



CGA/GGA Joint Board Meeting Packet

April 10, 2026



Joint Colusa Groundwater Authority and Glenn Groundwater Authority Board of Directors

Special Meeting Agenda

April 10, 2026 | 1:30 p.m.

Colusa Industrial Properties, 100 Sunrise Blvd., Colusa, CA 95932

Alternate Meeting Locations:

244 SE Piper Dr., Holt, MO 64048

344 E. Laurel Street, Willows, CA 95988

A live online viewing/listening only option is being offered via Microsoft Teams

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Meeting ID: 245 346 128 812 84 | Passcode: NA6xn9da

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Please note that when you access the online meeting, you will be placed into a waiting room and admitted into the meeting by the Meeting Host. Public comment will only be taken in person or via email, there will be no option to provide public comment on the remote platform. In addition, if the remote viewing/listening option is interrupted or compromised, the meeting will continue in person.

* Indicates an Action Item

1. Call to Order, Roll Call, and Introductions (pg. 2)
2. Approval of Minutes (pg. 4)
 - a. *Approve the special joint CGA/GGA meeting minutes from October 17, 2025. (pg. 5)
 - b. *Approve the special joint CGA/GGA meeting minutes from November 21, 2025. (pg. 8)
3. Period of Public Comment (pg. 2)

At this time, members of the public may address the Board Members regarding items that are not on the agenda but are of relevance. Public comments are limited to three minutes. The Boards may not act on items not on the agenda.
4. Presentation: Water Year 2025 Annual Report (pg. 12)
5. Groundwater Demand Management Program Development (pg. 22)
 - a. Receive update from staff, consultant team, and ad hoc committee members.
 - b. Receive recommendations from CGA/GGA Joint Groundwater Demand Management Ad Hoc Committee and discuss to reach a consensus on next steps.
6. Review Meeting Schedule and Next Steps (pg. 2)
7. Staff Reports (pg. 2)

8. Member Reports and Comments (pg. 3)
9. Adjourn (pg. 3)

A complete agenda packet, including back-up information, is available for inspection during normal business hours at 1213 Market Street, Colusa, CA 95932 or 225 N. Tehama St., Willows, CA 95988. The full agenda packet can also be found on the CGA and GGA websites: <https://colusagroundwater.org/agendas-and-minutes-2026/>;
<https://www.countyofglenn.net/glenn-groundwater-authority/meetings>

In compliance with the Americans with Disability Act, if you require special accommodation to participate in this meeting, please contact the Carol Thomas Keefer, CGA Program Manager, at 650-587-7300 X17 or Glenn County Water Resources Division at 530-934-6540 prior to any meeting and arrangements will be made to accommodate you.

Staff Report

To: CGA-GGA Joint Board

Agenda Item: 2. Approval of Minutes

Date: April 10, 2026

Background

The October 17, 2025 and November 21, 2025 CGA/GGA Joint Board Special Meeting Minutes are attached.

Recommendation

CGA & GGA Action: Approve the October 17, 2025 CGA/GGA Joint Board Special Meeting Minutes.

CGA & GGA Action: Approve the November 21, 2025 CGA/GGA Joint Board Special Meeting Minutes.

Attachments

- October 17, 2025 CGA/GGA Joint Board Special Meeting Minutes
- November 21, 2025 CGA/GGA Joint Board Special Meeting Minutes



Joint Colusa Groundwater Authority and Glenn Groundwater Authority Board of Directors

Special Meeting October 17, 2025 | 1:00 p.m.

PCDSA Conference Room, 225 N. Tehama St., Willows, CA 95988

Alternate Meeting Locations:

244 SE Piper Dr., Holt, MO 64048 | 344 E. Laurel Street, Willows, CA 95988

MINUTES

In Attendance:

Colusa Groundwater Authority:

Director Members Present:	Alternate/2 nd Alternate Directors	Agency Representing:
Janice Bell	Jose Corona	County of Colusa
Jeremy Cain	Jesse Cain	City of Colusa
X Kate Dunlap	Alfred Sellers, Jr.	City of Williams
X Kelly Ornbaun	Jeff Sutton	Glenn Colusa Irrigation District
* Frank Nobriga (as public)	X Shelly Murphy	Colusa County Water District
Drew Dirks		Maxwell Irrigation District
X Jered Shipley		Provident Irrigation District
X Hilary Reinhard	Lewis Bair	Reclamation District 108
Derrick Strain	Vacant	Reclamation District 479
Jim Wallace	Lynell Pollock	Colusa Drain Mutual Water Company
Deke Dormer		Private Pumper
Jeff Moresco		Private Pumper

Glenn Groundwater Authority:

Director Members Present:	Alternate Directors	Agency Representing:
X Grant Carmon	Tony Arendt	County of Glenn
* Brandon Smith (as public)	Joe Goodman	City of Orland
X Gary Hansen	Tavis Beynon	City of Willows
Matt Deadmond	X Vince Laufer	Glide Water District
X John Amaro	Jeff Sutton	Glenn-Colusa Irrigation District
X Charles Schonauer	Justin Dahl	Orland-Artois Water District
X Randy Hansen	Wade Danley	Kanawha Water District
Mark Lohse	Seth Fiack	Monroeville Water District
X Jered Shipley	Gary Enos	Princeton-Codora-Glenn Irrigation District/ Provident Irrigation District

Others in Attendance: Lisa Hunter (GGA), Carol Thomas-Keefer (CGA), Valerie Kincaid (GGA Counsel), Thad Bettner, Ben King, Donald Bills, Bill Davis, Kandi Manhart-Belding, Kellie Burt, Arne Gustafson, Brandon Davison (DWR), .

1. Call to Order, Roll Call and Introductions (CGA Board and GGA Board)

GGA Chair Hansen called the meeting to order at 1:16 p.m. Attendance was noted above. A quorum of members was present for GGA; CGA did not have a quorum.

2. Approval of Minutes

- a. *September 19, 2025 CGA/GGA Joint Board Meeting Minutes (CGA/GGA)
Action on this item was deferred to a future meeting.

3. Period of Public Comment

Chair Hansen opened the floor to public comment for items not on the agenda. Mr. Ben King commented on the 1973 Base of Fresh Water map prepared by C. F. Berkstresser as well as on salt water upconing in the Colusa Subbasin.

4. Colusa Subbasin GSP 2027 Periodic Evaluation and Plan Amendment Agreement

- a. *Approve Colusa Subbasin GSP 2027 Periodic Evaluation and Plan Amendment Agreement in an amount not to exceed \$296,500 without prior approval. (GGA action)

Ms. Lisa Hunter reported that this item had been previously reviewed at the joint board meeting on September 19, and, based on board member comments, the scope of work had been revised to address only those activities necessary to prepare the Periodic Evaluation and Plan Amendment, and the budget had been reduced from \$438,000 to \$297,500, with the amount to be shared by the two GSAs. Based on current CGA revenue limitations, it had also been proposed that GGA should approve and hold the contract, and CGA would share the cost on a 50/50 basis.

On motion by Director Amaro and seconded by Director Schonauer, the GGA Board approved the Colusa Subbasin GSP 2027 Periodic Evaluation and Plan Amendment Agreement in an amount not to exceed \$296,500 without prior approval.

AYES: Carmon, G. Hansen, Amaro, Schonauer, R. Hansen, Shipley, Laufer

NOES: none

ABSTAIN: none

ABSENT: Lohse, Smith

- b. *Approve sharing cost of Colusa Subbasin GSP 2027 Periodic Evaluation and Plan Amendment Agreement in an amount not to exceed \$148.250 (50 percent of total cost) without prior approval. (CGA action)

This item was deferred to a future meeting since there was no CGA quorum.

5. Groundwater Demand Management Program Development

- a. Receive updates from staff on RFQ for Development and Implementation of a Water Accounting System.

Ms. Hunter, Mr. Thad Bettner and Ms. Carol Thomas-Keefer provided a brief report, noting that four consultants had been interviewed by staff and the ad hoc committees, and staff was currently conducting reference checks on those consultants.

6. Domestic Well Mitigation Program Development

- a. Receive updates from staff on program development progress and next steps.

Ms. Hunter reported that staff and consultants are working to finalize proposed agreements among the GSAs for program implementation; additionally, program agreements and implementation details are being developed with the North Valley Community Foundation. Final agreements and program materials are expected to be presented to the GSA boards for consideration within the next two months.

7. Colusa Subbasin Outreach

- a. Discussion on the status of Colusa Subbasin Outreach task and next steps.

Ms. Hunter reported that outreach activities through consultants under the existing task order with Davids Engineering had been suspended pending evaluation of budget limitations.

8. Review Meeting Schedule and Next Steps

It was noted that future joint board meetings for the year are scheduled for November 21 and December 19.

9. Staff Reports

Ms. Hunter shared information relating to an opportunity to support a local grant application through the Glenn County Transportation Commission that would provide data on subsidence as it relates to the transportation network.

10. Member Reports and Comments

None.

11. Adjourn

The meeting was adjourned at 2:02 p.m.



Joint Colusa Groundwater Authority and Glenn Groundwater Authority Board of Directors

Special Meeting November 21, 2025 | 1:00 p.m.

PCDSA Conference Room, 225 N. Tehama St., Willows, CA 95988

Alternate Meeting Locations:

244 SE Piper Dr., Holt, MO 64048 | 344 E. Laurel Street, Willows, CA 95988

MINUTES

In Attendance:

Colusa Groundwater Authority:

Director Members Present:	Alternate/2 nd Alternate Directors	Agency Representing:
X Janice Bell		County of Colusa
Jeremy Cain	Jesse Cain	City of Colusa
X Kate Dunlap	Alfred Sellers, Jr.	City of Williams
X Kelly Ornbaun	Jeff Sutton	Glenn Colusa Irrigation District
X Halbert Charter	Shelly Murphy	Colusa County Water District
Drew Dirks		Maxwell Irrigation District
X Jered Shipley	Jim Campbell	Princeton-Codora-Glenn Irrigation District
Hilary Reinhard	X Lewis Bair	Reclamation District 108
Derrick Strain	Alex Struckmeyer	Reclamation District 479
Jim Wallace	Lynell Pollock	Colusa Drain Mutual Water Company
Deke Dormer		Private Pumper
Jeff Moresco		Private Pumper

Glenn Groundwater Authority:

Director Members Present:	Alternate Directors	Agency Representing:
X Grant Carmon	Tony Arendt	County of Glenn
Vacant	Joe Goodman	City of Orland
X Gary Hansen	Tavis Beynon	City of Willows
Matt Deadmond	X Vince Laufer	Glide Water District
X John Amaro	Jeff Sutton	Glenn-Colusa Irrigation District
X Charles Schonauer	Justin Dahl	Orland-Artois Water District
X Randy Hansen	Wade Danley	Kanawha Water District
Mark Lohse	Seth Fiack	Monroeville Water District
X Jered Shipley	Gary Enos	Princeton-Codora-Glenn Irrigation District/ Provident Irrigation District

Others in Attendance: Lisa Hunter (GGA), Carol Thomas-Keefer (CGA), Kaitlyn Murray (Glenn County/GGA), Jeff Davids (Davids Engineering, Inc.), Katie Klug (Davids Engineering, Inc.), Valerie Kincaid (GGA Counsel), Alan Doud (CGA Counsel), Kandi Manhart; Ben King; Savannah Tjaden (ESA), Kellie Burt, Bill Davis, Tara Khan (MLJ Environmental), Alan Becker, Mike Urkov, Arne Gustafson, Brandon Davison (DWR), Ryan Fulton, Victor Lopez (4-Creeks), Mary Fahey, Shelly Murphy, Jeff Sutton, Maddie Munson, Stacie Ann Silva, Robert Cima (MLJ Environmental)

1. Call to Order, Roll Call and Introductions (CGA Board and GGA Board)

GGA Chair Hansen called the meeting to order at 1:12 p.m. Attendance was noted above. A quorum of members was present for GGA. CGA recorded a quorum at 1:42 p.m. with Vice Chair Kate Dunlap presiding for the CGA Board.

2. Period of Public Comment

Chair Hansen opened the floor to public comment for items not on the agenda. Mr. Ben King commented on salt in the Colusa Subbasin.

Ms. Tjaden commented on behalf of ESA regarding its request that the GSA Boards consider directing staff to obtain and compare “minimum viable product” cost quotes from the shortlisted proposers for water accounting systems. Chair Hansen noted that the board members had received the email request from Mr. John Burns, ESA.

Ms. Manhart commented on the Glenn Resource Conservation District’s work as the subwatershed coordinator for the Colusa-Glenn Subwatershed Program and highlighted a recent communication with the members containing both Irrigated Lands Regulatory Program and SGMA information.

3. Domestic Well Mitigation Program Development

- a. Receive updates on program development progress and next steps.

Ms. Katie Klug, Davids Engineering, reviewed the status of Domestic Well Mitigation (DWM) program development, including the proposed DWM Pilot Program Structure, recap of coordination with the North Valley Community Foundation (NVCF), and review of the draft GSA Agreement. She also reviewed next steps for finalizing the program, including finalizing and adopting the NVCF and well owner agreements; finalizing, formatting, and hosting the application; coordination with NVCF and the Counties, and holding a Public Outreach Meeting to provide information to the community on the program.

Director Charter arrived at 1:30 p.m.

Director Bair arrived at 1:42 p.m. CGA now has a quorum.

- b. * Approve Agreement Establishing a Pilot Domestic Well Mitigation Program for the Colusa Subbasin and the Corning Subbasin GSA portion of the Corning Subbasin of the Sacramento Valley Groundwater Basin. (CGA/GGA)

On motion by Director Bair and seconded by Director Shipley, the CGA Board approved the Agreement Establishing a Pilot Domestic Well Mitigation Program for the Colusa Subbasin and the Corning Subbasin GSA portion of the Corning Subbasin of the Sacramento Valley Groundwater Basin.

AYES:	Bair, Bell, Charter, Dunlap, Ornbaun, Shipley
NOES:	None
ABSTAIN:	None
ABSENT:	Cain, Dirks, Dormer, Moresco, Strain, Wallace

On motion by Director Amaro and seconded by Director Schonauer, the GGA Board approved the Agreement Establishing a Pilot Domestic Well Mitigation Program for the Colusa Subbasin and the Corning Subbasin GSA portion of the Corning Subbasin of the Sacramento Valley Groundwater Basin.

AYES:	Carmon, G. Hansen, Amaro, Schonauer, R. Hansen, Lohse, Shipley, Laufer
NOES:	None
ABSTAIN:	None
ABSENT:	Goodman

4. Groundwater Demand Management Program Development

- a. Receive updates from staff and ad hoc committees on RFQ for Development and Implementation of a Water Accounting System.

Ms. Hunter and Ms. Thomas-Keefer provided a brief update on the progress of the selection of a consultant for a remote sensing system and water accounting system structure, noting that GSA staff have been working with the joint ad hoc committee on this task without consultant support. The joint ad hoc committee reviewed proposals received in response to the RFP/RFQ and held interviews with select respondents. Upon further discussion, the joint ad hoc committee recommended selecting Davids Engineering, Inc. to negotiate a contract and scope of work. The negotiation process would allow the committees to further evaluate various options on project components and pricing. The contract and scope of work would be brought to a future meeting for consideration. Mr. Ben King commented on the lack of transparency in the process to review and select a consultant.

- b. *Approve Ad Hoc Committee Recommendation: Select Davids Engineering, Inc. to negotiate a contract and scope of work to be considered at a future meeting. (CGA/GGA)

Following discussion, on motion by Director Shipley and seconded by Director Bair, the CGA Board approved the ad hoc committee recommendation to negotiate a contract and scope of work with Davids Engineering to be considered at a future meeting.

AYES:	Bair, Charter, Dunlap, Ornbaun, Shipley
NOES:	Bell
ABSTAIN:	None
ABSENT:	Cain, Dirks, Dormer, Moresco, Strain, Wallace

Following discussion, on motion by Director Carmon and seconded by Director R. Hansen, the GGA Board approved the ad hoc committee recommendation to negotiate a contract and scope of work with Davids Engineering to be considered at a future meeting.

AYES:	Carmon, G. Hansen, Amaro, Schonauer, R. Hansen, Lohse, Shipley, Laufer
NOES:	None
ABSTAIN:	None
ABSENT:	Goodman

5. Review Meeting Schedule and Next Steps

Ms. Hunter noted that the last joint meeting of the year was scheduled for December 19, 2025. Staff expects to bring final documents for the Domestic Well Mitigation Program to the two GSA boards at that time and all were encouraged to attend.

6. Staff Reports

None.

7. Member Reports and Comments

Board members inquired regarding briefing County Office of Emergency Services on the GSA programs.

8. Adjourn

The meeting was adjourned at 2:29 p.m.

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Staff Report

To: CGA-GGA Joint Board

Agenda Item: 4. Presentation: Water Year 2025 Annual Report

Date: April 10, 2026

Background

The Colusa Subbasin GSP Water Year 2025 Annual Report was submitted to DWR by April 1, 2026. This Annual Report, prepared by the consultant team (Davids Engineering and Luhdorff and Scalmanini Consulting Engineers), evaluates conditions in the Colusa Subbasin in water year 20245 and documents GSP implementation efforts since the previous Annual Report. The Water Year 2025 Annual Report is available for viewing on the SGMA portal at: <https://sgma.water.ca.gov/portal/gspar/preview/499>.

Recommendation

Information Only.

Attachments

- Presentation: Water Year 2025 Annual Report

Annual Report Update

Water Year 2025 (Oct 2024 – Sept 2025)

Dauids Engineering and LSCE

Presented by Katie Klug (Dauids Engineering)

04/10/2026



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Serving Stewards of
Western Water Since 1993

Agenda

- Overview
- Groundwater Conditions
- GSP Implementation Updates



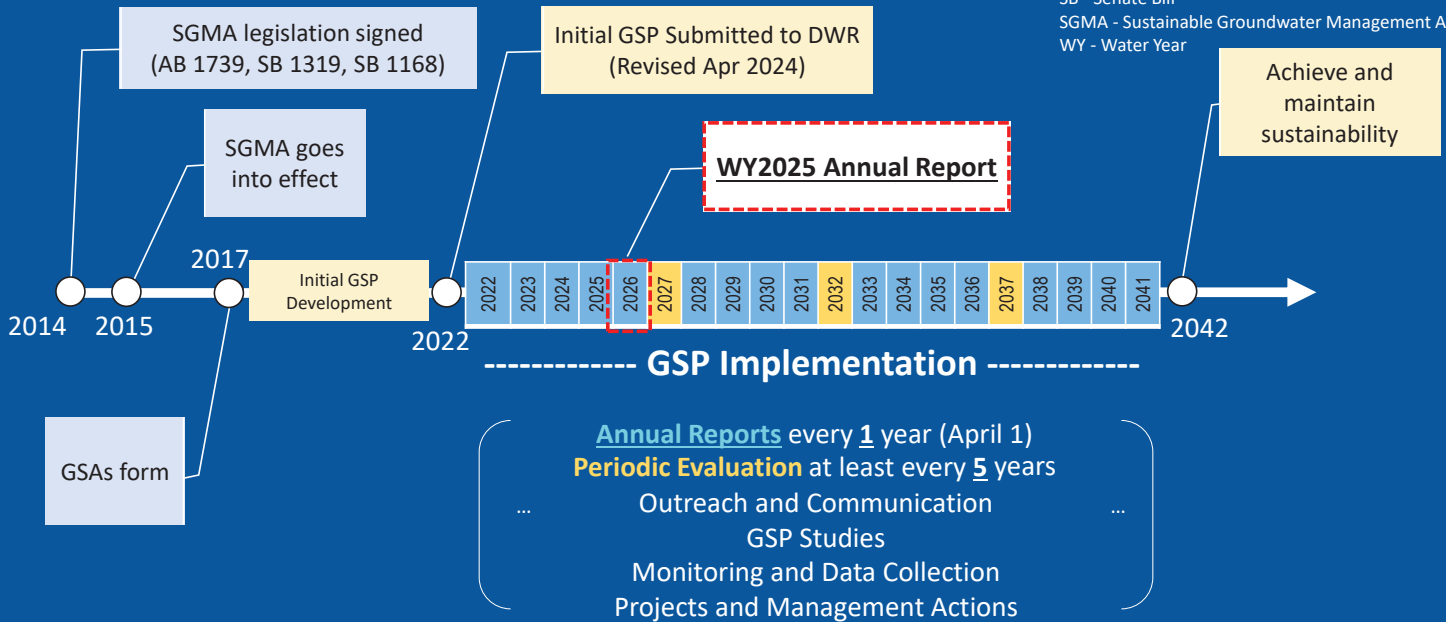
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Serving Stewards of
Western Water Since 1993

SGMA Implementation Timeline

Abbreviations:
 AB - Assembly Bill
 DWR - Department of Water Resources
 GSA - Groundwater Sustainability Agency
 GSP - Groundwater Sustainability Plan
 SB - Senate Bill
 SGMA - Sustainable Groundwater Management Act
 WY - Water Year



Annual Report WY2025 Update
 04/10/2026

DRAFT

Slide 3



Overview

- The GSP is a dynamic planning document that is guiding groundwater management to avoid adverse impacts related to five sustainability indicators.
- Water Year 2025 Annual Report includes:
 - Updates on groundwater conditions in water year 2025
 - Updates on GSA projects and management actions, including:
 - Domestic Well Mitigation
 - Groundwater Demand Management



Annual Report WY2025 Update
 04/10/2026

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Slide 4



Annual Report Requirements (23 CCR §356.2)

- Updates on Groundwater Conditions
 - Groundwater Elevation (Hydrographs, Contour Maps)
 - Change in Groundwater Storage
- Water Supply and Water Use
 - Groundwater Extraction
 - Surface Water Supplies
 - Total Water Use
- Progress Toward Plan Implementation
 - Groundwater Conditions Relative to Sustainable Management Criteria (SMC)
 - Projects and Management Actions

Annual Report WY2025 Update

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Slide 5

04/10/2026



Agenda

- Overview
- Groundwater Conditions
- GSP Implementation Updates



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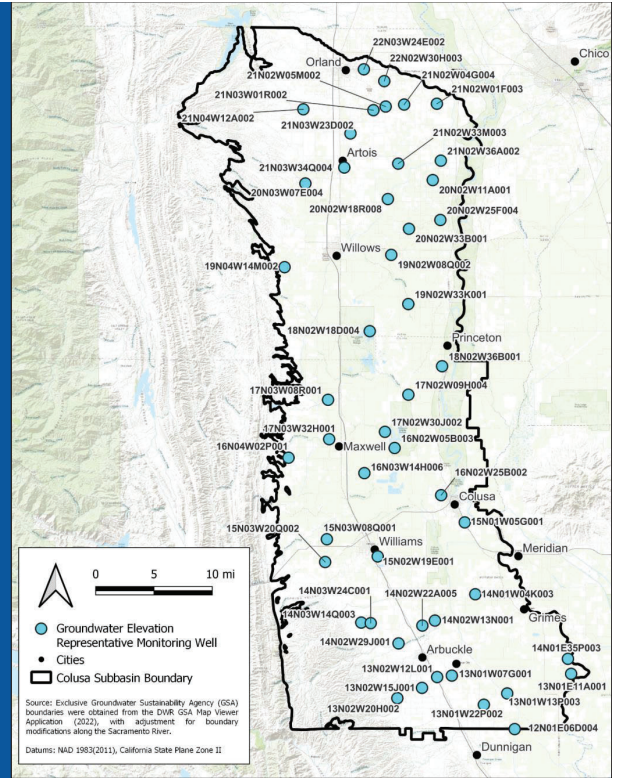


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Western Water Since 1993

Groundwater Conditions

- Groundwater elevations (48 RMS* Wells)
 - Contour maps
 - Individual RMS well hydrographs
- Groundwater storage change
- Subsidence

*Representative Monitoring Sites



Annual Report WY2025 Update

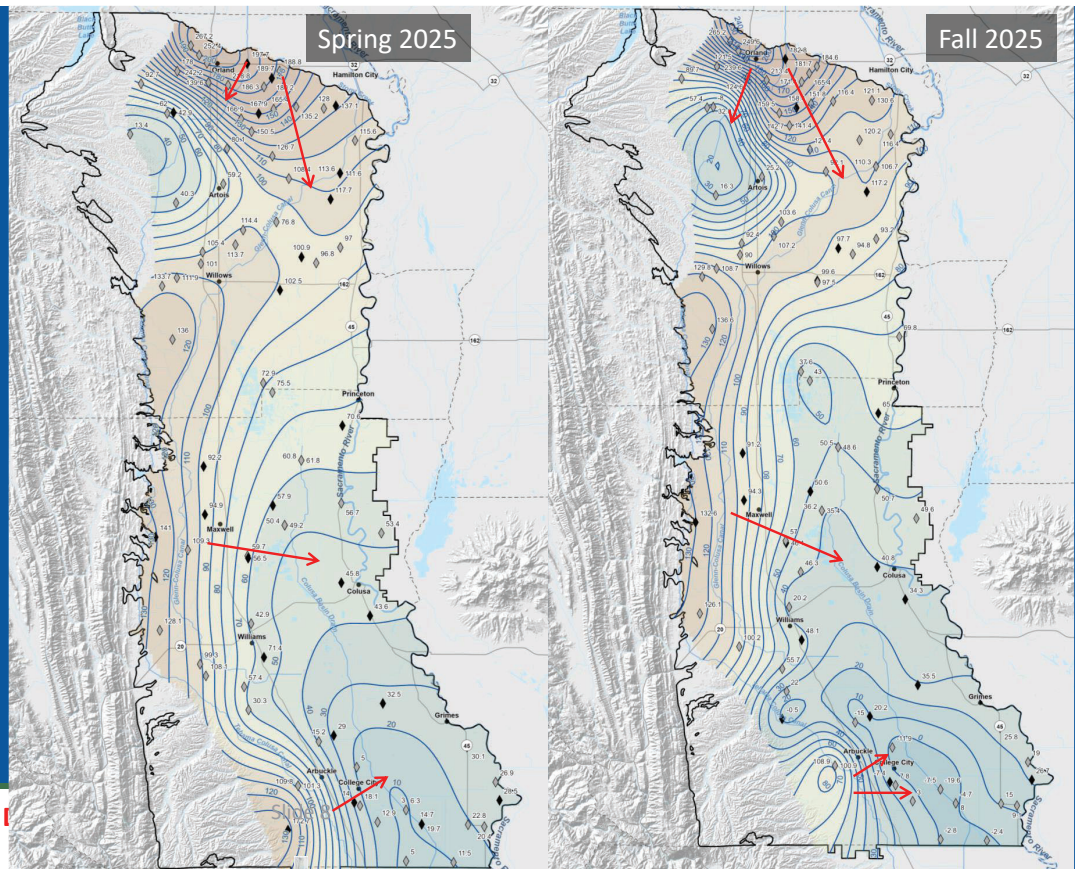
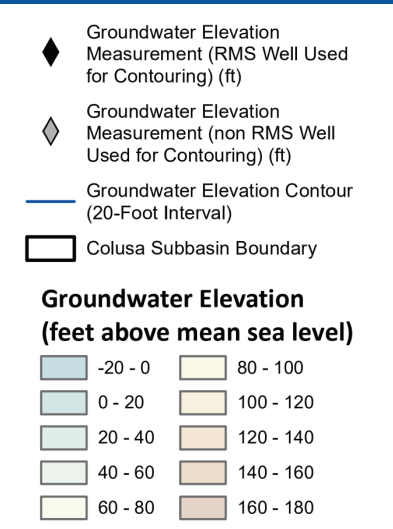
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Slide 7

04/10/2026



2025 Contours

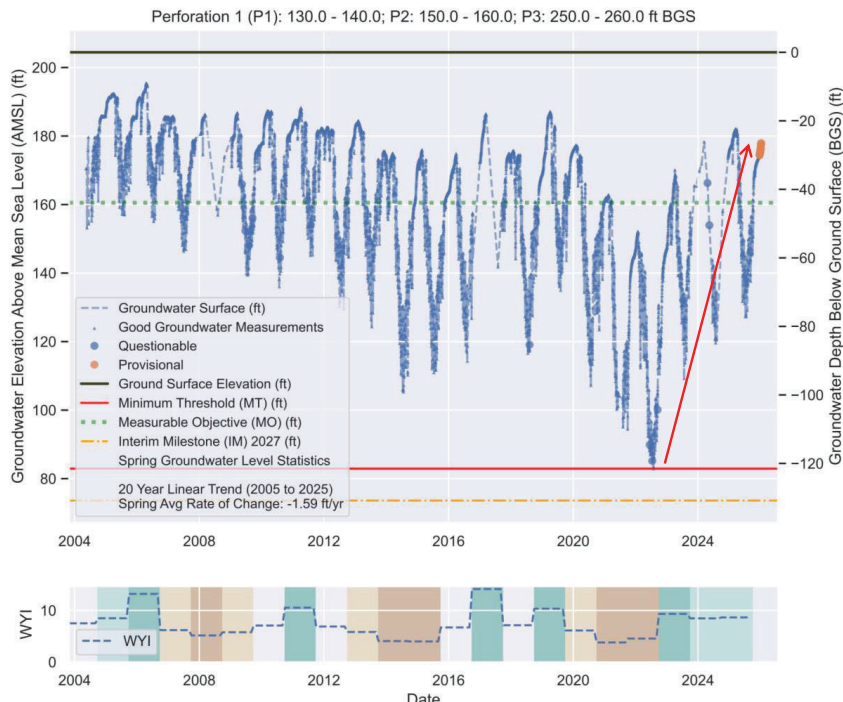
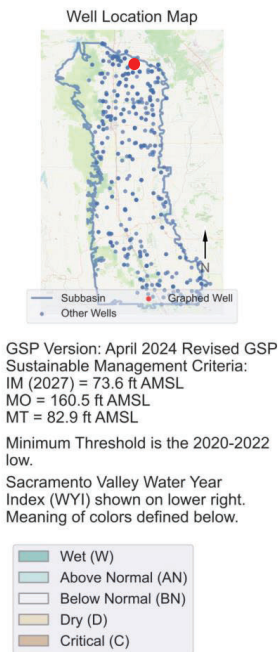


Annual Report WY2025 Update

04/10/2026

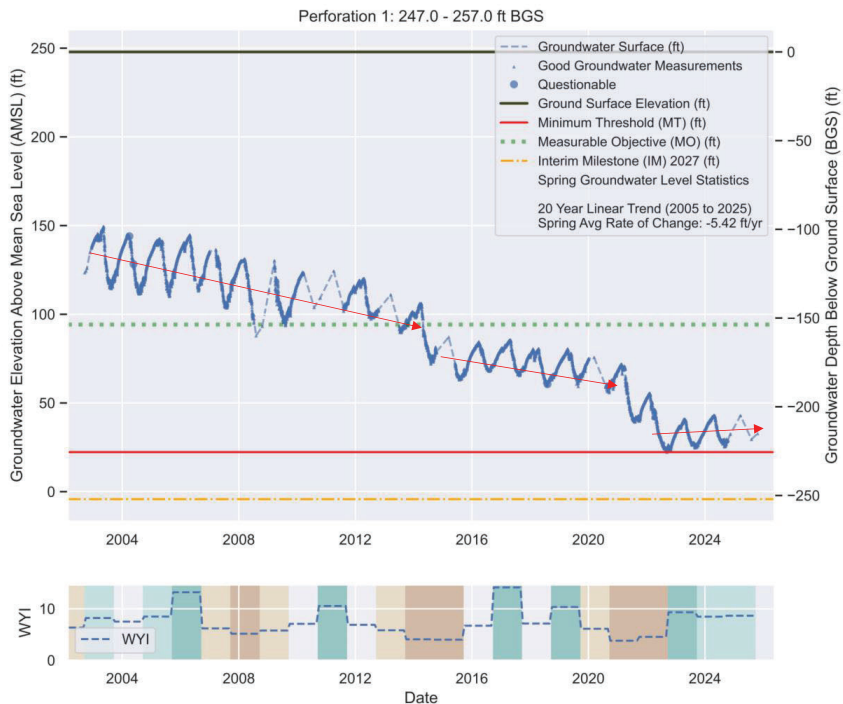
COLUSA Subbasin - State Well Number (SWN): 22N02W30H003M (Focus RMS Well)

- No RMS wells fell below MTs in spring/fall 2025
- Most RMS wells at or near the MOs
- Most RMS wells recovered from 2020-2022, though a few nearer the western boundary remain low



COLUSA Subbasin - State Well Number (SWN): 21N04W12A002M (Focus RMS Well)

- No RMS wells fell below MTs in spring/fall 2025
- Most RMS wells at or near the MOs
- Most RMS wells recovered from 2020-2022, though a few nearer the western boundary remain low

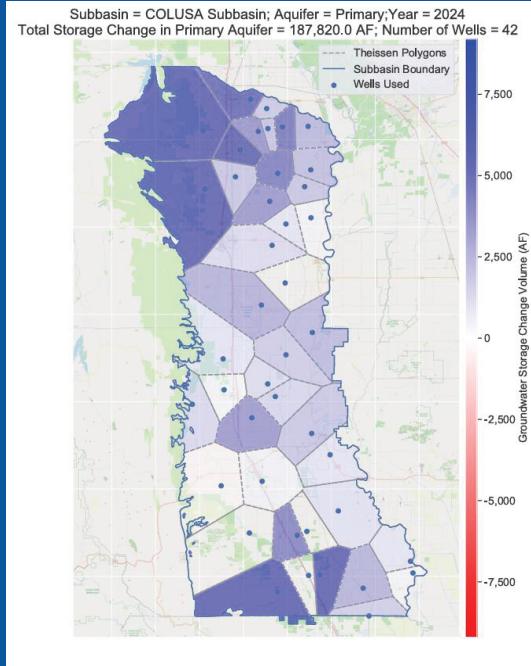


Change in Groundwater Storage

- Estimated from GW Levels at RMS Wells
 - Measured spring-to-spring change in GW level
 - Calculated change in storage in surrounding polygon based on GW level and aquifer parameter.
 - Annual change in storage calculated for each polygon and summed across the Subbasin (1960s-2025)
 - Cumulative change in storage calculated Subbasin-wide for 1960s-2025.

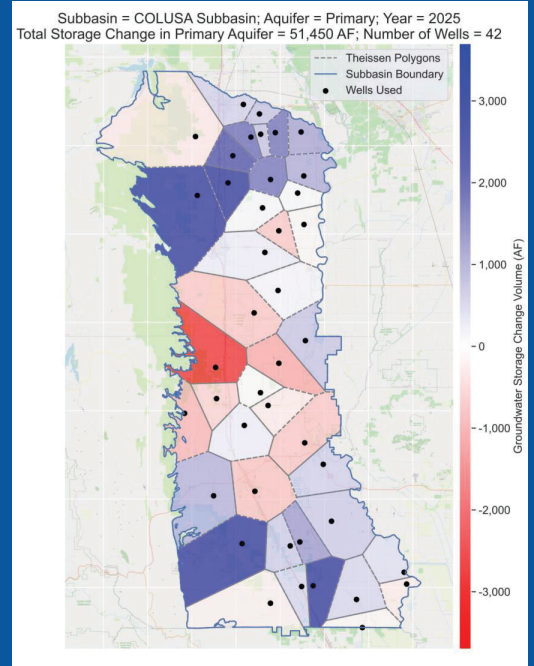
Spring 2023 – Spring 2024

2024: +188 TAF



Spring 2024 – Spring 2025

2025: +51 TAF

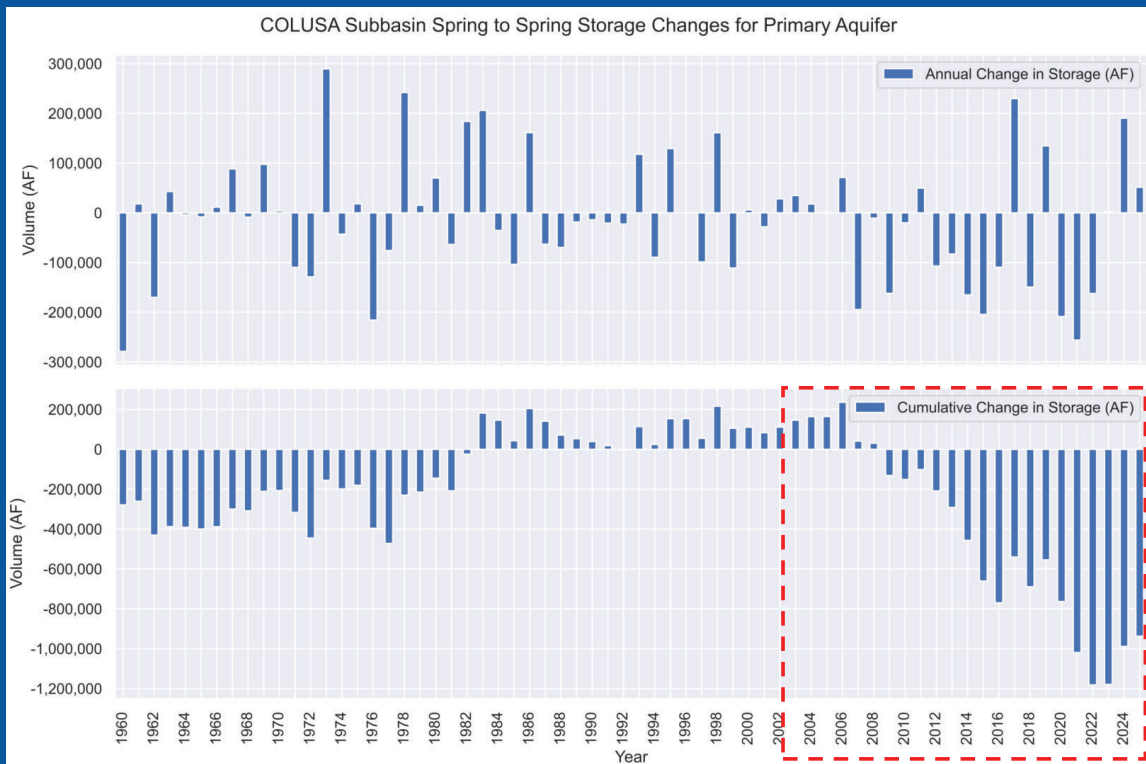


Annual Report WY2025 Update

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Slide 11

04/10/2026



Annual Report WY2025 Update

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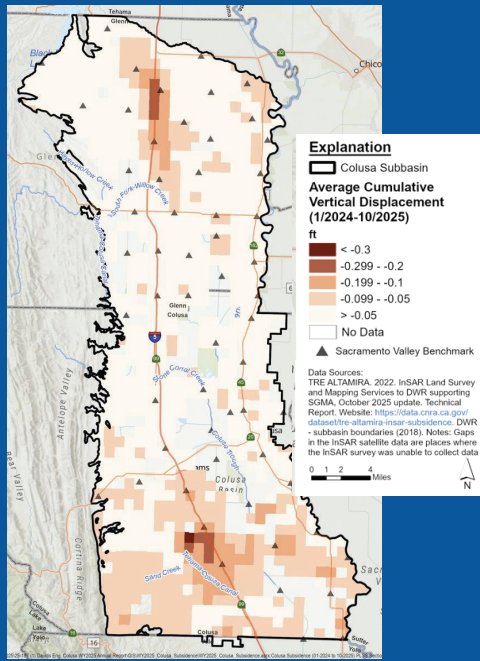
Slide 12

04/10/2026

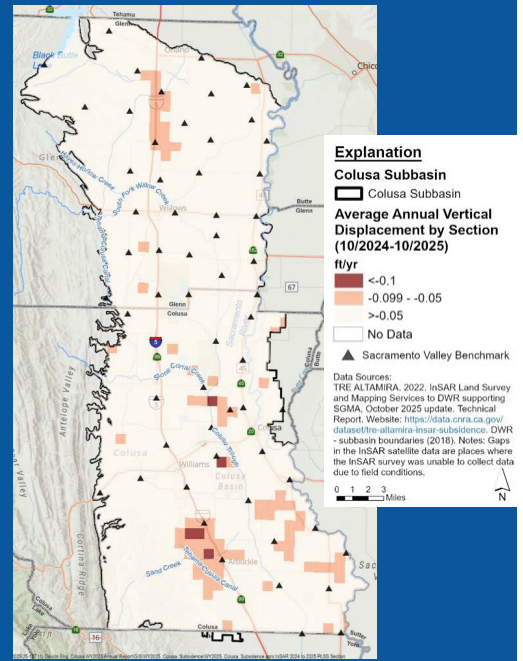


Subsidence

- Monitored by InSAR
- Undesirable Results defined as:
 - Cumulative subsidence >2 ft from Jan 2024 (1 PLSS section), OR
 - Avg annual subsidence >0.1 ft/yr (10+ contiguous PLSS sections for 2 consecutive years)
- Findings in 2025:
 - **Undesirable Results not occurring**
 - Cumulative subsidence generally <0.3 ft from Jan 2024
 - Avg annual subsidence ≥0.1 ft/yr in 5 sections north/west of Arbuckle (Oct 2024–Oct 2025)
 - Discussing potential subsidence impacts with critical infrast. owners/operators
 - Will continue monitoring



Avg Cumulative Vertical Displacement (Jan 2024-Oct 2025)



Avg Annual Vertical Displacement (2025)

Agenda

- Overview
- Groundwater Conditions
- GSP Implementation Updates

GSP Implementation Updates

- Groundwater Levels at RMS Wells (48 wells total)
 - No wells remained below the MTs in spring/fall 2025
 - No “focus wells” below the IMs at the spring/fall 2025 measurements
 - Most wells at or near the MOs at the spring measurement (seasonal high)
 - 10 out of 48 wells (21%) missing spring and/or fall 2025 data, mainly due to access issues (DWR monitors these)
- **Successfully launched Pilot Domestic Well Mitigation Program by 1/1/26**
- **Joint efforts underway to develop demand management programs**
- Projects and other updates (e.g., funding efforts) reported through early 2026, with input from CGA/GGA, member agencies, and project proponents

Questions?

Additional Slides

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Estimated Change in Groundwater Storage and Overdraft

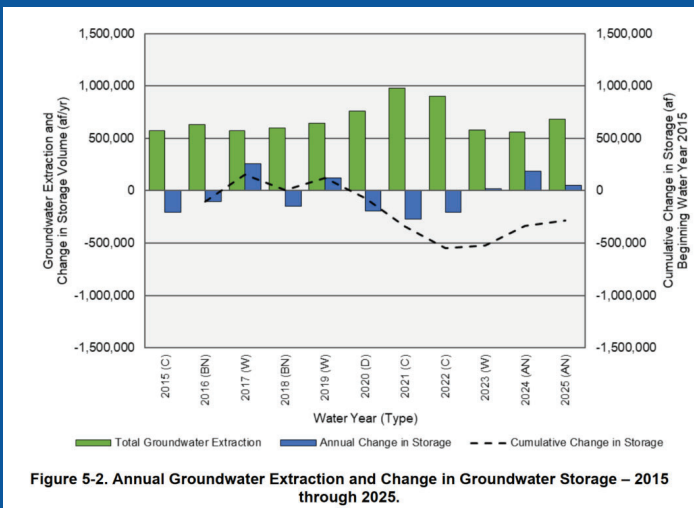


Table 5-1. Estimated Change in Groundwater Storage in the Primary Aquifer and Overdraft – Spring 2015 through Spring 2025.

Analysis Time Period	Annual Change in Groundwater Storage ^{1,2} (taf)	Cumulative Change in Groundwater Storage since Spring 2015-2016 (taf)	Calculation Method
Spring 2015-2016	-106	-106	Estimated based on spring-to-spring changes in groundwater levels at RMS wells and a representative aquifer storage coefficient.
Spring 2016-2017	+259	153	
Spring 2017-2018	-149	4	
Spring 2018-2019	+119	123	
Spring 2019-2020	-196	-73	
Spring 2020-2021	-268	-341	
Spring 2021-2022	-204	-545	
Spring 2022-2023	+20	-525	
Spring 2023-2024	+188	-337	
Spring 2024-2025	+51	-286	
Overdraft ² (5-year Average)	43		
Overdraft ² (10-year Average)	29		

DRAFT



Staff Report

To: CGA-GGA Joint Board

Agenda Item: 5. Groundwater Demand Management Program Development

a. Receive update from staff, consultant team, and ad hoc committee members.

b. Receive recommendations from CGA/GGA Joint Groundwater Demand Management Ad Hoc Committee and discuss to reach a consensus on next steps.

Date: April 10, 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.

Davids Engineering prepared the attached draft presentation to provide updates on the ad hoc committees' progress and receive direction and/or concurrence from the GSAs on program development. The ad hoc committees met April 9, 2026 (after posting the meeting materials); and therefore, the content provided in the presentation may be altered to account for these recent discussions.

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. Receive recommendations from CGA/GGA Joint Groundwater Demand Management Ad Hoc Committee and discuss to reach a consensus on next steps.
3. Provide direction to staff, consulting team, legal counsel, and or committees as needed.

Attachments

- Presentation: Groundwater Demand Management (GDM) Joint Board Update (Draft)

Groundwater Demand Management (GDM) Joint Board Update

April 10, 2026



DRAFT Subject to Revision

GDM Ad Hoc Meetings

- 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
 - Note: This meeting was yesterday, so some of this content may be updated based on the outcomes from this meeting.

Outline

- GDM MOU in Revised 2024 GSP
- Prior GDM Recommendations Made to the Joint Boards (7)
- New/Edited GDM Recommendations for the Joint Boards (3)
- GDM Triggers and Actions

GDM MOU in Revised 2024 GSP

GDM MOU - Necessary Program Measures

- **Voluntary measures** (immediate implementation in 2027)
 - Conservation and agronomic best practices
 - Increased use of surface water in-lieu of pumping
 - Dry farming or fallowing (non-transfer related)
 - Multi-benefit land repurposing (habitat, recharge, solar, etc.)
 - Incentivizing land-use changes that reduce groundwater use
- **Adaptive mandatory measures** (develop, but implement as needed)
 - Consumptive use restrictions
 - Well extraction limits
 - Water markets/trading and/or penalties and fee structures
- **Funding and financing**
 - Agreement to fund the GDM Program on an annual basis

Prior GDM Recommendations Made to the Joint Boards (6)

Groundwater Demand Management Program Development - GDM Ad Hoc Recommendations

- Recommendation 1: Regardless of supply side actions, the subbasin needs to develop an accounting system to fulfill the commitment to DWR to develop a GDM program.
- Recommendation 2: A single consistent water accounting methodology and system for the entire subbasin is needed.
- Recommendation 3: This accounting system needs the flexibility to potentially handle different spatial scales (large groupings of land vs. individual fields/parcels, etc.).

Groundwater Demand Management Program Development - GDM Ad Hoc Recommendations

- Recommendation 4: The preferred measurement method for evapotranspiration of applied groundwater (ETAGW) is remote sensing with certified totalizing flowmeters as an option.
- Recommendation 5: Certified totalizing applied groundwater (AGW) flowmeters will be used as an option at the landowner's expense if: (1) landowners prefer flowmeters over remote sensing or (2) if applied surface water (ASW) is not measured with sufficient volumetric or spatial accuracy.

Groundwater Demand Management Program Development - GDM Ad Hoc Recommendations


- Recommendation 7: Water accounting should be implemented in a phased manner with a pilot phase including provision of data to landowners as soon as possible (e.g., providing draft groundwater consumption/extraction data to growers in 2025/2026).

New/Edited GDM Recommendations for the Joint Boards (3)

Potential Draft GDM Recommendation(s) to the Joint Boards - Draft and Subject to Revision

- Recommendation 6 (edited): Publicly available evapotranspiration (ET) data should initially be used for water accounting within the Colusa Subbasin. If these data are found to be insufficient for the purposes of administering the GDM program, the CGA and GGA collectively may need to invest as much as \$500,000 / YR for remotely sensed ET data across the entire Colusa Subbasin.
- Recommendation X (new): A successful GDM program will require clear triggers and GDM actions for the relevant sustainability indicators.
- Recommendation X (new): Groundwater accounting data should be shared with landowners as soon as possible and in an information-only manner in advance of the data being used for any regulatory or financial purposes.

GDM Triggers and Actions

Sustainability Indicators	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
Groundwater Levels/Storage	Water Accounting System (WAS) And Voluntary Measures and PMAs while Maximizing State/Federal Investments	 <p>What GDM Stepping Stones In Between are Necessary to Mitigate Overdraft and Avoid Undesirable Results???</p>				Undesirable Result(s) in the Subbasin	Most Robust Adaptive Mandatory Measures to Mitigate Overdraft	State (SWRCB) Intervention
Subsidence								
GDM Outreach and Education								

Sustainability Indicators	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
Groundwater Levels/Storage	Water Accounting System (WAS) And Voluntary Measures and PMAs while Maximizing State/Federal Investments	Wells Below MTs	Projects to address these Triggers	Primary questions for actions: <u>1. How to you fund the required actions?</u> <u>2. Where do you focus the investment?</u>		Undesirable Result(s) in the Subbasin	Most Robust Adaptive Mandatory Measures to Mitigate Overdraft	State (SWRCB) Intervention
Subsidence		Or Subsidence						
GDM Outreach and Education								

Questions and Discussion

Colusa Joint Board GDM Update

Slide 15

DRAFT Subject to Revision



April 10, 2026