 largest crop types by total acreage are shown individually; remaining crops are grouped into Other Crops, Idle, and Other Non-Crops (native, riparian, urban, and other non-irrigated classes). Total Field AC reflects all DWR-mapped field pixels within the region. All values are reported in acres.

Region	Almonds	Alfalfa	Walnuts	Grain And Hay	Misc Field Crops	Other Crops	Idle	Other Non-Crops	Total Field AC
GCID	2.52	0.0	2.54	0.0	0.0	1.04	0.0	1.04	6.11
GGA GDA	199.52	200.96	156.88	100.71	66.79	91.5	64.66	26.84	816.35
Total	202.04	200.96	159.42	100.71	66.79	92.54	64.66	27.88	822.46

Region Water Budget (AF)



WATER ACCOUNTING STATEMENT

Parcel-Level Water Accounting Summary

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Values are rounded for display; totals are computed on unrounded values, so columns may not sum exactly to the totals shown.

APN	Assessed Area (AC)	Farmed Area (AC)	PR (AF)	ASW (AF)	ET (AF)	ROPR (AF)	ROASW (AF)	NGWI (AF)
	470.0	390.55	935.4	0.0	1171.5	97.0	0.0	-333.0
	223.0	203.02	452.2	0.0	694.6	20.5	0.0	-263.0
	121.0	45.36	245.1	0.0	248.6	49.9	0.0	-53.4
	113.31	91.0	226.2	0.0	244.5	21.4	0.0	-39.7
	2.83	0.0	5.1	0.0	4.9	1.0	0.0	-0.8
Total	930.14	729.92	1863.9	0.0	2364.0	189.8	0.0	-689.9

Parcel-Level Land Use / Land Cover (AC)

Note: The 5 largest crop types by total acreage are shown individually; remaining crops are grouped into Other Crops, Idle, and Other Non-Crops (native, riparian, urban, and other non-irrigated classes). Total Field AC reflects all DWR-mapped field pixels within the parcel. All values are reported in acres.

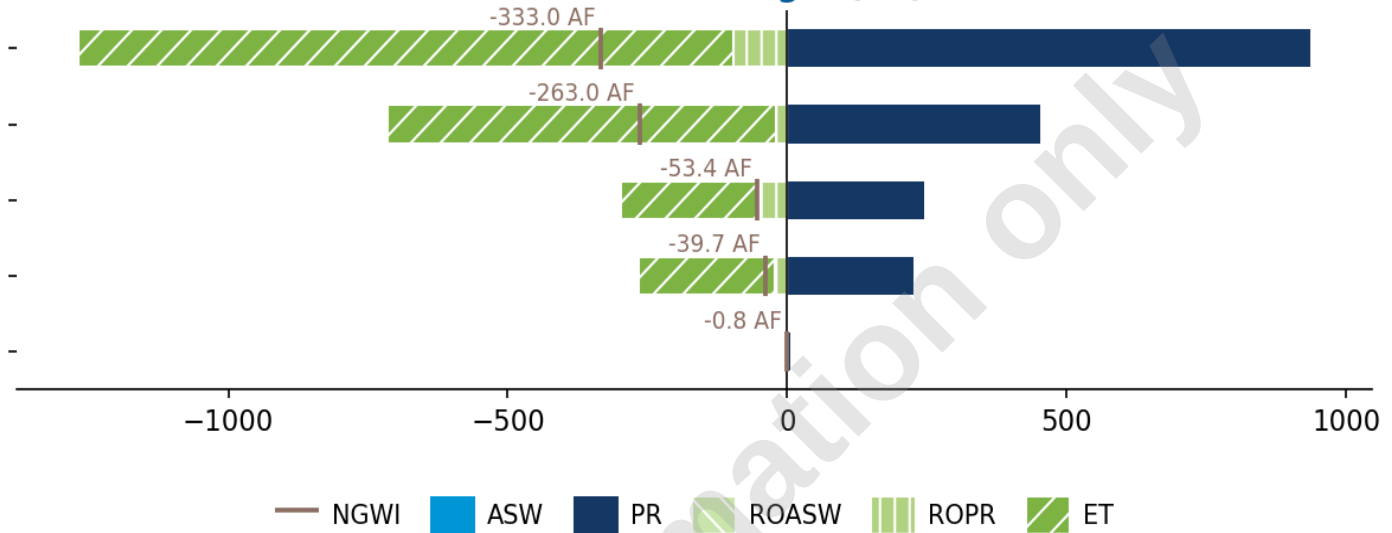
APN	Almonds	Alfalfa	Walnuts	Grain And Hay	Misc Field Crops	Other Crops	Idle	Other Non-Crops	Total Field AC
	7.97	94.5	121.4	99.88	66.79	12.96	0.6	12.36	403.51
	101.43	63.78	37.81	0.0	0.0	7.54	0.0	7.54	210.56
	2.88	42.47	0.0	0.0	0.0	67.27	63.23	4.04	112.62
	89.75	0.21	0.21	0.83	0.0	4.78	0.83	3.95	95.77
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER ACCOUNTING STATEMENT



APN	Almonds	Alfalfa	Walnuts	Grain And Hay	Misc Field Crops	Other Crops	Idle	Other Non-Crops	Total Field AC
Total	202.04	200.96	159.42	100.71	66.79	92.54	64.66	27.88	822.46

Parcel Water Budget (AF)



Staff Report

To: CGA-GGA Joint Board

Agenda Item: 5. Review remaining Davids Engineering Budgets, Meeting Schedule and Next Steps

Date: August 14, 2026

Background

Davids Engineering, Inc. staff will share an update on current task orders and remaining budgets. The Team will also review the upcoming meeting schedule and confirm next steps.

The next CGA/GGA Joint Board meeting is tentatively scheduled for September 18, 2026 in Willows.

Outreach meetings are planned for September 2, 2026 in Williams and September 3, 2026 in Orland.

Staff and the consultant team may provide additional updates.

Recommendation

1. Receive update from staff and consultant team.
2. Provide direction to staff, consulting team, legal counsel, and or committees as needed.

Attachments

- Draft Presentation (see Item 3 attachment)

Staff Report

To: CGA-GGA Joint Board

Agenda Item: 6. Discussion on support for upcoming projects and activities

Date: August 14, 2026

Background

The GSAs are responsible for implementation of the GSP, including several recurring activities and long-term planning efforts. Examples of these activities include preparation of Annual Reports, Periodic Evaluations, and GSP Amendments, as needed; development of a Water Accounting System; development of a Groundwater Demand Management Program; and implementation of the Domestic Well Mitigation Program.

Annual Reports are due April 1 of each year, with the Water Year 2026 Annual Report due April 1, 2027. The GSAs do not currently have an agreement in place for preparation of the Water Year 2026 Annual Report. The GSAs should consider a path forward for completing the Annual Report.

The GSAs should also consider their desired approach for completing development of the Groundwater Demand Management Program before January 1, 2027, and implementation of the Program beginning January 1, 2027.

Both project-specific and longer-term technical support contracting models are available. A longer-term technical support agreement could be structured for a specified term, such as five years, or for another term determined by the GSAs, with individual projects or tasks authorized as needed.

If the GSAs are interested in pursuing a solicitation process for long-term technical support, the GSAs may wish to consider whether existing agreements should be amended to provide sufficient funding and scope to address immediate needs while a longer-term procurement process is completed. Immediate needs may include preparation of the Water Year 2026 Annual Report and technical support related to the Water Accounting System and Groundwater Demand Management Program.

Staff is requesting guidance from the GSAs on their preferred approach for moving forward, including:

1. Preference for project-specific contracting or longer-term technical support.
2. Whether existing agreements should be amended to address immediate needs.
3. How preparation of the Water Year 2026 Annual Report should be handled.

Recommendation

1. Receive an update from staff and provide direction regarding preferred approach for short-term and long-term technical support services.

Attachments

- None