

# Tehama Groundwater Sustainability Agency

## 2026 FEE REPORT

APRIL 2026



**Lohdorff &  
Scalmanini**  
Consulting Engineers

GREG CLUMPNER, FEE CONSULTANT

FINAL REPORT | APRIL 2026

# FINAL 2026 GROUNDWATER FEE REPORT

PREPARED FOR

TEHAMA COUNTY GROUNDWATER  
SUSTAINABILITY AGENCY



**TEHAMA COUNTY**  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

GREG CLUMPNER, FEE CONSULTANT



**Luhdorff &  
Scalmanini**  
Consulting Engineers

# ACKNOWLEDGEMENTS

## TEHAMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

### LIST OF DIRECTORS

#### **Tom Walker**

Director – Chairperson  
Term Expiration: January 2029

#### **Greg Jones**

Director – Vice Chair  
Term Expiration: January 2029

#### **Matt Hansen**

Director  
Term Expiration: January 2027

#### **Robert Burroughs**

Director  
Term Expiration: January 2029

#### **Steven Zane**

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Term Expiration: January 2027

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**Consultant Support:** Luhdorff and Scalmanini Consulting Engineers (LSCE)

## FEE REPORT PREFACE

The Tehama Groundwater Sustainability Agency commissioned this fee report to evaluate alternative fee methodologies to develop a fee that will support the ongoing annual operation costs of its regulatory program authorized by the Sustainable Groundwater Management Act (SGMA). The analyses, opinions, and findings contained within this report are based on primary data collected through interviews and research, as well as many sources of secondary data available as of the date of this report. While it is believed that the secondary sources of information are accurate, this is not guaranteed. Updates to the information used in this report could change or invalidate the findings contained herein.

Every reasonable effort has been made to ensure the data contained in this report reflects the most accurate and timely information available when this report was written. No responsibility is assumed for inaccuracies in reporting by Tehama GSA, its consultants and representatives, or any other data source used in the preparation of this report. No warranty or representation is made that any of the projected values or results contained in this report will be achieved. There typically are differences between forecasted or projected results and actual results due to changes in events and circumstances, and the collection of additional data after the fees are in place.

Changes in economic and social conditions due to events, including but not limited to major recessions, availability of water resources due to droughts, major environmental problems, or disasters that could negatively affect operations, expenses, and revenues, may affect the result of the findings in this report. In addition, other factors not considered in the report may influence actual results.

The fee report consultant team that prepared this report includes:

Greg Clumpner, Fee Consultant  
Luhdorff and Scalmanini Consulting Engineers

Special thanks to the Tehama GSA staff, Groundwater Commission, landowners, and stakeholders who helped inform the development of the Tehama GSA 2026 Fee Report

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## LIST OF ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
AF	acre-feet (generally equivalent to 325,851 gallons)
APNs	Assessor’s parcel numbers
Budget	Five-Year Annual Budget.
County	County of Tehama
CPI	Consumer Price Index
DACs	Disadvantaged Communities
DWR	California Department of Water Resources
CY	Calendar Year
FY	Fiscal Year
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
JPA	Joint Powers Agreement/Authority
LAFCO	Local Agency Formation Commission
MOU	Memorandum of Understanding
SGMA	Sustainable Groundwater Management Act (2014)
Subbasin	DWR delineated alluvial groundwater areas in Tehama GSA boundary
SWRCB	State Water Resources Control Board
Tehama GSA	Tehama Groundwater Sustainability Agency
TM	Technical Memorandum



## 1. EXECUTIVE SUMMARY

### 1.1. Introduction

The Tehama Groundwater Sustainability Agency (Tehama GSA or Agency) was created in 2017 by resolution to serve as the primary groundwater management agency that provides groundwater management in the Tehama Subbasins pursuant to the Sustainable Groundwater Management Act (SGMA) of 2014 (see **Appendix A**). The Tehama GSA oversees groundwater management for all subbasins located in Tehama County, including urban areas such as the cities of Corning, Tehama, and Red Bluff, surrounding agricultural and resource-based lands, with major waterways such as Elder and Thomes Creeks and Sacramento River, Proberta and Corning Water Districts, and Thomes Creek Water Users Association. The Tehama GSA is governed by the Tehama County Flood Control and Water Conservation District Board of Directors and supported by the Groundwater Commission. **Figure 1** on the following page illustrates the Tehama GSA’s jurisdictional boundaries.

SGMA provides for the local management of groundwater by mandating that all groundwater basins in the State of California achieve sustainability. Bulletin 118 Final Update 2025, circulated by the California Department of Water Resources (DWR), identifies the groundwater basins and subbasins to be managed and designates their priority status. DWR designated the Corning and Antelope as high-priority basins, Red Bluff and Los Molinos as medium-priority basins, and Bowman, Bend, and South Battle Creek as low-priority basins. High- and medium-sized subbasins must be managed under a groundwater sustainability plan (GSP). Pursuant to this requirement and potential risks in Bowman, the Tehama GSA prepared and submitted five GSPs to DWR in 2022, with revised GSPs receiving DWR approval in April 2024.

SGMA defines sustainable groundwater management as the management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results<sup>1</sup>. The six undesirable results are:

1. Chronic lowering of groundwater levels,
2. Significant and unreasonable reduction of groundwater storage,
3. Significant and unreasonable seawater intrusion,
4. Significant and unreasonable degradation of water quality,
5. Significant and unreasonable land subsidence, and
6. Surface water depletions that have significant and unreasonable adverse impacts on beneficial uses of surface water.

The GSPs address each of these undesirable results as they pertain to the Tehama GSA Subbasins and provide a plan for the sustainability of groundwater in the Tehama GSA service area. Each year, the Tehama GSA submits its annual reports to DWR on or before April 1 to report on groundwater conditions and GSP implementation status over the prior water year<sup>2</sup>. The Tehama GSA works to ensure groundwater sustainability to support urban and rural communities, agricultural land uses, and environmental uses now and in the future.

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<sup>1</sup> Water Code 10721

<sup>2</sup> The water year runs from October 1 through September 30





The GSA needs sufficient revenues to cover essential operating expenses, staff support, fund feasibility and special studies, and address data gaps that improve its understanding of the Tehama GSA groundwater subbasins. Revenues also support monitoring activities, the preparation of annual reports, and periodic evaluations as required by SGMA. By funding these SGMA-required activities with a groundwater fee, the Tehama GSA ensures compliance with State law while maintaining local control over groundwater management. Keeping decision-making local while providing direct benefit for the Tehama GSA subbasins is the preferred SGMA compliance approach. Landowners in the Tehama GSA jurisdiction benefit from sustainable groundwater management activities funded by the proposed fees, which are essential for protecting the long-term health of the groundwater subbasins, a condition vital to the prosperity and security of all groundwater users who rely on it for urban, rural, agricultural, and environmental benefits.

The Tehama GSA has the authority to charge fees, conduct investigations, register wells, require reporting, and take other actions to sustainably manage groundwater resources for subbasins within the Tehama GSA service area. GSAs may be funded as provided in Chapter 8 of SGMA (commencing with section 10730 of the Water Code). Water Code Sections 10730, 10730.1, and 10730.2 set forth the authority for the Tehama GSA to establish and charge fees. The SGMA fee described in this report is being adopted pursuant to these authorities. The fee covers “reasonable costs” of the SGMA regulatory program. The fee is proportional and related to the benefits of the program. An example of a local annual fee is included herein (see **Appendix C**).

Goals of the fee study are:

1. Establish and secure a local fee that the Tehama GSA can adopt with confidence and support from interested parties and stakeholders.
2. Provide a fee structure that generates sufficient revenue to support the financial obligations and budget needs of the GSA to perform the duties required of it under SGMA and groundwater sustainability criteria.
3. Ensure the fee is based on current, reliable data and reflects only the reasonable costs of Tehama GSA’s groundwater management services.
4. Notify customers in advance of considering fee approval (see **Appendix D**).
5. Adopt a fee structure that is economically and easily administered, charged, and collected.

A key tenet in developing the fee has been to maintain transparency throughout the project, informing the Tehama GSA fee payors about the fee study, opportunities for involvement, and how to provide input to the process. The Tehama GSA’s proposed fee was developed using two key pillars of information that were constructed through the fee study process:

- (1) Encouraging stakeholders and public input on who should be charged based on the most reasonable fee structure options, and (2) Using best available and reliable data upon which to estimate the benefits received by Tehama GSA services each year. Recent fee outreach information is included herein (see **Appendix E**).



This report documents the methodology, public outreach conducted, and Fiscal Year (FY) 26-27 Tehama GSA calculated and proposed fees.

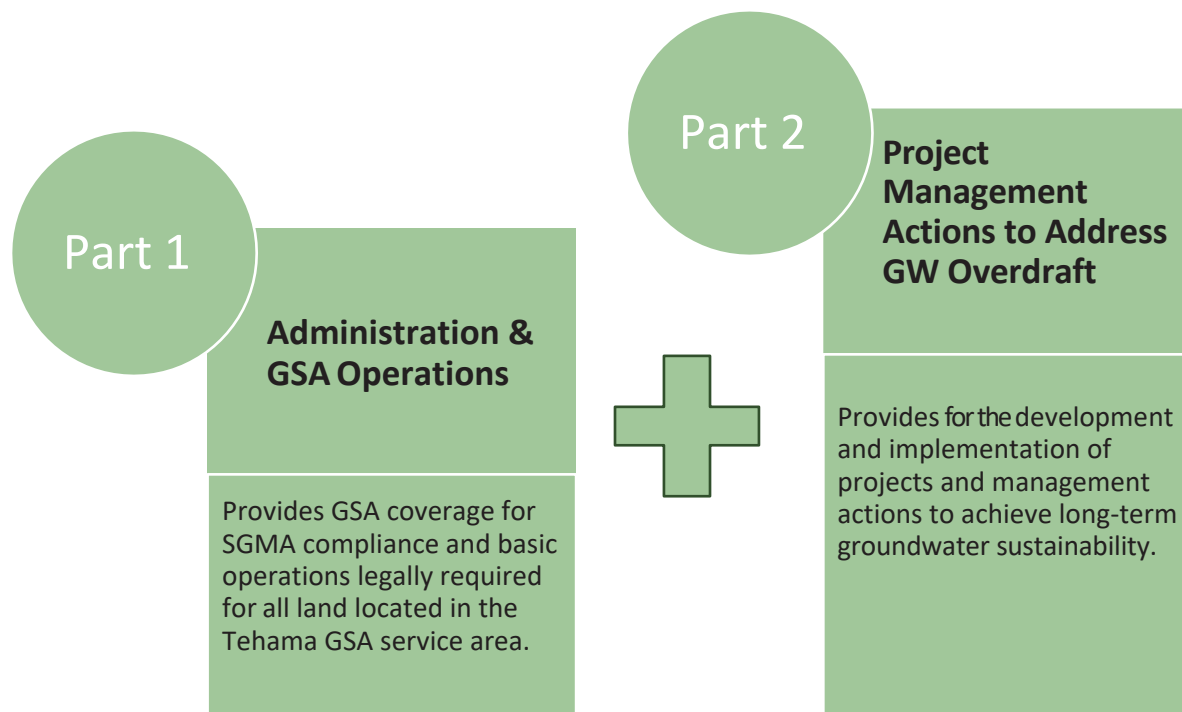
### 1.2.1. Tehama GSA Board of Directors Approval

The 2026 Fee Report was approved by the Board of Directors (Board) by resolution at the April 2026 Board Meeting with fee approval by resolution at the June 2026 Board Meeting. The Fee Report approval enables the Board to consider approving the fees by resolution at the June 2026 Board Meeting to adopt maximum fees and establish recommended FY26-27 fees. The Tehama GSA anticipates adopting a fee resolution each year, not exceeding maximum fees, to establish the applicable annual fees and place the fees calculated for each Assessor’s parcel on the tax roll. The applicable fee will be adjusted each year as necessary to raise sufficient revenues by either applying the change in a price index (annual Consumer Price Index (up to 3% per year) as published by the Bureau of Labor Statistics is recommended), and/or applying an increase not to exceed the maximum fee amount required to fund the GSA’s next fiscal year budget including prudent reserves. The Tehama GSA shall periodically review the fee structure and revise the fee study when changes are necessary.

## 1.3. Fee Structure

### 1.3.1. Fee Structure

The Tehama GSA fee structure is divided into two parts based on the different services the Tehama GSA provides and are needed to address long-term groundwater overdraft conditions.





## Part 1 Fee: GSA Administration and Basic GSA Operations

The Part 1 fee funds represent the minimum cost of having a GSA in place, which is a legal requirement for managed subbasins under SGMA, including the Tehama GSA Corning, Red Bluff, Los Molinos, Antelope, and Bowman subbasins. These five (5) subbasin prepare annual reports submitted to DWR and prepare Groundwater sustainability Plans that are updated every five years.

Part 1 Fee Service Provided: Maintaining a functioning GSA, performing all the basic legal requirements that SGMA requires of a GSA in a high-priority basins.

The Part 1 Fee covers the following cost items:

**GSA Administration** – Staff, legal support, financial reporting, and operational costs necessary to run the agency.

**Board of Directors Meetings & Public Oversight** – Ensuring local governance, stakeholder engagement, and decision-making authority.

**Minimum SGMA Compliance Requirements** – Covering only what is required to keep the GSA in existence and recognized by the State of California.

Why the Part 2 PMA Fee Applies Only to Ag Users in Over drafted Subbasins:

- Ag uses most of the total groundwater use in over-drafted subbasins, meaning that Ag users are the primary cause of overdraft conditions to be mitigated, as it relates to understanding and management of how groundwater is used in Tehama GSA subbasins.
- Ag users would be responsible for funding PMA actions that support the long-term sustainability of groundwater as a resource, which directly benefits groundwater users and the ability to achieve long-term availability of a sustainable groundwater subbasin.
- Ag users would be responsible for funding PMA actions that support long term sustainability of groundwater based on estimated water use with lands requiring higher water amounts paying a more substantial cost share than those who do not benefit from PMA actions in the same way extractors do because their use of groundwater, if any, is minimal (e.g. stock watering for rangeland example).

Why This Two-Part Fee Structure is Necessary

- Ensures the GSA fees are reasonably related to services provided – Part 1 keeps all lands within the regulated subbasins SGMA compliant.
- Aligns cost with service – Part 2 ensures Ag pays for PMAs, resulting in sustainable groundwater management.

The Part 2 PMA fee is determined by subbasin condition and groundwater user type. Groundwater users subject to PMA fees have been grouped into three categories.



**Water User Type:** Agricultural users only who extract groundwater for crop irrigation. The fee is charged per cropped acre and use factor, where a cropped acre is identified using UC Extension and DWR published water use factors.

**Subbasin:** Subbasins with overdraft conditions. The PMA fee applies only to Ag users in the three (3) designated subbasins with overdraft conditions: Corning, Red Bluff, and Los Molinos. Urban residential, rural residential, and commercial water users located within these subbasins would not be subject to the PMA portion of the proposed fees. Each parcel subject to the PMA fee would pay based on its acreage and crop type, with a water use factor based on the approved PMA fee (\$/acre-foot/year).

**Low Water Users:** Ag lands with minimal or no groundwater use, such as grazing land and vacant parcels, would have a \$0 Part 2 fee as long as a well registration form is submitted to the GSA and approved as a registered parcel.

The Part 1 and Part 2 fees are added together to determine the total fee charged to each Assessor's parcel. The fees will be collected from every parcel through the property tax bill, unless the property owner does not receive a property tax bill, in which case the GSA will 'hand bill'<sup>3</sup>. The fee is directly to the landowner.

## 1.4. Calculated Fy 26-27 Fees

The proposed fee applies to all parcels of land in Tehama GSA's jurisdiction unless the parcel is:

- Exempt pursuant to SGMA. This includes federal properties and properties held in trust by the federal government for tribes, or
- Unusable as determined using Tehama County Assessor data. These parcels are not charged because the land can never be developed due to geographical features, such as a lake, or the parcel has insufficient data available upon which to charge the fee. These parcels are identified as having land use codes that have not been assigned a taxability code, per the Tehama County Assessor.
- Other Exemptions may apply, including a number of excluded land use zoning codes, such as timberland, water features, native, riparian, barren, and idle. Any other exemptions will be described in the June 2026 Board meeting packet documentation as part of the process to consider approval of the proposed fees.

**Table 1** presents the proposed Part 1 and Part 2 fees for FY26-27. The Part 1 fee is for Ag, commercial, and residential water use in managed subbasins. The Part 2 fee is for Ag-only water use in subbasins with overdraft conditions. As noted in the table, a parcel may be subject to more than one type of fee. Only Ag users within subbasins with overdraft conditions would be subject to the Part 2 fees based on crop type

<sup>3</sup> 'Hand bill' is the term used for sending an invoice directly to the property owners. Examples include the Chico Unified School District, Butte College, California State University, the California Department of Fish and Wildlife properties, and the Union Pacific Railroad Company.



and acreage. Fees for non-registered well owners may be higher based on assumed fees. Well registration forms are due to the County by June 30, 2026, to calculate more accurate user fees.

Table 1. FY 26-27 Tehama GSA Proposed Fees Calculation of Estimated GSP Operations and PMA Fees					
Fee Alternative	Subbasins	Annual Cost	Basis of Fee	AF/Yr. or Parcels <sup>4</sup>	Estimated Annual Fee <sup>5</sup>
GSP Operations	All Managed <sup>1</sup>	\$1,178,000	Water Use (AF/Yr)	440,366 AF/Yr	\$2.70/Af/Yr
PMA Fee	Overdrafted <sup>2</sup>	\$728,000	Water Use (AF/Yr)	375,899 AF/Yr	\$2.00/AF/Yr
Combined Fee	Overdrafted <sup>3</sup>	\$1,906,000	Water Use (AF/Yr)	375,899 AF/Yr	\$4.70/AF/Yr
<ol style="list-style-type: none"> <li>1. Managed Subbasins are Antelope, Bowman, Corning, Los Molinos, and Red Bluff. Urban water use (in AF/Acre) is based on County zoning/APN data for all managed subbasins (zoning codes R-1 – SCSP).</li> <li>2. Overdraft Subbasins are Corning, Los Molinos, and Red Bluff. Only Ag Parces are included.</li> <li>3. Overdrafted subbasins ag parcels pay the combined fee; Antelope and Bowman parcels only pay the GSP Operations Fee.</li> <li>4. Estimated based on crop acreages from Tehama GSA Annual Reports and water use by crop type per LSCE Technical Memo dated Nov. 19, 2025</li> <li>5. An additional fee of \$1.99 per parcel will be added for the cost to the Assessor’s Office of placing the combined charge on each parcel.</li> </ol>					

**Definition of Acreage Subject to the GSA Fees.** Land that is identified in Tehama County’s Assessor’s Parcel Number (APN) data with additional GIS information for subbasin identification (excludes floodplain, timber, natural resource, water, urban, native, and riparian land uses and unclassified parcels).

## 2. FEE STUDY PROCESS

### 2.1. Fee Authority

Tehama GSA’s fee authority is derived from the SGMA-specific legislation codified in Water Code 10730 through 10731 “Financial Authority.” This section of the Water Code allows the Agency to impose fees for regulated activities, including but not limited to permits to operate wells, the costs of a groundwater sustainability program, such as development and amendment of a GSP, investigations, inspections, compliance assistance, enforcement, and program administration, including a prudent reserve.

The SGMA fee must be no more than necessary to cover the reasonable costs of the governmental activity, and the manner by which the costs are allocated to a payor must bear a fair or reasonable relationship to the payor’s burden on, or benefits received from, the governmental activity.

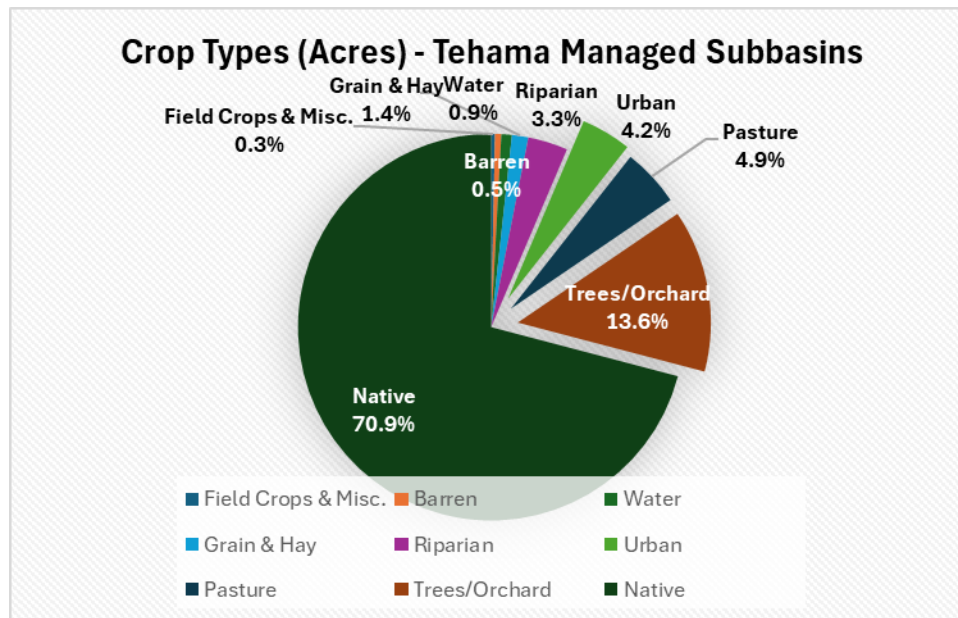


## 2.2. Tehama GSA Groundwater Stewardship

The Tehama GSA is responsible for sustainably managing the groundwater in the subbasins to the benefit of all beneficial uses and users. Beneficiaries include individuals, businesses, and government agencies, including the State of California. Beneficiaries may also include wildlife, riparian habitat, and other environmental users of groundwater and surface water sources, which are interconnected to groundwater. Landowners in the Tehama GSA service area are beneficiaries because these lands benefit from Tehama GSA’s existence and groundwater management activities. Uses of land protected by Tehama GSA’s stewardship of groundwater resources of the Tehama GSA service area are summarized in **Figure 2**.

The Tehama GSA is monitoring and evaluating groundwater resources, as required by SGMA, to continually improve its hydrological model as environmental conditions change. Groundwater resources need to be protected, monitored, and managed to ensure a stable supply of groundwater in the Tehama GSA service area. Properties may use groundwater supplied by a public water system, a domestic well, a commercial production well, or an irrigation well, or they may be passive users of groundwater. Residential, commercial, industrial, institutional, and other domestic users of water are 100% groundwater dependent in the Tehama GSA service area.

Agriculture predominantly uses groundwater; however, some surface water is utilized near the larger creeks that drain to the Sacramento River, as well as surface water used through the CVP Project Tehama Colusa Canal system. Grazing and dry farming generally depend on precipitation and springs for water resources; some of these lands use a minimal amount of groundwater for stock water. Ag parcels that have filed an approved well registration application to the County, verifying no groundwater use, would not be subject to the PMA fee.

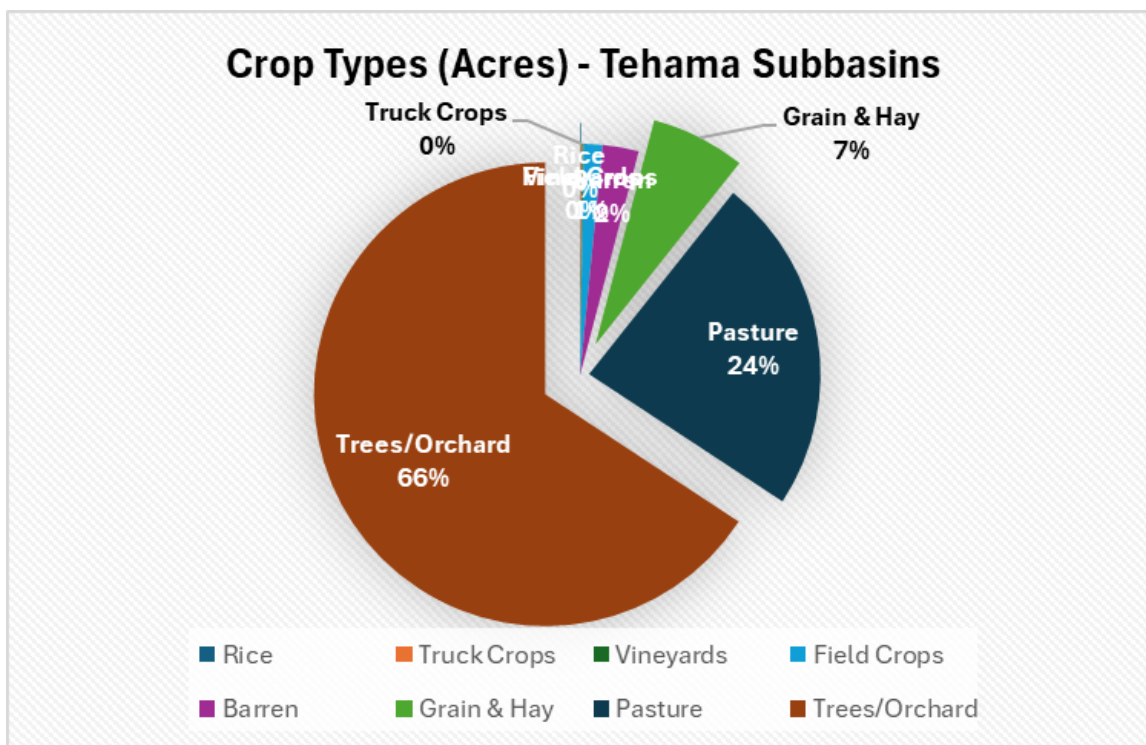


Source: County Assessor APN Data

**Figure 2. County Assessor’s APN Data by Zoning Codes – Lands Benefiting from Tehama GSA Groundwater Management**



Tehama Subbasin’s land use characteristics indicate that most of the Tehama County subbasins are non-ag lands that, while benefiting generally from groundwater management, are not direct beneficiaries of sustainable groundwater management in the Tehama Subbasins. However, the PMA fee directly benefits ag parcels in the over-drafted subbasins, and data shows that about 20% of the County’s land use is in active agricultural production that would benefit directly from the PMA (as well as the GSA Operations) fees. **Figure 3** shows the share of crops grown in the Tehama GSA’s jurisdiction by crop category.



**Figure 3. Tehama County GSA Crops Grown (Five Managed Subbasins)**

### 2.3. Groundwater Use Estimates

The estimate of Tehama GSA groundwater use is based on the County’s APN data, zoning codes, estimated acreage, and typical water use factors for crop types in the County. **Appendix F** provides a more detailed description of the data sources and fee calculation procedures used to estimate annual water use by parcel in the five managed and the three over-drafted subbasins addressed by the GSA Operations and PMA fees.

**Table 2** summarizes the estimated water use by subbasin for both the over-drafted and managed subbasins, including results for ag-only parcels in over-drafted subbasins and combined ag and residential parcels. The average volume (in AF/Acre/Year) for the Ag Parcels Only is the weighted average of all crop types, excluding urban and non-ag land use types.



**Table 2. Tehama County Estimated Annual Water Use by Subbasin (AF/Year)**

Managed Subbasin	Acreage by Subbasin			Average % Urban Land	Average Vol. (AF/Acre/Year <sup>2</sup> )	AF/Year <sup>3</sup>
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average			
<b>Overdrafted Subbasins – Ag Parcels Only</b>						
Corning	61,207	63,649	62,428	N/A	3.33	207,723
Los Molinos	15,987	16,406	16,196	N/A	3.71	60,097
Red Bluff	30,727	33,975	32,351	N/A	3.34	108,079
<b>Subtotal – Overdrafted</b>	107,921	114,029	110,975	N/A	3.39	375,899
<b>Overdrafted &amp; Managed Subbasins – Ag and Residential Parcels<sup>4</sup></b>						
Corning	70,405	70,273	70,339	11.2%	N/A	213,656
Los Molinos	19,130	18,094	18,612	13.0%	N/A	61,909
Red Bluff	46,374	44,088	45,231	28.5%	N/A	117,739
<b>Subtotal – Overdrafted</b>	135,909	132,455	134,182	17.3%	N/A	393,304
Antelope	10,591	9,914	10,252	21.9%	N/A	29,090
Bowman	9,781	7,362	8,571	55.0%	N/A	17,973
<b>Subtotal – Other Managed</b>	20,372	17,276	18,824	42.0%	N/A	47,062
<b>Total – All Subbasins</b>	156,280.5	149,730.7	153,005.6	19.7%	N/A	440,366

1. Source: Tehama GSA Annual Reports.
2. Average water use per crop type is from Table 1, TM – Technical Foundations of Safe Yield, Sustainable Yield, and Groundwater Demand Management in Tehama County, Nov. 19, 2025. Excludes non-Ag parcels and those assumed to have no water use.
3. Urban AF/Acre based on County zoning/PN data for all managed subbasins (zoning codes R-1, SCSF).
  - a. For overdraft subbasins, total water use (AF/Yr.) is 96% Ag, which is total Ag Only AF/Yr. divided by Ag & Residential AF/Yr.
4. Assumes Urban Residential (including commercial) water use is 0.75 AF/Acre/Year. Source: Table 1 of Nov. 19, 2025 TM.

This table identifies several categories of subbasin water use and provides the basis for calculating the GSA fee alternatives:

- Ag-Only Parcels for Over-drafted subbasins
- Ag and Residential Parcels for Over-drafted subbasins
- Ag and Residential Parcels for combined Over-drafted and Managed Subbasins



This data indicates that the percentages of estimated water use compared to total water use in all the managed subbasins is as follows:

- Over-drafted Ag-Only subbasins = 85 percent of the total (375,899 AF ÷ by 440,366 AF).
- Over-drafted Ag and Residential = 89 percent of the total (393,304 AF ÷ by 440,366 AF).

**Table 3** shows the estimated urban water use as a percentage of the total water use in the over-drafted subbasins. These data reflect only Ag parcels and those included in urban zoning designations and indicate that less than five percent of estimated water use in the over-drafted subbasins is attributed to urban users.

Table 3. Estimated Urban Water Use in Tehama Subbasins					
Overdraft Subbasin	Average Acreage	Estimated Water Use (AF/Year)			Urban as % of Total AF
		Ag Only	Urban Only	Total AF	
Corning	62,428	207,723	5,933	213,656	2.8%
Los Molinos	16,196	60,097	1,812	61,909	2.9%
Red Bluff	32,351	108,079	9,660	117,739	8.2%
<i>Subtotal - Overdrafted</i>	<i>110,975</i>	<i>375,899</i>	<i>17,405</i>	<i>393,304</i>	<i>4.4%</i>

## 2.4. Fee Structure Development

The fee structure was developed using two key pillars of information that were constructed through the fee study process:

1. Stakeholders and public input on who should be charged, and the most reasonable fee structure, and
2. Available reliable data upon which to estimate the benefits received by Tehama GSA services each year.

### 2.4.1. Stakeholder and Public Input

Outreach to the general public and stakeholders served as one of the fundamental components of establishing a reasonable, equitable, and legally defensible fee structure. Key principles included transparency, inclusion, and recognition of the diversity of groundwater users in the Tehama GSA subbasins, as well as economic, environmental, and social considerations. Outreach goals, objectives, and considerations were identified through implementation of a comprehensive outreach and engagement plan, which was reviewed by GSA staff, Board, Groundwater Commission, ad-hoc committees, and placed on the Tehama GSA website.

Below is a summary of how the public was invited to be involved and provide input into the process. Additionally, the public had opportunities to participate and provide input at Tehama GSA Board



meetings, Groundwater Commission (GWC) meetings, and public workshops when the fee topic and options were on the agenda and discussed in a very detailed deliberate manner. Public Workshops were held in March and November of 2024, December 2025, and April 2026 with all supporting documentation available on the Tehama GSA website for easy access. The fee options were discussed at the March 2026 Board and GWC meeting agendas, the recommended fee options discussed at the April GWC meeting, and Fee Report approved at the April 2026 Board meeting. The Fee Report was made available on the Tehama GSA website along with all public meeting agendas, handouts, and presentations. The Tehama GSA also reminded well owners in the county to register their wells by June 30, 2026, so that the proposed fees could be applied to reflect the best available information for each parcel to ensure equitable billing during fee implementation. A fee notice was mailed to all water users subject to the fee in May 2026 to inform customers regarding the proposed fees and provide the date and location of the public hearing and Board meeting where fee approval would be considered. Customers are provided with the opportunity to provide a protest form to the Board for their review prior to the closing of the public hearing.

## Stakeholder Survey

A survey was distributed in 2025 regarding demand management and related topics regarding fees to assess customer concerns and ideas for implementing programs with positive impacts, including:

- 110 Responses Received
- Customers were interested in reasonable fees
- Consider equity and how water is used
- Provide transparency on fee collection and spending
- Prefer annual budget and fee review process

## Public Workshops

Public Workshops were held in March, November (2024), December (2025), and April (2026) as key GSP implementation, SGMA compliance, and fee issues were discussed. Agendas, handouts, surveys, and presentations were made available to stakeholders who attended through the GSA website. Information is included in **Appendix E** with examples of outreach materials used for these activities.

## Online Information

The Tehama GSA provided information on the well registration program and the importance of registering wells before new proposed fees are implemented to ensure equitable billing based on updated information. The GSA also encouraged domestic well owners to participate in the Community Monitoring Program, where domestic well owners can install monitoring equipment and track their water levels during all water year types. The data would be available to well owners based on real-time data tracking and graphic visualization. The GSA will continue outreach to increase participation in both programs during the FY26-27 period and beyond. Social media and cross-listing on websites provided additional



avenues to encourage participation and postings on face book to broaden outreach activities and saturation.

## GSA-Staff Led Meetings

The Tehama GSA Manager worked collaboratively with various stakeholders within Tehama County and with surrounding counties. There were monthly Board and Commission meetings, regular DWR coordination meetings, and meetings with landowners and RCD staff to expand outreach activities by providing GSP and SGMA project updates to a variety of groups and organizations such as:

- Meetings with stakeholders in all subbasins within Tehama GSA service area
- Meetings with Ad-hoc Committees
- Meetings with RCD and Farm Bureau
- Public Meetings
- Meetings with surrounding GSAs – Shasta, Glenn, Butte counties
- GSA Board
- Groundwater Commission
- Landowners
- DWR

GSA staff also attended Grower’s Days and supported various RCD outreach activities for landowners and water users in the region. Fees were discussed at an RCD landowner workshop in March 2026.

### ***2.4.2. Data Sources to Estimate Benefits Received***

The process for fee evaluation and development should rely upon the best available data at the time the fee is developed. The fee proposal herein relies on the best available data sources as of the time of this fee study report. Data sources used to develop the fee include:

- Tehama County Assessor Parcel Database,
- The Tehama Subbasin GSPs (2022 and 2024),
- Tehama Subbasin Annual Reports (WY2021-2025),
- UC Extension estimates of average crop water use by crop type <sup>4</sup>
- LSCE estimates of commercial water use based on the City of Corning and City of Red Bluff annual water use for commercial accounts<sup>5</sup>
- DWR 2022 crop mapping (<https://data.cnra.ca.gov/dataset/statewide-crop-mapping>).

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<sup>4</sup> Average water use per crop type is from Table 1, TM - Technical Foundations for Safe Yield, Sustainable Yield, and Groundwater Demand Management in Tehama County, Nov. 19, 2025, p. 10.

<sup>5</sup> Average water use, commercial accounts, from Table 3, TM - Technical Foundations for Safe Yield, Sustainable Yield, and Groundwater Demand Management in Tehama County, Nov. 19, 2025, p. 12.



- Tehama County Well Registration Program (<https://tehamacountywater.org/well-registration/>)

A Geographic Information System (GIS) platform<sup>6</sup> was used to create a web map application from which to conduct data queries and establish the necessary data for the fee database. The determination of fee-paying parcels and the acreage of those parcels is shown in **Table 4**.

Table 4. Tehama Subbasin Number of Parcels and Acres Summary of Parcel Data and Estimated Annual Water Use – Overdrafted Subbasins Only					
Zoning Codes	Description	APN Data (LSCE)			Estimated Annual Volume <sup>2</sup> (AF/Yr)
		APN Parcels <sup>1</sup>	LSCE Acres <sup>2</sup>	Average Ac/Parcel	
AG-1 – AG-4	Agricultural Parcels	6,761	413,774	61.2	1,428,565
C-1 – M-2-S-P	Commercial and Industrial Parcels	8,636	24,716	2.9	34,774
R-1 - SCSP	Residential Parcels	9,124	42,797	4.69	8,230
Totals or Average		24,521	481,286	19.6	1,471,569
Totals/Average (After Deducting Exemptions and Exclusions)		24,285	475,678	19.6	1,471,569
1. From LSCE file: Assesor_Roll_GIS\$ 2. Volume in AF/year based on total acres for non-residential and total parcels for residential					

## Combining Data, Outreach, and Legal Considerations to Develop a Fee Structure

Data limitations, including those caused by a lack of groundwater extraction measuring devices, influence which fee structures are feasible. Several fee structure options, including registered wells, per-parcel county-wide, and system connection-based fees, were considered but not selected due to either the lack of available data or preferences by the District Board for fees based on estimated annual water use for ag parcels. Although the over-drafted subbasins are designated as “high-priority” and “medium-priority” basins, respectively, the Tehama GSA has limited registered well data to date, does not meter agricultural wells, and has a currently limited well-pumping database.

- Wellhead and extraction fees were not supported due to data limitations, such as not having complete records of the number, characteristics of, and location of wells.
- A fee per water system connection was explored for domestic users (including those served by a water system and those with a private well), but this fee structure option was hampered by insufficient data from small water systems and private well users.

The fee structure options used estimated annual water use for subbasin parcels and a parcel-based fee structure. The water use-based fee alternatives relied on APN zoning types and acreages from the Assessor’s Office and estimated annual water use in acre-feet per acre by crop type. The parcel-based fee structure used the Assessor’s APN parcel data by subbasin.



## Stakeholder Input

The Board directed staff and consultants at its December 2025 meeting to obtain input from the community and stakeholders in the fee structure development process, with a focus on reviewing four (4) priority fee options. Two to recover the costs for operating the GSA and achieving SGMA compliance. And two options to recover PMA costs required to address groundwater overdraft conditions.

Key conclusions and direction received from the Board included:

- The two-part fee structure fits the services provided to beneficiaries of Tehama GSA's activities.
- Four (4) specified fee options, two for GSA costs and two for PMA costs, will be evaluated and used as the basis for selecting a recommended fee.
- All parcels (unless Exempt or Unusable) must be charged because these parcels receive the same Part 1 services from the Tehama GSA. Additionally, if a Part 1 fee was based on a parcel, the Board supported a flat fee per parcel.
- Part 2 service costs should be allocated to Ag only water users of groundwater based on annual estimates of Ag groundwater pumping as described in the annual reports prepared for DWR.
- Cropped acres should be charged a crop fee based on estimated crop water use for fee options using water use as a factor.
- Cropped acreage should be identified using completed and submitted well registration reports submitted to the GSA by June 30, 2026. It will be cross-referenced with cropped acres from the GSA Annual Reports and the County Annual Crop Report. The SHAC acknowledged that data could be updated in the future should a better source become available for Tehama GSA's use.
- The Board and Groundwater Commission were presented with two options for charging Ag only users in over-drafted subbasins the Part 2 fee: (1) full recovery of the recommended PMA budget (\$1.0M/year)<sup>6</sup> based on estimated annual water per crop, and (2) partial recovery of the recommended PMA budget (\$0.728M) based on estimated annual water use per crop. Ag only users would pay 100% of the PMA option costs based on their estimated water use factors, best reflecting the benefit received for Part 2 PMA services.
- The Board recommendation was to include the partial PMA budget option for FY26-27 fees until final decisions have been made about demand management actions and corresponding costs. Future fees may be adjusted up to the maximum amount to fund PMA costs that improve groundwater sustainability in the over-drafted subbasin.

**Appendix E** of this report provides key public outreach materials and workshop summaries, and information supporting the Tehama GSA 2026 fee development process.

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<sup>6</sup> The Groundwater Commission and subsequently the Tehama County Flood Control and Water Conservation District Board modified the original full-recovery budget from \$1.395M/year to a maximum of \$1.0M/year. This maximum is shown from here on in this report.



## 3. FEE CALCULATION

### 3.1. Cost Basis of Fee

The cost basis of the fee comprises the Tehama GSA's operations costs and a prudent reserve. Operating expenses include GSA staffing, legal counsel, general office expenses, audits, fee placement on the tax roll, annual reporting and monitoring to DWR, periodic evaluations of the GSP, and various other regulatory activities. The costs are described as Part 1 or Part 2 costs based on the different services that the Tehama GSA provides.

**Part 1 Fee Service Provided:** Maintaining a functioning GSA and performing all basic legal requirements that SGMA requires of a GSA in a high-priority basin.

**Part 1 Fee: Governance & GSA Operations** – Providing GSA coverage and basic operation of the GSA, which is legally required for all land located in the Tehama GSA subbasins. The Part 1 fee funds the minimum cost of having a GSA in place, which is a legal requirement for land included in high- and medium-priority subbasins under SGMA, including the subbasins in the Tehama GSA service area. This fee covers:

- **GSA Administration** – Staff, legal support, financial reporting, and operational costs necessary to run the GSA administration and operations.
- **Board of Directors Meetings & Public Oversight** – Ensuring local governance, stakeholder engagement, and decision-making authority and function.
- **Minimum SGMA Compliance Requirements** – Covering only what is required to keep the GSA in existence and recognized by the State of California as SGMA compliant.

**Part 2 Fee Service Provided:** Project Management Actions (PMA) that address overdraft conditions and sustainable groundwater management, ensuring long-term groundwater availability.

**Part 2 Fee: PMAs & Sustainable Groundwater Management** – Providing the development of projects, management actions, and implementation of projects and actions that achieve long-term groundwater sustainability. This fee covers:

- **Supply/Recharge Actions** – Planning, design, and implementation of supply-related actions that increase supply availability and improve groundwater sustainability in over-drafted subbasins.
- **Demand Management Actions** – Planning, design, and implementation of demand-related actions that improve groundwater conditions and sustainability trends.
- **GSP Implementation** – Activities identified in the Groundwater Sustainability Plan (GSP) to achieve long-term sustainability to address overdraft conditions.
- **Stakeholder Engagement & Outreach** – Working with groundwater users to ensure SGMA compliance and PMA implementation educate the public on sustainability efforts.



## FY26 Cost Basis

**Table 5** shows the cost basis for setting the FY26-27 fee. The recovery of the cost basis between Part 1 and Part 2 is based on the 5-year forecast of costs as further described in the next section of this report.

Table 5. FY26-27 Fee Setting Cost by Part					
Fee Alternative	Funding (\$/Year)	APN Data Alternative	Fee	Ag Only	Ag, Residential, Commercial
1. GSA Oper. Fee	\$1.178 M	All Subbasins	\$/AF/Yr		<b>X</b>
2. GSA Oper. Fee	\$1.178 M	All Parcels	\$/Parcel/Yr		<b>X</b>
3. PMA Fee	\$1.395 M (reduced to \$1M) (Maximum Funding Level)	Overdraft Subbasins	\$/AF/Yr	<b>X</b>	
4. PMA Fee	\$0.728 M (Recommended FY26-27 Funding Level)	Overdraft Subbasins	\$/AF/Yr	<b>X</b>	

**Table 6** shows the five-year costs forecast in real (inflated) dollars with a FY26/27 starting budget of \$1,178,000, escalating to \$1,269,000 by FY30/31 using a 1.5% annual CPI adjustment example.



**Table 6. Tehama County Groundwater Sustainability Agency Budget Forecast**

Tehama County Groundwater Sustainability Agency Budget Forecast					
EXHIBIT "A"					
FIVE YEAR TEHAMA GSA BUDGET					
Inflation Adjustment Factor - 3% Recommended		1.5% Assumed	1.5% Assumed	1.5% Assumed	1.5% Assumed
Category	Proposed	Proposed	Proposed	Proposed	Proposed
OPERATING EXPENSES	FY26/27	FY27/28	FY28/29	FY29/30	FY30/31
Legal Services					
General Legal Support	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
<b>Total Legal Services</b>	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
Technical Services					
Fee Process	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
Special Studies/Consultant Support	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
<b>Total Technical Services</b>	\$37,000	\$37,000	\$37,000	\$37,000	\$37,000
Administrative Services					
Administration and Management (0.75 FTE)	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000
Administrative Support (0.5 FTE)	\$51,000	\$51,000	\$51,000	\$51,000	\$51,000
District Overhead	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000
Audits	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Outreach Materials/Printing & Copying	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Postage	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Website Development/Maintenance	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
Financial Services/Banking/Bookkeeping	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
<b>Total Administrative Services</b>	\$289,000	\$289,000	\$289,000	\$289,000	\$289,000
<b>OPERATING EXPENSES SUBTOTAL</b>	\$381,000	\$381,000	\$381,000	\$381,000	\$381,000
Operating Expenses Reserve (10%)	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
<b>TOTAL OPERATION EXPENSES</b>	\$419,000	\$419,000	\$419,000	\$419,000	\$419,000
<b>SGMA COMPLIANCE EXPENSES</b>					
GSP Annual Monitoring/Reporting	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000
GSA Sub-basin Coordination	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
GSP Periodic Evaluation/Amendments (at 5 Year Int.)	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
Monitoring/Data Management	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
GSP Implementation Grant Funding	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
<b>SGMA COMPLIANCE EXPENSES SUBTOTAL</b>	\$690,000	\$690,000	\$690,000	\$690,000	\$690,000
SGMA Compliance Expenses Reserve (10%)	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000
<b>TOTAL SGMA COMPLIANCE EXPENSES</b>	\$759,000	\$759,000	\$759,000	\$759,000	\$759,000
<b>TOTAL ANNUAL BUDGET</b>	\$1,178,000	\$1,200,770	\$1,223,540	\$1,246,310	\$1,269,080

Table 7 shows the projected project management activities budgets, with a beginning budget in FY26/27 of \$1,000,000, escalating with annual CPI increases through FY30/31.



**Table 7. Tehama County Groundwater Sustainability Budget Forecast – Five Year GSA Budget – PMA Program Costs**

Tehama County Groundwater Sustainability Agency Budget Forecast					
EXHIBIT "A"					
FIVE YEAR TEHAMA GSA BUDGET - PMA Program Costs					
Category	Proposed	Proposed	Proposed	Proposed	Proposed
	FY26/27	FY27/28	FY28/29	FY29/30	FY30/31
<b>PMA EXPENSES</b>					
<b>Demand Management Program</b>					
Admin. Process	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Voluntary Incentive Program	\$433,333	\$433,333	\$433,333	\$433,333	\$433,333
<b>Total DM Program Costs</b>	<b>\$468,333</b>	<b>\$468,333</b>	<b>\$468,333</b>	<b>\$468,333</b>	<b>\$468,333</b>
<b>Demand Management Cost Basis</b>					
Total Annual Overdraft (C, RB, LM)	65,000	65,000	65,000	65,000	65,000
Incentive Cost/Ac-Ft	\$200	\$200	\$200	\$200	\$200
Annual Adjustment Factor (2042)	7%	7%	7%	7%	7%
Annual Adjustment Factor (50%)	50%	50%	50%	50%	50%
<b>Total Voluntary Incentive Costs</b>	<b>\$433,333</b>	<b>\$433,333</b>	<b>\$433,333</b>	<b>\$433,333</b>	<b>\$433,333</b>
<b>Well Mitigation Program</b>					
Admin. Process	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Well Replacement Costs	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
<b>Total WM Program Costs</b>	<b>\$60,000</b>	<b>\$60,000</b>	<b>\$60,000</b>	<b>\$60,000</b>	<b>\$60,000</b>
<b>Well Mitigation Cost Basis</b>					
Avg. Cost/Domestic Well Replaced	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
# Wells Replaced/Year	1	1	1	1	1
<b>Total Annual Well Mitigation Costs</b>	<b>\$40,000</b>	<b>\$40,000</b>	<b>\$40,000</b>	<b>\$40,000</b>	<b>\$40,000</b>
<b>TOTAL PMA EXPENSES</b>	<b>\$528,333.33</b>	<b>\$528,333.33</b>	<b>\$528,333.33</b>	<b>\$528,333.33</b>	<b>\$528,333.33</b>
<b>Total PMA Costs-Water Purchases</b>					
	<b>FY26/27</b>	<b>FY27/28</b>	<b>FY28/29</b>	<b>FY29/30</b>	<b>FY30/31</b>
Total Annual Overdraft (C, RB, LM)	65,000	65,000	65,000	65,000	65,000
Project Cost/Ac-Ft	\$400	\$400	\$400	\$400	\$400
Annual Adjustment Factor (2042)	4%	4%	4%	4%	4%
Annual Adjustment Factor (50%)	50%	50%	50%	50%	50%
<b>Total PMA Costs-Water Purchases</b>	<b>\$471,666</b>	<b>\$471,666</b>	<b>\$471,666</b>	<b>\$471,666</b>	<b>\$471,666</b>
<b>TOTAL PMA COSTS</b>	<b>\$1,000,000</b>	<b>\$1,018,638</b>	<b>\$1,037,276</b>	<b>\$1,055,913</b>	<b>\$1,074,552</b>

### 3.2. Fee Calculations

There are three steps to calculating the FY26 fee schedule.

**Step 1:** Determine the Part 1 and Part 2 costs (the fee calculation numerators)

- Update the fiscal year Part 1 and Part 2 cost basis using the estimated budget for the following year and the forecast of costs and revenues for the following four years.

**Step 2:** Determine the Part 1 and Part 2 fee units, which are the fee calculation denominators

- Calculate total estimated annual water use and number of parcels by subbasin for the Part 1 fee.
- Calculate the total number of acres in agricultural production for the Part 2 fee.
- Calculate the estimated annual water use by subbasin for Ag only parcels for the Part 2 fee.

**Step 3:** Perform the fee calculations.

- Divide the Step 1 numerators for each part by the Step 2 denominators for each part.



The fee calculation steps are described in detail below.

**Step 1: Determine the Part 1 and Part 2 Costs**

Every year the Tehama GSA will update the 5-year financial forecast using the adopted budget and the estimate of costs for the following four years (i.e., the projected costs previously shown in **Tables 6 and 7**).

**Step 2: Determine the Part 1 and Part 2 Fee Units**

Part 1 fees will be charged to all parcels except Exempt and Unusable parcels based on the number of fee-paying parcels in the Tehama GSA’s boundaries. Part 2 fees will be charged based on the number of acres in agricultural production, excluding urban and exempt or excluded parcels. **Table 8** describes the fee units in greater detail.

Table 8. Calculation of GSA Operations and PMA Fees by Alternative					
Fee Alternative	Area or Subbasins	Annual Cost	Basis of Fee	AF/YR or Parcels <sup>3</sup>	Estimated Annual Fee
GSA Operations	All Managed <sup>1</sup>	\$1,178,000	Water Use (AF/Yr.)	440,366 AF/Yr.	\$2.70 /AF/Yr.
GSA Operations	District-Wide	\$1,178,000	Managed Subbasin <sup>2</sup>	38,673 Parcels	\$30.50/Parcel/Yr.
PMA Fee	Overdrafted <sup>5</sup>	\$1,000,000	Water Use (AF/Yr.)	375,899 AF/Yr.	\$2.70 /AF/Yr.
PMA Fee	Overdrafted <sup>5</sup>	\$728,000	Water Use (AF/Yr.)	375,899 AF/Yr.	\$2.00 /AF/Yr.

1. Managed subbasins are Antelope, Bowman, Corning, Los Molinos, and Red Bluff.
2. Exclusions include Zoning designations of Natural Resource (NR), Floodplain (FP), and Timber (TPZ).
3. Estimated based on crop acreages from Tehama GSA Annual Reports and water use by crop type per LSCE Technical Memo dated Nov. 19, 2025.  
For the 2. GSP Oper. Alt., urban water use (in AF/Acre) is based on County zoning/APN data for zoning codes R-1 - SCSP.
4. Reflects the Ag total AF/Yr. divided by Total AF/Yr. for all parcels and the total Ag parcels (10,588) divided by the total of all parcels (38,673).
5. Overdraft subbasins are Corning, Los Molinos, and Red Bluff. Only Ag parcels are included.

For the first fee alternative, the estimated water use in the five managed subbasins is 440,366 AF/year, as shown in **Table 8**. For the second fee alternative, there are a total of 38,673 Assessor parcels in the Tehama GSA boundaries that would be subject to the parcel fee. For the third and fourth PMA fee alternatives, the 375,899 AF/year shown in **Table 8** is for Ag-only parcels for the three over-drafted subbasins.



The selected fee alternatives are alternatives 1 and 4, which are based on estimated annual water use for both ag and residential parcels in the five managed subbasins (Alternative 1) and for the Ag-only parcels in the three over-drafted subbasins.

There is also an administrative fee of \$1.99 per parcel per year that would be added to the annual fees to cover the cost of adding the fee to the annual tax bill. **Table 9** summarizes the total GSA fees and shows the Assessor’s fee.

Table 9. Proposed FY26-27 GSP Operations and PMA Fees Collection of GSA Operations and PMA Fees					
GSA Fee	Subbasins	Fee \$/AF/Yr.	Annual Water Use (AF/Yr)	Estimated Annual Revenue	Billing Fee <sup>3</sup> (\$/Parcel/Yr)
1. GSA Operations	All Managed <sup>1</sup>	\$2.70	440,366	\$1,178,000	\$1.99
4.PMA Fee	Overdrafted <sup>2</sup>	\$2.00	375,899	\$728,000	\$0.00
<i>Combined Fee</i>	--	<i>\$4.70</i>	--	<i>\$1,906,000</i>	<i>\$1.99</i>
<ol style="list-style-type: none"> <li>1. Includes the five managed subbasins: Antelope, Bowman, Corning, Los Molinos, and Red Bluff. Applies to agricultural, residential, and commercial parcels.</li> <li>2. Overdraft subbasins are Corning, Los Molinos, and Red Bluff. Only Ag parcels are included.</li> <li>3. The billing fee only applies to parcels once, when the GSP Operations fee is placed on the Assessor's tax role, not a second time for the PMA fee.</li> </ol>					

### 3.3. Fee Collection

The Tehama SGMA fee will be collected by placing it on the property tax roll by the Tehama County Auditor-Controller and collected by the Tehama County Treasurer-Tax Collector<sup>10</sup>. Tehama County adopted the Teeter Plan, which guarantees payment of the full amount of the fees that are charged, with the County pursuing any unpaid fees. Fee revenues will be disbursed generally to the Tehama GSA in December (55%), April (40%), and June or July (5%).

Properties not assessed on the property tax roll include parcels zoned as timber, floodplain, natural resource, native vegetation, riparian vegetation, barren, idle, and water parcels. There have been no ‘hand-billed’ arrangements between third parties subject to the fees that would result in direct payment from the parcel owner(s) and GSA, versus collecting fees on the property tax bill. Under such arrangements, an agreement would be required between the parties specifying the terms of payment (including amount and timing) whereby the Tehama GSA would directly “hand bill” these properties. Before any such arrangements could be implemented, an agreement would need to be prepared and approved by the GSA Board. At this time, 100% of total revenue will be collected via property tax assessment, as demonstrated in **Table 10**.



Table 10. Fee Collection by Part Summary of GSA Operations and PMA Fees				
Fee Alternative	Subbasins	Annual Cost	Fee \$/AF/Yr.	Billing Fee <sup>3</sup> (\$/Parcel/yr)
1. GSA Operations	All Managed <sup>1</sup>	\$1,178,000	\$2.70	\$1.99
4. PMA Fee	Overdrafted <sup>2</sup>	\$728,000	\$2.00	N.A.
<i>Combined Fee</i>	<i>Overdrafted</i>	<i>\$1,906,000</i>	<i>\$4.70</i>	--
1. Includes the five managed subbasins: Antelope, Bowman, Corning, Los Molinos and Red Bluff. Applies to ag, residential and commercial parcels. 2. Overdraft subbasins are Corning, Los Molinos and Red Bluff. Only Ag parcels are included. 3. The billing fee only applies to parcels once, when the GSP Operations fee is placed on the Assessor's tax role, not a second time for the PMA fee.				

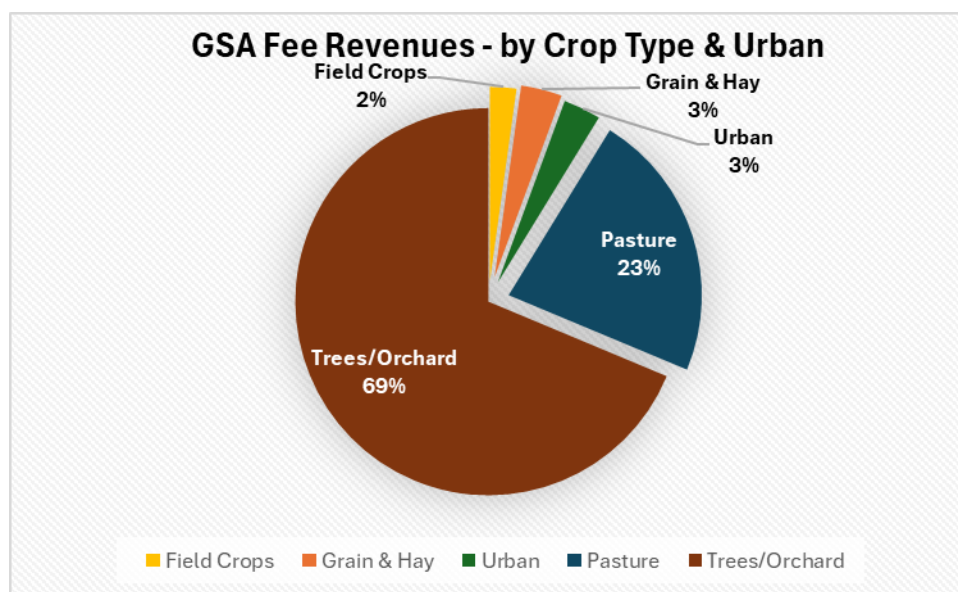
Parcels in the Antelope and Bowman subbasins will pay only the Part 1 GSP Operations fee, while the Corning, Los Molinos, and Red Bluff subbasins will pay both the Part 1 GSP Operations Fee and the Part 2 PMA fee. **Table 11** shows the fee collection by subbasin.

Note: Fee totals in **Table 11** do not show the additional \$1.99/parcel for the Billing Fee, as this is a small charge added to only the GSP Operations fee. That is, the over-drafted subbasins paying the PMA fee will have already paid the Billing Fee when their GSP Operations fee is placed on their tax bill.

The fee calculations and data sources are summarized in **Appendix F**.

Table 11. Fee Collection by Subbasin Collection of GSA Operations and PMA Fees by Subbasin					
GSA Fee	Subbasins				
	Antelope	Bowman	Corning	Los Molinos	Red Bluff
1. GSA Operations <sup>1</sup>	\$2.70	\$2.70	\$2.70	\$2.70	\$2.70
4. PMA Fee	--	--	\$2.00	\$2.00	\$2.00
<i>Combined Fee</i>	<i>\$2.70</i>	<i>\$2.70</i>	<i>\$4.70</i>	<i>\$4.70</i>	<i>\$4.70</i>
1. The Billing fee of \$1.99/parcel/year is charged only once, when the GSP Operations fee is placed on the Assessor's tax role, not a second time for the PMA fee					

**Figure 4** shows the percentage of revenue collected by crop type plus urban zoned parcels. As shown here, Trees/Orchard and Pasture together account for over 90% of the total GSA fee revenue. Note that the urban parcels are only subject to the GSP Operations fee, not the PMA Fee which is only applied to Ag parcels in the over-drafted subbasins.



Source: Revenues based on Tehama County APN database and water use estimates shown in previous tables.

**Figure 4. GSA Revenue Collection by Crop Type plus Urban Parcels – Tehama County**

### 3.4. Fee Examples

The FY26-27 SGMA fees were calculated for several different types of properties for demonstrable purposes only. **Table 12** shows the annual charges calculated for Ag, commercial, and residential parcels for the GSA Operations Fee and provides estimated typical annual bills. This Table assumes that residential properties would be charged the typical water use per connection (i.e., the AF/Parcel is capped and not based on the number of acres of each residential property), as shown in **Table 12**. In contrast, commercial and Ag properties assume that fees are calculated using the typical water use per acre times the actual acreage times the GSP fee of \$2.70/AF/Acre. The Small and Large Ag examples shown use the typical water use per parcel of 140 and 688 AF/Parcel, respectively.

**Table 13** shows similar calculations for the PMA Fee along with typical fees, which apply only to Ag parcels. The typical customers used as examples in these tables are based on APN data and estimated annual water use and represent typical parcel sizes for each customer type. **Appendix F** provides more details on the data sources and calculation methodology used to calculate these fees.



**Table 12. Typical Customer GSA Operations Fees: Estimated Annual GSA Operations Fee - Typical Fees Based on Annual Water Use**

Typical Customer Type	Typical Acreage Per Parcel <sup>1</sup>	Typical Water Use (AF/Conn., AF/Ac or AF/Parcel) <sup>2</sup>	Managed Basins - Ag, Resid., Comm.		
			GSA Fee <sup>3</sup>	Billing Fee <sup>4</sup>	Total \$/Parcel
<b>Estimated Annual GSP Operations Fee - Recommended Funding Level (\$1.178 M)</b>					
Typical Urban Residential - Managed Subbasins	0.6	0.75 AF/Conn.	<b>\$2.03</b>	\$1.99	\$4.02
Typical Rural Residential - Managed Subbasins	2.3	1.25 AF/Conn.	<b>\$3.38</b>	\$1.99	\$5.37
Commercial - Managed Subbasins	3.3	3.65 AF/Acre	<b>\$32.52</b>	\$1.99	\$34.51
Typical Small Ag (AG-2) - Managed Subbasins	40.0	140 AF/Parcel	<b>\$378.00</b>	\$1.99	\$379.99
Typical Large Ag (AG-1) - Managed Subbasins	200.0	688 AF/Parcel	<b>\$1,857.60</b>	\$1.99	\$1,859.59
<i>GSA Operations Fee Based on Water Use (\$/AF/Yr)</i>			<i>\$2.70</i>		
<ol style="list-style-type: none"> <li>1. Typical parcel size based on APN data for the five managed basins. Urban Residential are all parcels zoned R-1; Rural Residential are zoned RE(xx) and SCSP; Commercial are zones C-1 - M2SP; Small Ag are zoned AG-1; and Large Ag are zoned AG-2.</li> <li>2. Typical water use estimated by water use (AF/Yr.) divided by total parcels in each typical customer type. Based on the County's APN data.</li> <li>3. GSP Operations Fee for Residential is Typical Water Use (AF/Connection) times the GSA Fee (\$/AF/Acre). For Commercial and Ag, the fee is the typical water use (AF/Ac) times the acreage times the GSA Fee (\$/AF/Yr.). Commercial/Ag examples use the Typical Water Use shown here.</li> <li>4. Estimated cost to add a new fee to each parcel's tax bill.</li> </ol>					



Table 13. Typical Customer PMA Fees					
Estimated Annual PMA Fee - Typical Fees Based on Annual Water Use					
Typical Customer Type	Typical Acreage Per Parcel <sup>1</sup>	Typical Water Use (AF/Parcel/Yr.) <sup>2</sup>	Overdrafted Basins - Ag, Resid., Comm.		
			PMA Fee <sup>3</sup>	Billing Fee <sup>4</sup>	Total \$/Parcel
<b>Estimated Annual PMA Fee - Minimum Recovery Level (\$0.728 M)</b>					
Typical Small Ag (AG-2) - Overdraft Subbasins	40.0	140.0	\$280.00	\$0.00	\$280.00
Typical Large Ag (AG-1) - Overdraft Subbasins	200.0	688.0	\$1,376.00	\$0.00	\$1,376.00
<i>PMA Fee Based on Water Use (\$/AF/Yr)</i>			\$2.00		
<ol style="list-style-type: none"> <li>1. Typical parcel size based on APN data for the five managed basins. Urban Residential are all parcels zoned R-1; Rural Residential are zoned RE(xx) and SCSP; Commercial are zones C-1 - M2SP; Small Ag are zoned AG-1; and Large Ag are zoned AG-2.</li> <li>2. Typical water use estimated by water use (AF/Yr.) divided by total parcels in each typical customer type. Based on the County's APN data.</li> <li>3. PMA Fee Based on Water Use (AF/Parcel/Yr) times the Fee (\$/AF/Yr)</li> <li>4. Estimated cost to add a new fee to each parcel's tax bill. Only charged once (on the GSA Operations Fee).</li> </ol>					

## 4. FEE IMPLEMENTATION

### 4.1. Fee Adoption

To adopt the proposed fees, the Tehama GSA Board must hold at least one public meeting. Prior to the public meeting to adopt the proposed fees, notice will be provided as follows:

- (1) Publicize at least 45 days ahead of the meeting, (2) post notice on the Tehama GSA's website, and (3) send a fee notice by mail to those subject to the fee, which would include a form to comment or protest regarding the Tehama GSA's proposed fees to be implemented in FY26-27.
- (2) The notice will include time and place of meeting, general explanation of the item, and a statement that the data upon which the proposed fee is based is available (this must be made available to the public at least 45 days prior to the meeting).

The specific fee must be set each year to place the fees on the tax roll, regardless of whether the fee amounts change or not. The fee should be adjusted each year as necessary to raise sufficient revenues by one of the following methods:

- (1) Applying the change in a price index (up to a 3% change in the Consumer Price Index published by the Bureau of Labor Statistics is recommended), or
- (2) Applying a (maximum, up to) set percentage increase (e.g., 4%), or



- (3) Estimating costs required to fund the GSA’s next fiscal year budget, plus an amount for prudent reserves. The GSA is committed to annual budget and fee reviews as reflected in the fee resolution.

The SGMA legislation provides GSAs with the authority to establish fees to support local management and control of their groundwater resources, and the District has the authority to levy groundwater fees as a special district to ensure that groundwater resources are sustainable in the long term for all water users within the Tehama GSA service area. After adopting the fee, the Tehama GSA must continue with the following actions to implement the fees for FY26-27, and each fiscal year thereafter:

- (1) Per Water Code 10730, the Tehama GSA shall implement groundwater fees that are reasonable and support beneficial use of groundwater resources in the Tehama GSA service area while achieving SGMA compliance for landowners within subbasins within the GSA service area that file annual reports and GSPs with the California Department of Water Resources.
- (2) The Tehama GSA shall maintain updated groundwater ordinances and policies (see **Appendix G**) that support implementation of approved Tehama GSA fees and provide the Tehama County Auditor-Controller all required documentation authorizing placement of the fees on the property tax roll by August 10, 2026 and shall provide the list of Assessor Parcel Numbers and fee amounts to be placed on the FY26-27 roll no later than the date specified by the Tehama County Auditor-Controller (usually around August 10th).

## 4.2. Corrections

The Tehama GSA will develop a policy for landowners to provide corrected information if any of the fees are based on incorrect data or data that has changed since the fees were implemented.

The Tehama GSA will work with property owners to correct any incorrect data. The process of correcting information will require communication with both landowners and the County assessor. During the correction process, property owners must pay the fee on the property tax bill during the current FY. Corrections reviewed and accepted by the Tehama GSA will be implemented on the upcoming FY property tax bill. Corrections that reduce or increase the amount of the fee due will be credited or debited on the subsequent year’s tax roll. If the Tehama GSA observes that particular parcel fees should be adjusted, a letter will be sent to the landowner about the proposed fee change before it is implemented on the upcoming FY property tax bill. The Tehama GSA will develop a policy that includes the methods by which annual groundwater fee adjustments will be implemented and the timing for such corrections.

# APPENDIX A

## Tehama GSA – Establishing Resolution/Agreements



## RESOLUTION NO. 05-2015

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TEHAMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ELECTING TO BE THE GROUNDWATER SUSTAINABILITY AGENCY FOR ALL THOSE PORTIONS OF THE ROSEWOOD, BOWMAN, SOUTH BATTLE CREEK, RED BLUFF, BEND, ANTELOPE, DYE CREEK, LOS MOLINOS, CORNING, VINA, AND COLUSA SUBBASINS LOCATED WITHIN TEHAMA COUNTY**

**WHEREAS**, the Legislature has adopted, and the Governor has signed into law, Senate Bills 1168 and 1319 and Assembly Bill 1739, known collectively as the Sustainable Groundwater Management Act of 2014; and

**WHEREAS**, the Sustainable Groundwater Management Act of 2014 went into effect on January 1, 2015; and

**WHEREAS**, the Sustainable Groundwater Management Act of 2014 enables the State Water Resources Control Board to intervene in groundwater basins unless a local public agency or combination of local public agencies form a Groundwater Sustainability Agency or Agencies (GSA) by June 30, 2017; and

**WHEREAS**, retaining local jurisdiction over water management and land use is essential to sustainably manage groundwater and to the vitality of Tehama County's economy, communities and environment, and

**WHEREAS**, any local public agency that has water supply, water management or land use responsibilities within a groundwater basin may elect to be the Groundwater Sustainability Agency for that basin; and

**WHEREAS**, the Tehama County Flood Control and Water Conservation District is a local public agency organized and existing under the Tehama County Flood Control and Water Conservation District Act (Statutes 1957, Chapter 1280; Water Code Appx., ch. 82); and

**WHEREAS**, under Section 3, subdivision (q) of said Act, the District is responsible for undertaking "any and every lawful act necessary to be done that sufficient water may be available for any present or future beneficial use or uses of lands or inhabitants within the district, including, but not limited to, the acquisition, storage, and distribution for irrigation, domestic, fire protection, municipal, commercial, industrial, recreational, and all other beneficial uses"; and

**WHEREAS**, under Section 3, subdivision (r) of said Act, the District is further authorized "to prevent interference with or diminution of, or to declare the rights in natural flow of any stream or surface or subterranean supply of waters used or useful for any purpose of the district or of common benefit to the lands within the district or to its inhabitants," and "to prevent unlawful exportation of water from the district," and "to prevent contamination, pollution, or otherwise rendering unfit for beneficial use, the surface or subsurface water used or useful in the district"; and

**WHEREAS**, the boundary and territory of the District are coextensive with the exterior boundaries of the County of Tehama; and

**WHEREAS**, the District overlies all those portions of the Rosewood, Bowman, South Battle Creek, Red Bluff, Bend, Antelope, Dye Creek, Los Molinos, Corning, Vina, and Colusa subbasins located within Tehama County; and

**WHEREAS**, Section 10723.2 of the Sustainable Groundwater Management Act of 2014 requires that a GSA consider the interests of all beneficial uses and users of groundwater, as well as those responsible for implementing groundwater sustainability plans; and

**WHEREAS**, Section 10723.8 of the Sustainable Groundwater Management Act of 2014 requires that a local agency electing to be a GSA notify the Department of Water Resources of its election and its intent to undertake sustainable groundwater management within a basin; and

**WHEREAS**, the District held a public hearing on this date after publication of notice pursuant to Government Code section 6066 to consider adoption of this Resolution; and

**WHEREAS**, it would be in the public interest of the people of Tehama County for the District to become the groundwater sustainability agency for all those portions of the Rosewood, Bowman, South Battle Creek, Red Bluff, Bend, Antelope, Dye Creek, Los Molinos, Corning, Vina, and Colusa subbasins located within Tehama County; and

**WHEREAS**, the District and other local public agencies have a long history of coordination and cooperation on water management; and

**WHEREAS**, it is the intent of the District to work cooperatively with other local agencies to manage the aforementioned groundwater basins in a sustainable fashion;

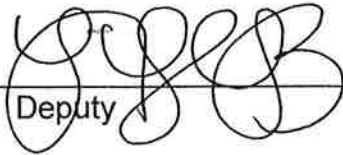
**NOW, THEREFORE, BE IT RESOLVED**, that the Tehama County Flood Control and Water Conservation District hereby elects to become the Groundwater Sustainability Agency for all those portions of the Rosewood (5-06.02), Bowman (5-06.01), South Battle Creek (5-06.06), Red Bluff (5-21.50), Bend (5-21.53), Antelope (5-21.54), Dye Creek (5-21.55), Los Molinos (5-21.56), Corning (5-21.51), Vina (5-21.57), and Colusa (5-21.52) subbasins located within Tehama County.

**BE IT FURTHER RESOLVED** that the proposed boundaries of the basins that the District intends to manage under the Sustainable Groundwater Management Act of 2014 shall be the entirety of the boundaries for the aforementioned subbasins, as set forth in California Department of Water Resources Bulletin 118 (updated in 2003), that lie within the County of Tehama; provided that the Executive Director is authorized and directed to evaluate whether basin boundaries should be adjusted in a manner that will improve the likelihood of achieving sustainable groundwater management, and communicate the results of that evaluation to the Board of Directors and the Department of Water Resources; and



DATED: This 3<sup>rd</sup> day of November, 2015.

JENNIFER A. VISE, County Clerk and ex-officio Clerk of the Board of Directors of the Tehama County Flood Control and Water Conservation District, State of California.

By  \_\_\_\_\_  
Deputy



**COUNTY OF TEHAMA**  
**DEPARTMENT OF PUBLIC WORKS**

9380 San Benito Avenue  
Gerber, CA 96035-9701  
(530) 385-1462  
(530) 385-1189 Fax

Road Commissioner  
Surveyor  
Engineer  
Public Transit  
Flood Control & Water  
Conservation District  
Sanitation District No. 1

November 4, 2015

F-15-032

Mark Nordberg, GSA Project Manager  
Sustainable Groundwater Management Section  
California Department of Water Resources  
P.O. Box 942836  
Sacramento, California 94236-0001

**Re: Notice of Intent to Become a Groundwater Sustainability Agency for all eleven (11)  
Groundwater Subbasins located within Tehama County.**

Dear Mr. Nordberg,

Pursuant to Water Code Section 10723.8, the Tehama County Flood Control and Water Conservation District (DISTRICT), hereby notifies the California Department of Water Resources (DWR) of its intent to become the Groundwater Sustainability Agency (GSA) for all portions of the eleven Groundwater Subbasins located within Tehama County (See Exhibit A). All applicable information in Water Code Section 10723.8(a) is provided in this notification. The DISTRICT intends to manage the following subbasins or portions of those subbasins located within the County:

- Rosewood (Subbasin number 5-6.02)
- Bowman (Subbasin number 5-6.01)
- South Battle Creek (Subbasin number 5-6.06)
- Red Bluff (Subbasin number 5-21.50)
- Bend (Subbasin number 5-21.53)
- Antelope (Subbasin number 5-21.54)
- Dye Creek (Subbasin number 5-21.55)
- Los Molinos (Subbasin number 5-21.56)
- Corning (Subbasin number 5-21.51)
- Vina (Subbasin number 5-21.57)
- Colusa (Subbasin number 5-21.52)

The Boundaries of the subbasins are as identified in Bulletin 118, Update 2003. Tehama County currently has 1 high priority subbasin: Vina; 7 medium priority subbasins: Bowman, Red Bluff, Antelope, Dye Creek, Los Molinos, Corning, and Colusa; and 3 low priority subbasins: Rosewood, South Battle Creek, and Bend. Although not required by the Sustainable Groundwater Management Act of 2014 (SGMA), the DISTRICT also proposes to become the GSA and complete a Groundwater

Sustainability Plan (GSP) for the 3 low priority subbasins in order to facilitate a holistic approach to managing groundwater in Tehama County. The DISTRICT is not aware of any other GSAs operating within the groundwater basins listed above.

The DISTRICT boundary is identified as the area included within the exterior boundary of the County of Tehama and further identified in the California Water Code Appendix 82-1. The DISTRICT was enacted in 1957 to provide for the control and conservation of flood and storm waters and the protection of watercourses, watersheds, public highways, life and property from damage or destruction from such waters; to provide for the acquisition, retention, and reclaiming of drainage, storm, flood, and other waters and to save, conserve, and distribute such waters for beneficial use in said DISTRICT; to authorize the incurring of indebtedness, the issuance of sale of bonds, and the levying and collection of tax assessments on property within said DISTRICT and in the respective zones thereof; to define the powers of said DISTRICT; to provide for the government, management, and operation of said DISTRICT and for the acquisition and construction of property and works to carry out the purposes of the DISTRICT. The DISTRICT Board of Directors is composed of members of the County Board of Supervisors, which are elected by Supervisorial District. The DISTRICT operates under authority of the Board of Directors with management and oversight delegated to the Tehama County Department of Public Works. The Public Works Director serves as the Executive Director of the DISTRICT. Additionally, no new bylaws, ordinances, or other authorities were adopted in conjunction with the establishment of the GSA.

The DISTRICT has been actively managing groundwater throughout the County for the past 20 years. The County first adopted a Groundwater Management Plan in 1996 and has recently updated this plan in 2012. This plan has been supported extensively throughout the County and will serve as the foundation for the GSP. The DISTRICT has also completed Technical Memorandums that include Basin Management Objectives, such as Groundwater Trigger Levels and Awareness Actions for each of the subbasins located within the County (2008); Countywide Water Inventory & Analysis (2003); Small Water Systems Drought Vulnerability Assessment (2005); Summary Report for Groundwater Recharge Area Location Study (2011), and participated in the California Statewide Groundwater Elevation Monitoring (CASGEM) program since 2010. The DISTRICT installed its first two multi-completion groundwater monitoring wells with assistance from DWR in 2004, and has since installed an additional six wells. The DISTRICT continues to monitor these wells several times a year uploading the data to the CASGEM database. These documents can be located on the DISTRICT website <http://www.tehamacountypublicworks.ca.gov/Flood/>. The DISTRICT also has an active Technical Advisory Committee (TAC) that reports to the DISTRICT Board which is comprised of representatives from Agriculture, Domestic/Industrial Water Providers, Natural Resources, and representatives from the cities of Corning, Red Bluff, and Tehama. This TAC meets at least quarterly and has helped review and provided comment on the previously mentioned documents.

The DISTRICT held a public hearing concerning the formation of the GSA on June 2, 2015. During this meeting several agencies expressed an interest in participating in the GSA governance structure. The DISTRICT developed a governance proposal (See Exhibit C) which included an eleven member Groundwater Commission (Commission) comprised of city and District representatives and other stakeholders. The commission will have broad responsibility for all aspects of GSP development and implementation, and will have decision-making authority regarding permits and enforcement

matters. Letters of support (See Exhibit D) for the proposed Governance Proposal have been received from the City of Corning, City of Red Bluff, City of Tehama, El Camino Irrigation District, and the Rio Alto Water District. These agencies which represent some of the larger groundwater pumpers within the County will have an established seat on the Commission along with the Los Molinos Community Services District. The additional 5 members of the Commission will represent each of the five County Supervisorial Districts, these representatives will be nominated by the seated Commission members and confirmed by the DISTRICT Board of Directors.

The DISTRICT caused notice of its election to serve as a GSA to be published in the Red Bluff *Daily News* on October 21 and 31 (See Exhibit E), as provided by Water Code Section 10723(b) and Government Code Section 6066. Courtesy copies of the notice were also emailed or mailed to:

- City of Red Bluff
- City of Corning
- City of Tehama
- Anderson Cottonwood Irrigation District
- Rio Alto Water District
- Thomes Creek Water District
- Corning Water District
- Deer Creek Irrigation District
- El Camino Irrigation District
- Gerber Las Flores Community Services District (CSD)
- Glenn-Colusa Irrigation District
- Los Molinos Mutual Water Company
- Proberta Water District
- Stanford Vina Ranch Irrigation District
- Paskenta CSD
- Kirkwood Water District
- Orland Unit Water Users Association
- Rancho Tehama Association
- Lake California Property Owners Association
- Mineral Water Company
- Red Bluff Tree Farm
- Golden Meadows Estates CSD
- Los Molinos CSD
- Reeds Creek Estates CSD
- Rio Ranch Estates CSD
- Paskenta Band of Nomlaki Indians
- Tehama Colusa Canal Authority
- Resource Conservation District of Tehama County
- Cattlemen's Association
- Cattlewomen's Association
- Shasta-Tehama Watershed Education Coalition
- Deer Creek Watershed Conservancy
- Mill Creek Watershed Conservancy
- Natural Resources Conservation Service
- California Department of Forestry and Fire Protection
- California Department Of Water Resources
- University of California Cooperative Extension
- Tehama County AB3030 Technical Advisory Committee Members
- Tehama County Board of Supervisors
- Tehama County Administration
- Tehama County, County Counsel
- Tehama County Public Works
- Tehama County Farm Bureau
- Tehama County Environmental health
- Tehama County Planning Department
- Tehama County Sherriff's Office
- Butte County
- Glenn County
- Shasta County

On November 3, 2015, the DISTRICT Board held a second public hearing concerning the formation of the GSA and unanimously approved Resolution No. 05-2015 (See Exhibit B), which directed DISTRICT Staff to complete and submit this Notice of Intent.

Pursuant to Water Code Section 10723.8(a)(4) the DISTRICT will consider the interest of all beneficial uses and users of groundwater, as well as those responsible for implementing GSPs. The Groundwater Commission described in Exhibit C, which the DISTRICT has committed to promptly establish, was carefully designed with stakeholder input to ensure that those parties listed in section 10723.2 have an active, long-term role in developing and implementing the GSP and GSA rules and regulations. In addition, the DISTRICT has communicated with parties interested in the sustainable management of groundwater in the subbasins, and will continue to solicit feedback from those parties as the plan is developed. These interests include, but are not limited to all of the following:

- **Holders of overlying groundwater rights:**
  - **Agricultural users:** The proposed GSA area contains a significant amount of agricultural users of groundwater. Some of the agricultural users get their water from the water/irrigation districts listed above, but a large portion of the independent pumpers do not have an organized association that represents them. The DISTRICT will perform outreach during GSP development with the assistance of the Tehama County Farm Bureau, the University of California Cooperative Extension, and the Resource Conservation District of Tehama County to reach this group.
  - **Domestic well owners:** A majority of the residents living within the proposed GSA area use groundwater to fulfill their domestic water needs. The DISTRICT will hold public meetings in several locations throughout the county during the GSP development process to gather input from this demographic. The DISTRICT will work with the Tehama County Environmental Health Department and the Community Action Partnership to assist with outreach to this group.
- **Municipal well operators:** The Cities of Corning, Red Bluff, and Tehama will have representatives on both the Groundwater Commission and the TAC. These three cities and their constituents are also directly represented by their Board of Directors members whose Supervisorial Districts overlay each city's jurisdictions. All three cities will have the opportunity to participate in the GSP development and in future actions taken by the Groundwater Commission.
- **Public water systems:** The DISTRICT provided courtesy notice of their intention to serve as the GSA to the Public Water Systems listed above, and will continue to communicate with and solicit feedback from these agencies as the GSP is developed.
- **Local land use planning agencies:**
  - **Butte County:** The proposed GSA boundary would split the Vina Subbasin which extends into Butte County. The DISTRICT has met with the Butte County Department of Water and Resource Conservation (BCDWRC), which is the agency most likely to become the GSA for the portion of the Vina Subbasin which lies outside Tehama County. The DISTRICT has coordinated with BCDWRC on

groundwater monitoring activities in the Vina Subbasin over the past 2 decades. Staff from both agencies have agreed to coordinate our efforts on managing the Vina Subbasin through a Memorandum of Understanding (MOU), Coordination Agreement, or similar type document, while each becoming a GSA and submitting a GSP for the portions of the subbasin located within their respective Counties. The District may submit for a Basin Boundary Adjustment to split the subbasin at the county line once DWR releases the regulations on Basin Boundary Adjustments in January 2016.

- Glenn County: The proposed GSA boundary would split both the Colusa and Corning Subbasins which extend into Glenn County. The DISTRICT is planning to submit a Boundary Basin Adjustment to incorporate the small segment of the Colusa Subbasin that lies within Tehama County, into the Corning Subbasin. This 1,300 acre area with 10 individual landowners would get better representation by their local elected officials on the DISTRICT Board, then to be grouped into the large 918,380 acre Colusa Subbasin that spans four counties. The DISTRICT will coordinate with the GSA responsible for the portion of the Colusa subbasin that borders Tehama County. The DISTRICT has met with the Glenn County Department of Agriculture, which is the agency most likely to become the GSA for the portion of the Corning Subbasin which lies outside Tehama County. Staff from both agencies have agreed to coordinate our efforts on managing the Corning Subbasin through a MOU, Coordination Agreement, or similar type document, while each becoming a GSA and submitting a GSP for the portions of the subbasin located within their respective Counties. The DISTRICT may submit for a Basin Boundary Adjustment to split the Corning subbasin at the county line once DWR releases the regulations on Basin Boundary Adjustments in January 2016.
- Shasta County: While Shasta and Tehama Counties do not share any subbasins, the three northern subbasins in Tehama County are part of the Redding Groundwater Basin. The DISTRICT will continue to monitor the GSA development process in Shasta County, and will coordinate with the Groundwater Sustainability Agency(s) that form in subbasins adjacent to Tehama County.
- Other Water and Irrigation Districts outside the GSA boundaries: The DISTRICT provided courtesy notice of their intention to serve as the GSA to the Anderson-Cottonwood Irrigation District and the Glenn-Colusa Irrigation District, and will continue to communicate with and solicit feedback from these neighboring agencies as the GSP is developed.
- **Environmental users of groundwater**: N/A
- **Surface water users, if there is a hydrologic connection between surface and groundwater bodies**: The surface water users listed above were provided courtesy notice of the DISTRICT's intention to serve as the GSA and will be included in the GSP planning process.
- **The federal government, including, but not limited to, the military and managers of federal lands**: NRCS and the Bureau of Land Management (BLM) will be coordinated with during the GSP development process. The BLM owns land in the Northern portion of the County that offers multi-use recreational opportunities. The NRCS works with landowners

throughout the County and helps to implement on farm conservation practices.


- **California Native American Tribes:** The Paskenta Band of Nomlaki Indians have a Reservation located in the Corning Subbasin and were provided a courtesy notice of the DISTRICT's intention to serve as the GSA. They will also be included in the GSP planning process.
- **Disadvantaged communities, including, but not limited to, those served by private domestic wells or small community water systems:** A majority of the communities located within the proposed GSA Boundary are classified as Disadvantaged Communities and a majority of them are served by private domestic wells or small community water systems. The DISTRICT will work with the Tehama County Environmental Health Department and the Community Action Partnership to perform outreach and gather information from these communities to incorporate into the GSP.

The DISTRICT and other interested stakeholders roles and responsibilities will be further defined in the GSP. The DISTRICT welcomes feedback during this process from the state and any of the agencies or organizations listed herein. If the Department of Water Resources requires anything further prior to the acceptance of this notification of the DISTRICT's election to serve as the GSA for the eleven subbasins or portions of those subbasins located within Tehama County, please contact Ryan Teubert, the Flood Control/Water Resources Manager at (530)-385-1462 x3020 or [rteubert@tcpw.ca.gov](mailto:rteubert@tcpw.ca.gov).

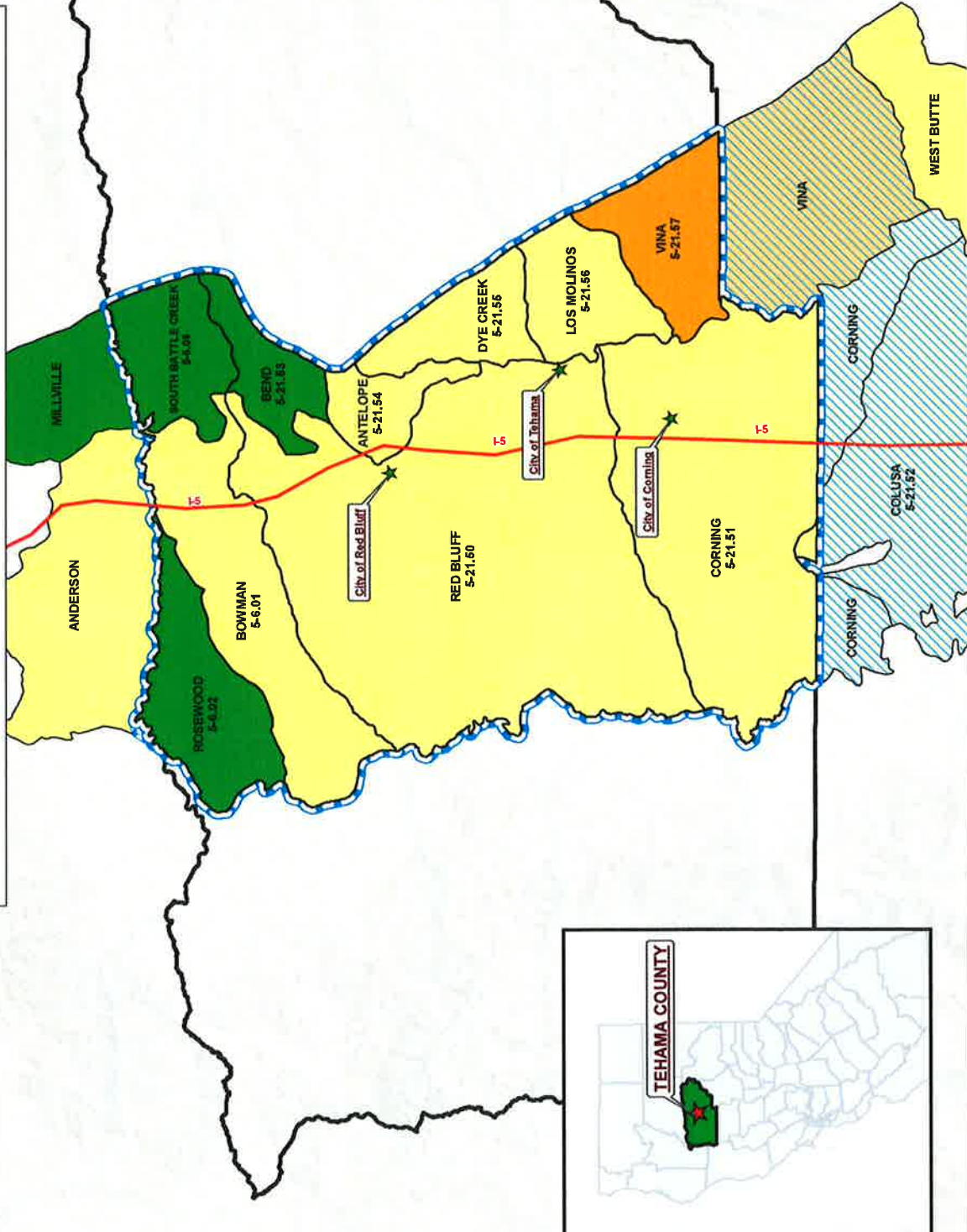
Sincerely,

Gary Antone, Executive Director  
Tehama County Flood Control and  
Water Conservation District

By

  
\_\_\_\_\_  
Ryan Teubert, Flood Control/Water Resources Manager  
Tehama County Flood Control and  
Water Conservation District

TEHAMA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
 PROPOSED GROUNDWATER SUSTAINABILITY MAP



**Legend**

- County Boundary
- Proposed GSA Boundary

**Tehama County Basins**

**PRIORITY**

- HIGH
- MEDIUM
- LOW

**Surrounding Basins**

**BASIN NAME**

- ANDERSON
- CORNING - SHARED BASIN
- MILLVILLE
- VINA - SHARED BASIN
- WEST BUTTE
- COLUSA - SHARED BASIN



Esri, DeLorme, GEBCO, NOAA, NGDC, and other contributors

## RESOLUTION NO. 05-2015

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE TEHAMA COUNTY  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT ELECTING TO BE  
THE GROUNDWATER SUSTAINABILITY AGENCY FOR ALL THOSE PORTIONS OF  
THE ROSEWOOD, BOWMAN, SOUTH BATTLE CREEK, RED BLUFF, BEND,  
ANTELOPE, DYE CREEK, LOS MOLINOS, CORNING, VINA, AND COLUSA  
SUBBASINS LOCATED WITHIN TEHAMA COUNTY**

**WHEREAS**, the Legislature has adopted, and the Governor has signed into law, Senate Bills 1168 and 1319 and Assembly Bill 1739, known collectively as the Sustainable Groundwater Management Act of 2014; and

**WHEREAS**, the Sustainable Groundwater Management Act of 2014 went into effect on January 1, 2015; and

**WHEREAS**, the Sustainable Groundwater Management Act of 2014 enables the State Water Resources Control Board to intervene in groundwater basins unless a local public agency or combination of local public agencies form a Groundwater Sustainability Agency or Agencies (GSA) by June 30, 2017; and

**WHEREAS**, retaining local jurisdiction over water management and land use is essential to sustainably manage groundwater and to the vitality of Tehama County's economy, communities and environment, and

**WHEREAS**, any local public agency that has water supply, water management or land use responsibilities within a groundwater basin may elect to be the Groundwater Sustainability Agency for that basin; and

**WHEREAS**, the Tehama County Flood Control and Water Conservation District is a local public agency organized and existing under the Tehama County Flood Control and Water Conservation District Act (Statutes 1957, Chapter 1280; Water Code Appx., ch. 82); and

**WHEREAS**, under Section 3, subdivision (q) of said Act, the District is responsible for undertaking "any and every lawful act necessary to be done that sufficient water may be available for any present or future beneficial use or uses of lands or inhabitants within the district, including, but not limited to, the acquisition, storage, and distribution for irrigation, domestic, fire protection, municipal, commercial, industrial, recreational, and all other beneficial uses"; and

**WHEREAS**, under Section 3, subdivision (r) of said Act, the District is further authorized "to prevent interference with or diminution of, or to declare the rights in natural flow of any stream or surface or subterranean supply of waters used or useful for any purpose of the district or of common benefit to the lands within the district or to its inhabitants," and "to prevent unlawful exportation of water from the district," and "to prevent contamination, pollution, or otherwise rendering unfit for beneficial use, the surface or subsurface water used or useful in the district"; and

**WHEREAS**, the boundary and territory of the District are coextensive with the exterior boundaries of the County of Tehama; and

**WHEREAS**, the District overlies all those portions of the Rosewood, Bowman, South Battle Creek, Red Bluff, Bend, Antelope, Dye Creek, Los Molinos, Corning, Vina, and Colusa subbasins located within Tehama County; and

**WHEREAS**, Section 10723.2 of the Sustainable Groundwater Management Act of 2014 requires that a GSA consider the interests of all beneficial uses and users of groundwater, as well as those responsible for implementing groundwater sustainability plans; and

**WHEREAS**, Section 10723.8 of the Sustainable Groundwater Management Act of 2014 requires that a local agency electing to be a GSA notify the Department of Water Resources of its election and its intent to undertake sustainable groundwater management within a basin; and

**WHEREAS**, the District held a public hearing on this date after publication of notice pursuant to Government Code section 6066 to consider adoption of this Resolution; and

**WHEREAS**, it would be in the public interest of the people of Tehama County for the District to become the groundwater sustainability agency for all those portions of the Rosewood, Bowman, South Battle Creek, Red Bluff, Bend, Antelope, Dye Creek, Los Molinos, Corning, Vina, and Colusa subbasins located within Tehama County; and

**WHEREAS**, the District and other local public agencies have a long history of coordination and cooperation on water management; and

**WHEREAS**, it is the intent of the District to work cooperatively with other local agencies to manage the aforementioned groundwater basins in a sustainable fashion;

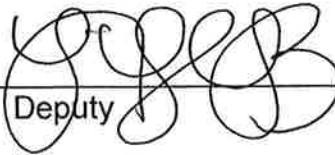
**NOW, THEREFORE, BE IT RESOLVED**, that the Tehama County Flood Control and Water Conservation District hereby elects to become the Groundwater Sustainability Agency for all those portions of the Rosewood (5-06.02), Bowman (5-06.01), South Battle Creek (5-06.06), Red Bluff (5-21.50), Bend (5-21.53), Antelope (5-21.54), Dye Creek (5-21.55), Los Molinos (5-21.56), Corning (5-21.51), Vina (5-21.57), and Colusa (5-21.52) subbasins located within Tehama County.

**BE IT FURTHER RESOLVED** that the proposed boundaries of the basins that the District intends to manage under the Sustainable Groundwater Management Act of 2014 shall be the entirety of the boundaries for the aforementioned subbasins, as set forth in California Department of Water Resources Bulletin 118 (updated in 2003), that lie within the County of Tehama; provided that the Executive Director is authorized and directed to evaluate whether basin boundaries should be adjusted in a manner that will improve the likelihood of achieving sustainable groundwater management, and communicate the results of that evaluation to the Board of Directors and the Department of Water Resources; and



DATED: This 3<sup>rd</sup> day of November, 2015.

JENNIFER A. VISE, County Clerk and ex-officio Clerk of the Board of Directors of the Tehama County Flood Control and Water Conservation District, State of California.

By  \_\_\_\_\_  
Deputy

## Tehama County Groundwater Sustainability Agency (GSA)

### GSA Governing Body - Tehama County Flood Control and Water Conservation District (FCWCD) Board of Directors

1. Final approval authority for GSP and any future amendments, and all GSA ordinances, rules, regulations, and fees.
2. Primary responsibility for funding, resources, and staffing. (Cities/Districts will not be requested to provide or commit funding in order to participate in the Groundwater Commission.)
  - FCWCD will provide staff assistance to Groundwater Commission and Board of Directors throughout the GSP development and implementation process.
  - Where necessary, the Board of Directors will provide additional resources from FCWCD's existing funding or grant opportunities pursued by FCWCD.
  - The Board of Directors will apply for and receive grants to fund GSA activities (with the Commission's recommendation), including responsibility for executing and implementing grant contracts and associated requirements.
  - Further revenue measures, if any, would be reviewed by the Commission prior to adoption by the Board of Directors (and will not be based on GSA participation).
3. Hear and decide appeals (if any) from decisions of the Groundwater Commission on permits, similar entitlements, and enforcement matters.
4. Confirm appointments of the five "Supervisorial District" members of the Groundwater Commission (upon recommendation of the Commission).

### Groundwater Commission (Similar to Planning Commission)

1. Develop GSP and any future amendments, and all GSA ordinances, rules, and regulations, including holding public hearings and making final recommendations to Board of Directors.
2. Conduct investigations to determine the need for groundwater management, monitor compliance and enforcement, propose and update fees and making final recommendations to Board of Directors.
3. Review all proposed grant applications, and advise Board of Directors regarding grant funding opportunities.
4. Decision-making authority for permits or similar entitlements issued by the GSA, e.g., well spacing (with appeal).
5. Make quasi-judicial decisions in GSA enforcement matters (with appeal).
6. Membership:
  - a. 1- City of Corning (Appointed by City)
  - b. 1- City of Red Bluff (Appointed by City)
  - c. 1- City of Tehama (Appointed by City)
  - d. 1- El Camino Irrigation District (Appointed by District)
  - e. 1- Los Molinos Community Services District (Appointed by District)
  - f. 1- Rio Alto Water District (Appointed by District)
  - g. 5- 1 Representative from each County Supervisorial District
    - i. Recommendations to be made by the seated Groundwater Commission members and confirmed by the FCWCD Board of Directors.
    - ii. Appointees will be expected to meet certain qualifications:
      - 2 members should represent the interests of surface water agencies or districts;
      - 2 members should represent the interests of private pumpers;
      - 1 member will be an "at large" representative;
      - No agency or district shall be represented by more than 1 member on the Groundwater Commission.

### AB3030 Technical Advisory Committee - Provides technical assistance as needed.



# City of Corning

794 Third St. Corning, CA 96021 (530) 824-7020 Fax (530) 824-2489



Ryan Teubert, CFM  
Tehama County Flood Control & Water Resource District  
9380 San Benito Ave.  
Gerber, CA 96035

August 14, 2015

Re: Groundwater Sustainability Agency Governance Structure

Dear Mr. Teubert,

Thank you for appearing at the August 11, 2015 City Council meeting and presenting the information regarding the Sustainability Groundwater Management Act. Your presentation was very well done and informative.

As you know, after your presentation, the consensus of the Corning City Council was to concur with the Governance structure that you had proposed where the Flood and Water Conservation District Board would serve as the Groundwater Sustainability Agency and the cities, including the City of Corning would have seats on the Groundwater Commission.

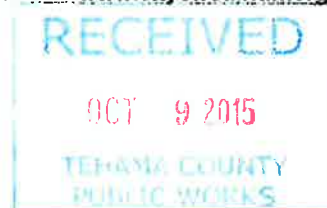
Please call me if you have any additional questions regarding this matter.

John L. Brewer, AICP  
City Manager



# CITY OF RED BLUFF

555 Washington Street Red Bluff, California 96080 (530) 527-2605 Fax (530) 529-6878 [www.cityofredbluff.org](http://www.cityofredbluff.org)



October 7, 2015

Tehama County Public Works  
 Attention: Gary Antone  
 9380 San Benito Avenue  
 Gerber, CA 96035-9701

RE: County GSA Proposal

Dear Gary:

At its meeting of October 6, 2015, the Red Bluff City Council voted to support designation of the Tehama County Flood Control and Water Conservation District (FCWCD) as the Groundwater Sustainability Agency (GSA) for Tehama County. "Funding, resources, and staffing will be the primary responsibility of FCWCD" as the GSA is created and a Groundwater Sustainability Plan (GSP) is drafted and implemented. (See, 9-29-2015 FCWCD presentation to Red Bluff City Council). Nevertheless, the City will remain actively engaged on this issue to assure that the City's needs and concerns are carefully considered by the FCWCD moving forward. Please provide the undersigned with written advance notice of all meetings of the FCWCD Board, as well as copies of all agendas and back up materials.

## **Background**

The City of Red Bluff is the largest supplier of domestic groundwater in Tehama County. The City supplies water to 4,756 different metered water connections, serving a population of 15,000 residents. The City operates a network of 13 municipal water wells.

The City Water Department was established in 1921 and employs 7 full-time employees (not including management and administrative staff). The Water Department's operating budget for 2015/2016 is approximately \$2.1 million. The City extracts, pumps and delivers 1,178,953,000 gallons of groundwater per year.

The City routinely collects data regarding all aspects of the City's water supply and use thereof including water quality monitoring. The City brings the resources of the largest domestic water supplier in the County to the table as an active, participating member of the GSA.

## **GSA Requirements**

“Any local agency or combination of local agencies overlying a groundwater basin may elect to be a groundwater sustainability agency for that basin.” (Water Code § 10723(a).) A GSA “*shall* consider the interests of all beneficial uses and users of groundwater, as well as those responsible for implementing groundwater sustainability plans. These interests include [ ] all of the following: [ ] (b) Municipal well operators. (c) Public water systems. (d) Local land use planning agencies. [ ]” (§10723.2)

A notification of intent to form a GSA must include a list of interested parties including municipal well operators, public water systems and local land use planning agencies and “an explanation of how their interests will be considered in the development and operation of the groundwater sustainability agency and the development and implementation of the agency’s sustainability plan.” (§10723.8(a)(4).) A combination of local agencies may form a groundwater sustainability agency through use of a joint powers agreement or other legal agreement. (§10723.6(a))

The statutory mandate makes clear that the City’s interests as the largest supplier of domestic groundwater in the County must be considered. In fact, the notice of intent to form a GSA must explain how the City’s interests will be considered in the development and operation of the GSA.

## **Conclusion**

The City looks forward to working cooperatively with the FCWCD to implement the requirements of the Groundwater Sustainability Act.

If you have any comments or questions, please contact me or Bruce Henz.

Very truly yours,



Richard L. Crabtree

cc: City Council  
Board of Supervisors  
County Counsel

# City of Tehama

Incorporated 1908

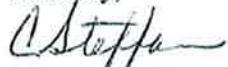
Post Office Box 70  
Tehama, CA 96090  
Phone: (530)384-1501  
Fax: (530)384-1625

September 10, 2015

Ryan Teubert, CFM  
Tehama Co. Flood Control &  
Water Resource Manager  
9380 San Benito Ave.

At its meeting on September 8, 2015, the Tehama City Council voted to accept the proposal received from you for the Tehama County Groundwater Sustainability Agency (GSA). We appreciate your leadership in bring the various organizations together for this important effort.

Sincerely,



Carolyn Steffan  
City Clerk/Administrator

RECEIVED

SEP 14 2015

TEHAMA COUNTY  
PUBLIC WORKS

**El Camino Irrigation District**  
**8451 Hwy. 99-W**  
**Gerber, CA 96035**  
**530-385-1559**  
**530-385-1503 Fax**  
**ecid1559@att.net**


Ryan Teubert, CFM  
Tehama County Flood Control & Water Resource Manager

We have read and discussed the Tehama County Groundwater Sustainability Agency proposal.

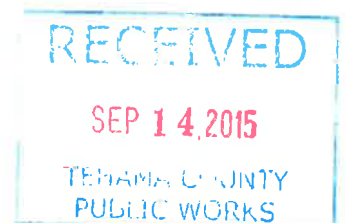
As the Board for El Camino Irrigation District we are approving the proposal as written and appointing District Manager Mark Weber to the Groundwater Commission.

  
Mike Gividen-District 1

  
Kris Lamkin-District 2

  
Rich Sol-Director 3

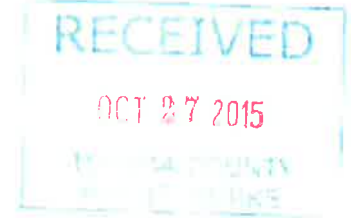
  
Leland Hogan-District 4 Chairman





# Rio Alto Water District

22099 River View Drive, Cottonwood, California 96022  
Telephone 530-347-3835 • Fax 530-347-1007



October 22, 2015

Ryan Teubert, CFM  
Tehama County Flood Control & Water Conservation District  
9380 San Benito Ave.  
Gerber, CA 96035

Re: Letter of Support

Dear Ryan:

The Board of Directors of the Rio Alto Water District is in support of Tehama Flood Control & Water Conservation District forming and acting as the Groundwater Sustainability Agency(GSA) for the groundwater basins within Tehama County.

We approve of the proposed governance structure and look forward to participating in the Groundwater Commission. The Board acknowledges that Tehama County Flood Control and Water Conservation District was instrumental in developing a Groundwater Management Plan in compliance with AB3030, and as such are the most qualified candidate to form and act as the GSA. Thank you for taking the lead in this task.

Sincerely,

A handwritten signature in cursive script that reads "Martha Slack".

Martha Slack  
General Manager

## NOTICE OF PUBLIC HEARING

NOTICE IS HERBY GIVEN that on November 3, 2015, at 1:30 PM, or soon thereafter as may be heard, in the Board of Supervisors Chambers located at 727 Oak St., Red Bluff, California, the Tehama County Flood Control and Water Conservation District (District) Board of Directors will conduct a public hearing to determine whether to adopt a resolution directing the District to submit a Notice of Intent to the California Department of Water Resources stating that the District will be the Groundwater Sustainability Agency (Agency) for all portions of the eleven (11) Groundwater Subbasins located within Tehama County.

The Sustainable Groundwater Management Act (SGMA) became effective on January 1, 2015 and established a new structure for managing California's groundwater resources at a local level. SGMA mandates that all groundwater basins identified in Bulletin 118 must be managed by a Groundwater Sustainability Agency by June 30, 2017. Each Agency will then develop a Groundwater Sustainability Plan (Plan) by January 30, 2022, which will include measurable objectives and milestones that assist the Agencies in achieving groundwater sustainability within 20 years of Plan adoption.

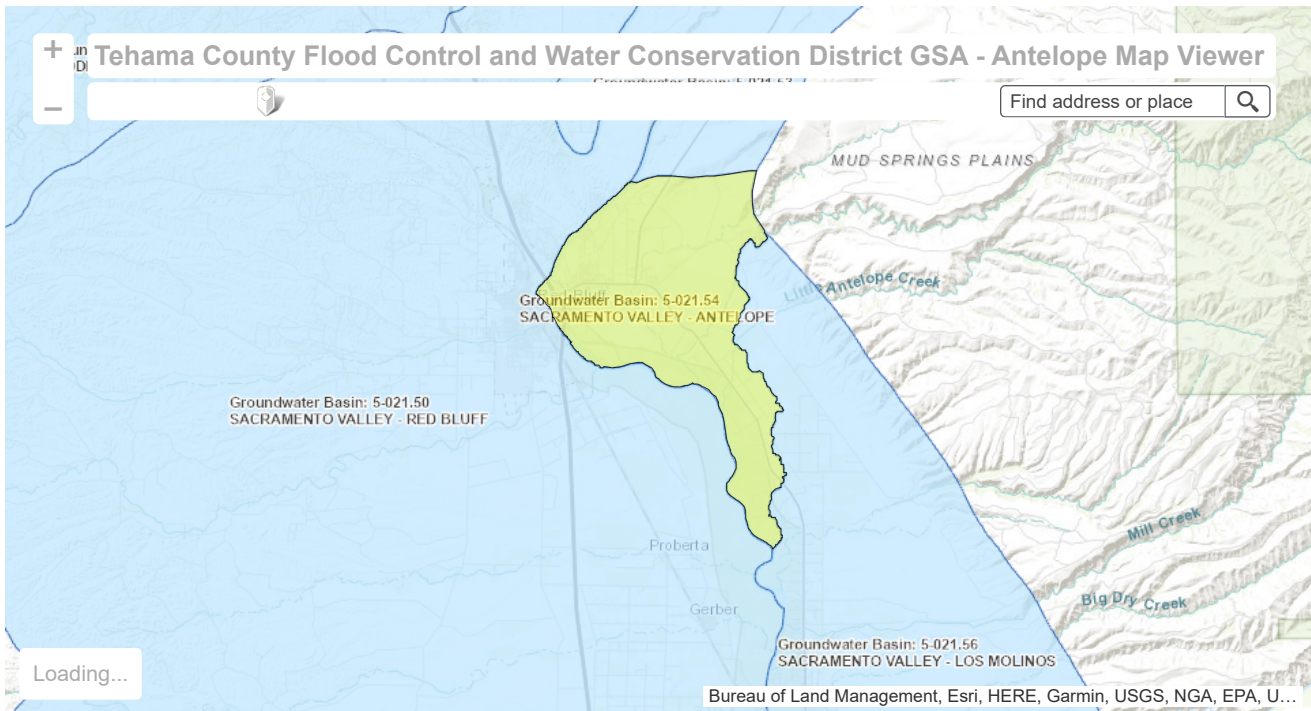
The District is uniquely qualified to become the Agency for all eleven (11) groundwater basins located within the County due to its current jurisdiction which extends throughout the County, its background in groundwater monitoring and water conservation issues, a Board of Directors which is comprised of elected officials representing the entire County, and additional representation from a technical advisory committee to the Board which is comprised of representatives from Agriculture, Domestic/Industrial Water Providers, Natural Resources, and representatives from the cities of Corning, Red Bluff, and Tehama.

During the June 2, 2015 Public Hearing, staff was directed to work with interested water agencies and incorporate them into the governance structure. As a result, an eleven member groundwater commission comprised of city and district representatives and other stakeholders was proposed. To date, letters of support have been received from City of Corning, City of Red Bluff, City of Tehama and El Camino Irrigation District.

The District will be submitting a Notice of Intent at the November 3, 2015 Public Hearing for the following subbasins or the portions of those subbasins located within the County: Rosewood, Bowman, Red Bluff, Corning, Colusa, Vina, Los Molinos, Dye Creek, Antelope, Bend, and South Battle Creek. For questions or additional information on the Sustainable Groundwater Management Act please contact Ryan Teubert, Tehama County Flood Control/Water Resources Manager, 530-385-1462, ext. 3020 or refer to <http://www.water.ca.gov/cagroundwater/>.

# Tehama County Flood Control and Water Conservation District GSA - Antelope

(5-021.54 ANTELOPE)



## Point of Contact Information

Justin Jenson, Deputy Director of Public Works  
Tehama County Flood Control and Water Conservation District GSA - Antelope  
9380 San Benito Avenue | Gerber, CA 96035-9701  
(530) 385-1462 | [jjenson@tcpw.ca.gov](mailto:jjenson@tcpw.ca.gov)  
[www.tehamacountywater.org](http://www.tehamacountywater.org)

## A GSA Eligibility Determination

1. Provide a description of your local agency's water supply, water management, or land use responsibilities within the groundwater basin / basins you intend to manage.  
|
2. Are you an "exclusive local agency" listed in [Water Code §10723\(c\)](#)?  
| No

## B Decision to Become a GSA

1. Please enter the date your local agency, or agencies, decided to become or form a GSA.  
| 11/03/2015
2. Upload a copy of the [Government Code §6066](#) notice.  
|
3. Upload a copy of resolution forming the new agency.
4. If desired, please upload or provide additional information related to your local agency's decision to become or form a GSA.  
| [037\\_Tehama\\_County\\_FCWCD\\_GSA\\_2015-11-04.pdf\(1.1MB\)](#) Uploaded on 02/14/2017 at 04:44PM

## C Type of GSA Formation and Contact Information

GSA Name

| Tehama County Flood Control and Water Conservation District GSA - Antelope

1. Select a Point of Contact (POC) for your GSA.

Justin Jenson

2. If you anticipate submitting multiple GSA notices on behalf of your local agency/GSA, please consider adding a "Local ID" for reference purposes to distinctly identify separate areas you intend to manage.

3. Is this a Single-Agency or Multiple-Agency GSA?

SINGLE

---

#### D Map & Service Area Boundaries

1. Select Basin(s)/Subbasin(s) to be managed by the GSA.

5-021.54 ANTELOPE

2. Upload a PDF map that clearly defines: (1) the service area boundaries of each local agency that is part of your GSA; and (2) the boundaries of the basin(s) or portion of the basin(s) your GSA intends to manage.

3. Upload service area boundary GIS shape file.

[Tehama County Flood Control and Water Conservation District.zip \(26.2kB\)](#) Uploaded on 07/30/2019 at 09:39PM

4. Upload GSA area boundary GIS shape file.

[TehamaCountyFCWCD\\_GSA\\_Antelope.zip \(14.2kB\)](#) Uploaded on 07/30/2019 at 09:40PM

5. If desired, please provide information that clarifies your service area boundary and GSA boundary, if those boundaries are different.

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#### E Required Documents

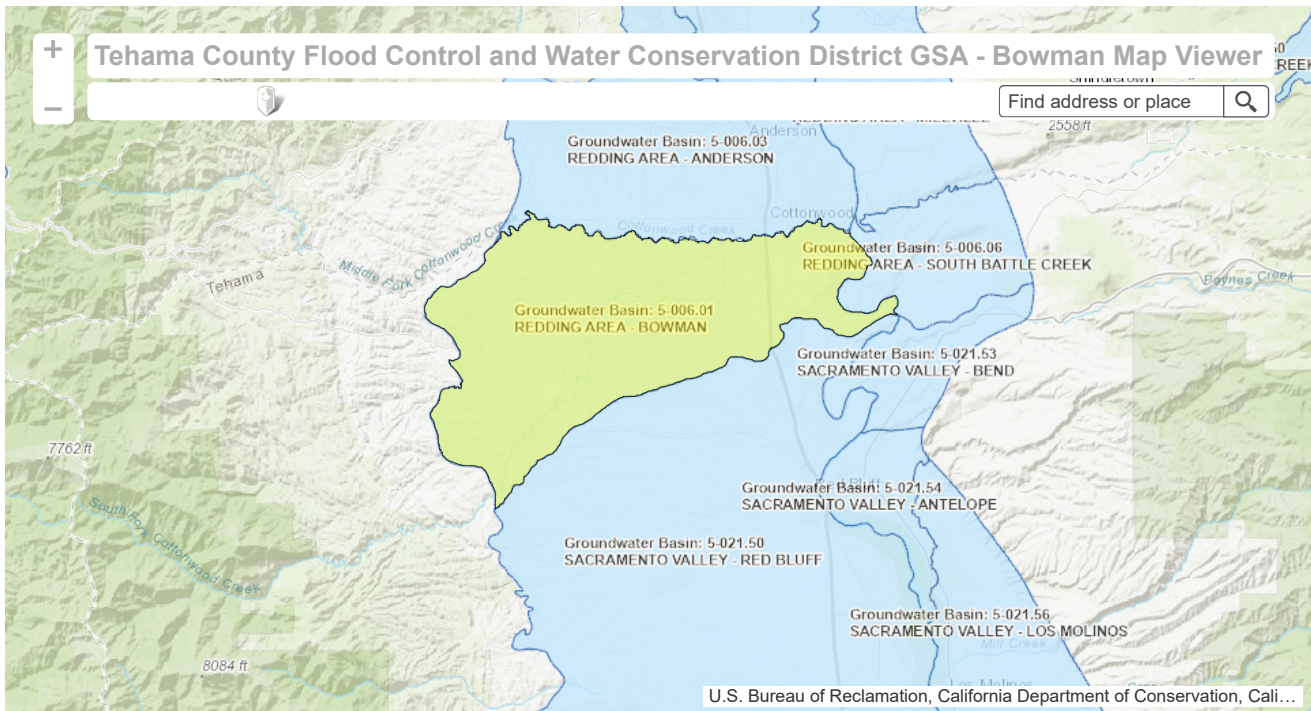
1. Provide a list of interested parties developed pursuant to [Water Code Section 10723.2](#) and an explanation of how their interests will be considered in the development and operation of the GSA and the development and implementation of the GSP.

2. Provide a list of the other agencies managing or proposing to manage groundwater within the basin, or upload a document or map that provides the same information.

3. Provide a description or upload a copy of any new by laws, ordinances, or new authorities adopted by the local agency.

# Tehama County Flood Control and Water Conservation District GSA - Bowman

(5-006.01 BOWMAN)



## Point of Contact Information

Justin Jenson, Deputy Director of Public Works  
Tehama County Flood Control and Water Conservation District GSA - Bowman  
9380 San Benito Avenue | Gerber, CA 96035-9701  
(530) 385-1462 | [jjenson@tcpw.ca.gov](mailto:jjenson@tcpw.ca.gov)  
[www.tehamacountywater.org](http://www.tehamacountywater.org)

## A GSA Eligibility Determination

1. Provide a description of your local agency's water supply, water management, or land use responsibilities within the groundwater basin / basins you intend to manage.  
|
2. Are you an "exclusive local agency" listed in [Water Code §10723\(c\)](#)?  
| No

## B Decision to Become a GSA

1. Please enter the date your local agency, or agencies, decided to become or form a GSA.  
| 11/03/2015
2. Upload a copy of the [Government Code §6066](#) notice.  
|
3. Upload a copy of resolution forming the new agency.
4. If desired, please upload or provide additional information related to your local agency's decision to become or form a GSA.  
| [037\\_Tehama\\_County\\_FCWCD\\_GSA\\_2015-11-04.pdf\(1.1MB\)](#) Uploaded on 02/14/2017 at 04:44PM

## C Type of GSA Formation and Contact Information

GSA Name

| Tehama County Flood Control and Water Conservation District GSA - Bowman

1. Select a Point of Contact (POC) for your GSA.

Justin Jenson

2. If you anticipate submitting multiple GSA notices on behalf of your local agency/GSA, please consider adding a "Local ID" for reference purposes to distinctly identify separate areas you intend to manage.

3. Is this a Single-Agency or Multiple-Agency GSA?

SINGLE

---

#### D Map & Service Area Boundaries

1. Select Basin(s)/Subbasin(s) to be managed by the GSA.

5-006.01 BOWMAN

2. Upload a PDF map that clearly defines: (1) the service area boundaries of each local agency that is part of your GSA; and (2) the boundaries of the basin(s) or portion of the basin(s) your GSA intends to manage.

3. Upload service area boundary GIS shape file.

[Tehama County Flood Control and Water Conservation District.zip \(26.2kB\)](#) Uploaded on 07/30/2019 at 09:43PM

4. Upload GSA area boundary GIS shape file.

[TehamaCountyFCWCD\\_GSA\\_Bowman.zip \(24.2kB\)](#) Uploaded on 07/30/2019 at 09:43PM

5. If desired, please provide information that clarifies your service area boundary and GSA boundary, if those boundaries are different.

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#### E Required Documents

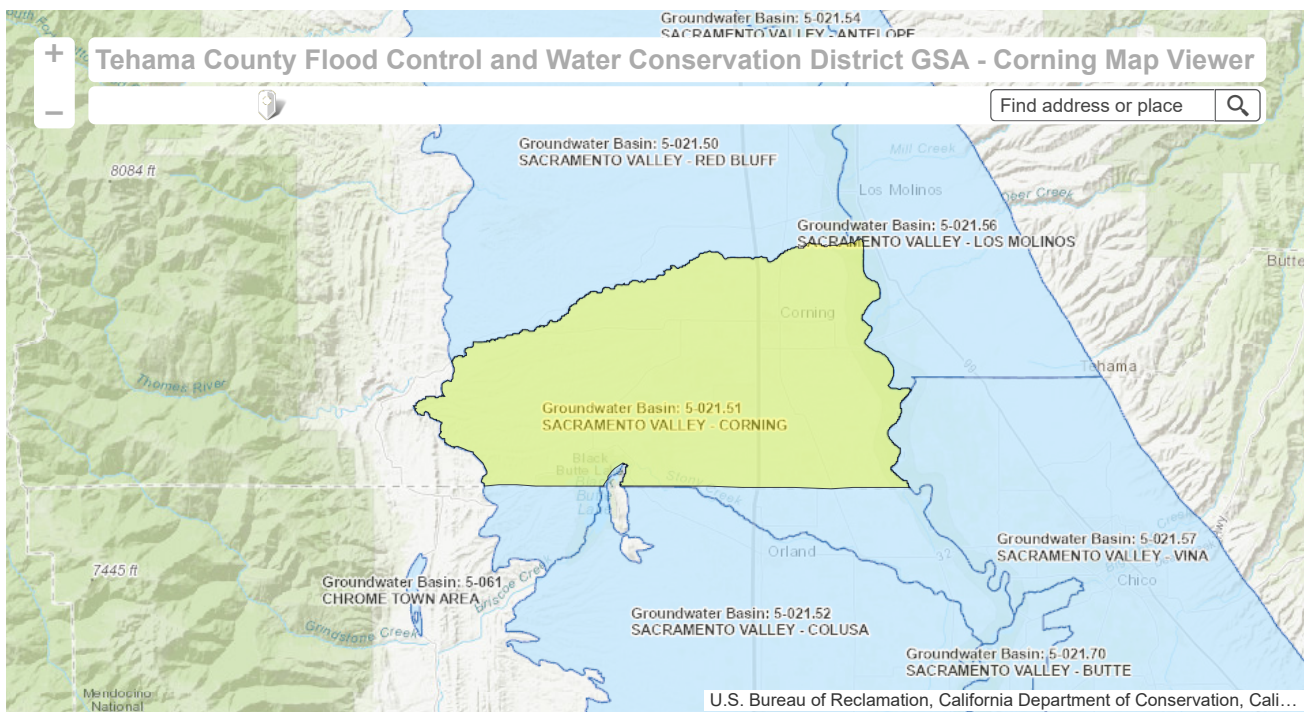
1. Provide a list of interested parties developed pursuant to [Water Code Section 10723.2](#) and an explanation of how their interests will be considered in the development and operation of the GSA and the development and implementation of the GSP.

2. Provide a list of the other agencies managing or proposing to manage groundwater within the basin, or upload a document or map that provides the same information.

3. Provide a description or upload a copy of any new by laws, ordinances, or new authorities adopted by the local agency.

# Tehama County Flood Control and Water Conservation District GSA - Corning

(5-021.51 CORNING)



## Point of Contact Information

Justin Jenson, Deputy Director of Public Works  
Tehama County Flood Control and Water Conservation District GSA - Corning  
9380 San Benito Avenue | Gerber, CA 96035-9701  
(530) 385-1462 | [jjenson@tcpw.ca.gov](mailto:jjenson@tcpw.ca.gov)  
[www.tehamacountywater.org](http://www.tehamacountywater.org)

## A GSA Eligibility Determination

1. Provide a description of your local agency's water supply, water management, or land use responsibilities within the groundwater basin / basins you intend to manage.  
|
2. Are you an "exclusive local agency" listed in [Water Code §10723\(c\)](#)?  
| No

## B Decision to Become a GSA

1. Please enter the date your local agency, or agencies, decided to become or form a GSA.  
| 11/03/2015
2. Upload a copy of the [Government Code §6066](#) notice.  
|
3. Upload a copy of resolution forming the new agency.
4. If desired, please upload or provide additional information related to your local agency's decision to become or form a GSA.  
| [037\\_Tehama\\_County\\_FCWCD\\_GSA\\_2015-11-04.pdf\(1.1MB\)](#) Uploaded on 02/14/2017 at 04:44PM

## C Type of GSA Formation and Contact Information

GSA Name

Tehama County Flood Control and Water Conservation District GSA - Corning

1. Select a Point of Contact (POC) for your GSA.

Justin Jenson

2. If you anticipate submitting multiple GSA notices on behalf of your local agency/GSA, please consider adding a "Local ID" for reference purposes to distinctly identify separate areas you intend to manage.

3. Is this a Single-Agency or Multiple-Agency GSA?

SINGLE

---

#### D Map & Service Area Boundaries

1. Select Basin(s)/Subbasin(s) to be managed by the GSA.

5-021.51 CORNING

2. Upload a PDF map that clearly defines: (1) the service area boundaries of each local agency that is part of your GSA; and (2) the boundaries of the basin(s) or portion of the basin(s) your GSA intends to manage.

3. Upload service area boundary GIS shape file.

4. Upload GSA area boundary GIS shape file.

[TehamaCountyFCWCD\\_GSA\\_Corning.zip \(21kB\)](#) Uploaded on 07/30/2019 at 09:46PM

5. If desired, please provide information that clarifies your service area boundary and GSA boundary, if those boundaries are different.

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#### E Required Documents

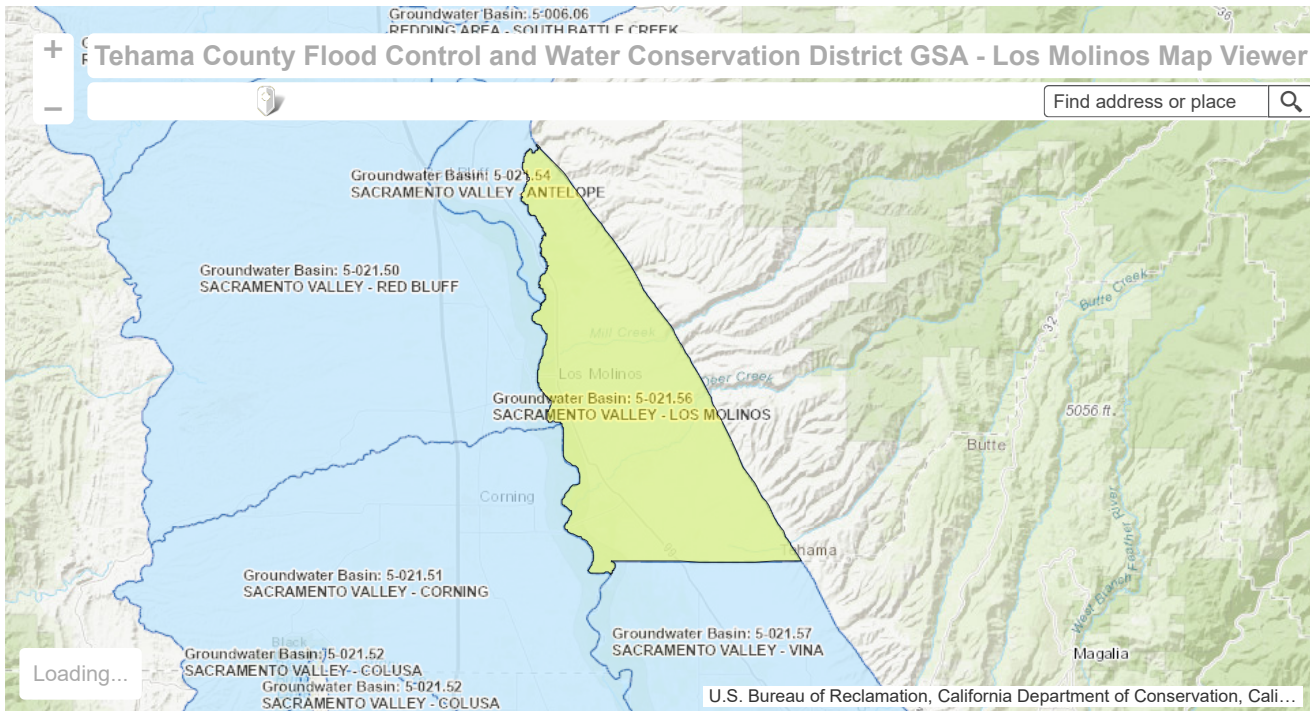
1. Provide a list of interested parties developed pursuant to [Water Code Section 10723.2](#) and an explanation of how their interests will be considered in the development and operation of the GSA and the development and implementation of the GSP.

2. Provide a list of the other agencies managing or proposing to manage groundwater within the basin, or upload a document or map that provides the same information.

3. Provide a description or upload a copy of any new by laws, ordinances, or new authorities adopted by the local agency.

# Tehama County Flood Control and Water Conservation District GSA - Los Molinos

(5-021.56 LOS MOLINOS)



## Point of Contact Information

Justin Jenson, Deputy Director of Public Works  
Tehama County Flood Control and Water Conservation District GSA - Los Molinos  
9380 San Benito Avenue | Gerber, CA 96035-9701  
(530) 385-1462 | [jjenson@tcpw.ca.gov](mailto:jjenson@tcpw.ca.gov)  
[www.tehamacountywater.org](http://www.tehamacountywater.org)

## A GSA Eligibility Determination

1. Provide a description of your local agency's water supply, water management, or land use responsibilities within the groundwater basin / basins you intend to manage.  
|
2. Are you an "exclusive local agency" listed in [Water Code §10723\(c\)](#)?  
| No

## B Decision to Become a GSA

1. Please enter the date your local agency, or agencies, decided to become or form a GSA.  
| 11/03/2015
2. Upload a copy of the [Government Code §6066](#) notice.  
|
3. Upload a copy of resolution forming the new agency.
4. If desired, please upload or provide additional information related to your local agency's decision to become or form a GSA.  
| [037\\_Tehama\\_County\\_FCWCD\\_GSA\\_2015-11-04.pdf\(1.1MB\)](#) Uploaded on 02/14/2017 at 04:44PM

## C Type of GSA Formation and Contact Information

GSA Name  
| Tehama County Flood Control and Water Conservation District GSA - Los Molinos

1. Select a Point of Contact (POC) for your GSA.

Justin Jenson

2. If you anticipate submitting multiple GSA notices on behalf of your local agency/GSA, please consider adding a "Local ID" for reference purposes to distinctly identify separate areas you intend to manage.

3. Is this a Single-Agency or Multiple-Agency GSA?

SINGLE

---

#### D Map & Service Area Boundaries

1. Select Basin(s)/Subbasin(s) to be managed by the GSA.

5-021.56 LOS MOLINOS

2. Upload a PDF map that clearly defines: (1) the service area boundaries of each local agency that is part of your GSA; and (2) the boundaries of the basin(s) or portion of the basin(s) your GSA intends to manage.

3. Upload service area boundary GIS shape file.

[Tehama County Flood Control and Water Conservation District.zip \(26.2kB\)](#) Uploaded on 07/30/2019 at 09:47PM

4. Upload GSA area boundary GIS shape file.

[TehamaCountyFCWCD\\_GSA\\_LosMolinas.zip \(14.1kB\)](#) Uploaded on 07/30/2019 at 09:47PM

5. If desired, please provide information that clarifies your service area boundary and GSA boundary, if those boundaries are different.

---

#### E Required Documents

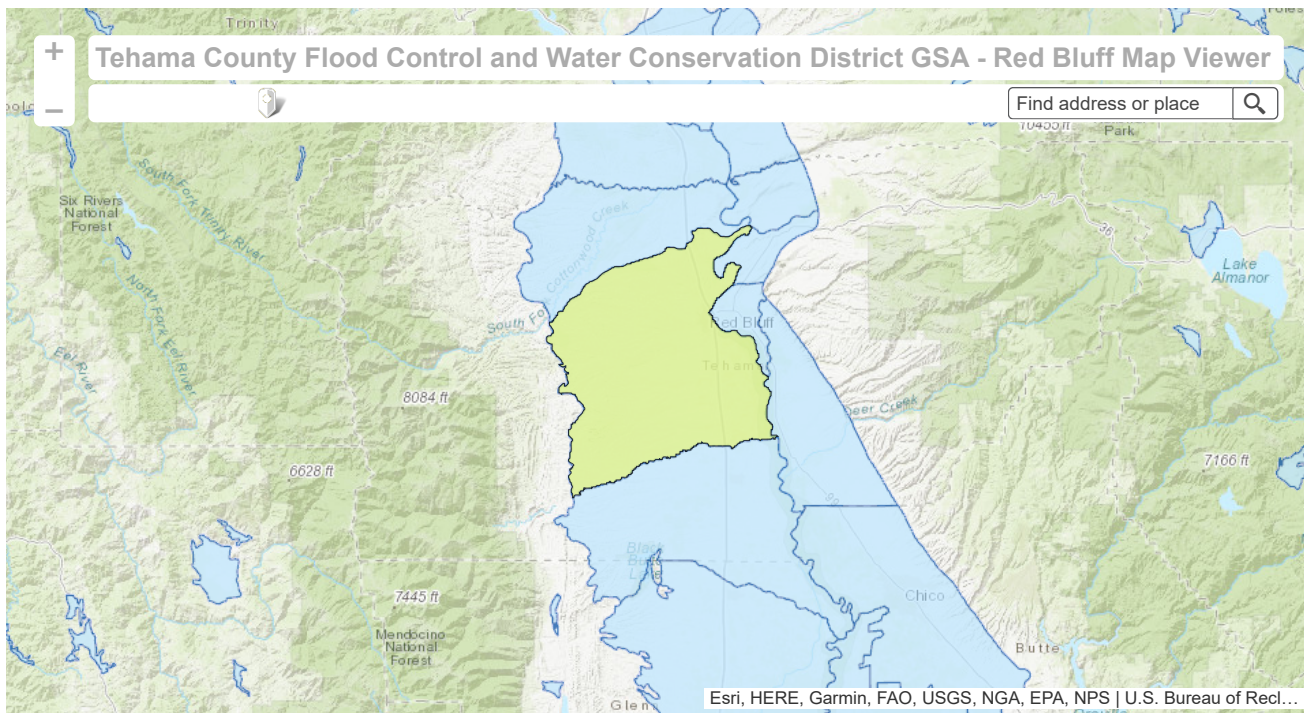
1. Provide a list of interested parties developed pursuant to [Water Code Section 10723.2](#) and an explanation of how their interests will be considered in the development and operation of the GSA and the development and implementation of the GSP.

2. Provide a list of the other agencies managing or proposing to manage groundwater within the basin, or upload a document or map that provides the same information.

3. Provide a description or upload a copy of any new by laws, ordinances, or new authorities adopted by the local agency.

# Tehama County Flood Control and Water Conservation District GSA - Red Bluff

(5-021.50 RED BLUFF)



## Point of Contact Information

Justin Jenson, Deputy Director of Public Works  
Tehama County Flood Control and Water Conservation District GSA - Red Bluff  
9380 San Benito Avenue | Gerber, CA 96035-9701  
(530) 385-1462 | [jjenson@tcpw.ca.gov](mailto:jjenson@tcpw.ca.gov)  
[www.tehamacountywater.org](http://www.tehamacountywater.org)

## A GSA Eligibility Determination

1. Provide a description of your local agency's water supply, water management, or land use responsibilities within the groundwater basin / basins you intend to manage.  
|
2. Are you an "exclusive local agency" listed in [Water Code §10723\(c\)](#)?  
| No

## B Decision to Become a GSA

1. Please enter the date your local agency, or agencies, decided to become or form a GSA.  
| 11/03/2015
2. Upload a copy of the [Government Code §6066](#) notice.  
|
3. Upload a copy of resolution forming the new agency.
4. If desired, please upload or provide additional information related to your local agency's decision to become or form a GSA.  
| [037\\_Tehama\\_County\\_FCWCD\\_GSA\\_2015-11-04.pdf\(1.1MB\)](#) Uploaded on 02/14/2017 at 04:44PM

## C Type of GSA Formation and Contact Information

GSA Name  
| Tehama County Flood Control and Water Conservation District GSA - Red Bluff

1. Select a Point of Contact (POC) for your GSA.

Justin Jenson

2. If you anticipate submitting multiple GSA notices on behalf of your local agency/GSA, please consider adding a "Local ID" for reference purposes to distinctly identify separate areas you intend to manage.

3. Is this a Single-Agency or Multiple-Agency GSA?

SINGLE

---

#### D Map & Service Area Boundaries

1. Select Basin(s)/Subbasin(s) to be managed by the GSA.

5-021.50 RED BLUFF

2. Upload a PDF map that clearly defines: (1) the service area boundaries of each local agency that is part of your GSA; and (2) the boundaries of the basin(s) or portion of the basin(s) your GSA intends to manage.

3. Upload service area boundary GIS shape file.

[Tehama County Flood Control and Water Conservation District.zip \(26.2kB\)](#) Uploaded on 07/30/2019 at 09:50PM

4. Upload GSA area boundary GIS shape file.

[TehamaCountyFCWCD\\_GSA\\_RedBluff.zip \(33.9kB\)](#) Uploaded on 07/30/2019 at 09:50PM

5. If desired, please provide information that clarifies your service area boundary and GSA boundary, if those boundaries are different.

---

#### E Required Documents

1. Provide a list of interested parties developed pursuant to [Water Code Section 10723.2](#) and an explanation of how their interests will be considered in the development and operation of the GSA and the development and implementation of the GSP.

2. Provide a list of the other agencies managing or proposing to manage groundwater within the basin, or upload a document or map that provides the same information.

3. Provide a description or upload a copy of any new by laws, ordinances, or new authorities adopted by the local agency.

# APPENDIX B

## Tehama GSA – SWRCB Intervention and Fee Policy



## Reporting and Fees

### **Tulare Lake Subbasin Groundwater Extraction Reporting Suspended**

Have you received a letter titled “**Notice of Groundwater Extraction Reporting Required Under the Sustainable Groundwater Management Act (SGMA)**” for the Tulare Lake Subbasin? Visit the [Tulare Lake Subbasin webpage](#) to learn about the temporary suspension of groundwater reporting requirements in the Tulare Lake Subbasin.

The Sustainable Groundwater Management Act (SGMA) requires people who extract or pump groundwater in high- or medium-priority basins not managed by groundwater sustainability agencies (unmanaged areas) or those who are in probationary basins to file groundwater extraction reports with the State Water Resources Control Board (State Water Board) and pay extraction fees. For more information on the levels of state intervention, including unmanaged areas and probationary basins please visit the [SGMA State Intervention website](#). The [Groundwater Basins website](#) provides information on basins that are subject to state intervention.

The information on this page will assist you in better determining if you are required to report your groundwater extractions annually to the State Water Board, and if so, what filing fees would apply. Any person who extracts or pumps groundwater from an unmanaged area or probationary basin must file a groundwater extraction report with the State Water Board each year.

Please see our [fee regulations](#) for more information. If you have any questions, please contact us at the contact information below.



*Artesian well, Kern County, circa 1890*

## Other SGMA Links

[SGMA Home](#) | [What is SGMA?](#) | [What is State Intervention?](#) | [Groundwater Basins](#) | [Reporting and Fees](#) | [More Information and Resources](#) | [Public Meetings and Participation](#)

## ? Reporting and Fees FAQs and Resources

[Groundwater Extraction Reporting Frequently Asked Questions](#) ▶

[Groundwater Extraction Fees Frequently Asked Questions](#) ▶

## Other Resources

- [Example of Notification of Reporting Requirements Letter](#)
- [State Water Board's Options for Measuring Extraction Volumes](#) | [Opciones para medir los volúmenes de extracción de aguas subterráneas](#)

[Groundwater Extraction Annual Reporting System \(GEARS\)](#)

Extraction Annual Reporting System (GEARS). Please refer to the Groundwater Extraction Reporting Frequently Asked Questions above for additional information on groundwater extraction reporting.

Tutorial videos for GEARS are available for:

- [Registering for a GEARS account](#)
- [Plotting and describing your well\(s\) and extracted groundwater use in GEARS](#)
- [Submitting your groundwater extraction report in GEARS](#)



Extraction Reporting System

## Groundwater Extraction Fees

If you are required to file an annual groundwater extraction report with the State Water Board, you will also likely be required to pay extraction fees. The State Water Board is required to charge extraction fees to recover the cost of state intervention activities in groundwater basins. The following table

specific reporting and fees information.

Fee Category	Fee Amount	Applicable Parties
Annual Base Filing Fee	\$300 per well	All extractors required to report (excludes de minimis extractors).
Unmanaged Area Rate	\$10 per acre-foot (AF) (metered)  \$25 per AF (unmetered)	Extractors in unmanaged areas (excludes de minimis extractors).
Volumetric Rate	\$20 per AF	Extractors in probationary basins (excludes de minimis extractors).
Interim Plan Rate	\$55 per AF	Extractors in probationary basins where the State Water Board determines an interim plan is required (excludes de minimis extractors).
De minimis Fee	\$100 per well	De minimis extractors in probationary basins (only required if the State Water Board determines at a public hearing that de minimis pumpers must report extractions and pay fees).
Automatic Late Fee	25% per month	Extractors that do not file reports by the due date.

AF = acre-foot

An acre-foot is enough water to cover one acre of land with one foot of water.



## Contact Us

If you have questions, please contact us at 916-322-6508 or email at [SGMA@waterboards.ca.gov](mailto:SGMA@waterboards.ca.gov).

### Language Access Services

The form is available in English, Español (Spanish), Tagalog, 中文 (Simplified Chinese), 한국어 (Korean), Tiếng Việt (Vietnamese), ਪੰਜਾਬੀ (Punjabi).

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Txuas lus rau peb los thov cov kev pab cuam txhais lus thiab/los sis cov ntaub ntawv ua koj hom lus:

[Request Language Services](#)

## Join the Mailing List

To receive updates on SGMA related fees and reporting, subscribe to the SGMA Groundwater Management email list.






**\*Email Address**







[Submit](#)

(Page last updated 01/10/2025)

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-  Save Our Water
-  Flex Alert
-  Register to Vote

-  Board Agendas
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-  Grievance Procedure
-  Help / Business Help
-  Uniform Grants Guidance



## Resources

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- [CEDEN](#)
- [Data & Databases](#)
- [Drought Information](#)
- [FAAST](#)
- [Language Access Form](#)
- [Formulario de Acceso al Idioma](#)
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## What is State Intervention?

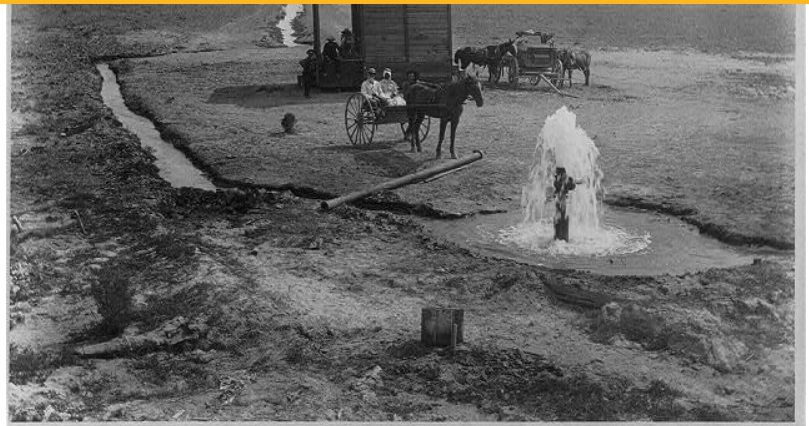
The Sustainable Groundwater Management Act (SGMA) recognizes that groundwater management is generally most effective at the local level. SGMA requires local agencies in [high- or medium-priority basins](#), as designated by the California Department of Water Resources (DWR), to form Groundwater Sustainability Agencies (GSAs). The GSAs, made up of one or more local agencies overlying a groundwater basin, are required to develop and implement Groundwater Sustainability Plans (GSPs) that outline how long-term sustainable management of their basins will be achieved within 20 years of implementation of the plans.

### Other SGMA Links

[SGMA Home](#) | [What is SGMA?](#) | [What is State Intervention?](#) | [Groundwater Basins](#) | [Reporting and Fees](#) | [More Information and Resources](#) | [Public Meetings and Participation](#)

To ensure groundwater resources are sustainably managed, SGMA gives the State Water Resources Control Board (State Water Board) authority to protect groundwater resources through a process called “state intervention” when local agencies are unable or unwilling to sustainably manage their groundwater basins. State intervention is additional to local management and is intended to be temporary: lasting only until local agencies demonstrate that they are ready to adequately manage their respective basins.

The two lead state agencies in SGMA implementation are DWR, which is a state department in the California Natural Resources Agency, and the State Water Resources Control Board, which is an independent board within the California Environmental Protection Agency. DWR provides regulatory oversight by assessing and evaluating Groundwater Sustainability Plans (GSPs). The Groundwater Sustainability Agencies (GSAs) are required to submit their GSPs to DWR. If during the GSP assessment and evaluation process, DWR determines that the plan is inadequate (fails the plan) in a basin, state intervention by the State Water Board is triggered.



*Artesian well with horse-drawn cart, Kern County, circa 1880*

State intervention is a process that could result in the State Water Board temporarily managing and protecting groundwater resources until local agencies are able and willing to do so adequately. There are several steps to the intervention process. An overview is provided below.

## State Intervention Resources

- [Groundwater, the Sustainable Groundwater Management Act, and State Intervention \(2023\)](#)
- [Aguas subterráneas, Ley de Gestión Sostenible de Aguas Subterráneas e intervención estatal \(2023\)](#)

State intervention is triggered by one of the following events:

Effective Date	Triggering Event
July 1, 2017	Entire basin is not covered by a GSA(s) or an alternative to a GSP
Jan 31, 2020	Basin is in critical overdraft and there is no plan or DWR fails GSP
Jan 31, 2022	No plan in the basin or DWR fails GSP or GSP implementation AND basin is in long-term overdraft
Jan 31, 2025	DWR fails GSP or GSP implementation AND basin has significant surface water depletions (if no long-term overdraft)

**Note:** DWR = Department of Water Resources. GSA = Local Groundwater Sustainability Agency. GSP = Groundwater Sustainability Plan

resubmitted, DWR then reviews the GSP(s) again and, if the deficiencies still are not cured, DWR will find the GSP(s) inadequate and intervention by the State Water Board is triggered.

## State Intervention Process Overview

After state intervention is triggered in a groundwater basin, the next step is for the State Water Board to consider making a probationary determination of the basin. This is done using a public process that includes a public hearing. If the State Water Board designates a basin as “probationary,” a term used in the SGMA law, during the probationary period, GSAs have time to address the issues (deficiencies) that caused the basin to go into probation.

During the probationary period, the State Water Board will focus on data collection and analysis to better understand what management challenges are occurring in the basin. To acquire the necessary data, the State Water Board can require extractors install meters so extractors can measure and report their groundwater extractions accurately, or the State Water Board can specify other means for measuring and reporting groundwater extractions.

For basins on probation, SGMA requires that well owners file online annual groundwater extraction reports (most small domestic well owners will likely be exempt). The State Water Board will notify well owners and landowners of their extraction reporting requirements and associated filing fees. Fees are required because [Water Code section 1529.5](#) directs the State Water Board to recover the costs of state intervention activities. For more information on groundwater extraction reporting and filing fees, visit the [Reporting and Fees](#) webpage and the State Water Board's [SGMA fee regulations](#).

If the issues that caused the basin to be deemed probationary are not addressed during the probationary period, the State Water Board may begin another public process to determine whether or not to develop and implement an interim plan for the basin. Importantly, an interim plan cannot be implemented until the GSAs in a probationary basin are allowed at least one year to correct their deficiencies. If the State Water Board adopts an interim plan, the Board would temporarily manage groundwater in the basin until the local agencies could demonstrate their ability to manage the basin sustainably and resume management.

Visit the [Probationary Designation and Groundwater Regulation by the State Water Board](#) (PDF) fact sheet for more information.

## Levels of State Intervention

- **Umanaged Area**

An [unmanaged area](#) is a part of a groundwater basin that was not within the management area of a GSA by July 1, 2017, or became unmanaged after that date when a GSA withdrew. A well owner that

information on groundwater extraction reporting and tiling fees, visit [Reporting and Fees](#) website.

- **Probationary Basin**

If local agencies fail to form a GSA, fail to develop an adequate GSP, or fail to implement the plan successfully in a groundwater basin, the State Water Board may designate the entire basin probationary after providing notice and holding a public hearing. A probationary designation will identify the deficiencies that led to state intervention and potential actions to remedy the deficiencies. Any well owner who extracts or pumps groundwater from a probationary basin must file an annual [groundwater extraction report](#) with the State Water Board unless the State Water Board decides to exclude certain types of groundwater extractions. The State Water Board may require the use of a meter to measure groundwater extractions and the reporting of additional information. Groundwater users who pump two acre-feet or less per year for their own domestic use (i.e., indoor and outdoor residential use) may be exempt from reporting in probationary basins, but this will be determined for each individual basin at a State Water Board public hearing. The SGMA law calls such small domestic well owners “de minimis” users. However, the State Water Board can require reporting by de minimis users in probationary basins if collectively they make up a significant amount of the groundwater pumping and their reporting is necessary to sustainably manage the basin. Landowners will be notified by the State Water Board of the requirement to report extractions annually. For information about groundwater basins under state intervention and actions taken by the State Water Board visit [Groundwater Basins](#).

- **Interim Plan**

An interim plan is intended to be a temporary measure to protect groundwater until effective local management is in place. The State Water Board will allow local agencies a limited amount of time to fix the deficiencies in their basin that led to a probationary designation before developing an interim plan to manage groundwater. An interim plan will contain corrective actions, a timeline, and a monitoring plan to ensure corrective actions are working. The State Water Board will adopt the interim plan through a public hearing process, similar to the probationary designation public process.

## Ending State Intervention

To end State Water Board management of a groundwater basin, GSAs in that basin will have to demonstrate to the State Water Board (in consultation with DWR) their ability and willingness to manage groundwater sustainably and address the issues that caused state intervention to occur. This may require changes to the GSPs, revision of coordination agreements among the GSAs, pumping restrictions, or other measures to provide assurances that ongoing local management will be effective.

## Contact Us

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**you.**

To request these services, click on the button below to open the language access form, or email us at [LanguageServices@Waterboards.ca.gov](mailto:LanguageServices@Waterboards.ca.gov).

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Txuas lus rau peb los thov cov kev pab cuam txhais lus thiab/los sis cov ntaub ntawv ua koj hom lus:

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# Options for Measuring Extraction Volumes

## BACKGROUND

The Sustainable Groundwater Management Act (SGMA) requires extractors in unmanaged areas or probationary basins to file groundwater extraction reports with the State Water Resources Control Board (State Water Board). Extraction reports must include monthly extraction volumes for the preceding water year. SGMA requires that extraction volumes be measured by a device or method satisfactory to the State Water Board.<sup>1</sup>

This document provides options for measuring extraction volumes. The first section describes measurement methods. For details on report requirements, unmanaged areas, and probationary basins, visit the [State Intervention webpage \(https://www.waterboards.ca.gov/sigma/intervention.html\)](https://www.waterboards.ca.gov/sigma/intervention.html).

## OPTIONS FOR MEASURING EXTRACTION VOLUMES

The State Water Board has identified two approaches that have reasonable accuracy for measuring extraction volumes. Other possible approaches are discussed on the next page.

- 1) **Totalizing flowmeter.** A totalizing flowmeter is permanently attached to the well and tracks the cumulative volume of water extracted from a well, similar to the odometer in a car.
- 2) **Run time method.** For wells without a totalizing flowmeter, extraction volumes may be estimated with the following equation:

***Extraction volume = Run time × Flow rate***

***Run time*** is the amount of time the well pump is on.

***Flow rate*** is the amount of water produced by the well over a period of time, such as gallons per minute (GPM) or cubic feet per second (CFS).

The State Water Board has identified two ways to determine the ***run time*** of a pump:

- **Hour meter.** An hour meter (also known as a pump run time meter) is permanently attached to the pump motor and tracks the cumulative amount of time the pump is running, similar to a car's odometer.

<sup>1</sup> Water Code Section 5203 et. seq.

- **Manual record.** For wells that are not equipped with an hour meter, the extractor can keep a written record of the time the pump switched on and off.

The State Water Board has identified three ways to determine the **flow rate** of a well:

- **Flowmeter.** A flowmeter can track the flow rate of a well, similar to a car's speedometer.
- **Pump efficiency test.** A pump efficiency test measures various aspects of a pump's operation, including flow rate. Pump tests may be available from pump dealers, public utilities, or independent companies. Often, a pump test is conducted when the pump is first installed.
- **Pump curve.** If a flowmeter is not installed and recent pump test data are not available, flow rate can be estimated with a pump curve from the manufacturer and the pump lift of the well.

Because a well's flow rate can fluctuate throughout the water year, the State Water Board recommends that extractors measure flow rate periodically and use the most representative flow rate value for each month when estimating monthly extraction volumes.

## **OTHER APPROACHES**

There may be other approaches for measuring or estimating extraction volumes. If an extractor chooses to use a different approach, the device or method must be satisfactory to the State Water Board pursuant to Water Code Section 5203(e). The State Water Board will evaluate each approach on a case-by-case basis.

When selecting an approach, extractors need to ensure the approach is measuring or estimating the actual volume of water extracted from the well. This includes water losses, such as deep percolation, offsite surface runoff, conveyance leakage between the well and the place of use, etc. Extractors also need to consider the accuracy of the chosen approach, because approaches with low accuracy may not be acceptable. For example, the Board did not identify power consumption techniques as methods to measure extraction volumes, because applying average pump efficiency and energy consumption values to individual pumps typically produces inaccurate estimates of the volume of water extracted from the well.<sup>2</sup>

<sup>2</sup> Burt, C.M. 2017. Using Electricity Consumption to Estimate Water Volumes Pumped from Wells. ITRC Paper No. P 17-001. Prepared for the Department of Water Resources Office of Water Conservation. <http://www.itrc.org/papers/pdf/wellrecords.pdf>.

It is the responsibility of the extractor to provide adequate explanation and documentation of the chosen approach in the groundwater extraction report and maintain adequate measurement records. Inadequate explanations, documentation, or records may not be acceptable to the State Water Board.

## **CONTACT US**

For more information or if you have questions, please contact the State Water Board's Groundwater Management Program.

Phone: 916-322-6508  
Email: [SGMA@waterboards.ca.gov](mailto:SGMA@waterboards.ca.gov)  
Website: <https://www.waterboards.ca.gov/sgma/>

The information included in this document is non-binding and for advisory purposes only.

*Last Updated: December 2022*

# APPENDIX C

## Tehama GSA – 2026 SGMA Fee Roll





## APPENDIX D

### **Tehama GSA – 2026 Fee For Extraction Notices**

Available on Tehama GSA Website



## **TEHAMA COUNTY GROUNDWATER SUSTAINABILITY AGENCY**

### **NOTICE OF HEARING TO ADOPT PROPOSED GSA ADMINISTRATION FEES ON EXTRACTION**

In compliance with California State Law, notice is hereby given that the Tehama Groundwater Sustainability Agency (GSA) will hold a **public hearing on: June 18, 2026, at the Tehama County Board of Supervisors Chambers, 727 Oak Street, Red Bluff, CA 96080 at 9:00 AM** to consider the adoption of a new annual fee on extraction starting in Fiscal Year 2026-27 for Tehama GSA operations and implementation of the Antelope, Bowman, Corning, Los Molinos, and Red Bluff Subbasin's Groundwater Sustainability Plans (GSP) in Tehama County required by the State of California pursuant to the 2014 Sustainable Groundwater Management Act (SGMA).

#### **Background:**

The Sustainable Groundwater Management Act (SGMA) was signed into law in 2014 for the purpose of protecting California's groundwater resources. SGMA requires all high and medium priority basins to develop a Groundwater Sustainability Plan (GSP) to prevent overdraft and achieve sustainability in the utilization of groundwater resources. The Tehama Subbasins (Basins 5-021.54, 5-006.01, 5-021.51, 5-021.56, and 5-021.50 in the California Department of Water Resources (DWR) Bulletin 118) (Subbasins) are high and medium priority Subbasins that has been assigned a critical overdraft designation by DWR. The Subbasins consist of one (1) Groundwater Sustainability Agencies (GSA) who coordinated the completion of five (5) individual Groundwater Sustainability Plans (GSPs), each prepared in a coordinated manner as required by SGMA. Within Tehama County one (1) GSA was formed representing all groundwater subbasins throughout the County with the portion of the Corning Subbasin located within Glenn County represented by the Corning Sub-basin GSA to achieve SGMA compliance in their service area.

#### **Basis of Proposed Fee:**

To provide local groundwater management, sustainability, and SGMA compliance, the Tehama GSA must annually monitor and report groundwater conditions to the State, prepare the required updates to the GSP, conduct required coordination among GSAs in Tehama County and adjoining subbasins, and maintain GSA operations. GSA operations include but are not limited to legal, financial, technical and administration costs (including consultant services, insurance, office and outreach materials, and accounting).

The proposed fee is governed by SGMA legislation and the California Constitution. California Water Code Section 10730 provides authority for the Tehama GSA to impose Fees to support GSA administration, GSP implementation, and SGMA compliance activities. The Tehama GSA has reviewed the available options to fund the Tehama GSA and associated activities over the next five years as explained and documented in the April 2026 SGMA Fee Report.

The service of local groundwater management requires each landowner to cover the cost of groundwater management, GSA administration, GSP implementation, and SGMA compliance including groundwater monitoring, preparation of annual reports, and regulatory compliance activities to ensure that the Tehama GSA is sustainable over the long term, as required by SGMA. Each parcel in the Tehama GSA is required to be managed by a GSP and land within the Tehama County portion of the Subbasins will receive the local management services of the Tehama GSA. Ensuring sustainability will allow the Tehama GSA to maintain local control and **avoid State intervention and operation of the Subbasins, which would result in higher Fees on a basin-wide scale.** If the State Water Resources Control Board intervenes in the Tehama GSA operations, it may impose annual fees ranging from \$100 per domestic well, to \$300 per agricultural well, plus up to \$55 (interim plan rate) per acre-foot of pumped water per well and require annual reporting of extractions to the State. For more information:

[https://www.waterboards.ca.gov/water\\_issues/programs/gmp/docs/intervention/intervention\\_fs.pdf](https://www.waterboards.ca.gov/water_issues/programs/gmp/docs/intervention/intervention_fs.pdf)

Implementing the proposed fee allows the Tehama GSA to provide groundwater management services and ensures a more tailored and locally managed option for managing the Tehama GSA subbasins while maintaining SGMA compliance.

**Proposed Fees:**

The proposed fees fund the service of groundwater management including GSA operations and SGMA compliance actions that are required for SGMA compliance. This fee is based on estimated groundwater use that imposes a maximum fee based on the parcels subject to the fee. The proposed maximum fee of extraction rate will be \$3.05 per acre foot per acre in managed subbasins including 3% annual inflation for the subsequent four years). The proposed fee of extraction, if approved, will become effective for fiscal year 2026-27 (beginning July 1, 2026), with first payment due in December 2026 through the Tehama County property tax bill. **The actual amount of the fee of extraction will be set by Resolution of the Tehama GSA but cannot exceed the maximum water use per parcel fee specified above, including the inflation factor, absent a subsequent fee of extraction approval proceeding.**

Urban residential parcels have a maximum fee of \$4.52 per residential connection per parcel, rural residential parcels have a \$6.04 per residential connection per parcel with a maximum fee of \$12.08 per parcel, and commercial parcels shall have a maximum fee of \$4.12 per acre foot per acre. The Fee Report summarizing findings is available on the Tehama GSA website: <https://tehamacountywater.org/>.

**Public Hearing and Majority Protest:**

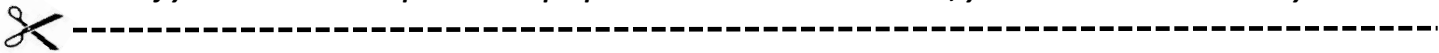
Under California State law, owners of land subject to the proposed fee have the right to protest its adoption. If you have received this notice, one or more parcels under your ownership will be subject to the proposed fee. If the identified parcel has more than one record owner only one written protest will be counted. Valid protest forms received before the close of the public hearing will be received and documented prior to consideration of approving the proposed fees.

**Landowners desiring to protest the proposed Tehama GSA fee of extraction should send their written protest prior to the public hearing to: Tehama GSA, 1509 Schwab Street, Red Bluff, CA 96080, or in person at the public hearing on June 18, 2026, at 9:00 AM, so long as the protest is received prior to the close of the public hearing. Protests submitted by e-mail, fax, or other electronic means are not valid and will not be counted as a protest.**

There are multiple ways to obtain additional information about this topic:

- View more information online at <https://tehamacountywater.org/>.
- Call the Tehama GSA at **(530) 690-0700**.
- The Tehama GSA Fee Report will be available for public review during normal business hours at 1509 Schwab Street, Red Bluff, CA 96080.
- For more information about SGMA, see the California Department of Water Resources website: <https://water.ca.gov/Programs/Groundwater-Management/SGMA-Groundwater-Management>

***If you do not wish to protest the proposed Tehama GSA SGMA Fee, you do not need to take any action.***



**Tehama GSA FEE OF EXTRACTION PROTEST FORM**

To protest, complete and detach this portion of the fee of extraction notice and mail to Tehama GSA, 1509 Schwab Street, Red Bluff, CA 96080, OR submit in-person at the Public Hearing on June 18, 2026, at 9:00 AM, Tehama County Board of Supervisors Chambers, 727 Oak Street, Red Bluff, CA 96080. All protests must include:

- Landowner Printed Name(s): \_\_\_\_\_
- Assessor’s Parcel Number: \_\_\_\_\_
- Statement of Protest: \_\_\_\_\_

Under penalty of law, I affirm that I am the owner(s) or authorized representative of the owner of the above parcel.

- Valid Landowner Signature(s): \_\_\_\_\_

Each parcel is entitled to one protest. If a parcel has more than one owner, all must sign one protest form.

## **TEHAMA COUNTY GROUNDWATER SUSTAINABILITY AGENCY NOTICE OF HEARING TO ADOPT PROPOSED PMA FEE ON EXTRACTION**

In compliance with California State Law, notice is hereby given that the Tehama Groundwater Sustainability Agency (GSA) will hold a **public hearing on: June 18, 2026, at the Tehama County Board of Supervisors Chambers, 727 Oak Street, Red Bluff, CA 96080 at 11:00 AM** to consider the adoption of a new annual fee on extraction starting in Fiscal Year 2026-27 for Tehama GSA implementation of the Corning, Los Molinos, and Red Bluff Subbasin's Groundwater Sustainability Plans (GSP) in Tehama County required by the State of California pursuant to the 2014 Sustainable Groundwater Management Act (SGMA). This fee focuses on addressing groundwater overdraft conditions.

### **Background:**

The Sustainable Groundwater Management Act (SGMA) was signed into law in 2014 for the purpose of protecting California's groundwater resources. SGMA requires all high and medium priority basins to develop a Groundwater Sustainability Plan (GSP) to prevent overdraft and achieve sustainability in the utilization of groundwater resources. The Tehama Subbasins (Basins 5-021.54, 5-006.01, 5-021.51, 5-021.56, and 5-021.50 in the California Department of Water Resources (DWR) Bulletin 118) (Subbasins) are high and medium priority Subbasins that has been assigned a critical overdraft designation by DWR. The Subbasins consist of one (1) Groundwater Sustainability Agencies (GSA) who coordinated the completion of five (5) individual Groundwater Sustainability Plans (GSPs), each prepared in a coordinated manner as required by SGMA. Within Tehama County one (1) GSA was formed representing all groundwater subbasins throughout the County with the portion of the Corning Subbasin located within Glenn County represented by the Corning Sub-basin GSA to achieve SGMA compliance in their service area.

### **Basis of Proposed Fee:**

To provide local groundwater management, sustainability, and SGMA compliance, the Tehama GSA must annually monitor and report groundwater conditions to the State, prepare the required updates to the GSP, conduct required coordination among GSAs in Tehama County and adjoining subbasins, and maintain GSA operations. GSA operations include but are not limited to legal, financial, technical and administration costs (including consultant services, insurance, office and outreach materials, and accounting).

The proposed fee is governed by SGMA legislation and the California Constitution. California Water Code Section 10730 provides authority for the Tehama GSA to impose Fees to support GSA administration, GSP implementation, and SGMA compliance activities. The Tehama GSA has reviewed the available options to fund the Tehama GSA and associated activities over the next five years as explained and documented in the April 2026 SGMA Fee Report.

The service of local groundwater management requires each landowner to cover the cost of groundwater management, GSA administration, GSP implementation, and SGMA compliance including groundwater monitoring, preparation of annual reports, and regulatory compliance activities to ensure that the Tehama GSA is sustainable over the long term, as required by SGMA. Each parcel in the Tehama GSA is required to be managed by a GSP and land within the Tehama County portion of the Subbasins will receive the local management services of the Tehama GSA. Ensuring sustainability will allow the Tehama GSA to maintain local control and **avoid State intervention and operation of the Subbasins, which would result in higher Fees on a basin-wide scale**. If the State Water Resources Control Board intervenes in the Tehama GSA operations, it may impose annual fees ranging from \$100 per domestic well, to \$300 per agricultural well, plus up to \$55 (interim plan rate) per acre-foot of pumped water per well and require annual reporting of extractions to the State. For more information:

[https://www.waterboards.ca.gov/water\\_issues/programs/gmp/docs/intervention/intervention\\_fs.pdf](https://www.waterboards.ca.gov/water_issues/programs/gmp/docs/intervention/intervention_fs.pdf)

Implementing the proposed fee allows the Tehama GSA to provide groundwater management services and ensures a more tailored and locally managed option for managing the Tehama GSA subbasins while maintaining SGMA compliance.

**Proposed Fees:**

The proposed fees fund the service of groundwater management including implementation of Project Management Actions (PMA) for the GSPs and compliance with SGMA. This fee is based on estimated groundwater use that imposes a maximum fee based on the parcels subject to the fee. The proposed maximum fee of extraction rate will be \$3.15 per acre foot per acre for each Ag parcel including 3% annual inflation for the subsequent four years). The proposed fee of extraction, if approved, will become effective for fiscal year 2026-27 (beginning July 1, 2026), with first payment due in December 2026 through the Tehama County property tax bill. **The actual amount of the fee of extraction will be set by Resolution of the Tehama GSA but cannot exceed the maximum water use per parcel fee specified above, including the inflation factor, absent a subsequent fee of extraction approval proceeding.**

The proposed PMA fees only apply to Ag users within the Corning, Los Molinos, and Red Bluff subbasins. Each parcel subject to the fee would only be charged the specified fee of extraction in this notice. For more information, including the Fee Report summarizing the findings, please visit the Tehama GSA website at: <https://tehamacountywater.org/>.

**Public Hearing and Majority Protest:**

Under California State law, owners of land subject to the proposed fee have the right to protest its adoption. If you have received this notice, one or more parcels under your ownership will be subject to the proposed fee. If the identified parcel has more than one record owner only one written protest will be counted. Valid protest forms received before the close of the public hearing will be received and documented prior to consideration of approving the proposed fees.

**Landowners desiring to protest the proposed Tehama GSA PMA fee of extraction should send their written protest prior to the public hearing to: Tehama GSA, 1509 Schwab Street, Red Bluff, CA 96080, or in person at the public hearing on June 18, 2026, at 11:00 AM, so long as the protest is received prior to the close of the public hearing. Protests submitted by e-mail, fax, or other electronic means are not valid and will not be counted as a protest.**

There are multiple ways to obtain additional information about this topic:

- View more information online at <https://tehamacountywater.org/>.
- Call the Tehama GSA at **(530) 690-0700**.
- The Tehama GSA Fee Report will be available for public review during normal business hours at 1509 Schwab Street, Red Bluff, CA 96080.
- For more information about SGMA, see the California Department of Water Resources website: <https://water.ca.gov/Programs/Groundwater-Management/SGMA-Groundwater-Management>

***If you do not wish to protest the proposed Tehama GSA SGMA Fee, you do not need to take any action.***



**Tehama GSA PMA FEE OF EXTRACTION PROTEST FORM**

To protest, complete and detach this portion of the PMA fee of extraction notice and mail to Tehama GSA, 1509 Schwab Street, Red Bluff, CA 96080, OR submit in-person at the Public Hearing on June 18, 2026, at 11:00 AM, Tehama County Board of Supervisors Chambers, 727 Oak Street, Red Bluff, CA 96080. All protests must include:

- Landowner Printed Name(s): \_\_\_\_\_
- Assessor’s Parcel Number: \_\_\_\_\_
- Statement of Protest: \_\_\_\_\_

Under penalty of law, I affirm that I am the owner(s) or authorized representative of the owner of the above parcel.

- Valid Landowner Signature(s): \_\_\_\_\_

Each parcel is entitled to one protest. If a parcel has more than one owner, all must sign one protest form.

# APPENDIX E

## Tehama GSA – Fee Outreach

# Public Meetings

## Updates on Managing Groundwater in Tehama County

**December 3 | 6:00-7:30 PM:** Red Bluff Community Center, 1500 S Jackson St, Red Bluff, CA

**December 4 | 6:00-7:30 PM:** Rodgers Theater 1217 Solano St, Corning, CA



### TEHAMA COUNTY

FLOOD CONTROL AND WATER CONSERVATION DISTRICT

The Tehama County Flood Control and Water Conservation District invites you to public meetings about recent updates for sustainable groundwater management in Tehama County.

#### Both meetings will cover:

- Sustainable Groundwater Management Act (SGMA) requirements and implementation -- the state law under which California operates.
- Updates on local groundwater conditions.
- Projects and management actions underway to help achieve long-term groundwater sustainability in Tehama County (i.e., increase groundwater supply, manage demand, and mitigate dry wells).
- An overview of past and future funding structures - including potential state grants and County fees.
- Ways to get involved and improve public engagement.

**Make the most of these informal opportunities to learn about groundwater management in Tehama County. Get involved! We value and encourage your feedback and recommendations.**

Register for one of the meetings below at this link:  
<https://bit.ly/tehamagroundwater>



**Wed, Dec 3 | 6:00-7:30pm**  
**Red Bluff or Online (listen-in only)**

**Thurs, Dec 4 | 6:00-7:30pm**  
**Corning or Online (listen-in only)**

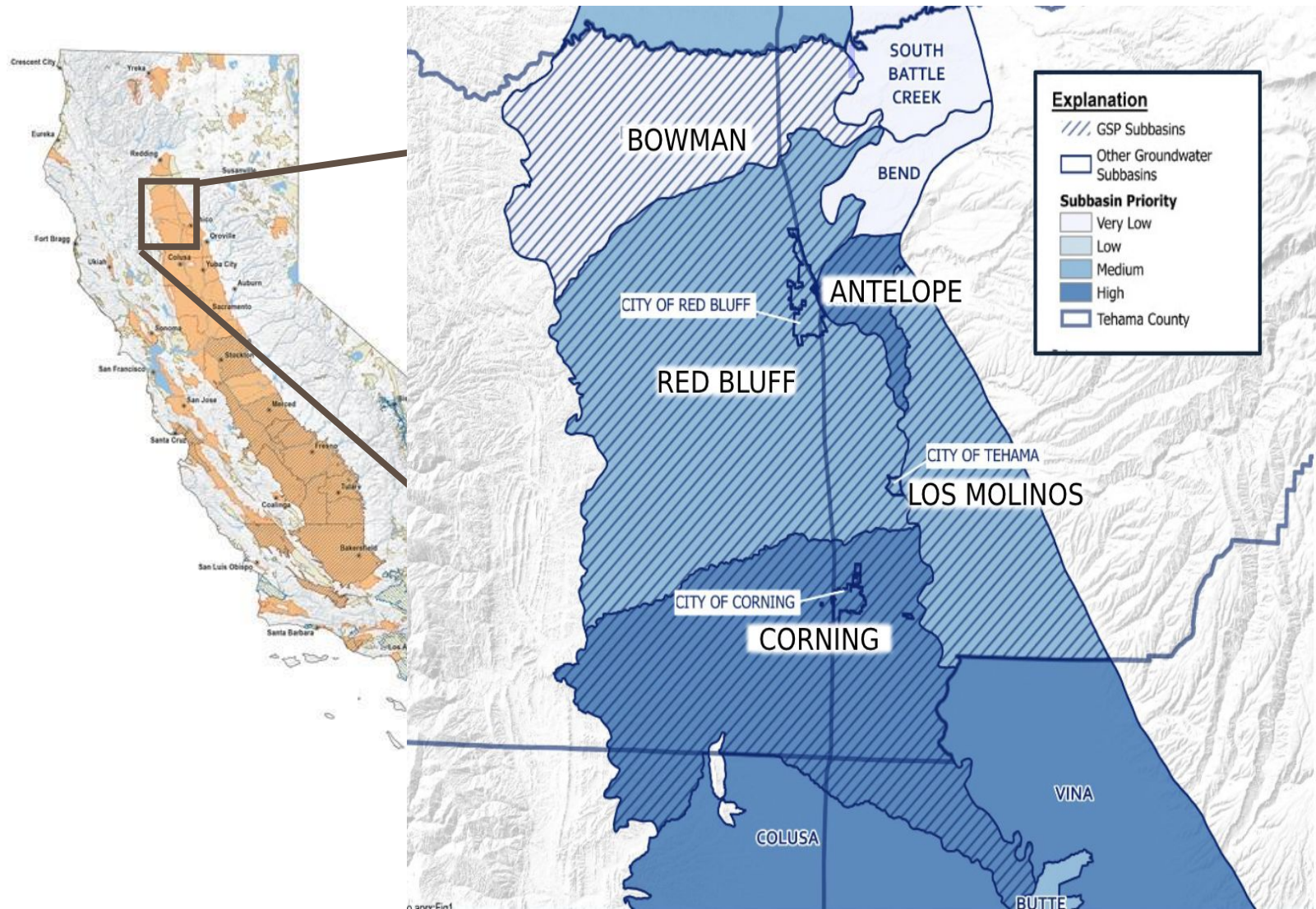
*Both meetings will cover the same information.*

*Si se necesita los servicios de traducción para asistir a los eventos, comuníquese con Adriana Langanica a [alanganica@tcpw.ca.gov](mailto:alanganica@tcpw.ca.gov) antes del 26 noviembre.*



# Subbasins in Tehama County

Groundwater Sustainability Plans (GSPs) have been developed for five subbasins: Bowman, Red Bluff, Antelope, Los Molinos, and Corning. The Corning Subbasin extends into Glenn County, and the District is coordinating with the Corning Sub-basin GSA on a single GSP for the subbasin.



## Want more information?

- Sign Up for the interested parties email list at [tehamagsa@tcpw.ca.gov](mailto:tehamagsa@tcpw.ca.gov)
- Attend Groundwater Commission and District Board meetings. Meeting details are posted on the website
- Learn more about Tehama County subbasins and SGMA ([TehamaCountyWater.org](http://TehamaCountyWater.org))
- For information on the Corning Subbasin and Corning Subbasin GSP ([CorningSubbasinGSP.org/](http://CorningSubbasinGSP.org/))



**TEHAMA COUNTY GROUNDWATER BASINS**  
**SGMA IMPLEMENTATION UPDATE PUBLIC MEETINGS**  
**DEC 3 RED BLUFF | DEC 4 CORNING**

**PUBLIC MEETINGS | 6:00-7:30 PM**

**Wednesday, December 3 | Red Bluff Community Center**

1500 S Jackson St, Red Bluff, CA 96080, USA

**Thursday, December 4 | Rodgers Theater in Corning**

1217 Solano St, Corning, CA 96021, USA

**MEETING OBJECTIVES**

- Educate the public on Sustainable Groundwater Management Act (SGMA) requirements and implementation, current groundwater conditions, and overdraft estimates.
- Present the comprehensive projects and management actions underway to help achieve long-term groundwater sustainability in Tehama County (i.e., increase groundwater supply, manage demand, and mitigate dry wells).
- Share an overview of past and future funding structures - including potential state grants and County fees.
- Highlight opportunities to stay involved and improve public engagement going forward.

**AGENDA**

Start Time	Agenda Item
6:00 PM	<b>Open and Welcoming Remarks</b>
6:05 PM	<b>Meeting Orientation</b> <ul style="list-style-type: none"> <li>● Introductions</li> <li>● Meeting objectives</li> <li>● Agenda review</li> </ul>
6:10 PM	<b>Where We Are: Groundwater Sustainability Plan (GSP) Implementation &amp; Groundwater Conditions Updates</b> <ul style="list-style-type: none"> <li>● SGMA basics &amp; State requirements</li> <li>● Role of Groundwater Sustainability Agency (GSA) and Commission</li> <li>● Water Budget</li> </ul>
6:30 PM	<b>What We're Doing: Overview of Actions</b> <ul style="list-style-type: none"> <li>● Increasing water supply</li> <li>● Managing demand for water</li> <li>● Mitigating dry wells</li> <li>● How you can help</li> </ul>
7:00 PM	<b>How We're Funding This: State Grants &amp; County Fees</b> <ul style="list-style-type: none"> <li>● Estimated costs</li> <li>● Funding approaches thus far</li> <li>● Upcoming fee structure options</li> </ul>

<b>7:20 PM</b>	<b>Next Steps &amp; Staying Involved</b> <ul style="list-style-type: none"> <li>● Upcoming milestones</li> <li>● Outreach strategy</li> <li>● How to get involved</li> <li>● Q&amp;A</li> </ul>
<b>7:30 PM</b>	<b><i>Open time for further discussion and public input</i></b> <i>Staff and consultants will be available</i>
<b>8:00 PM</b>	<b><i>Adjourn</i></b>

## Groundwater and SGMA Resources

- [Understanding Groundwater video \(4 min\) by CA DWR](#)
- [SGMA 101 brochure by CA Farm Bureau Federation](#)
- [Real-time local groundwater information \(interactive online map\)](#)
- [Tehama County recharge projects Story Map](#)
- [Groundwater demand management factsheet](#)
- [Dry well resources for domestic well owners](#)
- [Volunteer domestic well monitoring program interest form](#)
- [Well Registration FAQs handout](#)
- [Additional resources from Groundwater Exchange](#)
- [Glossary of common terms](#)



These resources and more are available at <https://tehamacountywater.org/gsa/library/>

## Workshop Staff

Convener: Tehama County GSA

- Justin Jenson, Project Manager & Deputy Director of Public Works - Water
- Adriana Langarica, Engineering Tech
- Lena Sequeira, Administrative Assistant

Technical Consultant: Luhdorff & Scalmanini Consulting Engineers (LSCE)

- Jacques DeBra
- Will Anderson

Facilitation Support: Consensus Building Institute (CBI)

- Sophie Carrillo-Mandel
- Deeqa Mohamed

**To be added to the GSA Interested Parties email list for workshop announcements, email: [tehamagsa@tcpw.ca.gov](mailto:tehamagsa@tcpw.ca.gov)**

MANAGING OUR GROUNDWATER  
FOR THE FUTURE



TEHAMA COUNTY  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

# Tehama County Sustainable Groundwater Management Updates

Public Meetings

December 3 & 4, 2025 (6:00 – 7:30 PM)

[TehamaCountyWater.org](https://TehamaCountyWater.org)

# Meeting Objectives

## COMMON TERMS

SGMA (“Sigma”): Sustainable Groundwater Management Act

GSA: Groundwater Sustainability Agency

GSP: Groundwater Sustainability Plan

- Educate the public on Sustainable Groundwater Management Act (SGMA) requirements and implementation, current groundwater conditions, and overdraft estimates.
- Present the comprehensive projects and management actions underway to help achieve long-term groundwater sustainability.
- Share an overview of past and future funding structures - including potential State grants and County fees.
- Highlight opportunities to stay involved and improve public engagement going forward.
- Receive public input on how to balance management actions: supply augmentation vs demand management



# Meet The Project Team

**Convener:** Tehama County Flood Control & Water Conservation District



**TEHAMA COUNTY**  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

- Justin Jenson
- Adriana Langarica
- Lena Sequeira

**Technical Consultant:** Lohdorff & Scalmanini Consulting Engineers (LSCE)



- Jacques DeBra
- Will Anderson

**Facilitation Support:** Consensus Building Institute (CBI)



- Sophie Carrillo-Mandel
- Deeqa Mohamed

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# AGENDA

**6:00pm** Open and Welcoming Remarks; Agenda Review

**6:10pm** Where We Are: GSP Implementation & Groundwater Conditions Updates

**6:30pm** What We're Doing: Overview of Actions

**7:00pm** How We're Funding This: State Grants & County Fees

**7:20pm** Next Steps & Staying Involved

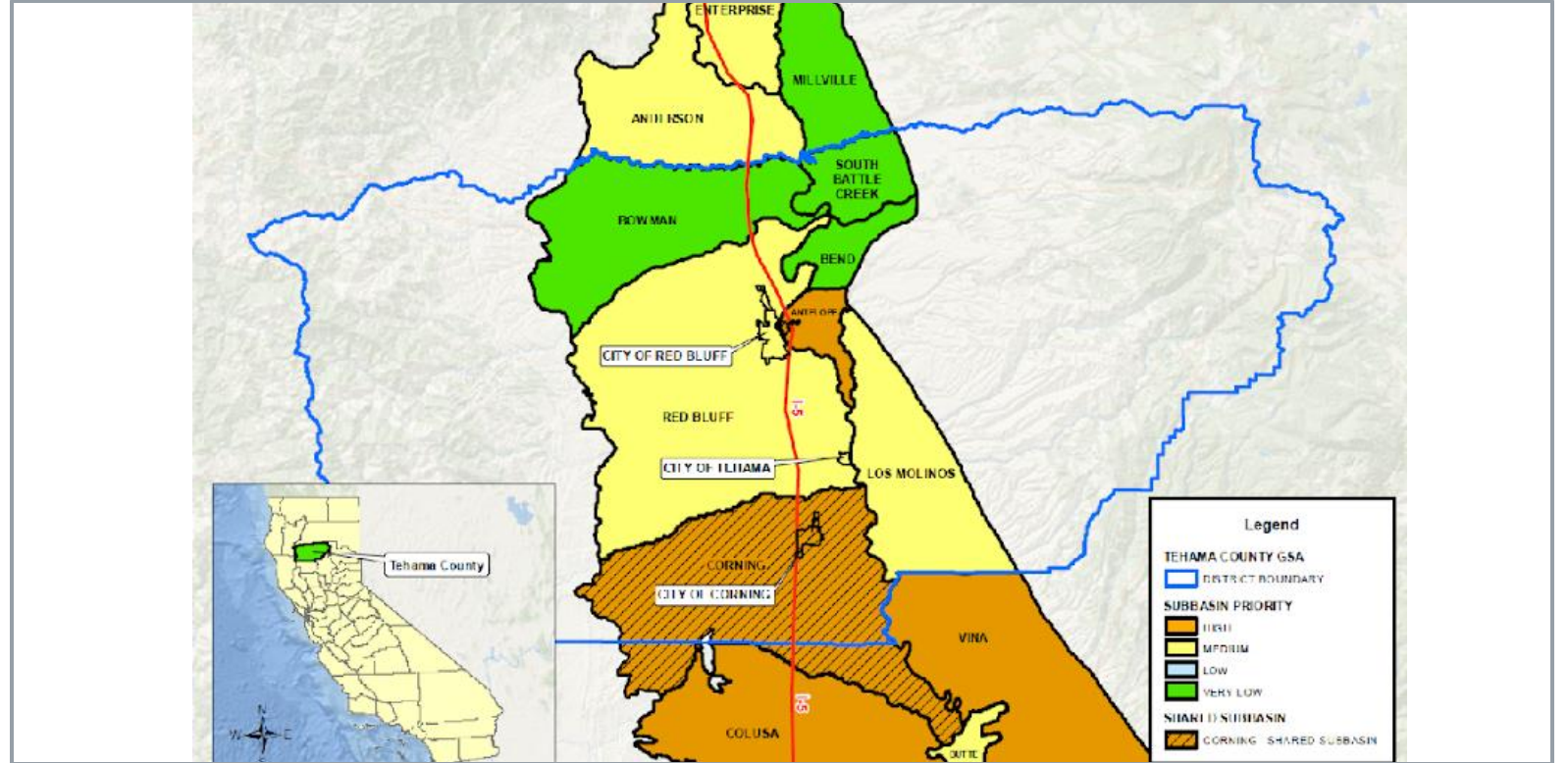
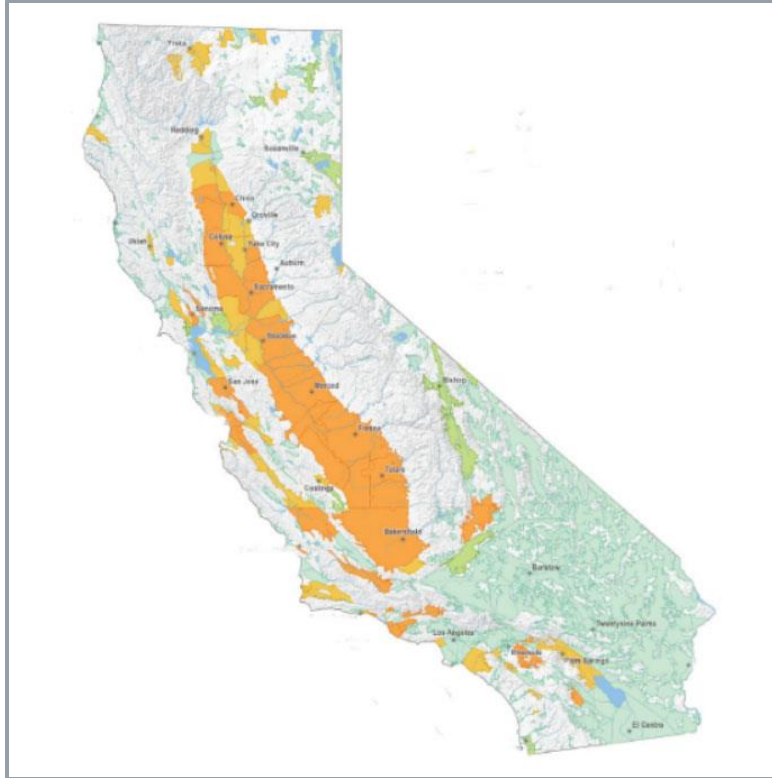
**7:30pm** *Open time for discussion and public input*



# Participation Protocols

*Today we are...*

- Aiming to hear from everyone – please be concise
- Working toward shared understanding – ask questions and listen to understand
- Capturing the public's thoughts
  - Use the mic
  - Submit written comment on cards provided
  - Email [tehamagsa@tcpw.ca.gov](mailto:tehamagsa@tcpw.ca.gov)



# Where We Are

GSP Implementation & Groundwater Conditions Updates

## SGMA Basics



The Sustainable Groundwater Management Act (SGMA) -- law was passed in 2014



Values Local Control  
Groundwater Sustainability Agencies (GSAs)



Management plans = Groundwater Sustainability Plans (GSPs)



GSPs submitted to the State by January 31, 2022



Sustainability must be achieved within 20 years  
(by 2042)

# What Is the Purpose of SGMA?

- Promote sustainable management of groundwater basins
- Enhance local management to protect our groundwater; State will step in if necessary
- Improve data collection and understanding of groundwater resources and management
- Avoid or minimize undesirable results to groundwater

## Undesirable Results



Lowering  
GW Levels



Reduction  
of Storage



Land  
Subsidence



Degraded  
Quality



Surface Water  
Depletion



Seawater  
Intrusion

# Tehama County GSA: Governance

## Guidance & Recommendations Groundwater Commission

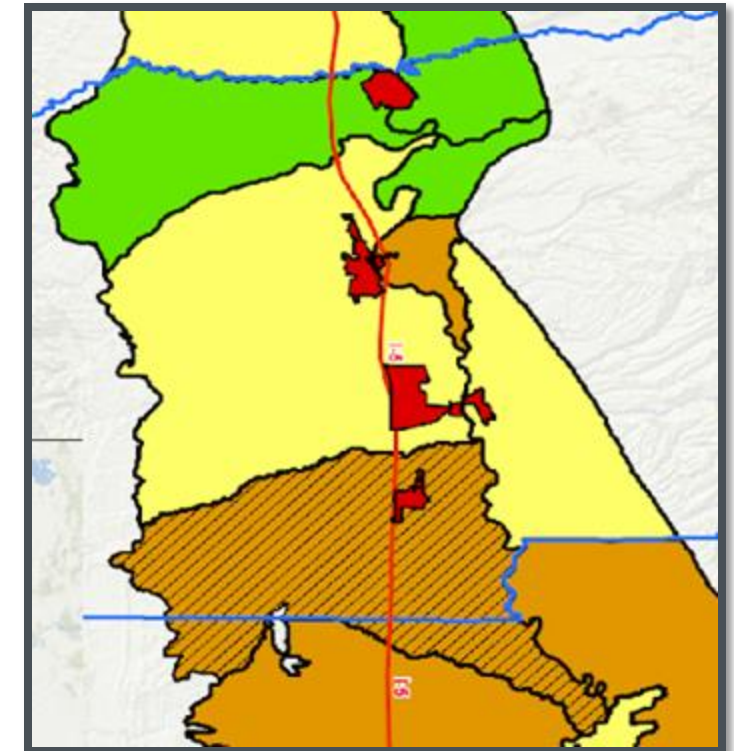
11 members representing cities, private pumpers, surface water and groundwater agencies, and County Supervisorial Districts

Meets 4th Wed. of the month at 8:30 am

## Final Decision-Making District Board of Directors

Comprised of 5 County Board of Supervisors:  
Hansen, Burroughs, Walker, Jones, *vacant*

Meets 3rd Monday of the month at 11am



Meeting Info: [TehamaCountyWater.org](http://TehamaCountyWater.org)

## Support District Staff & Consultants

District staff and consultants receive guidance and input from the Board, Commission, and stakeholders.

District Office and Hours: 1509 Schwab St,  
M-Th, 7:30a-4:30p

## Engagement Throughout Stakeholders and General Public

The GSA aims to raise awareness and engage stakeholders and the general public on GSP elements and SGMA implementation. Continued participation is essential to achieve sustainability.

# Corning Subbasin



TEHAMA COUNTY  
Flood Control and Water Conservation District



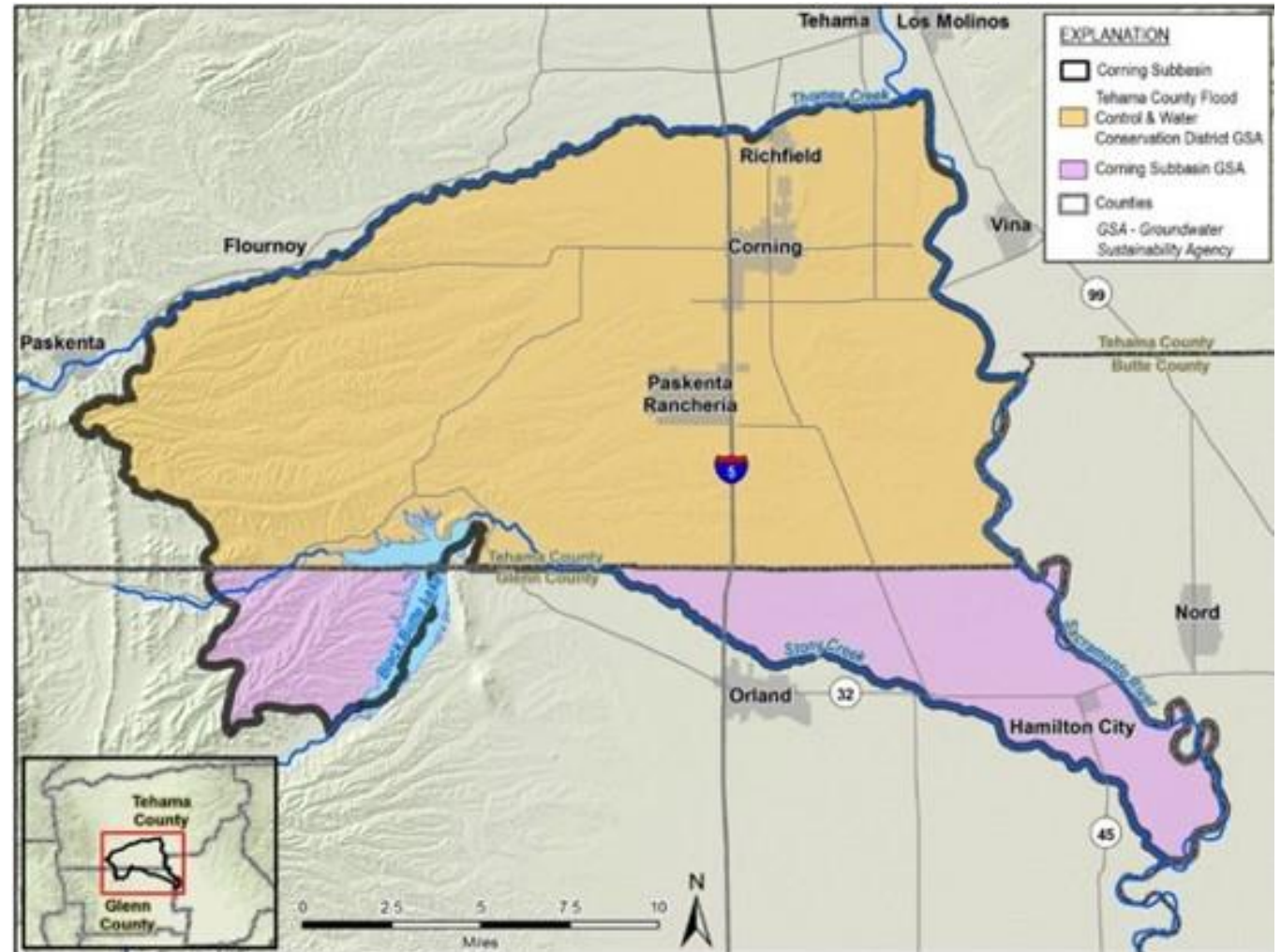
Co-managed by 2 GSAs

- Tehama County GSA
- Corning Sub-basin GSA
  - Glenn County
  - Glenn-Colusa Irrigation District
  - Monroeville Water District

1 GSP developed

Corning Subbasin Advisory Board (CSAB) meets the 1<sup>st</sup> Wednesday of each month

[CorningSubbasinGSP.org](http://CorningSubbasinGSP.org)



# SGMA Implementation Timeline



- [GSPs on website](#)
- Mailing list for updates

TehamaCountyWater.org



Occurring throughout:

- Conduct Outreach & Engagement
- Measure Progress, Evaluate, and Modify

# PAST & ONGOING OUTREACH

- Newsletters
- Fact Sheets & Info Resources
- Public Meetings & Workshops
- Grant Updates Webpage
- Demand Management Survey
- Spanish-Language Radio & Surveys

[Grant Updates Webpage](#)

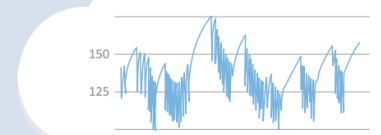


TEHAMA  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

## GROUNDWATER DEMAND MANAGEMENT

### Join the Antelope Subbasin GSA Community Domestic Monitoring Program

The Antelope Subbasin is establishing a monitoring program to track water levels in 25 volunteer wells over a five-year period. Thanks to grant funding, all monitoring equipment, installation, and data management are covered.



#### Why Do

- Wells are threatened by business and residential development.
- State law requires groundwater management plans for all medium and large basins to achieve sustainable groundwater conditions.
- Four Tehama County Subbasins: Corning, Red Bluff, Los Molinos, and Antelope.

Volunteers provide valuable information on groundwater level data to help manage confidential groundwater resources. Informing the public about groundwater resources is a key goal of the program.

Sustainable Groundwater Management Implementation  
**Fall 2025 Newsletter** | Corning, Red Bluff, Los Molinos, and Antelope Subbasins



The California Department of Water Resources (DWR) awarded \$15 million to the Corning, Red Bluff, Los Molinos, and Antelope Subbasins for the Tehama County Flood Control and Water Conservation District GSA (TCFCWD) Sub-basin GSA (CSGSA). The funding supports implementation of the four Groundwater Sustainability Plans (GSPs) and advances critical projects and management actions toward long-term groundwater sustainability. **This newsletter provides updates from the GSAs and the technical consulting team led by Luhdorff & Scalmanini Consulting Engineers, Inc. as they work to complete the grant-funded projects during 2026.**

#### Updates on Recharging Groundwater

Managed Aquifer Recharge (MAR) projects are gaining momentum across the region, with new permits, infrastructure, and landowner partnerships well underway. Here are the latest updates from the Corning, Red Bluff, and Los Molinos Subbasins:

**Corning:** Five-year recharge permit applications



# Groundwater Conditions

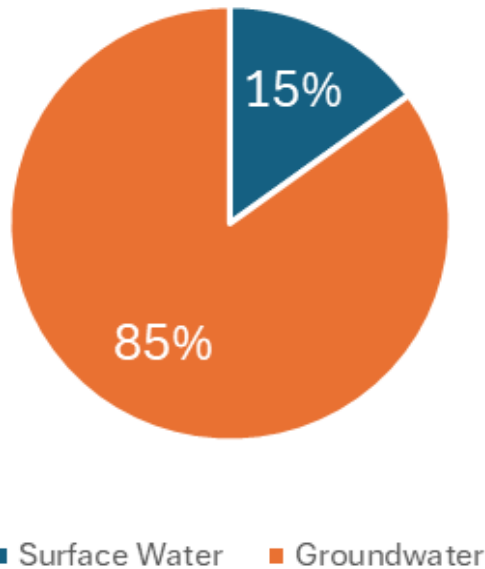
Dec. 2025 Public Workshops



**Luhdorff &  
Scalmanini**  
Consulting Engineers

# Tehama County Water Portfolio – Average Year

Tehama County Water Portfolio - % Total



- Groundwater use increases during dry years.
- Surface water availability decreases during dry years.
- Tracking water conditions = water management tool.

## WATER MANAGEMENT STRATEGIES

Groundwater Recharge

Using Available SW Supplies

Storm-Flood Water Capture

Demand Management

Monitoring/Assessment

- Monitoring/Assessment part of water management.
- More data can inform water management strategy.

# Tracking Groundwater Conditions

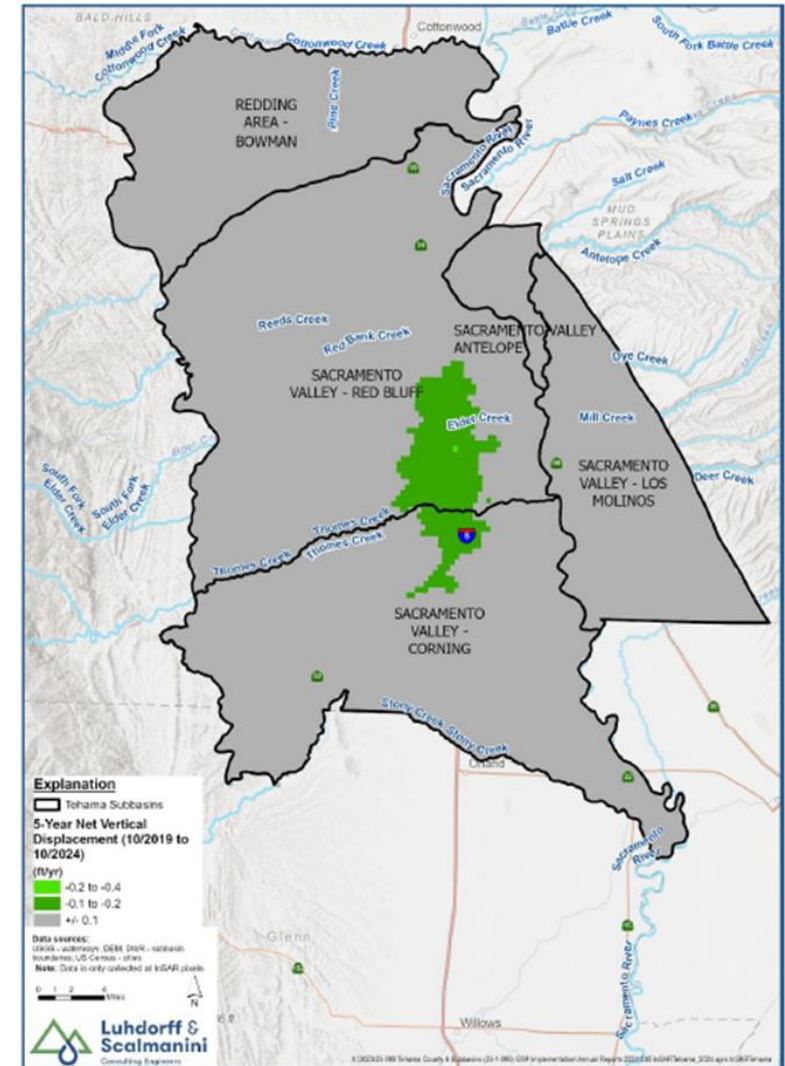
## Tehama Region Groundwater Concerns

- Groundwater Overdraft

Tehama Subbasin	Estimated Overdraft (afy)
Corning	20,000 – 30,000
Red Bluff	15,000 – 20,000
Overdraft varies with hydrologic conditions.	

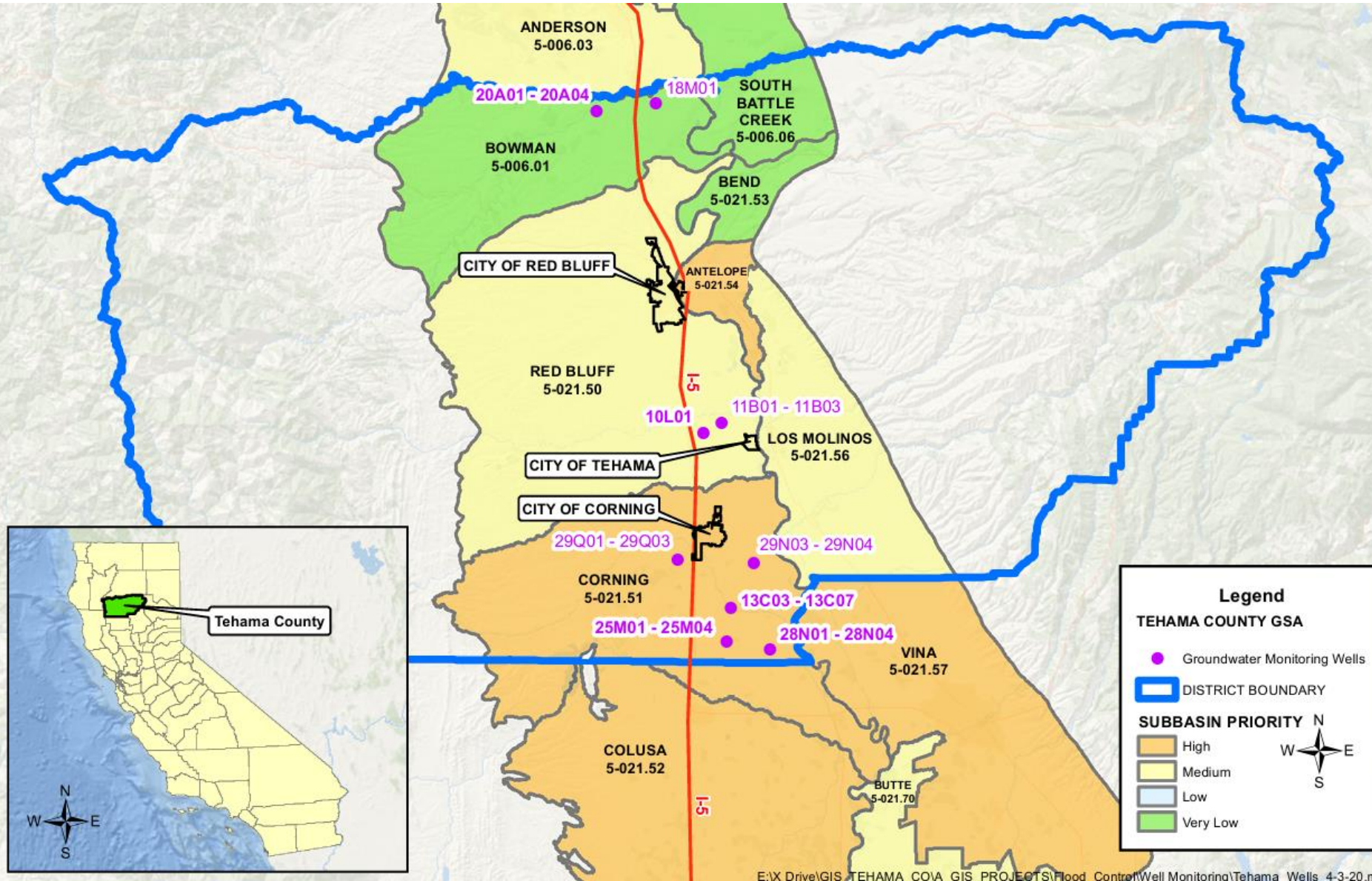
Monitoring helps us identify areas of risk and develop strategies to mitigate risk.

- Groundwater Subsidence – 5 Year Snapshot



# Tracking Groundwater Conditions Part of Water Management Strategy

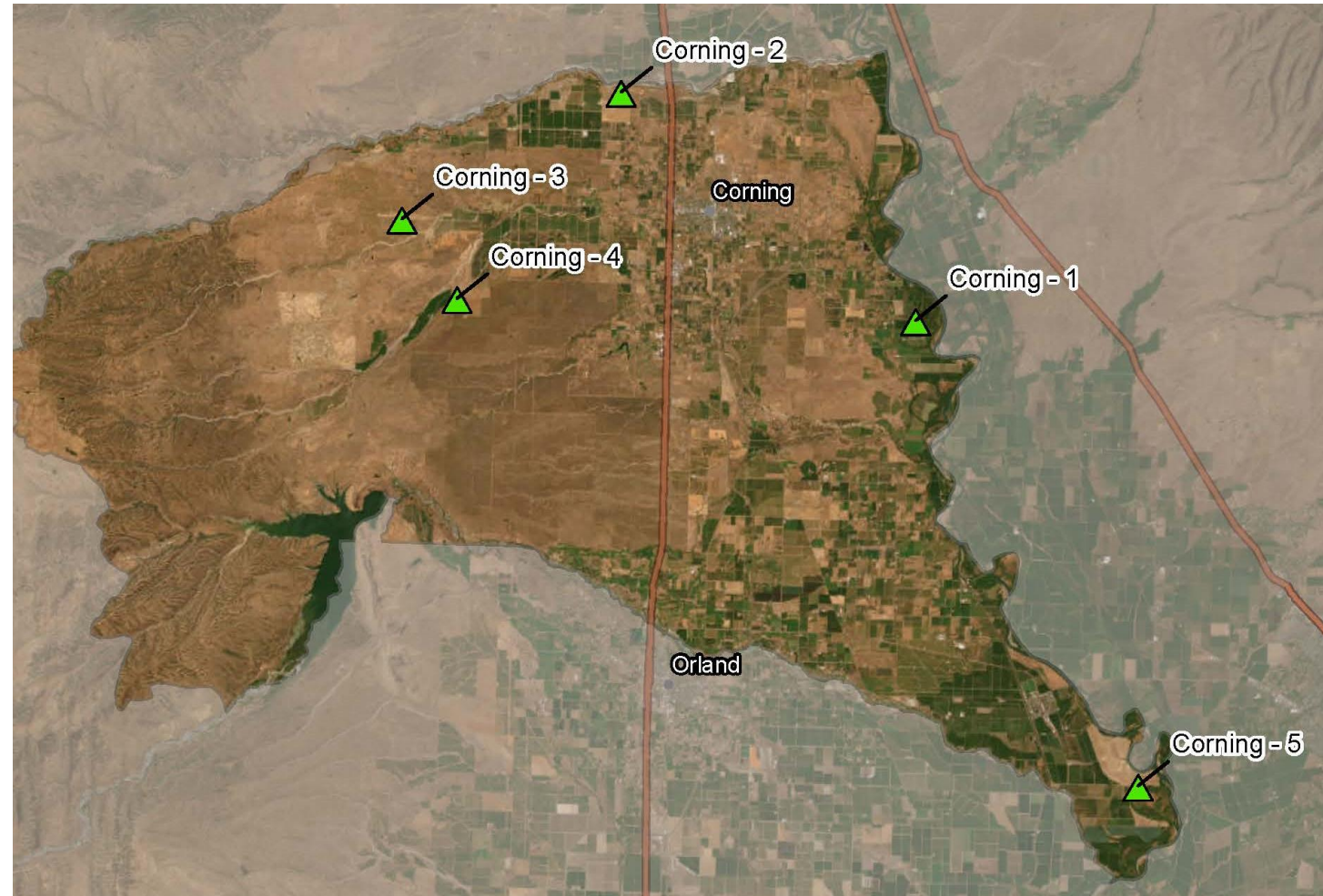
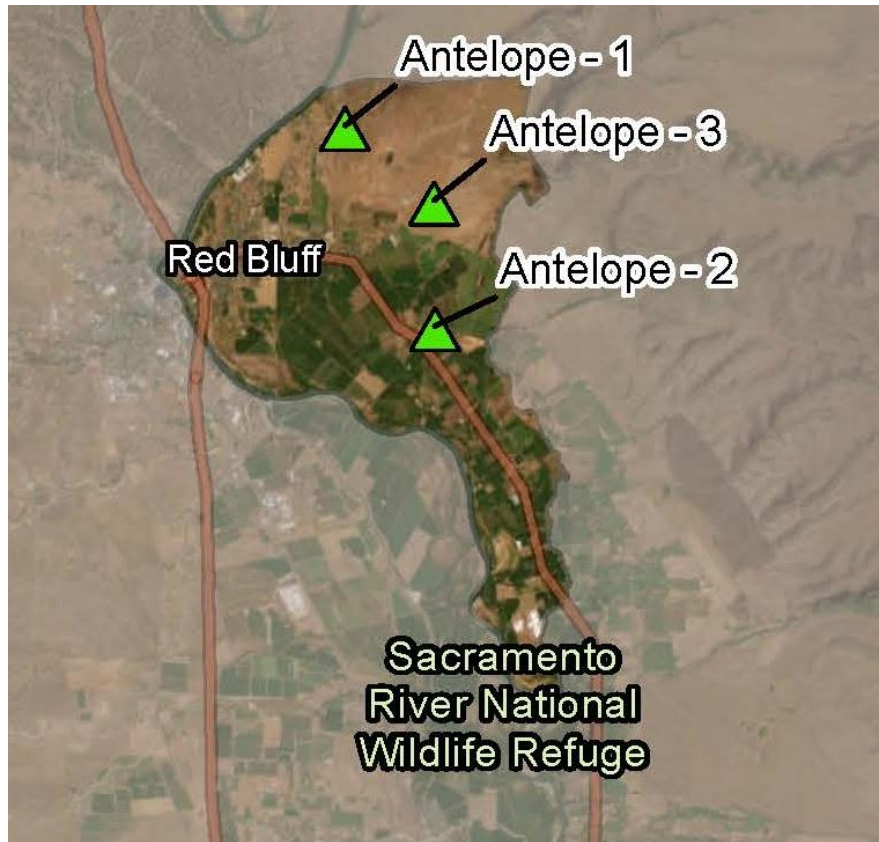
- Existing Monitoring Network Location Map.
- Additional monitoring wells added in 2025 using DWR grant funds.



# Tracking Groundwater Conditions

## Added Monitoring Wells in 2025 – Using DWR Grant Funds

- Additional Multi-Completion Monitoring Wells Added In the Antelope and Corning Subbasins.

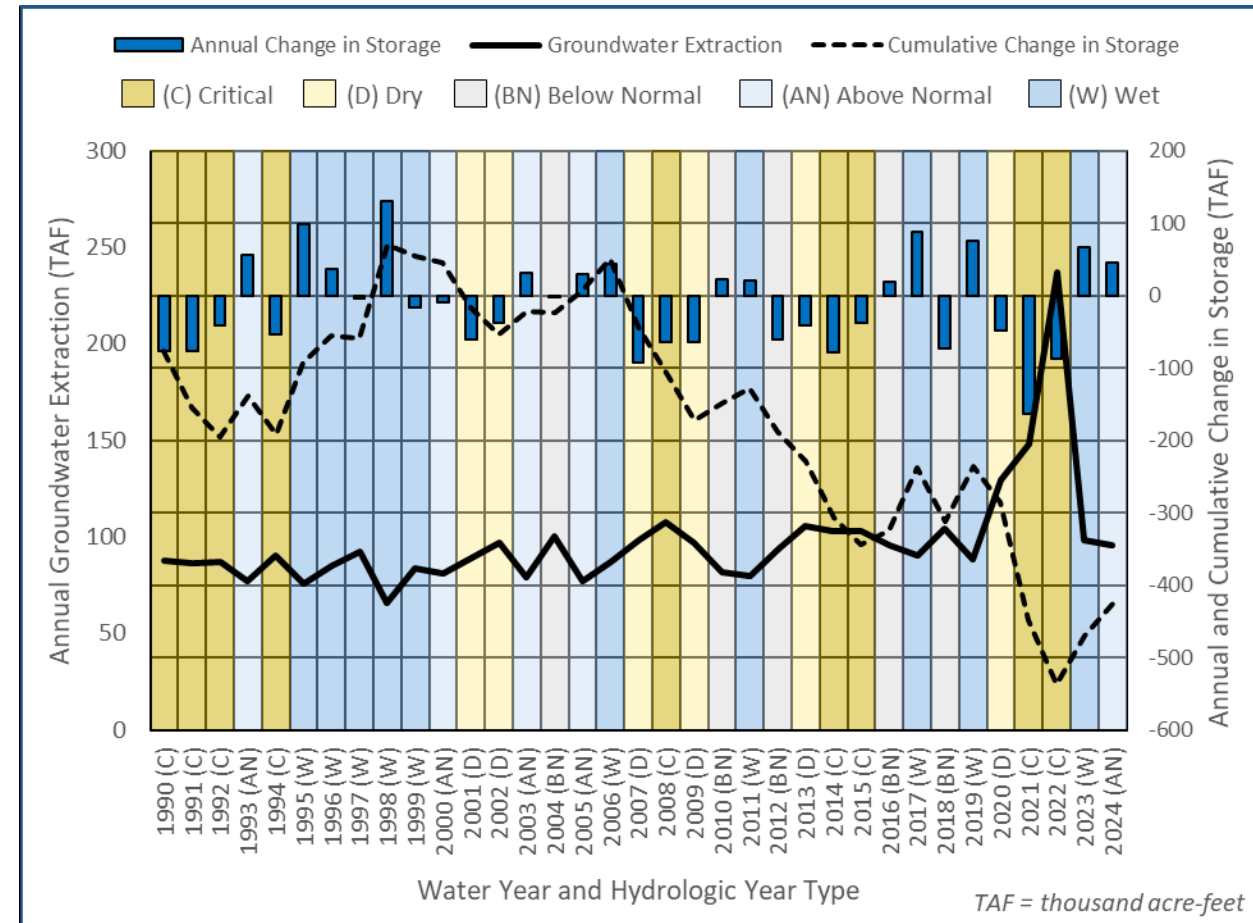
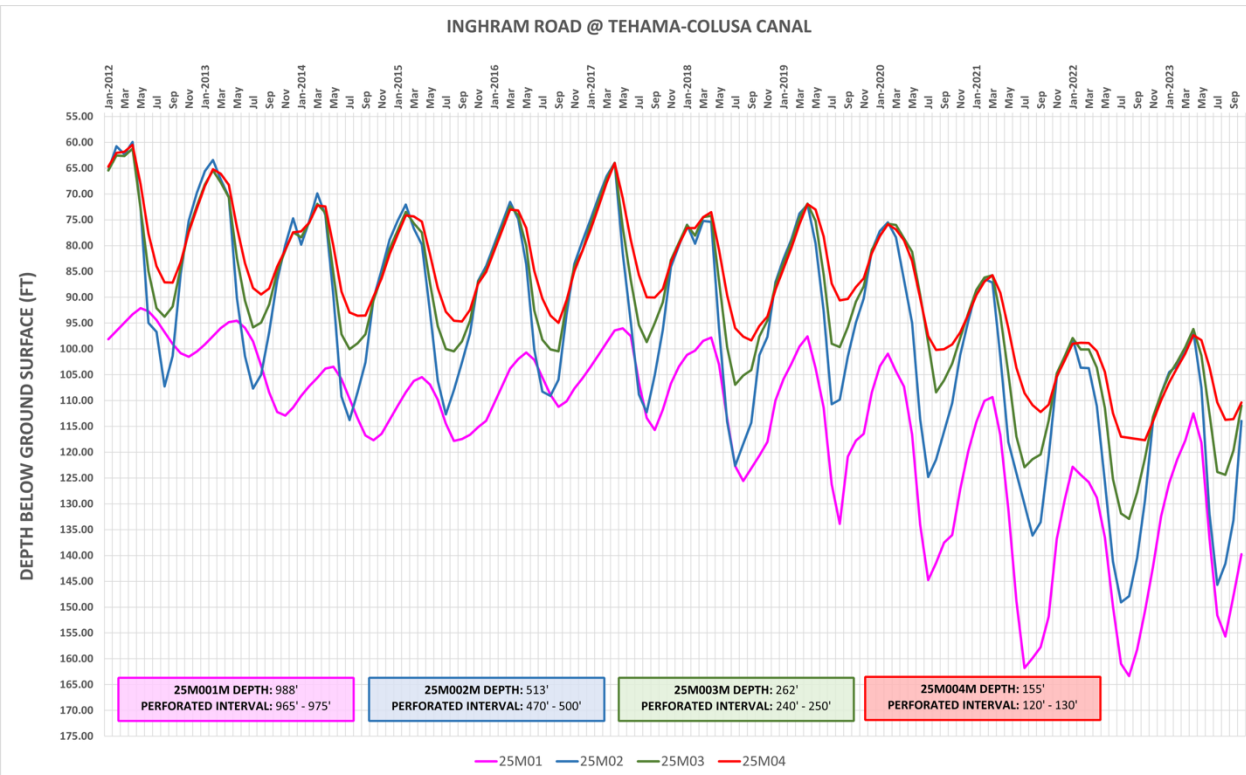


# Tracking Groundwater Conditions

## Examples: Monitoring Data Available

- Individual Well Hydrograph Example

- Changes In Groundwater Storage Example.



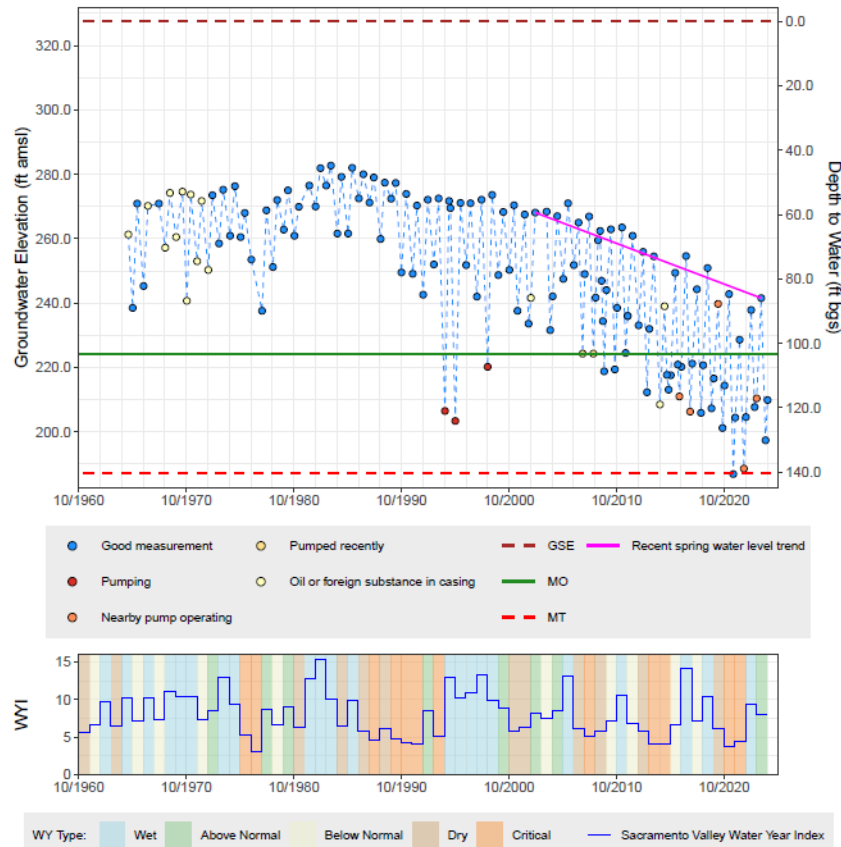
# Tracking Groundwater Conditions

## Examples of Groundwater Overdraft

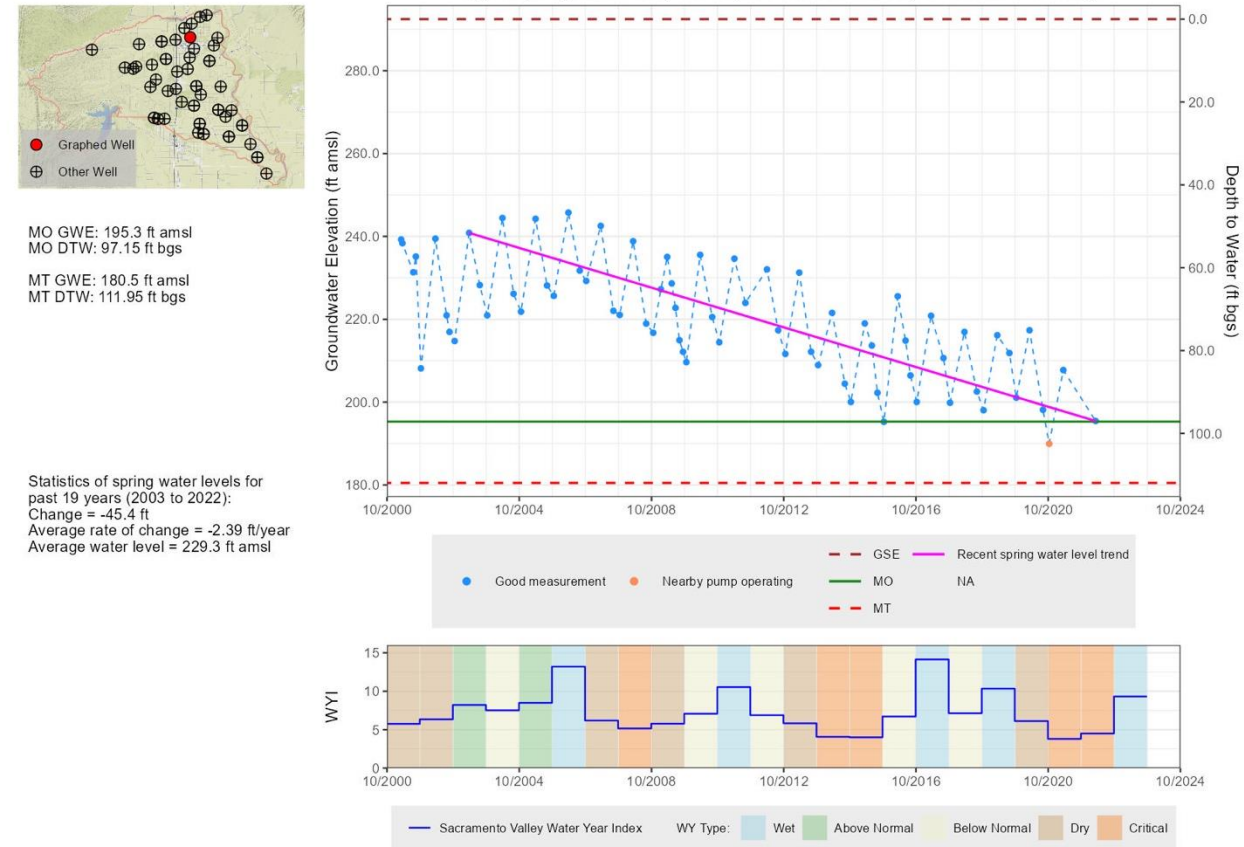
- Example of Overdraft in the Red Bluff Subbasin.

- Example of Overdraft in the Corning Subbasin.

**Red Bluff Subbasin – State Well Number (SWN) 25N03W19N001M (RB-5U)**  
Upper Aquifer Well Depth: 370 ft. Perforation top & bottom: 135 – 358 ft bgs



**Corning Subbasin - State Well Number (SWN) 24N03W14B001M**  
Upper Aquifer (Shallow Zone) Well Depth: 140 ft. Perforation top & bottom: 130 - 140 ft bgs



Groundwater monitoring data link: [Groundwater Level Monitoring - Tehama County Flood Control and Water Conservation](https://www.tchfd.com/groundwater-level-monitoring)

District



# GW Levels WY2024 – Red Bluff Subbasin

**Table 5-2. Measurable Objectives, Minimum Thresholds, and Seasonal Groundwater Elevations of Representative Monitoring Site Wells**

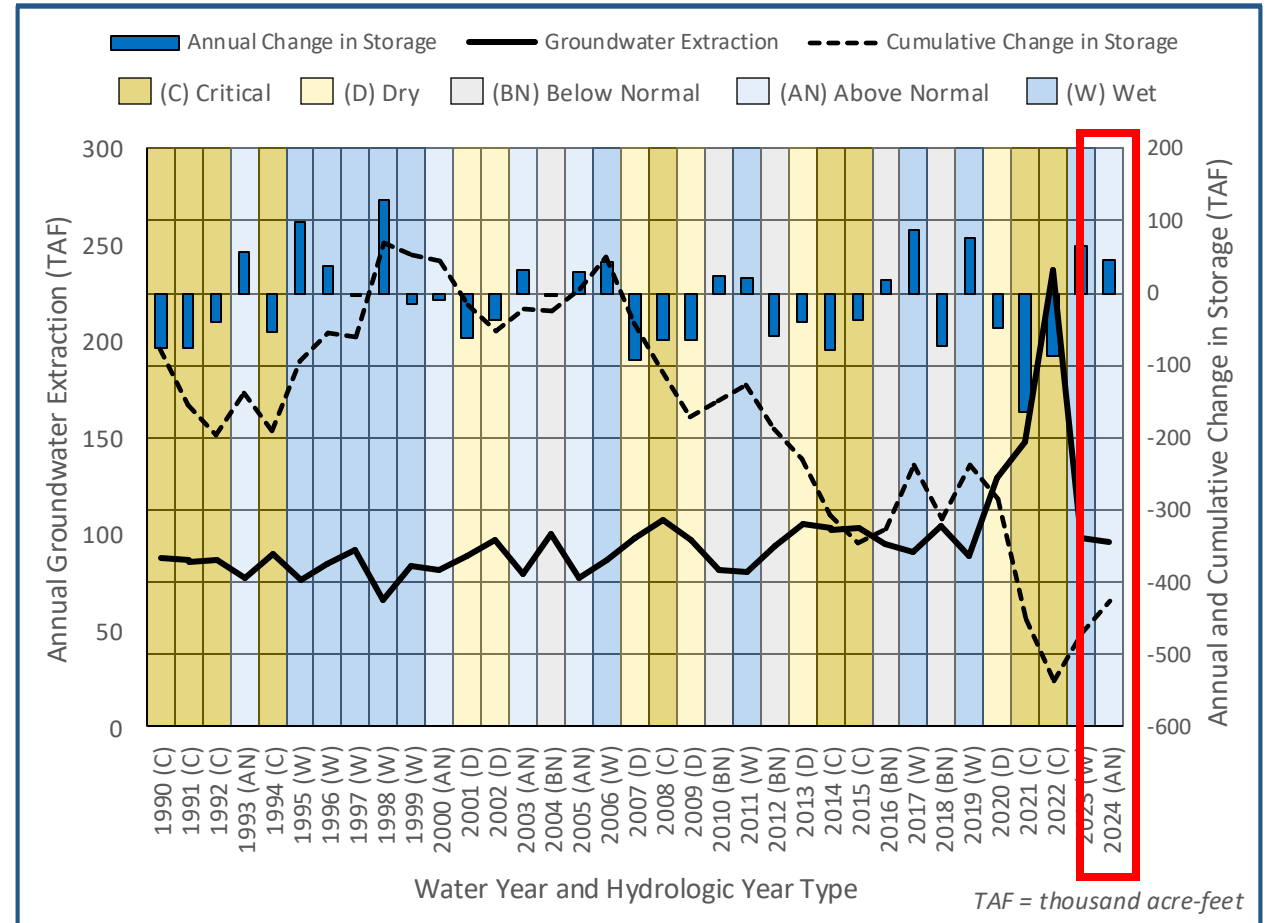
Representative Monitoring Site (RMS) ID	Groundwater Elevation (feet above mean sea level)				Spring 2024 vs. MO	Fall 2024 vs. MO	Spring 2024 vs. Spring 2023 (seasonal high)	Fall 2024 vs. Fall 2023 (seasonal low)
	2024 Measurements		MO	MT				
	Spring (Seasonal High)	Fall (Seasonal Low)						
<b>Upper Aquifer</b>								
RB-1U	435.83	424.93	432.4	394	3.43	-7.47	12.1	-1.4
RB-2U	244.14	--	241.5	221	2.64	--	0.5	--
RB-3U	263.96	--	257.1	255	6.86	--	10.3	--
RB-4U	224.85	195.55	203	169	21.85	-7.45	--	0.26
RB-5U	241.54	209.87	224.2	187	17.34	-14.33	3.7	-0.52
RB-6U	--	402.9	401.3	396	--	1.6	--	--
RB-7U	--	--	329.1	328	--	--	--	--
RB-9U	--	--	--	--	--	--	--	--
<b>Lower Aquifer</b>								
RB-8L	219.86	197.38	202	166	17.86	-4.62	4.92	0.05
RB-10L	424.85	420.74	--	--	--	--	-1.51	-4.71

- 4 of the 5 wells with fall measurements fell below MO in Fall 2024
- No wells fell below the MT in spring or fall 2024
- 3 wells had higher elevations in fall 2023 than fall 2024 (RB-1U, RB-5U, and RB-10L)

# Groundwater Storage in WY2024 – Red Bluff Subbasin

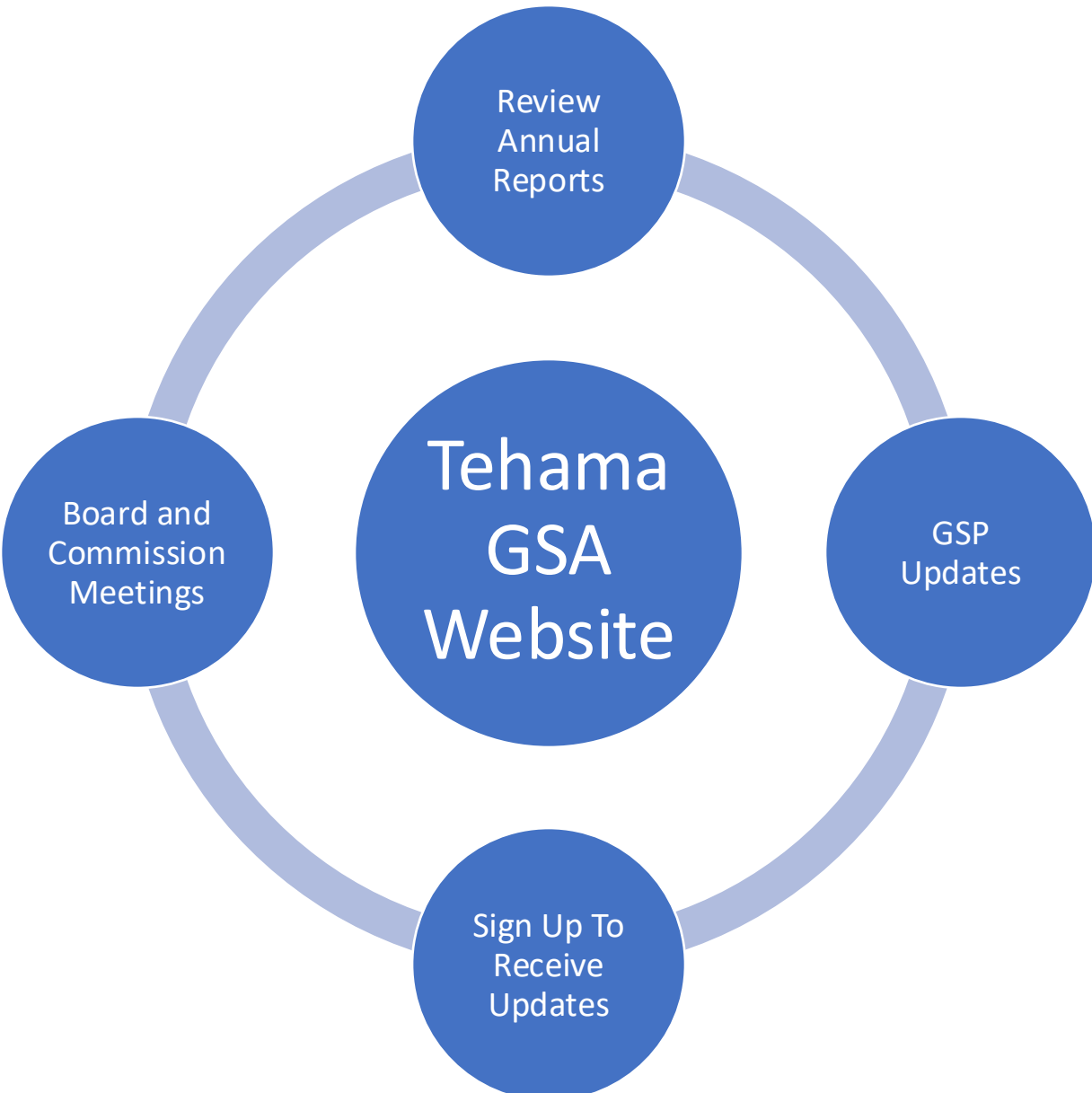
**Table 4-1. Change in Groundwater Storage**

Water Year & Type	Groundwater Extraction (af)	Annual Groundwater Storage Change (af)	Cumulative Groundwater Storage Change (af)
2010 (BN)	95,400	19,000	-323,400
2017 (W)	90,600	88,000	-237,400
2018 (BN)	104,200	-74,000	-311,400
2019 (W)	88,300	75,000	-236,400
2020 (D)	129,300	-49,000	-285,400
2021 (C)	148,100	-164,000	-449,400
2022 (C)	237,300	-87,000	-536,400
2023 (W)	98,000	66,000	-470,400
<b>2024 (AN)</b>	<b>95,800</b>	<b>44,800</b>	<b>-425,600</b>
<b>Historic Averages (2000-2023)</b>			
2000-2023 (23 years)	97,094	-13,835	
W (9 years)	84,680	54,010	
AN (4 years)	78,475	26,875	
BN (5 years)	95,060	-18,600	
D (6 years)	102,617	-57,667	
C (9 years)	116,611	-75,444	



- Total (upper and lower aquifer) change in storage: 44,800 AF
- Cumulative storage reductions during multiple-year drought conditions.

# Groundwater Conditions – Staying Updated!



# What We're Doing Overview of Actions: Supply and Demand

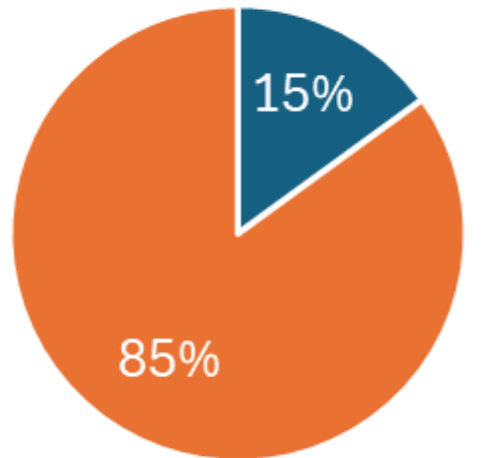
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Consulting Engineers

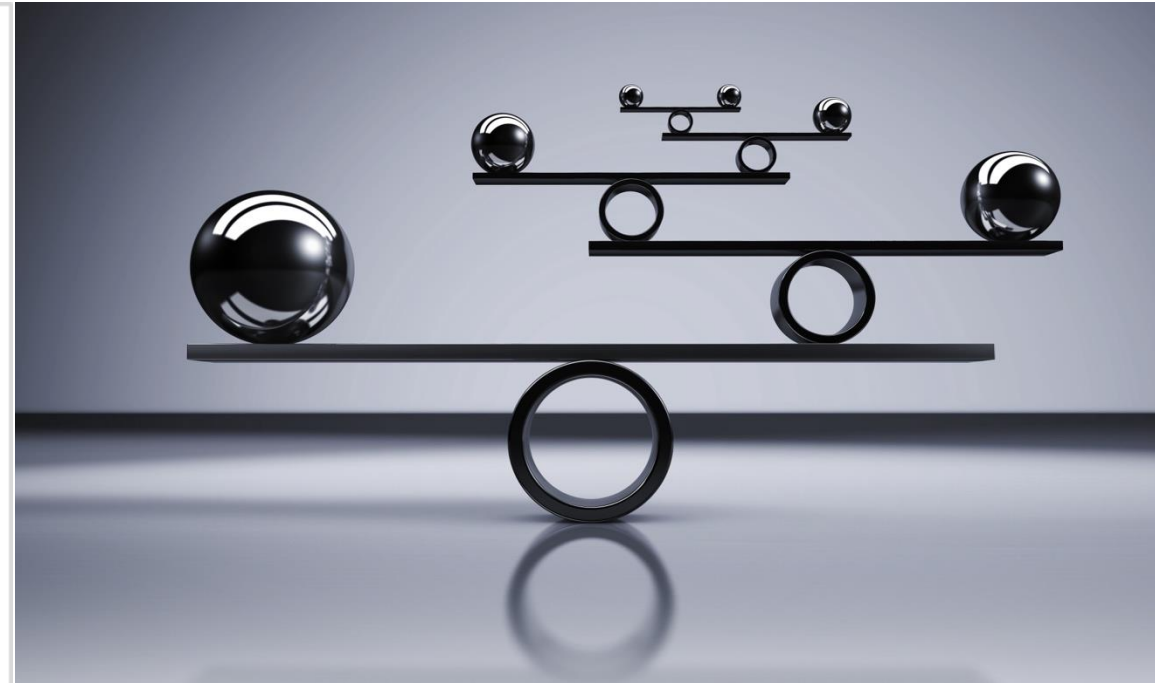
# Tehama GSA Water Portfolio Management

Tehama County Water Portfolio - % Total



■ Surface Water ■ Groundwater

- Groundwater use increases during dry years.
- Surface water availability decreases during dry years.
- Tracking water conditions = water management tool.



- Increasing supplies – e.g. recharge, flood, sw use.
- Reducing demands – through efficiency measures & potential use restrictions.
- Goal = balance supplies and demands.
- Final Supply/Demand mix to be determined.

# Tehama GSA Water Management Approach

## WATER MANAGEMENT STRATEGIES

Groundwater Recharge

Using Available SW Supplies

Storm-Flood Water Capture

Demand Management

Monitoring/Assessment

- Have tools in the toolbox.
- Apply the tools as needed.
- Allow flexibility for changing conditions.

### Water Management Strategies: Increasing Supplies

- GW Recharge
- Using Available SW
- Flood-Storm Water Capture
- Monitoring/Assessment

### Water Management Strategies: Reducing Demands

- Demand Management
- Monitoring/Assessment

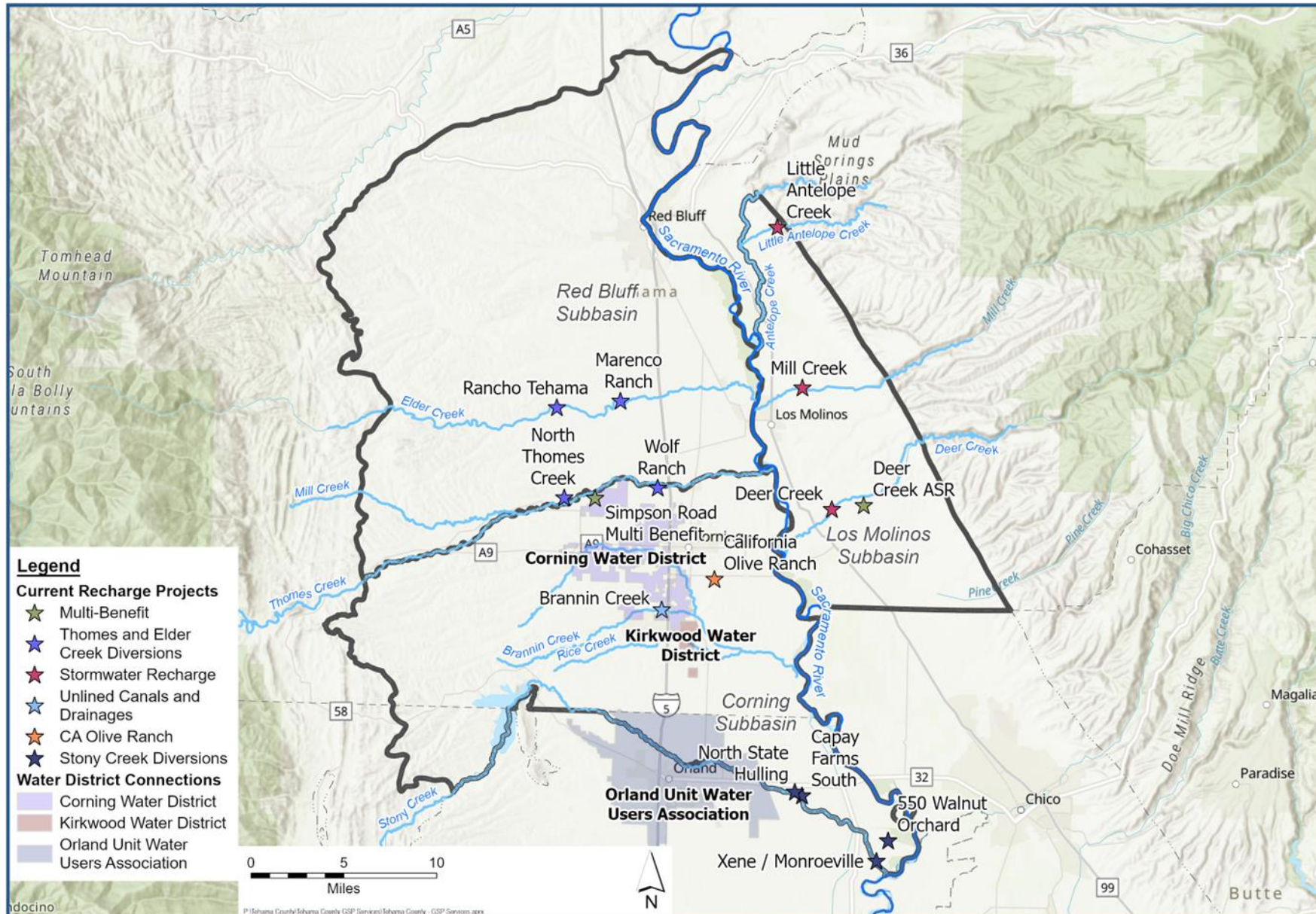
### The Trade-off:

As water supply mix increases, demand management decreases.

As water supply mix decreases, demand management increases.

# Tehama GSA Water Portfolio Management

## Additional Water Supply Evaluation – Project Map



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# Supply-Recharge Projects

Can have high capital costs.

Can have high operational costs.

May require permits and/or environmental compliance.

May require landowner agreements.

Requires landowner cooperation.

New supplies can be cost prohibitive.

Not always the best solution.



# Red Bluff Subbasin Recharge Potential Benefit Summary - Work in Progress

Subbasin	Project	Estimated Annual Recharge
Red Bluff	Multi-Benefit RCD Project	375
Red Bluff	Elder Creek Recharge- Rancho Tehama	220
Red Bluff	Elder Creek Recharge- Marengo Ranch	220
Red Bluff	Thomes Creek Recharge- North Thomes Creek	158
Red Bluff	Stormwater Recharge Assessments	1,000
Red Bluff	Proberta WD	2,500
Red Bluff	Thomes Creek WD	4,175
<b>Red Bluff</b>	<b>Total</b>	<b>8,648</b>

## Average (2015-2024)

- Change in Storage: - **11,820 AFY**
- Groundwater Extraction: - **120,00 AFY**

# Corning Subbasin Recharge Potential Benefit Summary - Work in Progress

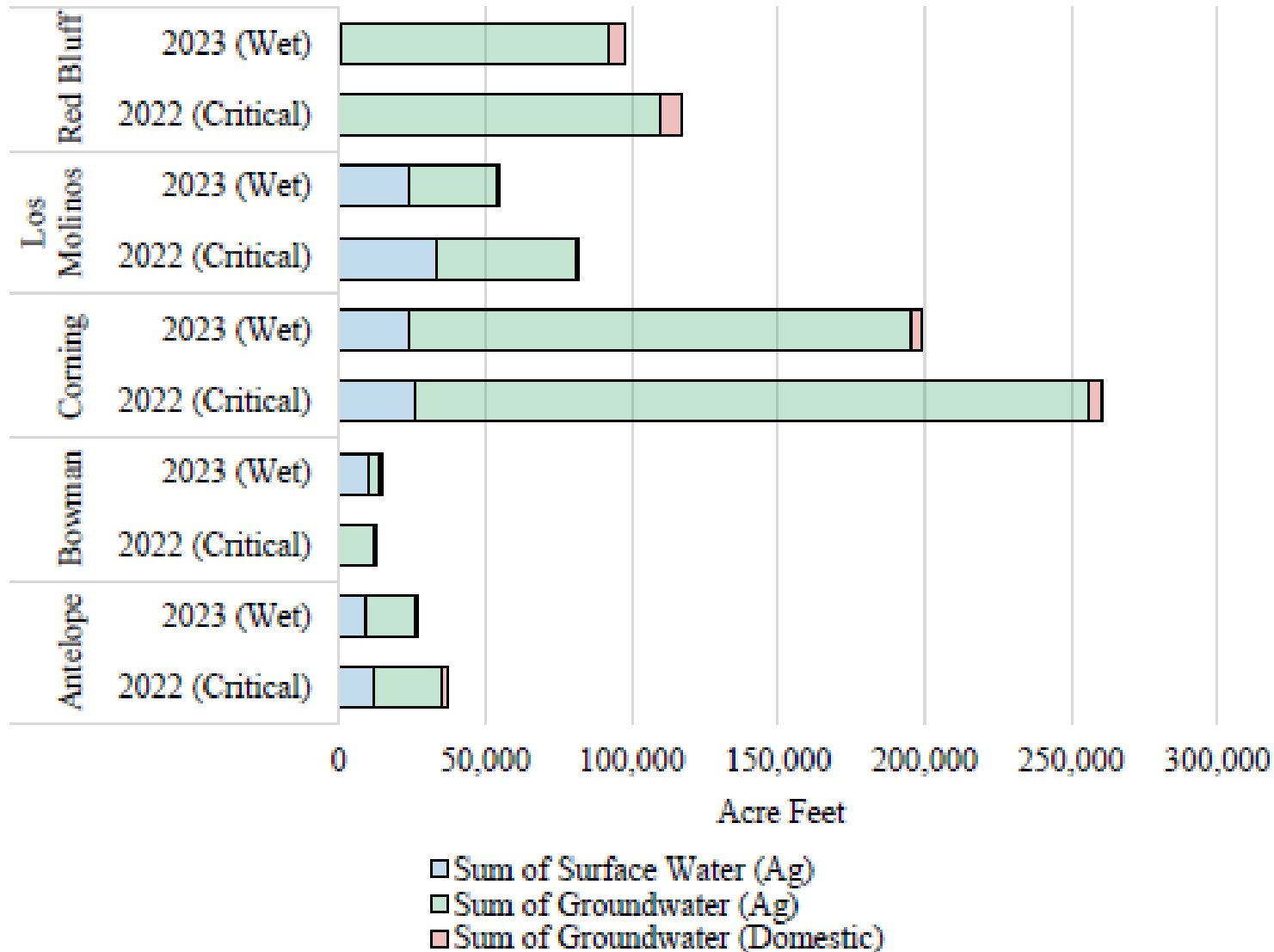
Subbasin	Project	Estimated Annual Recharge
Corning	Simpson Road Multi-Benefit Project	1,360
Corning	Thomes Creek Recharge- Wolf Ranch	160
Corning	Brannin Creek Project	500
Corning	California Olive Ranch	1,142
Corning	Stony Creek Recharge- North State Hulling	300
Corning	Stony Creek Recharge- Capay Farms South	600
Corning	Stony Creek Recharge- Prune Orchard	90
Corning	Surface Water Connections- Corning Water District	1,520
Corning	Surface Water Connections- Kirkwood Water District	832
Corning	Surface Water Connections- Orland Unit Water Users	284
<b>Corning</b>	<b>Total</b>	<b>6,788</b>

### Average (2015-2024)

- **Change in Storage: - 20,000 AFY**
- **Groundwater Extraction: -230,00 AFY**

# Yehama GSA Water Portfolio Management Demand Management Evaluation


Figure 4. Total Water Use by Subbasin, Acre Feet (2022-2023)



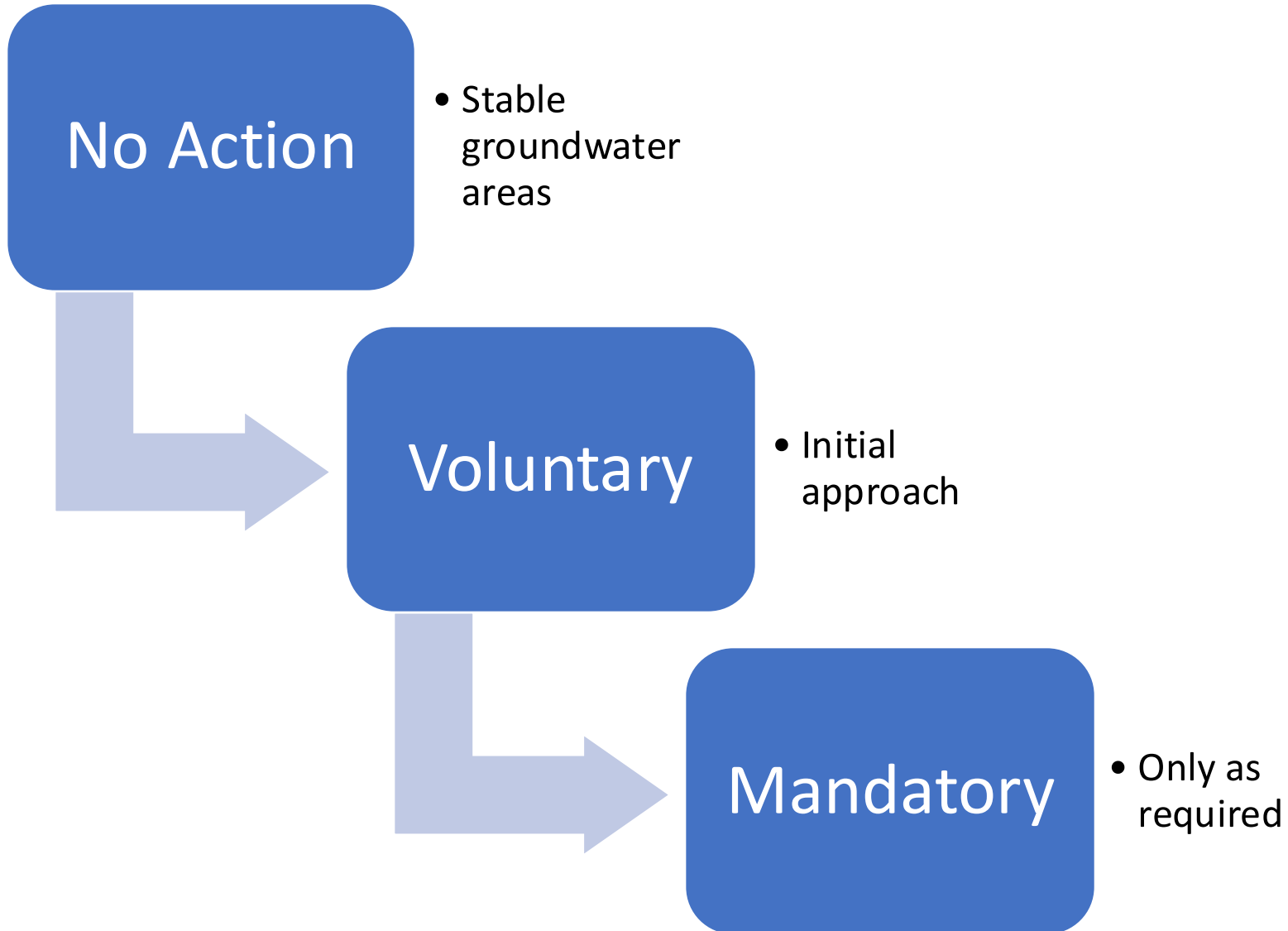
# Tehama GSA Water Portfolio Management Demand Management Evaluation

**Table 2. Summary of Tehama County Subbasin Projects and Management Actions (PMAs)**

Subbasin	Data Improvement	Recharge	In-Lieu	Conservation Education	Non-Beneficial ET	Demand Management
Bowman	Well registration	Various recharge projects		Workshops and materials		Best practices, conservation, incentive programs
Red Bluff	Well registration	6 sites targeted; 535 AFY yield		Workshops and materials	Invasive plant removal	Fees, land use restrictions, following incentives
Antelope	Well registration	Various recharge projects	Utilize SW supplies	Workshops and materials		Best practices, conservation, incentive programs
Los Molinos	Well registration	Various recharge projects		Workshops and materials		Best practices, conservation, incentive programs
Coming	Well registration	12 sites targeted; 1,749 AFY yield	CA Olive Ranch; Utilize SW supplies	Workshops and materials	Invasive plant removal	Fees, land use restrictions, following incentives

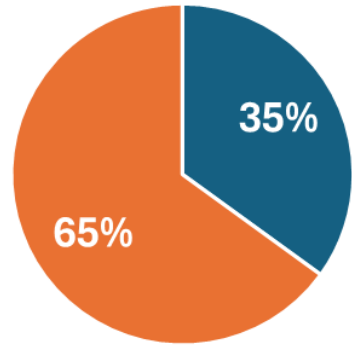


# Lenaha GSA Water Portfolio Management Demand Management Evaluation - Approach



# Scenarios For Meeting Groundwater Sustainability Requires A Mix of Supply and Demand Actions

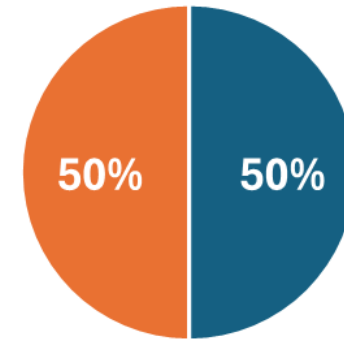
**Scenario 1 - More Demand Management**



■ Groundwater Recharge ■ Demand Management

GSA Ad-hoc Committees are working on evaluating scenarios to achieve groundwater sustainability.

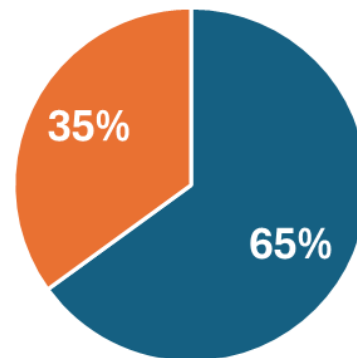
**Scenario 2 - Balanced Approach**



■ Groundwater Recharge ■ Demand Management

Demand management reduces water use at the parcel level.

**Scenario 3 - More Groundwater Recharge**



■ Groundwater Recharge ■ Demand Management

Groundwater recharge replenishes groundwater availability.

# Fine Tuning Recharge vs. Demand Management Solution

Estimated Annual GW Overdraft Range (2025)		
	Corning	Red Bluff
Estimated GW Overdraft	20,000-30,000	15,000-20,000
<b>Recharge Options</b>		
Use SW Sources	1,650	1,650
Recharge-Storm/Flood	7,500	7,500
Unlined Canals/Drainages	750	750
CA Olive Ranch	1,140	
Thomes/Elder Creek Div.	3,050	
Other Recharge Options		
<b>Recharge Sub-total</b>	<b>14,090</b>	<b>9,900</b>
Demand Management	5,910	5,100
Recharge + Demand Mgmt.	20,000	15,000
<b>Overdraft</b>	<b>0</b>	<b>0</b>

Overdraft conditions may vary due to changing hydrologic conditions.



Must be cost-effective in selecting optimal mix of recharge and demand management actions that achieve groundwater sustainability goals.

# Achieving Groundwater Sustainability – With Flexibility

Striking a balance between increasing supplies and reducing demands in a cost-effective manner.

## Schedule:

2026 – Programs Begin

2042 – SGMA Deadline



## Costs:

Both supply and demand cost \$.

Total solution cost = \$millions

State Intervention > local costs.

Working together to establish local solutions to maintain local control.

# What You Can Do

*These slides will be posted on [tehamacountywater.org](https://tehamacountywater.org) where the links can be accessed*

Topic	What you can do
<b>Well Registration</b> <a href="#">More Info</a>	Register your well so the County has accurate information and fees are correctly assessed <a href="#">Link to well registration form</a>
<b>Water District Connection</b>	If you're within a water district and not connected, get connected! <i>Email us at <a href="mailto:TehamaGSA@tcpw.ca.gov">TehamaGSA@tcpw.ca.gov</a></i>
<b>Volunteer Monitoring Program</b> More Info: <a href="#">Antelope subbasin</a>   <a href="#">Corning Subbasin</a>	Volunteer your well to monitor groundwater levels, and gain insight into your own well operations <a href="#">Link to learn more or sign up</a>
<b>Landowner Recharge</b> <a href="#">More info about groundwater recharge</a> <a href="#">More info about recharge projects in Tehama County</a>	Tehama GSA is always looking for ideas for recharge projects and landowners who want to help. <a href="#">Link to submit recharge ideas</a>

<https://tehamacountywater.org/>

# What We're Doing Overview of Actions: Mitigating Dry Wells

Dec. 2025 Public Workshops



**Luhdorff &  
Scalmanini**  
Consulting Engineers

# Mitigating Dry Wells – Dry Well Mitigation Program

[On The Tehama GSA Website \(https://tehamacountywater.org/sgmp-round2grant/\)](https://tehamacountywater.org/sgmp-round2grant/):

## **Dry Well Reporting**

Residents with dry wells are encouraged to file a dry well report with Department of Water Resources at <https://mydrywell.water.ca.gov/report/>. Once the report is filed, Tehama County Environmental Health is notified. Reports may be filed directly with Environmental Health by calling (530) 527-8020.

## **Water Available to Residents With Dry Domestic Wells**

Water is available at [Mill Creek Park](#) and [Ridgeway Park](#) for Tehama County Residents with dry domestic wells. This water is for personal use. Bring your own hose and water containers to fill from the water spigot.

[Water Location Flyer](#)

# Mitigating Dry Wells – Dry Well Mitigation Program

On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

**Table 4.1. Tehama County - Drought Tracking Measures**

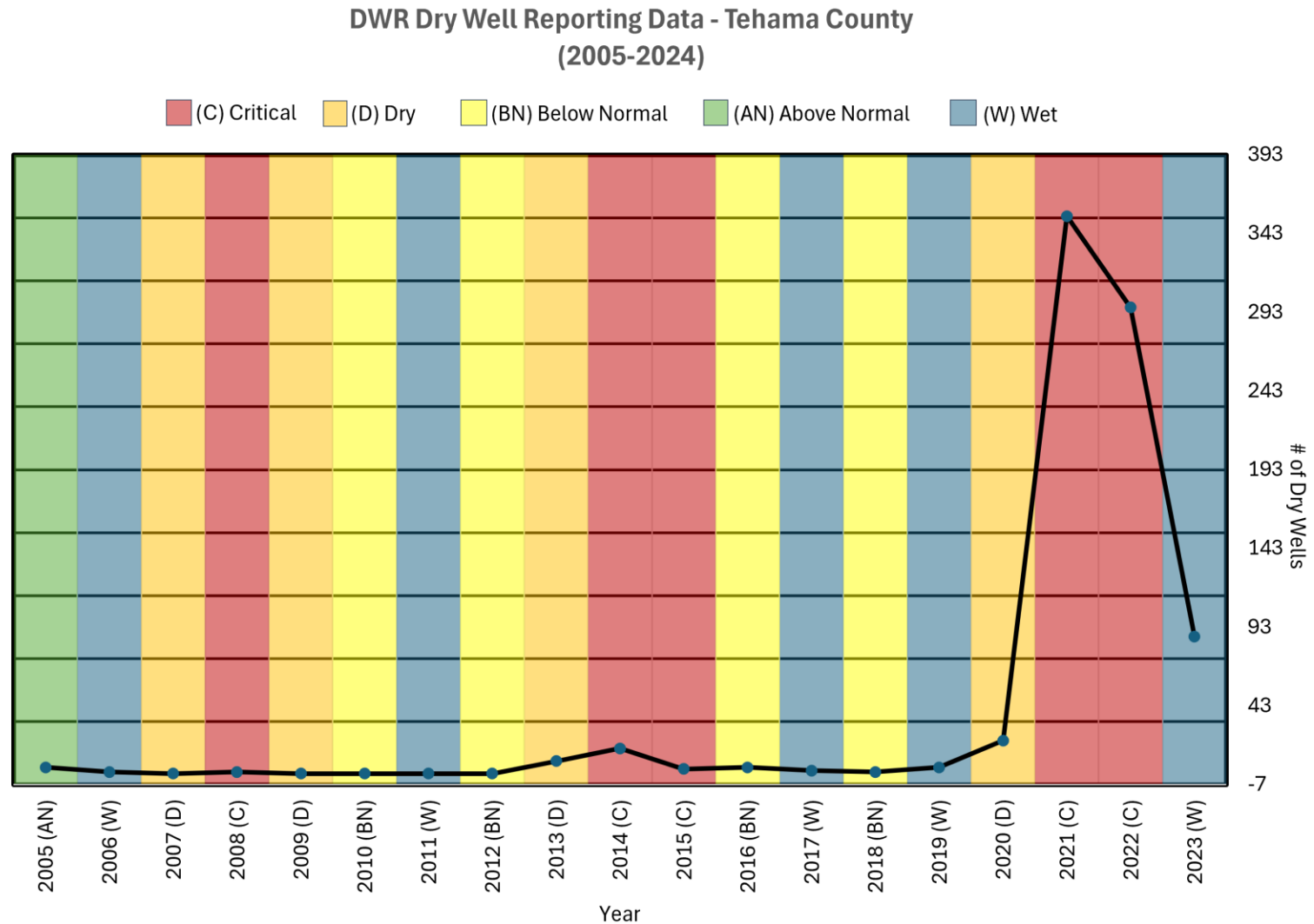
Drought Stage	Rainfall Totals	Groundwater Declines	Dry Wells Reported (DWR + County)	Sac. Valley Water Year Index	CVP Water Supply Cutbacks	Drought Response Actions
1	Normal, Above Avg.	0 wells below MTs	< 5 per month	Wet, Above Normal	0 - 25%	Long-term Resiliency Actions
2	Up to 30% below Avg.	10% wells below MTs	5-10 per month	Below Normal, Dry	25 - 50%	Moderate Drought
3	> 30% below Avg.	> 25% wells below MTs	> 10 per month	Dry, Critically Dry	> 50%	Severe Drought

Source: Tehama County Drought Resiliency Plan (FY24/25) – Approved June 2025.

# Mitigating Dry Wells – Dry Well Mitigation Program

On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

**Causes of Dry Wells:**  
Low water levels during drought conditions.  
Low water levels in over drafted locations.

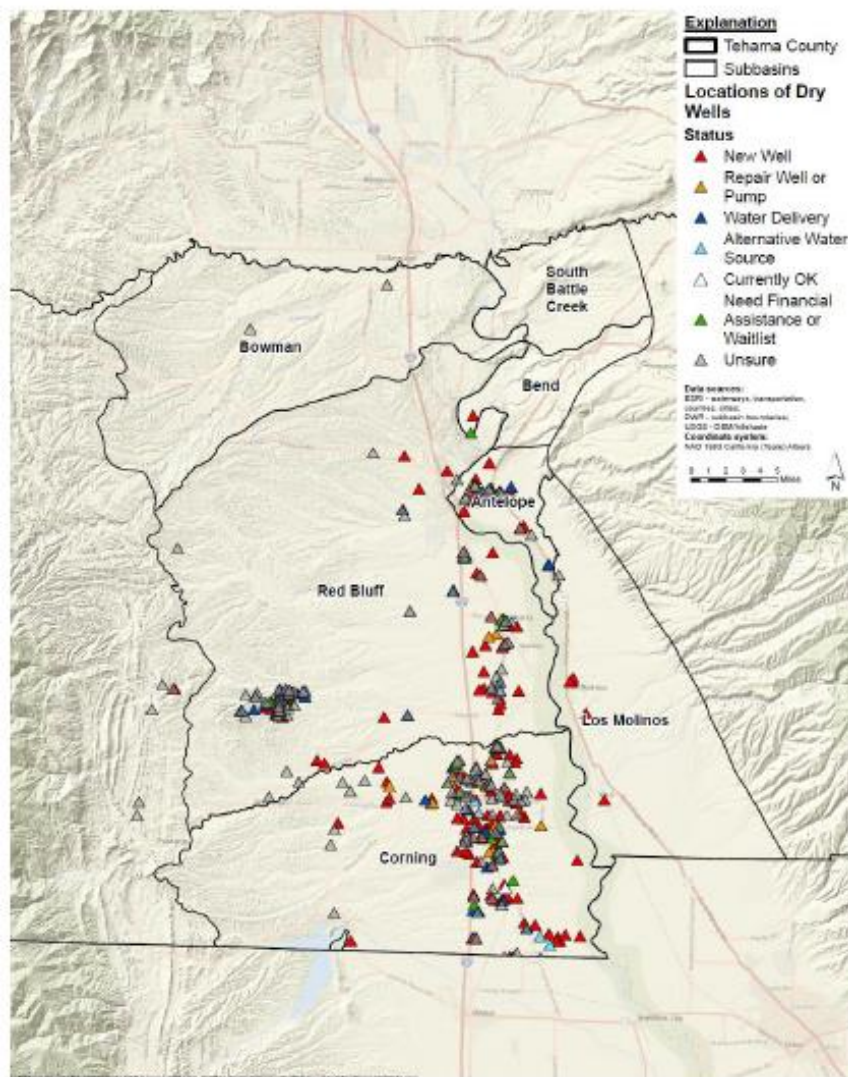


# Mitigating Dry Wells – Dry Well Mitigation Program

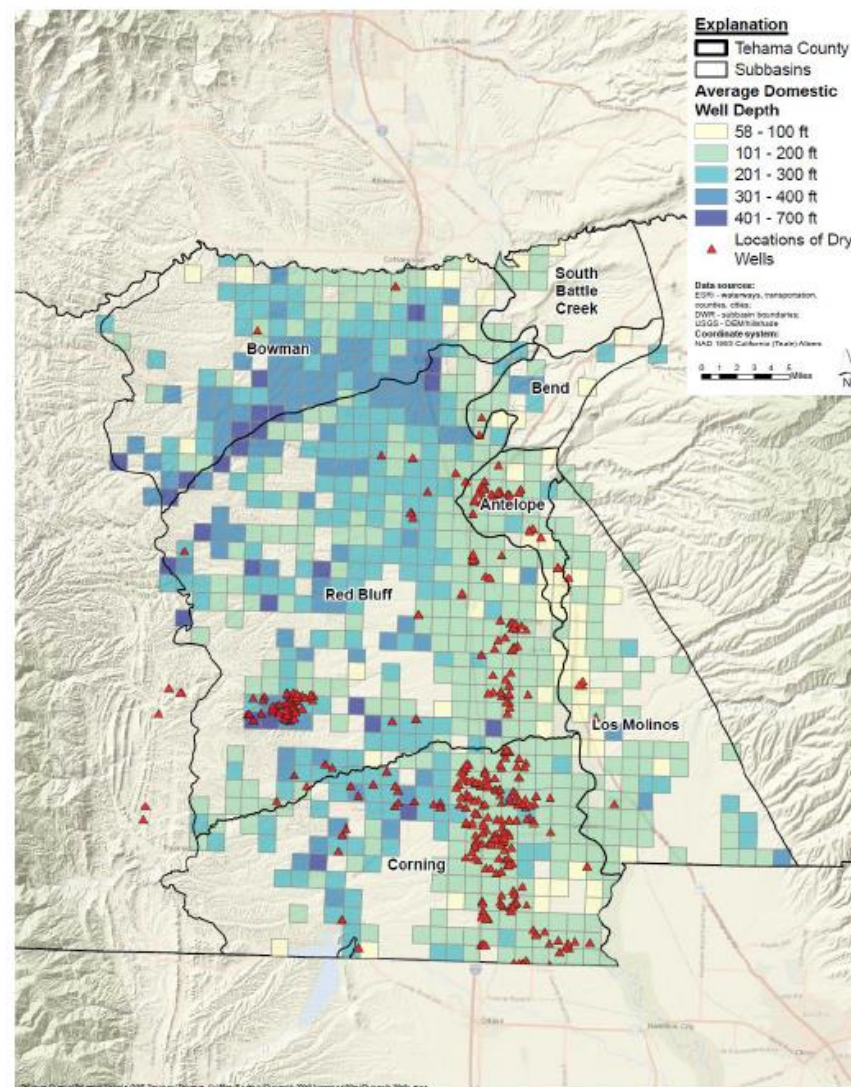
On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

Did you know?  
9,500 domestic wells  
in Tehama County!

Dry Well Map – From County Well Inventory Database



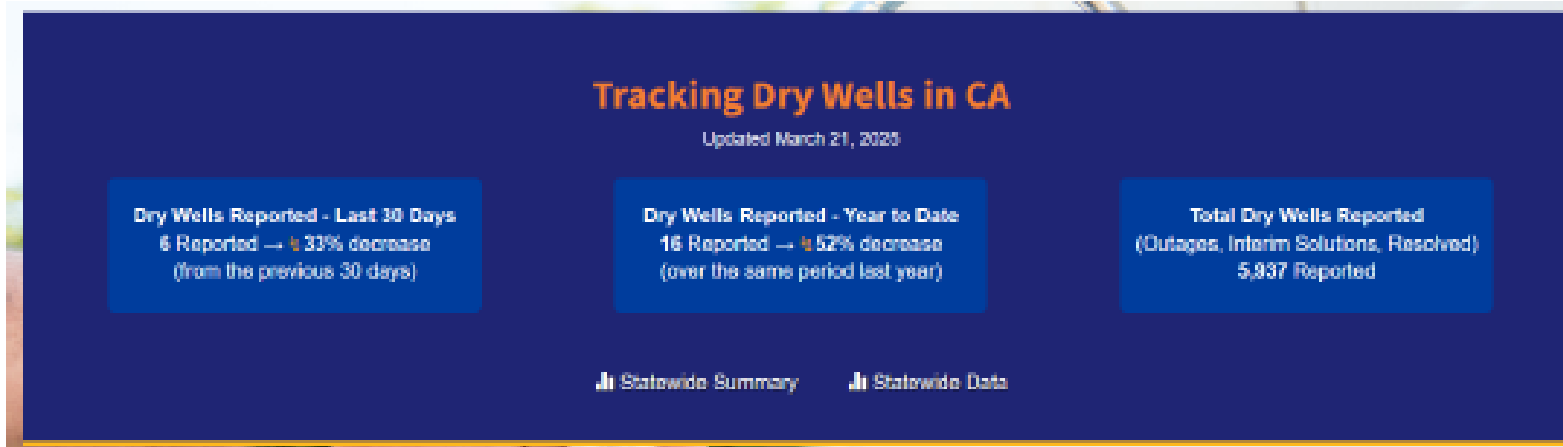
Average Domestic Well Depths with Dry Well Locations



# Mitigating Dry Wells – Dry Well Mitigation Program

On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

DWR Dry Well Reporting Website – can be reviewed with Tehama County data.



## How is this information going to be used?

Information added to this site is intended to inform state and local agencies on drought impacts on household and certain agricultural water supplies. Collection of data is not to be construed as application for local, state or federal assistance. Individuals interested in assistance should visit the State's [Drought Assistance web page](#). Information submitted through this site, except well owner name, contact information and personal address, will be visible to the public.

## Data Collection Entails:

- Contact information for a household experiencing a dry well, in order to connect with local and state assistance providers
- Water shortage issue and location
- Well log data (optional)
- Reporting agency or local government information

When monitoring dry wells reported data, the County should confirm the reason for the dry well reported.

Not all dry wells reported with water supply interruptions are due to declining water levels and may be related to mechanical and/or physical well problems.

# Mitigating Dry Wells – Dry Well Mitigation Program

[On The Tehama GSA Website \(https://tehamacountywater.org/sgmp-round2grant/\)](https://tehamacountywater.org/sgmp-round2grant/):

## **Bottom Line:**

The Tehama GSA will develop, approve and implement a Well Mitigation Program by January 2026 as required per SGMA requirements.

The Program will provide some funding assistance to mitigate dry well conditions. Stay tuned.

# Mitigating Dry Wells – Domestic Well Monitoring Program

On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

## Why Groundwater Monitoring Matters



### Science-Based Decision Making

→ Local data can result in solutions tailored to real, local conditions



### Safe, Reliable Water Access

→ Spot problems early and keep wells running



### Long-Term Groundwater Sustainability

→ Track trends and protect future supply



### Stronger Community Drought Resilience

→ Prepare, respond, recover from shortages faster - together

# Mitigating Dry Wells – Domestic Well Monitoring Program

On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

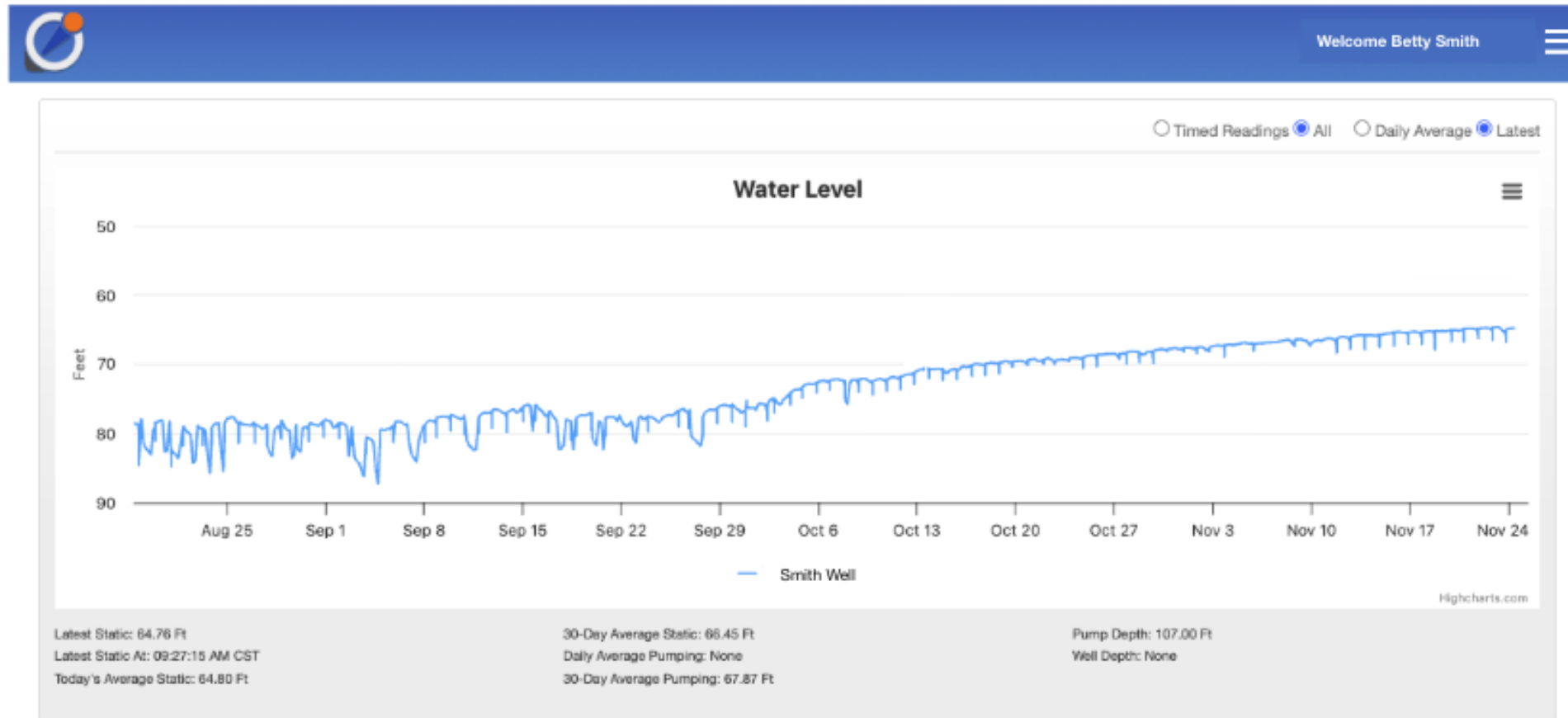
## Tehama GSA Program Highlights:

- Active Programs in the Antelope and Corning Subbasins.
- Voluntary Program – Free equipment installation using available grant funds.
- Well owner has access to their own well data (collected every 4 hours).
- Data anonymity: no one else will have access to your personal information.
- You can share well data with neighbors to address high risk areas.
- Data provides early alert for dry well and/or water supply reliability issues.

# Mitigating Dry Wells – Domestic Well Monitoring Program

On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

## Tehama GSA Program – Example of Well Dashboard Data:



# Mitigating Dry Wells – Domestic Well Monitoring Program

On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

Tehama GSA Program Highlights:

How It Works:



In the Antelope Subbasin contact: The Tehama GSA at 530-690-0700

In the Corning Subbasin contact: Evan Davis ([edavis@lsce.com](mailto:edavis@lsce.com))

# Mitigating Dry Wells – Dry Well Reporting

On The Tehama GSA Website (<https://tehamacountywater.org/sgmp-round2grant/>):

DWR Dry Well Reporting Website:

<https://mydrywell.water.ca.gov/report/>



Dry Well  
Reporting System



Contact Us



Feedback



Help



Sign In

Home

Reports

New Dry Well Report

## Dry Well Report Form

Getting Started

\* Who do you represent?

\* Contact Info

\* Water Problem Info

\* Location Info

Well Info

\* Current Status

Submittal

### General Information and Instructions

How is this information going to be used?

- This information is intended to inform state, county and local agencies on drought impacts on household water supplies and should not be construed as an application for local, state or federal assistance. Individuals interested in assistance can access available local and state resources on the [Resources page](#). Information submitted through this application can be viewed by the public and/or provided to local agencies.

Form Components:

- Contact Information (Who is having the problem?)
- Water Problem Information (What is the problem?)
- Water Problem Location (Where is the problem?)
- Available Financial Resources (Information to share, if interested.)
- Well Log Data (If known)
- Agency/Local Government Information (Required for Agency users only)

*Note: Dry well reports should be verified. A dry well scenario can occur due to well infrastructure, power, and/or mechanical failures.*





# SGMA FUNDING STRUCTURE

# Fee Development Process



# Tehama GSA Budget

EXHIBIT "A"					
FIVE YEAR TEHAMA GSA BUDGET					
(Option: combine Operating/SGMA Costs...)		Add 3% Inflation	Add 3% Inflation	Add 3% Inflation	Add 3% Inflation
Category	Proposed	Proposed	Proposed	Proposed	Proposed
OPERATING EXPENSES	FY26/27	FY27/28	FY28/29	FY29/30	FY30/31
Legal Services					
General Legal Support	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
<b>Total Legal Services</b>	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
Technical Services					
Fee Process	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
Special Studies/Consultant Support	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
<b>Total Technical Services</b>	\$37,000	\$37,000	\$37,000	\$37,000	\$37,000
Administrative Services					
Administration and Management (0.75 FTE)	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000
Administrative Support (0.5 FTE)	\$51,000	\$51,000	\$51,000	\$51,000	\$51,000
District Overhead	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000
Audits	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Outreach Materials/Printing & Copying	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Postage	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Website Development/Maintenance	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
Financial Services/Bookkeeping	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
<b>Total Administrative Services</b>	\$289,000.00	\$289,000.00	\$289,000.00	\$289,000.00	\$289,000.00
<b>OPERATING EXPENSES SUBTOTAL</b>	\$381,000.00	\$381,000.00	\$381,000.00	\$381,000.00	\$381,000.00
Operating Expenses Reserve (10%)	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
<b>TOTAL OPERATING EXPENSES</b>	\$419,000	\$419,000	\$419,000	\$419,000	\$419,000
<b>SGMA COMPLIANCE EXPENSES</b>					
GSP Annual Monitoring/Reporting	\$225,000	\$225,000	\$225,000	\$225,000	\$225,000
GSA Sub-basin Coordination	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
GSP Periodic Evaluation/Amendments (@ 5 Yrs.)	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
Monitoring/Data Management	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
GSP Implementation Grant Funding Application	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
<b>SGMA COMPLIANCE EXPENSES SUBTOTAL</b>	\$690,000	\$690,000	\$690,000	\$690,000	\$690,000
SGMA Compliance Expenses Reserve (10%)	\$69,000	\$69,000	\$69,000	\$69,000	\$69,000
<b>TOTAL SGMA COMPLIANCE EXPENSES</b>	\$759,000	\$759,000	\$759,000	\$759,000	\$759,000
<b>TOTAL ANNUAL BUDGET</b>	\$1,178,000	\$1,200,770	\$1,223,540	\$1,246,310	\$1,269,080

# Projects & Management Actions Costs

FIVE YEAR TEHAMA GSA BUDGET - PMA Program Costs					
Category	Proposed	Proposed	Proposed	Proposed	Proposed
PMA EXPENSES	FY26/27	FY27/28	FY28/29	FY29/30	FY30/31
<b>Demand Management Program</b>					
Admin. Process	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Voluntary Incentive Program	\$433,333	\$433,333	\$433,333	\$433,333	\$433,333
<b>Total DM Program Costs</b>	<b>\$468,333</b>	<b>\$468,333</b>	<b>\$468,333</b>	<b>\$468,333</b>	<b>\$468,333</b>
<b>Demand Management Cost Basis</b>					
Total Annual Overdraft (C, LM, RB)	65,000	65,000	65,000	65,000	65,000
Incentive Cost/Ac-Ft	\$200	\$200	\$200	\$200	\$200
Annual Adjustment Factor (2042)	7%	7%	7%	7%	7%
Annual Adjustment Factor (50%)	50%	50%	50%	50%	50%
Total Voluntary Incentive Costs	\$433,333	\$433,333	\$433,333	\$433,333	\$433,333
<b>Well Mitigation Program</b>					
Admin. Process	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Well Replacement Costs	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
<b>Total WM Program Costs</b>	<b>\$60,000</b>	<b>\$60,000</b>	<b>\$60,000</b>	<b>\$60,000</b>	<b>\$60,000</b>
<b>Well Mitigation Cost Basis</b>					
Avg. Cost/Domestic Well Replaced	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
# Wells Replaced/Year	1	1	1	1	1
Total Annual Well Mitigation Costs	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
<b>TOTAL MA EXPENSES</b>	<b>\$528,333.33</b>	<b>\$528,333.33</b>	<b>\$528,333.33</b>	<b>\$528,333.33</b>	<b>\$528,333.33</b>
<b>Total PA Costs/Water Purchases</b>	<b>FY26/27</b>	<b>FY27/28</b>	<b>FY28/29</b>	<b>FY29/30</b>	<b>FY30/31</b>
Total Annual Overdraft (C, LM, RB)	65,000	65,000	65,000	65,000	65,000
Project Cost/Ac-Ft	\$400	\$400	\$400	\$400	\$400
Annual Adjustment Factor (2042)	7%	7%	7%	7%	7%
Annual Adjustment Factor (50%)	50%	50%	50%	50%	50%
<b>Total Projects Costs</b>	<b>\$866,667</b>	<b>\$866,667</b>	<b>\$866,667</b>	<b>\$866,667</b>	<b>\$866,667</b>
<b>TOTAL PMA COSTS</b>	<b>\$1,395,000.00</b>	<b>\$1,421,000.00</b>	<b>\$1,447,000.00</b>	<b>\$1,473,000.00</b>	<b>\$1,499,000.00</b>

# Admin. Cost Breakdown

- **Per acre-foot (use-based)** – People pay based on how much groundwater they use.
- **Per parcel (county-wide)** - A small charge spread across all parcels, because everyone benefits from groundwater security.

The FCWCD Board is considering the two highlighted options: by acre-foot OR by parcel

## In the Basin

$\$1,178,000 / 720,000\text{AC} = \$1.64/\text{Acre}$

$\$1,178,000 / 22,000 \text{ Wells} = \$53.55/\text{Well}$  (Including Connections)

$\$1,178,000 / 25,000 \text{ Parcels} = \$47.12/\text{Parcel}$

$\$1,178,000 / 317,000\text{AF} = \$3.72/\text{Acre-Foot}$

### Irrigated Vs Non-Irrigated (94%/6%)

$\$1,178,000 / 133,800 \text{ Irrigated Acre} = \$8.85/\text{Irrigated Acre}$

$\$1,178,000 / 9,600 \text{ Non-Irrigated Acre} = \$122.50/\text{Non-Irrigated Acre}$

### Ag Well Vs Other Well (94%/6%)

$\$1,178,000 / 2,120 \text{ Ag Well} = \$553.16/\text{Ag Well}$

$\$1,178,000 / 350 \text{ Other Well} = \$3,365.71/\text{Other Well}$

## County Wide

$\$1,178,000 / 1,300,000 \text{ Non-Fed AC} = \$0.91/\text{Non-Federal Acre}$

$\$1,178,000 / 44,000 \text{ Parcels} = \$26.78/\text{Parcel}$

$\$1,178,000 / 24,000 \text{ Wells} = \$49.08/\text{Well}$

# PMA Cost Breakdown

## In Basin only

\$1,395,000/106,250 Irr-AC \$13.13/Irrigated Acres

**\$1,395,000/ 317,000AC = \$4.42/Acre-foot**

\$1,395,000/2,000 Wells = \$697.50/AG&Commercial Well

- **Per acre-foot (use-based)** – People pay based on how much groundwater they use.

# RECOMMENDATIONS

- Admin Costs
  - In the basin: **\$3.72/Acre-Foot**
  - OR countywide: **\$26.78/Parcel**
- Projects and Management Actions Costs
  - In the basin: **\$4.42/Acre-foot**



# Groundwater Demand Management Factsheet & Survey

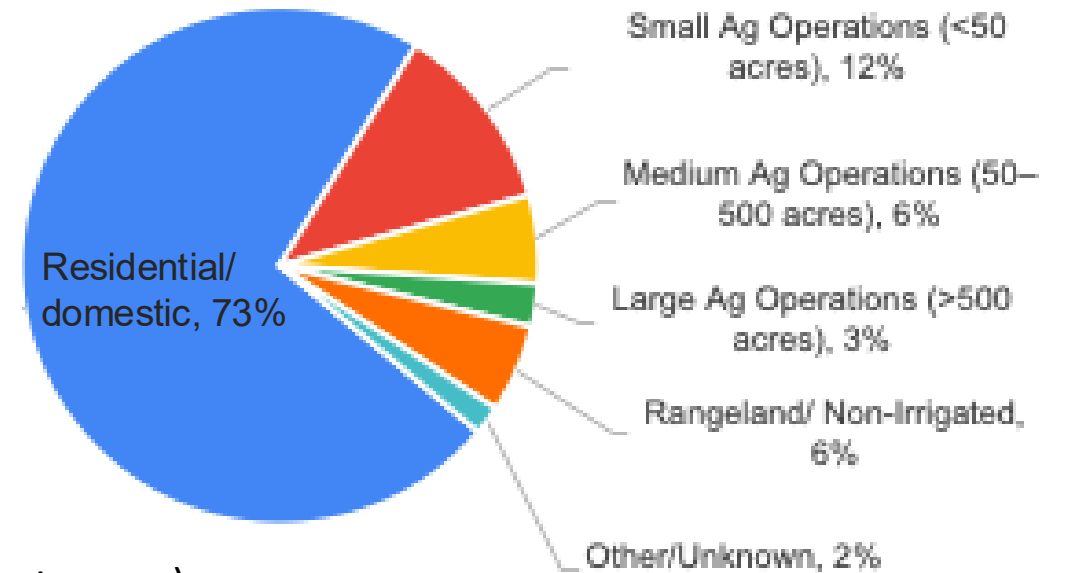
Feedback on potential **demand management approaches** and **fee structures**

**July – Oct 2025 (110 verified responses)**

- Mostly **Red Bluff (44%)** and **Corning (19%)**
- Primarily **residential**; but also many **mixed use**

## Top Themes

- Value groundwater sustainability, but **most focused on costs and fairness**
- Those who **pump more should pay more**, and those who **conserve or have small uses should be protected/rewarded**.
- **Prefer tailored and focused** (usage-based fees and management zones) over simplicity
- **Basin priorities differ** (Red Bluff and Corning: water security | Bowman and Antelope: cost protection | Los Molinos: fairness assurance)
- Value **local control over State intervention**, but trust is conditional on transparency, fairness, and clear evidence that money and actions are well-justified



[Link to Factsheet and Survey](#)

# WHAT'S NEXT FOR FEE STRUCTURES

## Recently Completed:

- Estimated Funds Required From Current Data. Presented 8/2025
- Created List of Assumed Volume by Use Type. Presented 9/2025
- Created \$/Volume Estimates. Presented 10/2025

## Upcoming:

- **Independent Legal Review** of Data and Fee Study. Present 2/2026
- Begin the Process of **Public Hearings/Any Required Voting** 3/2026
- Have **Completed Fee Amounts** for 2027 Tax Roll 7/2026

# What's Next and Staying Involved

## Upcoming Tehama County Meetings

- **Dec 10** - Groundwater Commission  
*2<sup>nd</sup> Wednesdays at 8:30a in Board Chambers Room, 727 Oak St., Red Bluff*
- **Dec 15** - Flood Control Board of Directors  
*3<sup>rd</sup> Mondays at 10a in Board Chambers Room, 727 Oak St., Red Bluff*
- **Late Jan** – Landowner Recharge Workshop

## Other Meetings

- **Dec 11** - Corning Subbasin Advisory Board (CSAB)
- **Jan 28** - North Sacramento River Interbasin Coordination Webinar
- **Jan TBD** - Corning Sub-basin GSA (Glenn County) Public Meeting
- **Late Jan** – Landowners workshop for recharge

## Connect with us

- Join the Interested Parties email list at <https://tehamacountywater.org/gsa/> or by emailing [TehamaGSA@tcpw.ca.gov](mailto:TehamaGSA@tcpw.ca.gov)
- Follow Tehama County Flood Control & Water Conservation District on Facebook
- District Staff office hours:  
Mon-Thur, 7:30a-4:30p  
1509 Schwab Street, Red Bluff

# Thank You!

- Stick around for more discussion
- Contact us: (530) 690-0700 or [TehamaGSA@tcpw.ca.gov](mailto:TehamaGSA@tcpw.ca.gov)

## Reminders:

- Presentation slides & a recording of this meeting will be posted to [tehamacountywater.org/meetings/](http://tehamacountywater.org/meetings/)

# Q&A





**TEHAMA COUNTY GROUNDWATER BASINS**  
**SGMA IMPLEMENTATION UPDATE PUBLIC MEETINGS**  
**APRIL 1 RED BLUFF | APRIL 2 CORNING**

**PUBLIC MEETINGS | 6:00-8:00 PM**

**Wednesday, April 1 | Red Bluff Community Center**  
 1500 S Jackson St, Red Bluff, CA 96080

**Thursday, April 2 | Corning Council Chambers**  
 794 Third Street, Corning, CA 96021, USA

**MEETING OBJECTIVES**

- Educate the public on Sustainable Groundwater Management Act (SGMA) requirements and implementation, current groundwater conditions, and overdraft estimates.
- Provide an update on the projects and management actions underway to help achieve long-term groundwater sustainability in Tehama County.
- Share the latest information on grant spending and fee development to pay for SGMA administration and project implementation.
- Receive public input on all of the above.
- Highlight opportunities to stay involved and improve public engagement going forward.

**AGENDA**

Start Time	Agenda Item
6:00 PM	<b>Welcoming Remarks &amp; Meeting Orientation</b> <ul style="list-style-type: none"> <li>● Introductions</li> <li>● Objectives</li> <li>● Agenda review</li> </ul>
6:10 PM	<b>Where We Are: Groundwater Sustainability Plan (GSP) Implementation</b> <ul style="list-style-type: none"> <li>● SGMA basics &amp; State requirements</li> <li>● Role of Groundwater Sustainability Agency (GSA) and Groundwater Commission</li> <li>● Outreach</li> </ul>
6:20 PM	<b>Where We Are: Groundwater Conditions Updates</b> <ul style="list-style-type: none"> <li>● Monitoring Network</li> <li>● Overdraft Estimates</li> <li>● 2025 Annual Reports to the State</li> </ul>
6:30 PM	<b>What We're Doing: Updates on Actions</b> <ul style="list-style-type: none"> <li>● Grant spending</li> <li>● Managing demand for water</li> <li>● Other actions:               <ul style="list-style-type: none"> <li>○ Recharge/increasing water supply</li> <li>○ Mitigating dry wells</li> <li>○ Monitoring conditions</li> </ul> </li> <li>● How you can help</li> </ul>

<b>6:45 PM</b>	<b>How We're Funding This: County Fee Study Update</b> <ul style="list-style-type: none"> <li>● Estimated costs</li> <li>● Funding approaches thus far</li> <li>● Upcoming fee structure options</li> </ul>
<b>7:05 PM</b>	<b>Next Steps &amp; Staying Involved</b> <ul style="list-style-type: none"> <li>● Upcoming milestones</li> <li>● Outreach strategy</li> <li>● How to get involved</li> </ul>
<b>7:10 PM</b>	<b>Q&amp;A, Discussion, Public Input</b>
<b>8:00 PM</b>	<b>Adjourn</b>

## Groundwater and SGMA Resources

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- [Understanding Groundwater video \(4 min\) by CA DWR](#)
- [SGMA 101 brochure by CA Farm Bureau Federation](#)
- [Real-time local groundwater information \(interactive online map\)](#)
- [Tehama County recharge projects Story Map](#)
- [Dry well resources for domestic well owners](#)
- [Volunteer domestic well monitoring program interest form](#)
- [Well Registration FAQs handout](#)
- [Glossary of common terms](#)
- **New!** [2024-2026 Prop 68 grant updates](#)
- **New!** [Maintaining local control video](#)
- **New!** [Volunteer monitoring program video](#)
- **New!** [Tehama County GSA Funding & Fee Study Information](#)



*These resources and more are available at <https://tehamacountywater.org/gsa/library/>*

## Workshop Staff

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Convener: Tehama County GSA

- Justin Jenson, Project Manager & Deputy Director of Public Works - Water
- Adriana Langanica, Engineering Tech
- Lena Sequeira, Administrative Assistant

Technical Consultant: Luhdorff & Scalmanini Consulting Engineers (LSCE)

- Jacques DeBra
- Will Anderson

Facilitation Support: Consensus Building Institute (CBI)

- Stephanie Horii
- Sophie Carrillo-Mandel

**To be added to the GSA Interested Parties email list for workshop announcements, email: [tehamagsa@tcpw.ca.gov](mailto:tehamagsa@tcpw.ca.gov)**



**TEHAMA COUNTY**  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

# Tehama County Groundwater Sustainability Agency | Sign-In Sheet

Meeting & Date: \_\_\_\_\_

Page \_\_ of \_\_

#	Name	Affiliation/Organization	Email – <i>to be added to the Interested Parties List</i>	Check here if interested in.... Well Reg   Well Monitoring	
1					
2					
3					
4					
5					
6					
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11					
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14					
15					



TEHAMA COUNTY  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

# Tehama County Groundwater Sustainability Agency | Sign-In Sheet







Meeting & Date: \_\_\_\_\_

Page \_\_ of \_\_

#	Name	Affiliation/Organization	Email – <i>to be added to the Interested Parties List</i>	Check here if interested in.... Well Reg   Well Monitoring	
1					
2					
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15					



# CALIFORNIA DEPARTMENT OF WATER RESOURCES SUSTAINABLE GROUNDWATER MANAGEMENT OFFICE

 <a href="#">Sustainable Groundwater Management Act</a> (English)	 <a href="#">Ley de Gestión Sustentable de las Aguas Subterráneas</a> (Spanish)
 <a href="#">Be Well Prepared – What do I do if my well goes dry?</a> (English)?	 <a href="#">Be Well Prepared – ¿Qué hago si mi pozo se seca?</a> (Spanish)
 <a href="#">AEM Factsheet</a> (English)	 <a href="#">Groundwater: California’s Vital Resource – Video</a> (Spanish)
 <a href="#">DRAFT Depletions of Interconnected Surface Water – An Introduction – January 2024</a> (English)	 <a href="#">Groundwater: California’s Vital Resource – Video</a> (Punjabi)
 <a href="#">Groundwater Recharge Information</a> (English)	 <a href="#">Groundwater: California’s Vital Resource – Video</a> (Hmong)
 <a href="#">Sustainable Groundwater Management Program Technical Assistance – Data, Tools, and Reports Factsheet</a> (English)	 <a href="#">Groundwater: California’s Vital Resource – Video</a> (English)

# Fee Study Options: Public Feedback to Groundwater Sustainability Agency

Total Costs = PMA Fee (1 or 2) + Admin/Ops Fee (A or B)

Your Name (Optional): \_\_\_\_\_ Your Basin (circle one): Bowman Red Bluff Antelope Los Molinos Corning N/A

Your User Type (circle one): Domestic well | Rangeland/Non-irrigated | Ag operation (<50 acres | 50-500 acres | 500+ acres) | Other | Not a GW user

**Projects & Management Actions (PMAs) Fee:** This will fund projects to address groundwater problems. It will be based on groundwater usage (minimal for residential) and only apply to overdrafted basins (Corning, Red Bluff, Los Molinos).

## PMAs: Option 1

Minimum programs budget

*Dry well mitigation + early voluntary projects*

OR

## PMAs: Option 2

Full programs budget

*Adds demand management cost recovery*

**Option 1:** Provides minimum budget. Will pay for dry well mitigation and early voluntary projects. Lower cost to the public **now**, but provides less buffer. May necessitate future cost increases.

**Option 2:** Provides full budget. Will pay for the above plus demand management costs. Higher rate provides more buffer. Unlikely to require future cost increases.

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**Administrative/Operations Fee:** This will “keep the lights on” and will be paid by everyone *either* in the county or in all subbasins.

## Admin/Ops: Option A

Flat parcel fee

*Same charge for every parcel, district-wide*

OR

## Admin/Ops: Option B

Volumetric use fee

*Charge based on estimated groundwater use*

**Option A:** Everyone pays equally. Cost per person is lower because it is distributed. Simple to administer

**Option B:** Rate is scaled to estimated groundwater use. Use more, pay more. More complex to administer.

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# COMMENT CARD

We want to hear from you! Do you have questions or comments about SGMA implementation in Tehama County!

## Contact Information (Optional)

<b>Name</b>	<b>Affiliation</b>
<b>Email</b>	<b>Phone Number</b>
<b>Subbasin</b> (check one) <input type="checkbox"/> Bowman <input type="checkbox"/> Red Bluff <input type="checkbox"/> Antelope <input type="checkbox"/> Los Molinos <input type="checkbox"/> Corning <input type="checkbox"/> N/A	

QUESTION/COMMENT:

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<b>Subbasin</b> (check one) <input type="checkbox"/> Bowman <input type="checkbox"/> Red Bluff <input type="checkbox"/> Antelope <input type="checkbox"/> Los Molinos <input type="checkbox"/> Corning <input type="checkbox"/> N/A	

QUESTION/COMMENT:

MANAGING OUR GROUNDWATER  
FOR THE FUTURE



TEHAMA COUNTY  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

# Tehama County Sustainable Groundwater Management Updates

Public Meetings

April 1 & 2, 2026

6:00 – 8:00 PM

[TehamaCountyWater.org](http://TehamaCountyWater.org)

# Meeting Objectives

## COMMON TERMS

SGMA (“Sigma”): Sustainable Groundwater Management Act

GSA: Groundwater Sustainability Agency

GSP: Groundwater Sustainability Plan

PMA: Projects & Management Actions

- Educate the public on SGMA requirements and implementation, current groundwater conditions, and overdraft estimates.
- Provide an update on the projects and management actions underway to help achieve long-term groundwater sustainability in Tehama County, including demand management, recharge, and dry well mitigation.
- Share the latest information on grant spending and fee development to pay for SGMA administration and project implementation.
- Receive public input on all of the above.
- Highlight opportunities to stay involved and improve public engagement going forward



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# AGENDA

**6:00pm** Open and Welcoming Remarks; Agenda Review

**6:10pm** Where We Are: GSP Implementation & Groundwater Conditions

**6:30pm** What We're Doing: Updates on Actions

**6:45pm** How We're Funding This: County Fee Study Update

**7:05pm** Next Steps & Staying Involved

**7:10pm** Questions, Discussion, Public Input

**8:00pm** Adjourn



# Meet The Project Team

**Convener:** Tehama County Flood Control & Water Conservation District



**TEHAMA COUNTY**  
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

- Justin Jenson
- Adriana Langarica
- Lena Sequeira

**Technical Consultant:** Luhdorff & Scalmanini Consulting Engineers (LSCE)



- Jacques DeBra
- Will Anderson

**Facilitation Support:** Consensus Building Institute (CBI)

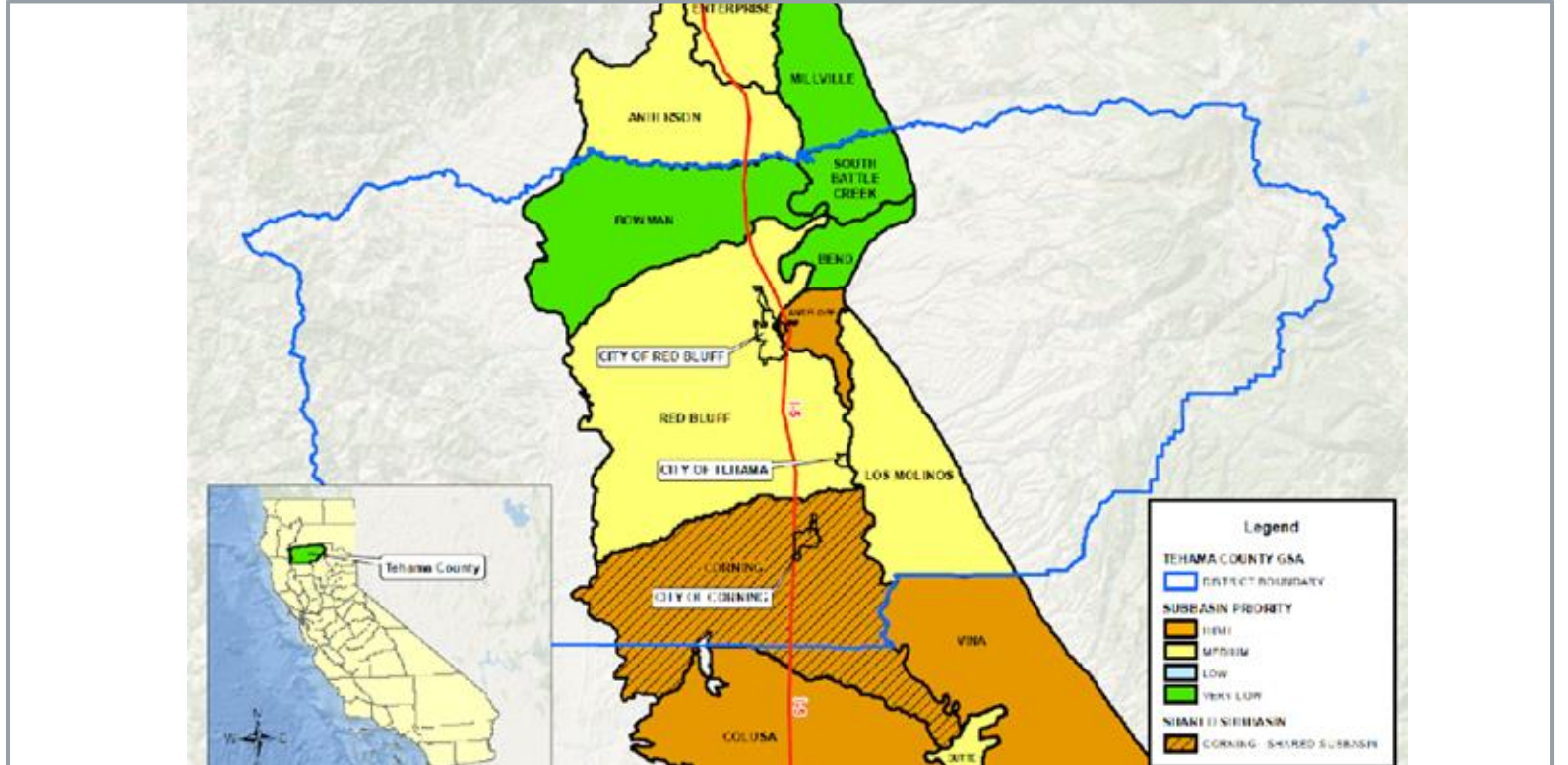


- Sophie Carrillo-Mandel
- Stephanie Horii

# Participation Protocols

*Today we are...*

- Aiming to hear from everyone – please be concise
- Working toward shared understanding – ask questions and listen to understand
- Capturing the public's thoughts
  - Use the mic
  - Submit written comment
  - Email [tehamagsa@tcpw.ca.gov](mailto:tehamagsa@tcpw.ca.gov)
- In a meeting with our neighbors – *introduce yourself to the person next to you*



# Where We Are

GSP Implementation & Groundwater Conditions Updates

## SGMA Basics



The Sustainable Groundwater Management Act (SGMA) -- law was passed in 2014



Values Local Control  
Groundwater Sustainability Agencies (GSAs)



Management plans = Groundwater Sustainability Plans (GSPs)



GSPs submitted to the State by January 31, 2022



Sustainability must be achieved within 20 years  
(by 2042)

# What Is the Purpose of SGMA?

- Promote sustainable management of groundwater basins
- Enhance local management to protect our groundwater; State will step in if necessary
- Improve data collection and understanding of groundwater resources and management
- Avoid or minimize undesirable results to groundwater

## Undesirable Results



Lowering  
GW Levels



Reduction  
of Storage



Land  
Subsidence



Degraded  
Quality



Surface Water  
Depletion



Seawater  
Intrusion

# Tehama County GSA: Governance

## Guidance & Recommendations Groundwater Commission

11 members representing cities, private pumpers, surface water and groundwater agencies, and County Supervisorial Districts

Meets 4th Wed. of the month at 8:30 am

## Final Decision-Making District Board of Directors

Comprised of 5 County Board of Supervisors:  
Hansen, Burroughs, Walker, Jones, *vacant*

Meets 3rd Monday of the month at 11am

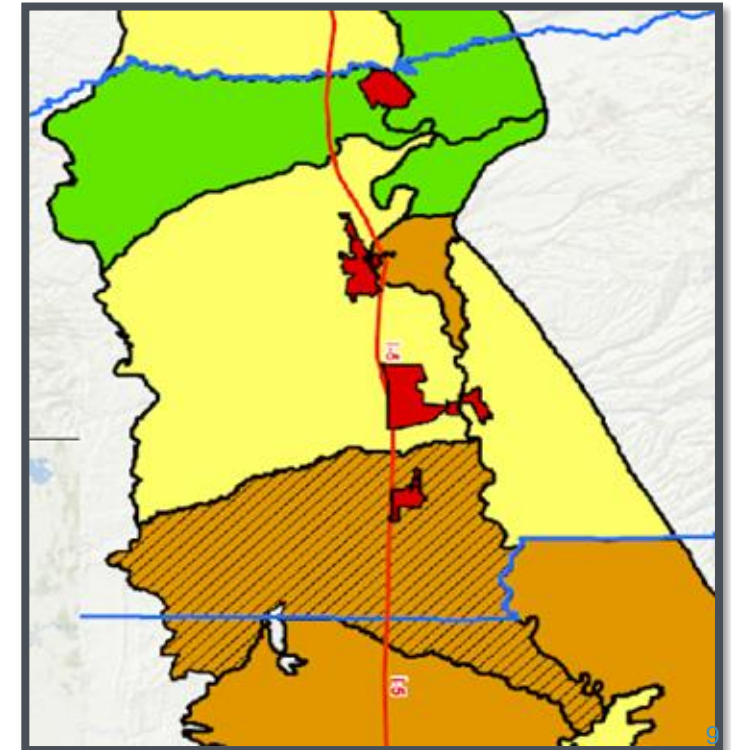
## Support District Staff & Consultants

District staff and consultants receive guidance and input from the Board, Commission, and stakeholders.

District Office and Hours: 1509 Schwab St,  
M-Th, 7:30a-4:30p

## Engagement Throughout Stakeholders and General Public

The GSA aims to raise awareness and engage stakeholders and the general public on GSP elements and SGMA implementation. Continued participation is essential to achieve sustainability.



Meeting Info: [TehamaCountyWater.org](http://TehamaCountyWater.org)

# Corning Subbasin



TEHAMA COUNTY  
Flood Control and Water Conservation District



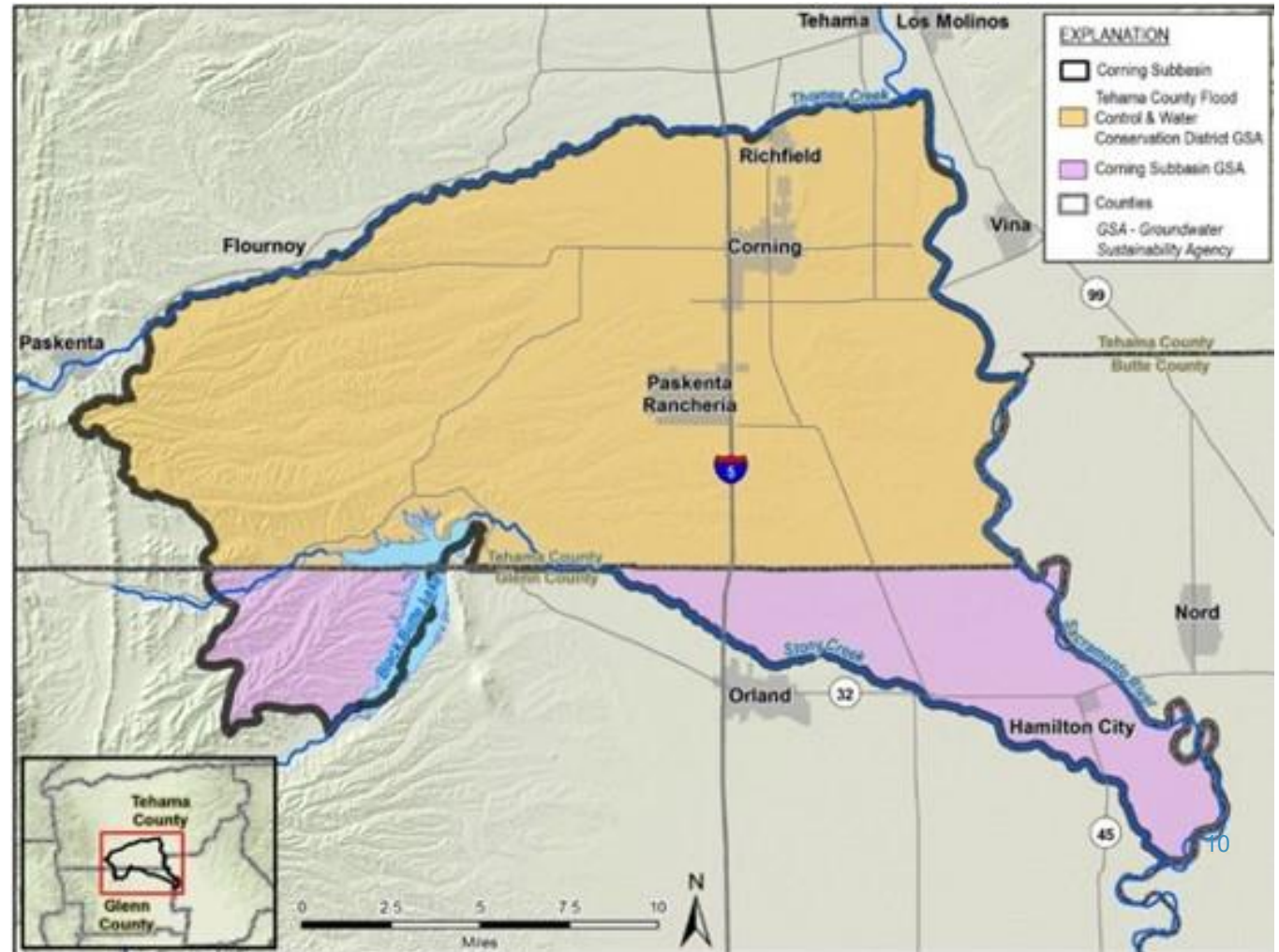
Co-managed by 2 GSAs

- Tehama County GSA
- Corning Sub-basin GSA
  - Glenn County
  - Glenn-Colusa Irrigation District
  - Monroeville Water District

1 GSP developed

Corning Subbasin Advisory Board (CSAB) meets the 1<sup>st</sup> Wednesday of each month

[CorningSubbasinGSP.org](http://CorningSubbasinGSP.org)



# SGMA Implementation Timeline

- [GSPs on website](#)
- Mailing list for updates

TehamaCountyWater.org



Occurring throughout:

- Conduct Outreach & Engagement
- Measure Progress, Evaluate, and Modify<sup>11</sup>

# PAST & ONGOING OUTREACH

- Newsletters
- Fact Sheets & Info Resources
- Public Meetings & Workshops
- Grant Updates Webpage
- Demand Management Survey
- Spanish-Language Radio & Surveys

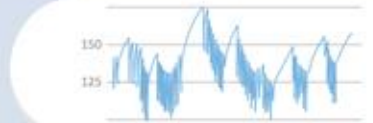
<https://tehamacountywater.org/sgmp-round2grant/>



## GROUNDWATER DEMAND MANAGEMENT

### Join the Antelope Subbasin GSA Community Domestic Monitoring Program

*The Antelope Subbasin is establishing a monitoring program to track water levels in 25 volunteer wells over a five-year period. Thanks to grant funding, all monitoring equipment, installation, and data management are covered.*



#### Why Do

- Wells at threatened businesses
- State law requires groundwater management
- Four Tehama County Subbasins: Corning, Red Bluff, Los Molinos, and Antelope

Volunteers provide valuable information on groundwater level data. Confidential groundwater data is provided to inform decision-making.

#### Sustainable Groundwater Management Implementation

### Fall 2025 Newsletter

| Corning, Red Bluff, Los Molinos, and Antelope Subbasins



The California Department of Water Resources (DWR) awarded \$15 million to the Corning, Red Bluff, Los Molinos, and Antelope Subbasins for the Tehama County Flood Control and Water Conservation District GSA (TCFCWC) Sub-basin GSA (CSGSA). The funding supports implementation of the four Groundwater Sustainability Plans (GSPs) which advances critical projects and management actions toward long-term groundwater sustainability. **This newsletter provides updates from the GSAs and the technical consulting team led by Luhdorff & Scalmanini Consulting Engineers.** They work to complete the grant-funded projects during 2026.

#### Updates on Recharging Groundwater

Managed Aquifer Recharge (MAR) projects are gaining momentum across the region, with new permits, infrastructure, and landowner partnerships well underway. Here are the latest updates from the Corning, Red Bluff, and Los Molinos Subbasins:

**Corning:** Five-year recharge permit applications

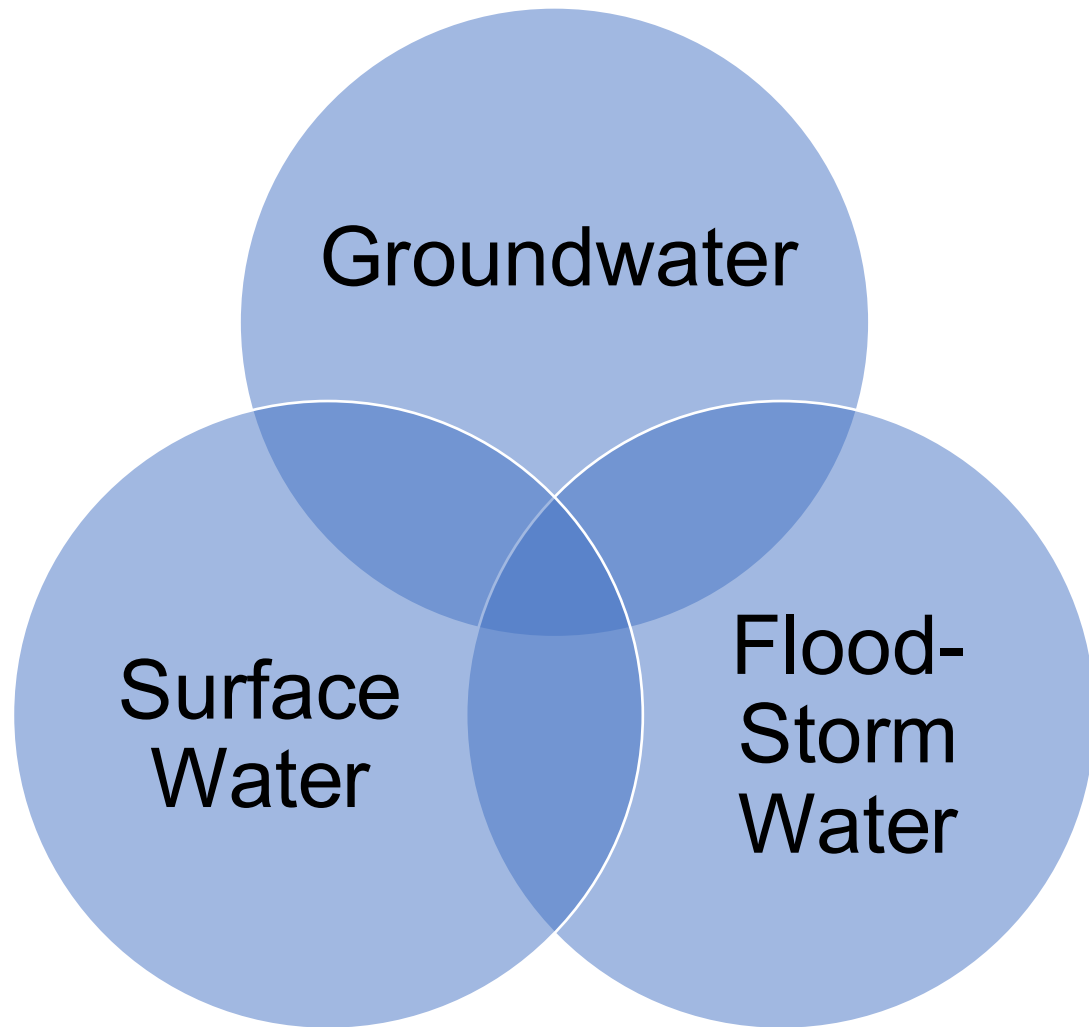


# Tehama GSA Groundwater Conditions & Annual Reporting

April 1 and 2, 2026, Public Workshops



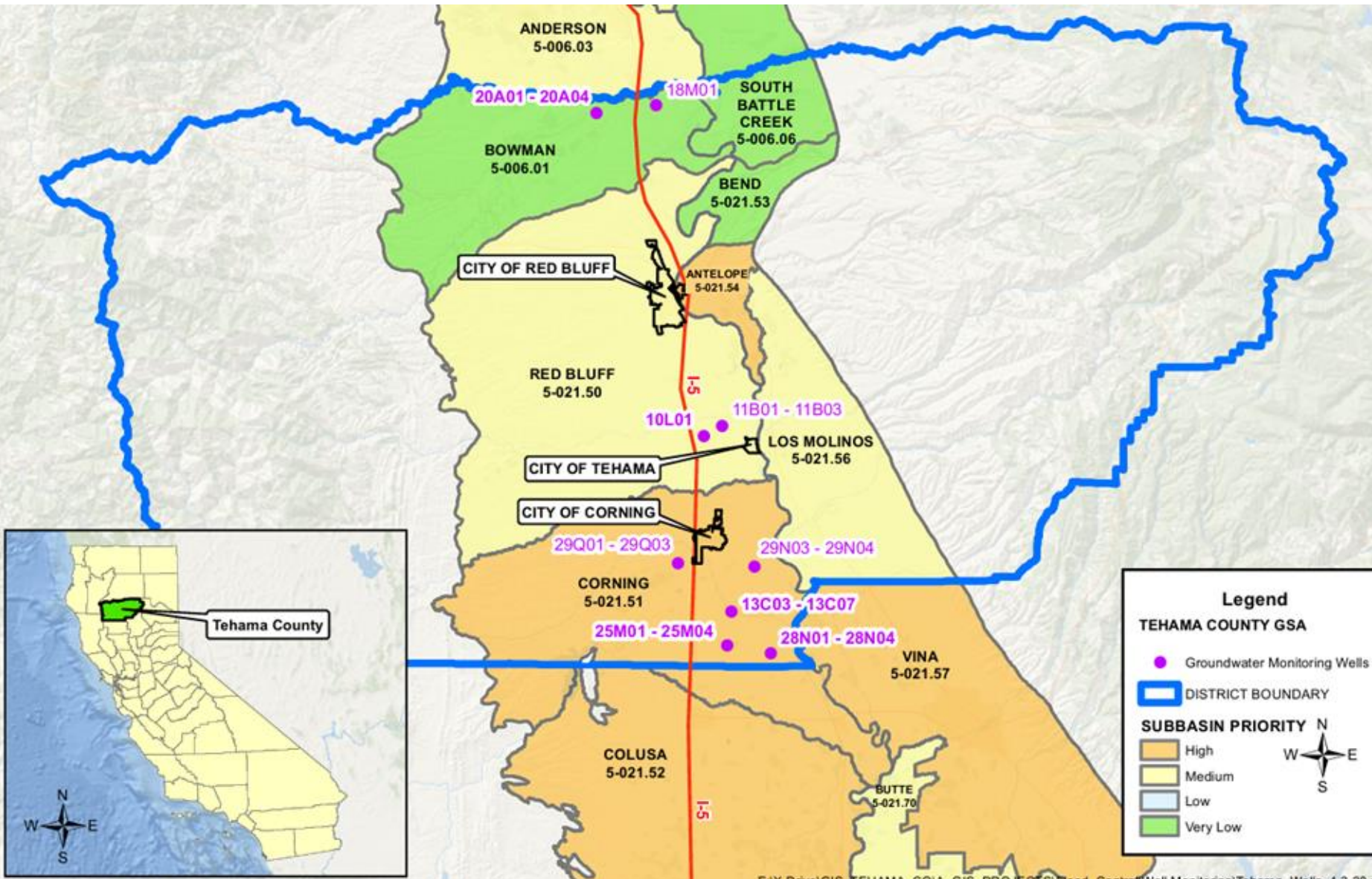
# Water Conditions – tracked by the TCFCWCD



- Groundwater Conditions
  - Water Levels
  - Water Quality
- Surface Water Conditions
  - Central Valley Project (CVP) Water Supplies
  - Other Water Rights
- Flood-Storm Conditions
  - Flood-Storm Flows
  - Peak Flows/Events

Water Conditions - based on best available information!

# Water Conditions – Groundwater overdraft



- Existing Monitoring Network Location Map (2024)
- Corning Subbasin monitoring wells added
  - 5 M-C Wells
  - 10 Shallow Wells
- Antelope Subbasin monitoring wells added
  - 3 M-C Wells
  - 5 Shallow Wells



We need YOU to volunteer to monitor your well!

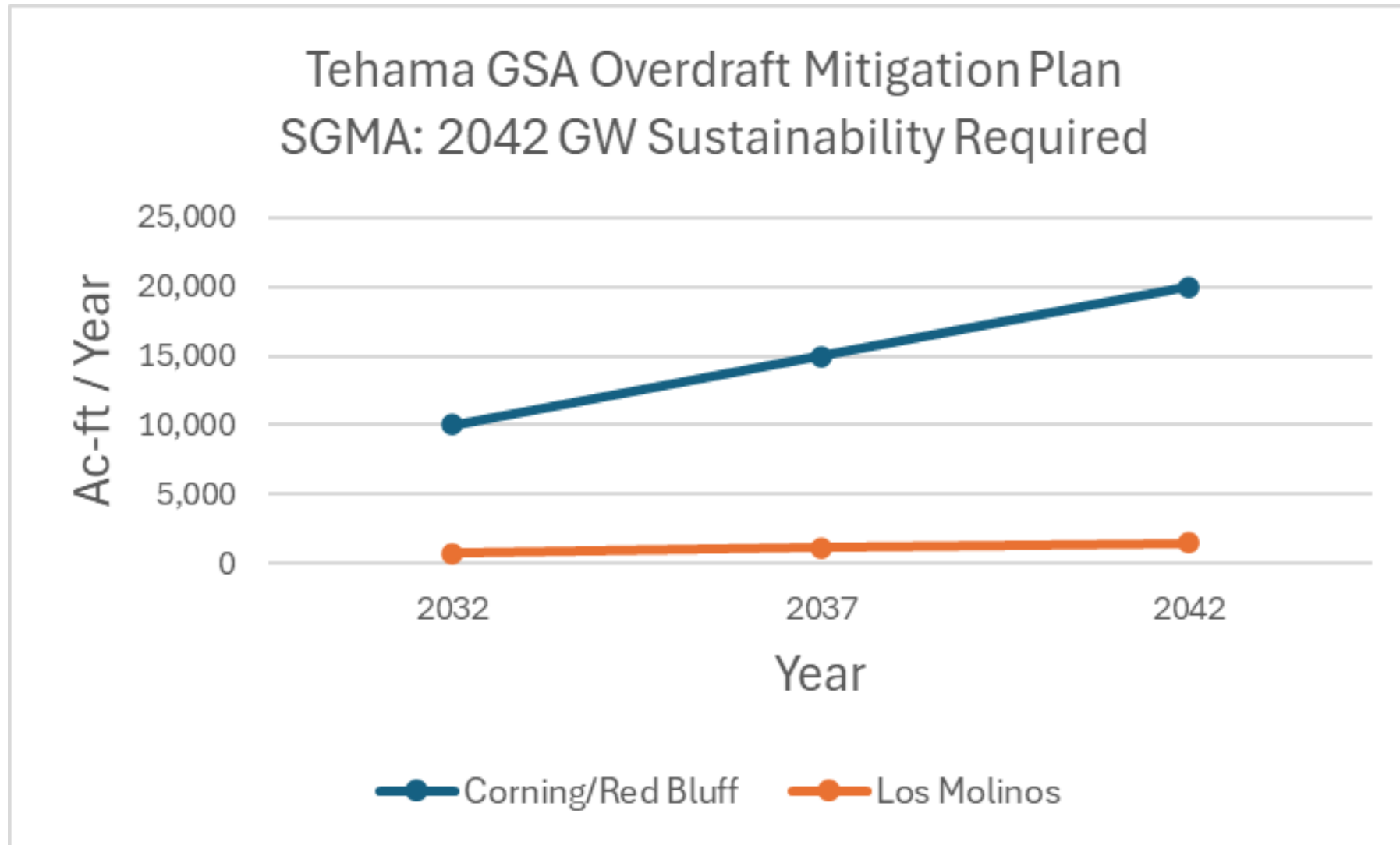
# Water Conditions – indicate groundwater overdraft

## Groundwater Overdraft – Observed in 3 Subbasins

	<u>Avg Annual. Overdraft To Mitigate</u>	<u>Next Update Overdraft To Mitigate</u>
<b>Corning Subbasin</b>	20,000 afy	2027 GSP Update
<b>Red Bluff Subbasin</b>	20,000 afy	2027 GSP Update
<b>Los Molinos Subbasin</b>	1,500 afy	2027 GSP Update

Subbasin overdraft figures will be updated at least every 5 years based on updated water condition data and observed supply and demand project implementation impacts.

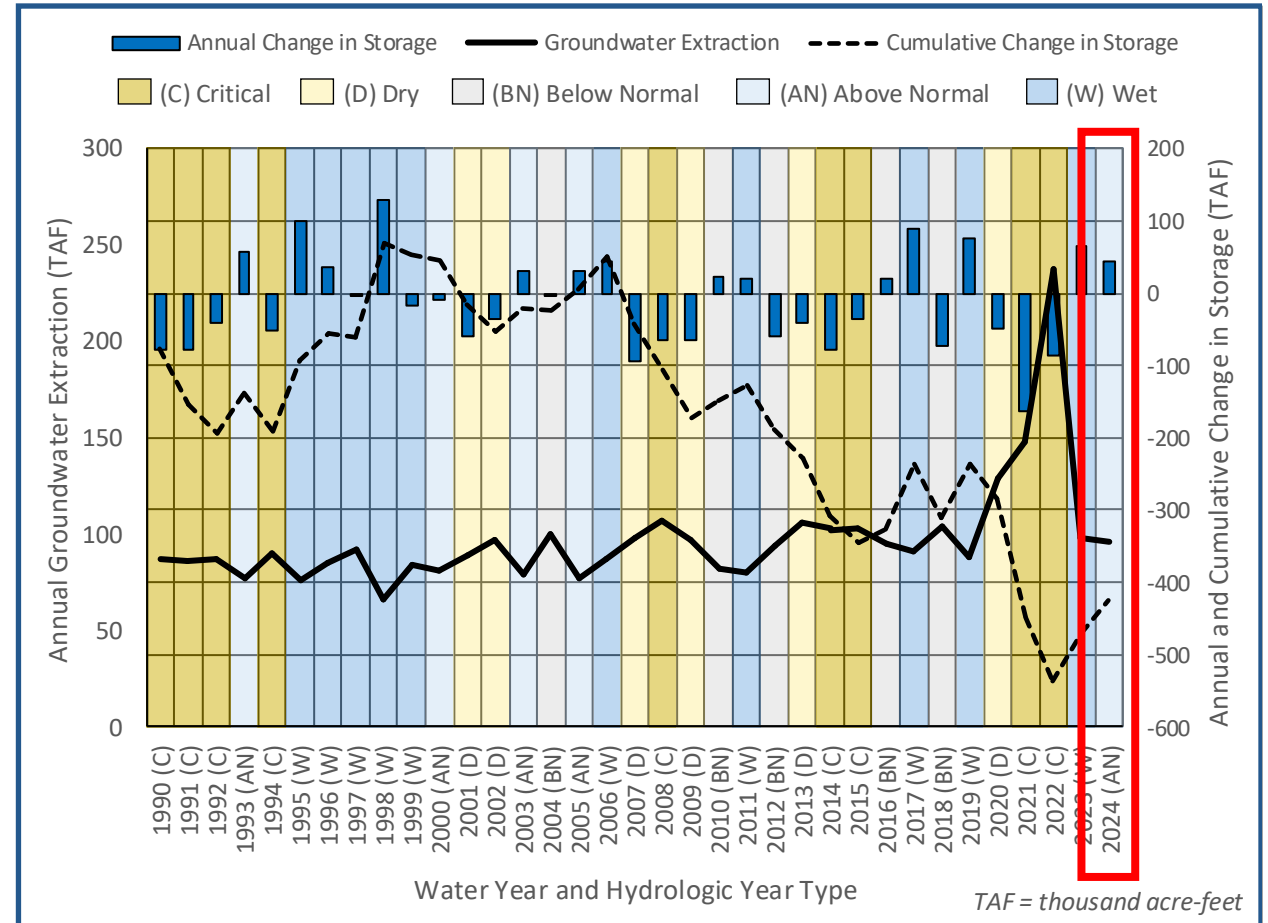
# Water Conditions – indicate groundwater overdraft



# Water Conditions – Red Bluff groundwater overdraft

**Table 4-1. Change in Groundwater Storage**

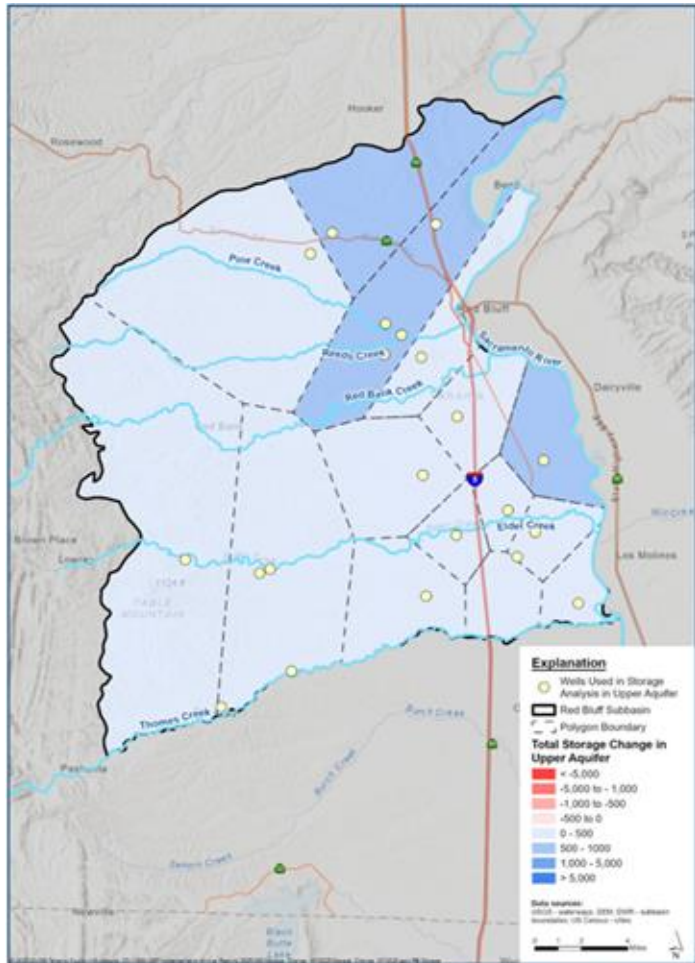
Water Year & Type	Groundwater Extraction (af)	Annual Groundwater Storage Change (af)	Cumulative Groundwater Storage Change (af)
2010 (BN)	93,400	19,000	-323,400
2017 (W)	90,600	88,000	-237,400
2018 (BN)	104,200	-74,000	-311,400
2019 (W)	88,300	75,000	-236,400
2020 (D)	129,300	-49,000	-285,400
2021 (C)	148,100	-164,000	-449,400
2022 (C)	237,300	-87,000	-536,400
2023 (W)	98,000	66,000	-470,400
2024 (AN)	95,800	44,800	-425,600
Historic Averages (2000-2023)			
2000-2023 (23 years)	97,094	-13,835	
W (9 years)	84,680	54,010	
AN (4 years)	78,475	26,875	
BN (5 years)	95,060	-18,600	
D (6 years)	102,617	-57,667	
C (9 years)	116,611	-75,444	



- Total (upper and lower aquifer) change in storage: 44,800 AF
- Upper Aquifer: 14,100 AF; Lower Aquifer: 30,700 AF

# DWR Annual Reports – Red Bluff (WY2025)

## Lack of Full Recovery in Wet Year – Lower Aquifer

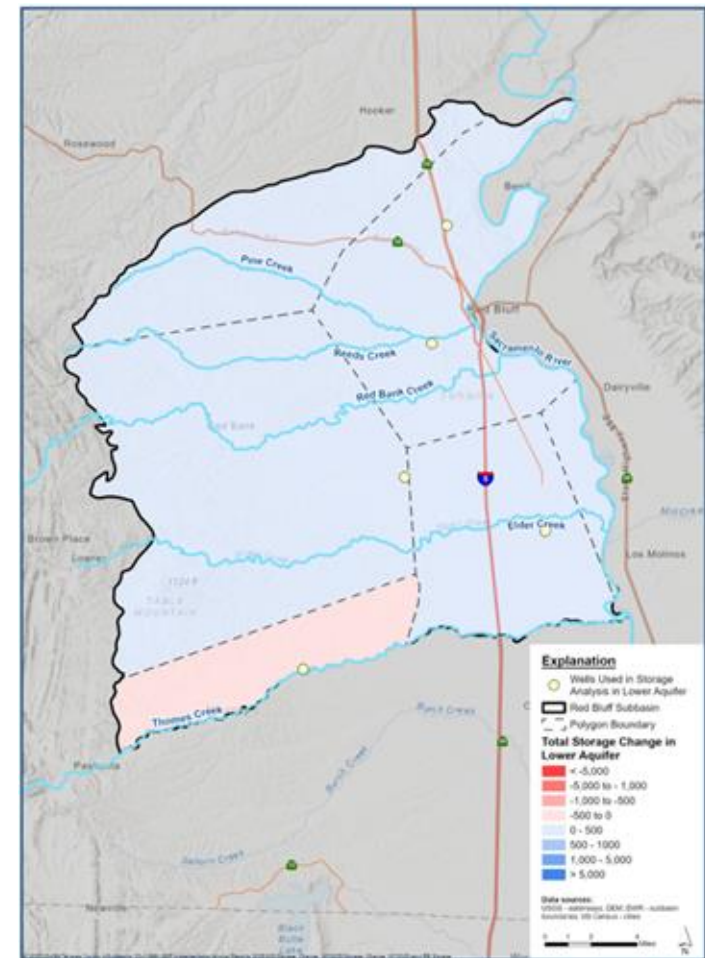


Upper Aquifer

Red Bluff  
Subbasin

Change in GW  
Storage

Spring 2024 -  
Spring 2025



Lower Aquifer

# Water Conditions – Managing Groundwater Overdraft

Achieving Groundwater Sustainability – With Flexibility

Striking a balance between cost-effectively increasing supplies and reducing demands.

Schedule:

2026 – Progress Begins

2042 – SGMA Deadline



Working with landowners to establish local solutions to maintain local control.

# Water Conditions – Accessing Groundwater Data

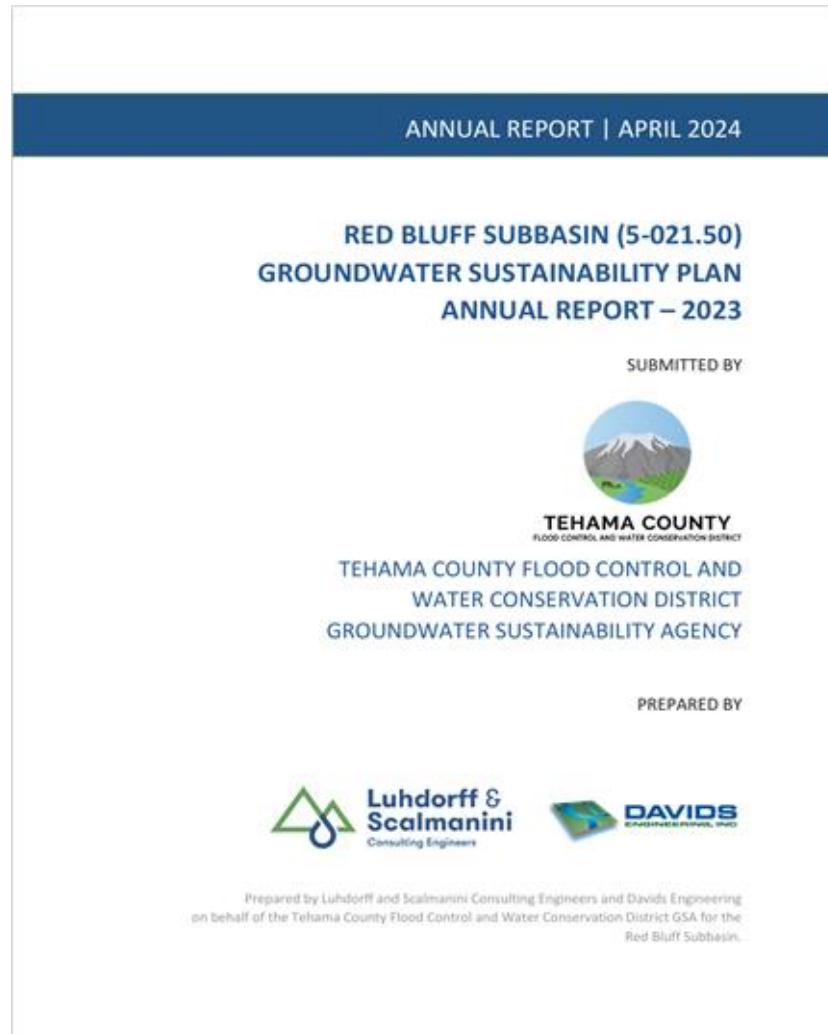
The screenshot shows the Hydrogi website interface. The top navigation bar includes links for HOME, MEETINGS, GROUNDWATER (circled in red), FLOOD CONTROL, DROUGHT RESOURCES, RFPS/RFQS, and CONTACT. A dropdown menu is open under GROUNDWATER, with 'Groundwater Level Monitoring' circled in red. Below the menu, four monitoring locations are displayed, each with a title, address, and a line graph showing groundwater level data over time. The locations are: Gerber East of (25N03W11B01), Capay Road @ Hall Road (23N03W13C03M - 23N03W13C07M), Bowman Road @ Evergreen School (29N04W20A01M - 29N04W20A04M), and Inghram Road @ Tehama-Colusa Canal (23N03W25M01M - 23N03W25M04M). Each graph plots 'DEPTH BELOW SURFACE (FT)' on the y-axis against time on the x-axis. A legend at the bottom of each graph identifies different monitoring wells.



**Groundwater Data is available on the GSA website**

<https://tehamacountywater.org/gsa/groundwater-level-monitoring/>

# DWR Annual Reports – SGMA Compliance Action



- Medium, High and Critically Drafted subbasins are required to prepare and submit Annual Reports to DWR to maintain compliance with SGMA regulations.
- Tehama GSA prepares Annual Reports for Corning, Red Bluff, Los Molinos, Antelope, and Bowman subbasins.
- Annual Reports for Water Years 2021, 2022, 2023, 2024, and 2025 have been prepared and submitted to DWR by the April 1 annual deadline.

# DWR Annual Reports – SGMA Compliance Action

## Typical Annual Reports Preparation Schedule

- Oct-Dec: Monitoring network data collection and analysis.  
Jan-Feb: Data evaluation and QA/QC.  
March: Preparation and GSA approval of Annual Reports.  
April: Submittal of approved Annual Reports to DWR.

## Future annual reports to include:

- Detailed descriptions of actions taken to avoid/reverse threshold exceedances.
- Specific PMAs to address unsustainable water supply areas.
- Improved monitoring data (seasonal lows, measurement dates, and reduced data gaps).

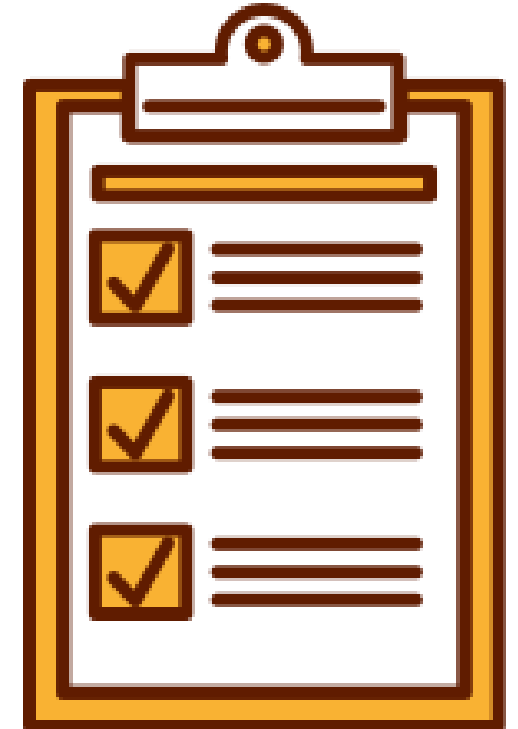


Tehama County Annual reports are available on the GSA website:  
<https://tehamacountywater.org/gsa/groupwater-sustainability-plans-public-draft/>

*Annual Reports from all GSAs statewide are available on the DWR website: <https://sgma.water.ca.gov/portal/gspar/submitted>*

# DWR SGMA Compliance – Report Card

SGMA Requirements	Purpose
Establish Local GSA	Long term local control
Develop Sustainability Indicators	Measurable Objectives & Min Thresholds Well Levels
Prepare Annual Reports	Groundwater conditions
Prepare Periodic Evaluations	Plan updates every 5 years
GSA Coordination	Within Tehama County With Neighboring Counties
<b><u>Local GSA – Other Costs To Achieve SGMA Compliance</u></b>	
Data Management	Data Collection Data quality control/integration
Special Studies-PMA Development	Sustainability Actions
Future Grant Funding Procurement	Reduce Future Local Costs



Tehama GSA: passing grade on SGMA compliance (2021-2026); future compliance will require local funding source.



# Overview of Actions

Grant spending

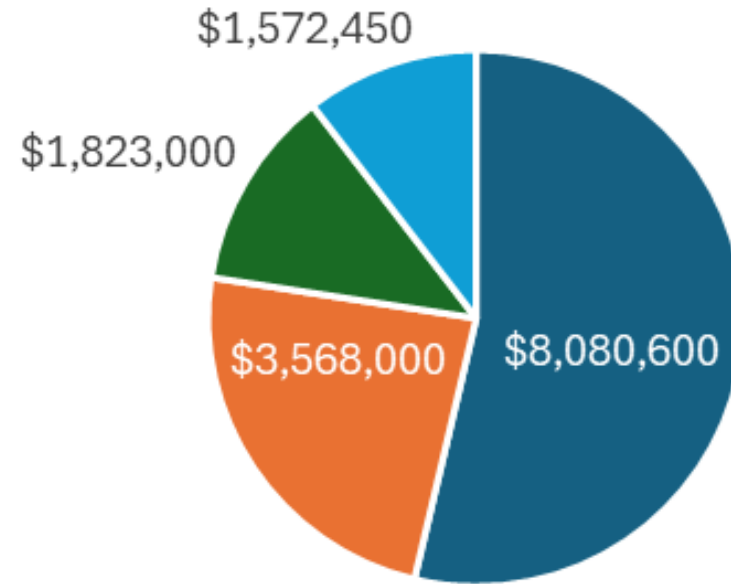
Managing demand for water

Other actions

- Increasing water supply (recharge)
- Mitigating dry wells
- Monitoring conditions

# Tehama GSA – DWR Grant Funds Summary

## DWR Grant Amount

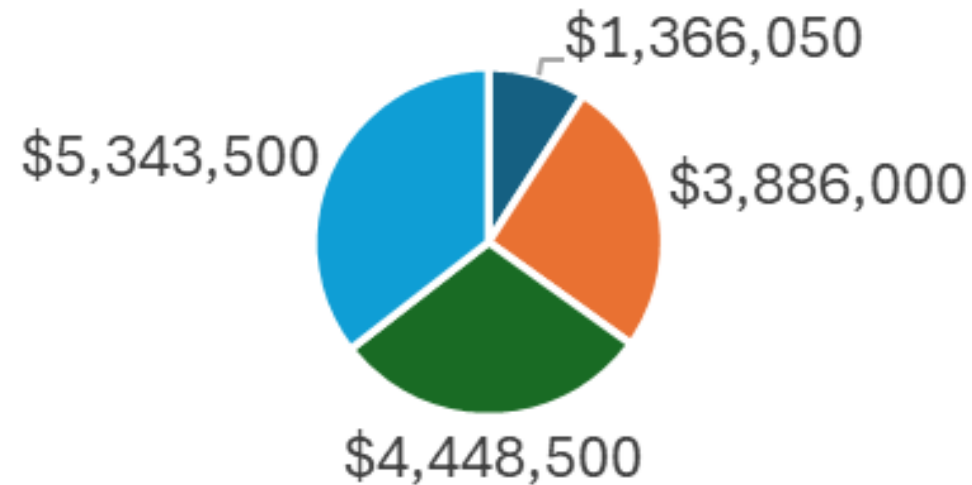


■ Corning ■ Red Bluff ■ Los Molinos ■ Antelope

<https://tehamacountywater.org/sgmp-round2grant/>

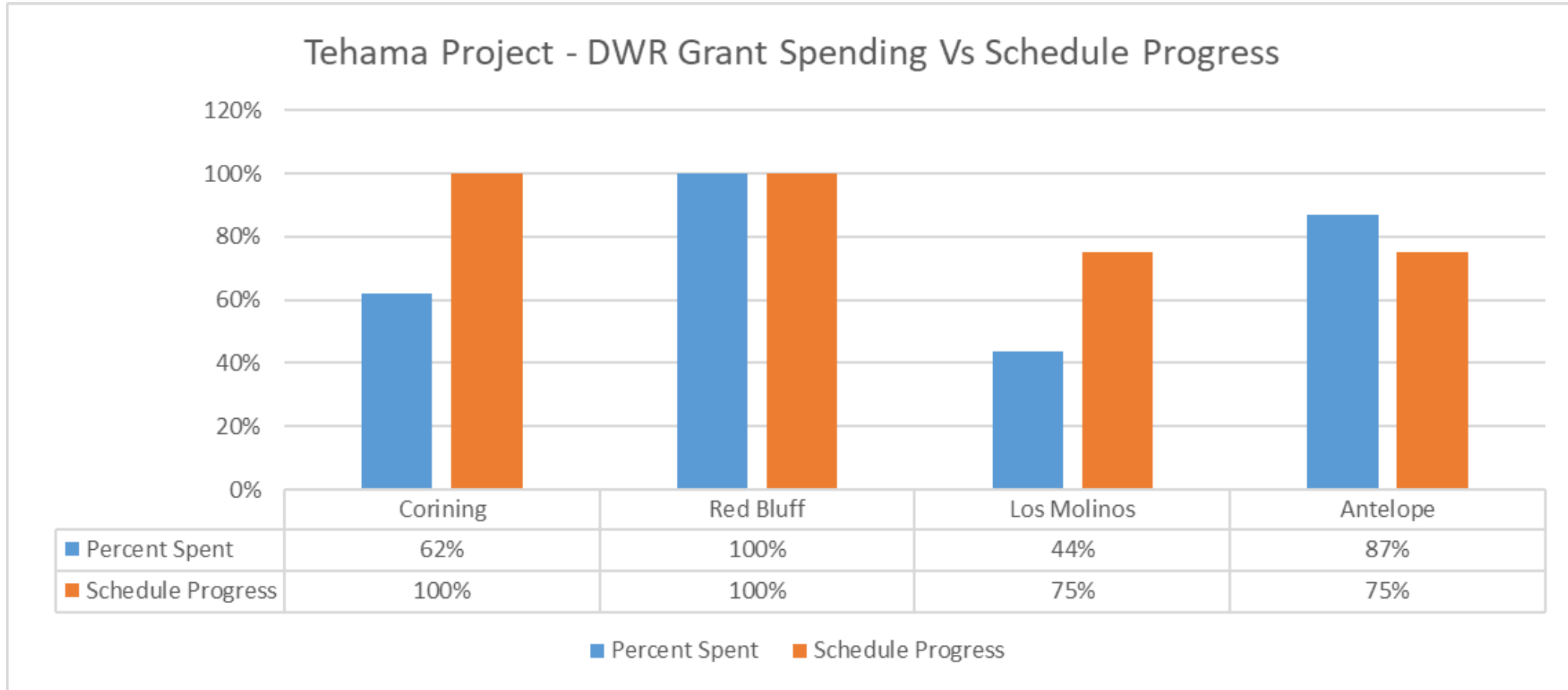
# Tehama GSA – DWR Grant Funds Summary

## DWR Budget Amount



- Grant Admin.
- GSP Implementation
- Monitoring Network Enhancements
- Recharge Projects

# DWR Grant Implementation – Status March 2026



Tehama GSA: Red Bluff = 100% complete by 3.31.26; Corning = 70% complete by 3.31.26. Los Molinos and Antelope DWR agreements extended to 12.31.26, Corning amendment pending.

# Demand Management Program Update

*Everyone in Tehama County depends on the same groundwater. A successful demand management program must work for farmers, ranchers, and households alike. We're designing a program that finds that balance.*

## What the Community Told Us...



110

**Community Survey Responses**  
Across all county subbasins  
Aug – Oct 2025



### Keep Costs & Fees Low

Affordability is shared concern. Households, farmers, and ranchers all raised it as top priority.



### Protect Small Farms & Rural Residents

Tailor approach to actual situation and protect those most vulnerable, regardless of use type.



### Ensure Fairness Across All Users

Target solutions where they're needed most. Proportionate, not one-size-fits-all.

# How We're Responding: A Two-Phase Program

## PHASE 1: Starting ~2026

### Voluntary & Incentive-Based

- Water efficiency programs & best management practices
- Groundwater recharge and land repurposing programs
- Intent is no restrictions (possible earlier actions for worst cases if conditions require it)
- Outreach and action move forward together, not in sequence

*If voluntary measures aren't enough...*

## PHASE 2: 2032 and beyond, *IF needed*

### Targeted Mandatory Measures

- Only in areas of most severe groundwater stress
- Reviewed & updated at least every 5 years

# Demand Management - Where We Are and What's Coming Next



## Stay Involved:

Sign up for the District email list · Attend Groundwater Commission or Board meetings · Follow DM Working Group meetings

<https://tehamacountywater.org/demand-management-ad-hoc-working-group/>

# Well Mitigation Program

## Background

- The GSA will mitigate dry well conditions caused by groundwater management actions (not conditions caused by drought or normal wear and tear)
- Program parameters were developed by a Working Group including Groundwater Commissioners, Farm Bureau, Environmental Health
- Separate from existing drought relief programs (e.g., North Valley Community Foundation water deliveries)

## Status & Timeline

*Program still in development – not ready for applications*

**January 1, 2026:** Adopted by GSA/Board of Supervisors

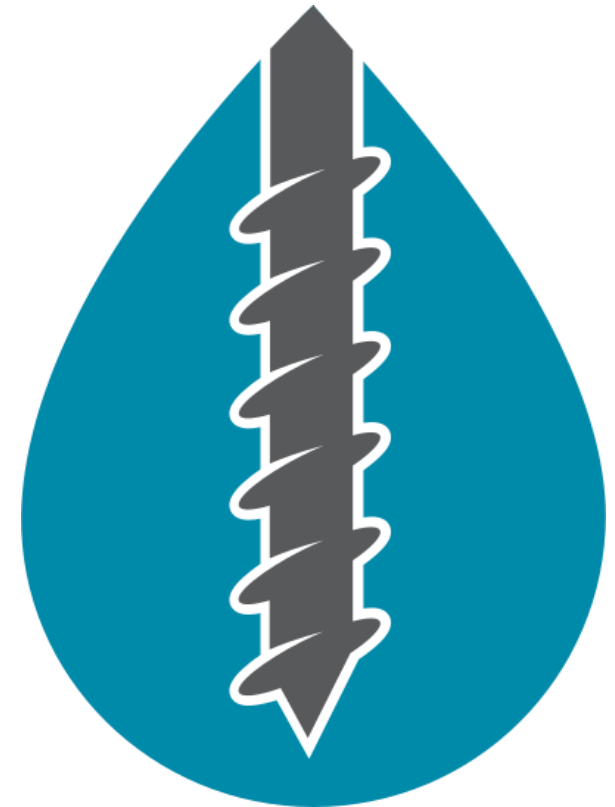
**Within 6 months:** Board to approve implementing ordinances

**Within 6 months:** GSA staff to develop eligibility criteria and application process

## Well Mitigation – What the Program Provides

- **Educational information** to well owners before applying and paying an application fee
- **Initial assessment** and **eligibility determination** (application fee required)
- Coordination support for **temporary drinking water**
- **Monetary-capped reimbursement** (up to \$40,000, depending on funding availability) to the owner for:
  - Deepening or construction of a replacement well
  - May or may not include equipment depending on age of the well
  - Required well abandonment/sealing

*This program is for all wells (domestic, agricultural, and others)  
There is no income threshold to qualify*



# Resources Available & What You Can Do

*These slides will be posted on [tehamacountywater.org](http://tehamacountywater.org) where the links can be accessed*

Topic	What you can do
Dry Well Mitigation Tehama County Resources: <a href="https://tehamacountywater.org/sgmp-round2grant/">https://tehamacountywater.org/sgmp-round2grant/</a>	File a dry well report with CA Department of Water Resources at <a href="https://mydrywell.water.ca.gov/report/">https://mydrywell.water.ca.gov/report/</a>
Well Registration <a href="#">More Info</a>	Register your well so the County has accurate information and fees are correctly assessed – this can save you money <a href="#">Link to well registration form</a>
Water District Connection	If you're within a water district and not connected, get connected! <i>Email us at <a href="mailto:TehamaGSA@tcpw.ca.gov">TehamaGSA@tcpw.ca.gov</a></i>
Volunteer Monitoring Program More Info: <a href="#">Antelope subbasin</a>   <a href="#">Corning Subbasin</a>	Volunteer your well to monitor groundwater levels, and gain insight into your own well operations. <a href="#">Link to learn more or sign up</a>
Landowner Recharge <a href="#">More info about groundwater recharge</a> <a href="#">More info about recharge projects in Tehama County</a>	Tehama GSA is always looking for ideas for recharge projects and landowners who want to help. <a href="#">Link to submit recharge ideas</a>



# FEE STUDY

SGMA FUNDING STRUCTURE  
UPDATES

# Tehama GSA – Annual GSP Implementation Fees

## Why Are Fees Needed?

2021-2026:  
\$19M in grants  
covered GSA costs.

2027-2042:  
Sustainable Fees are  
needed with no grant  
funds available.

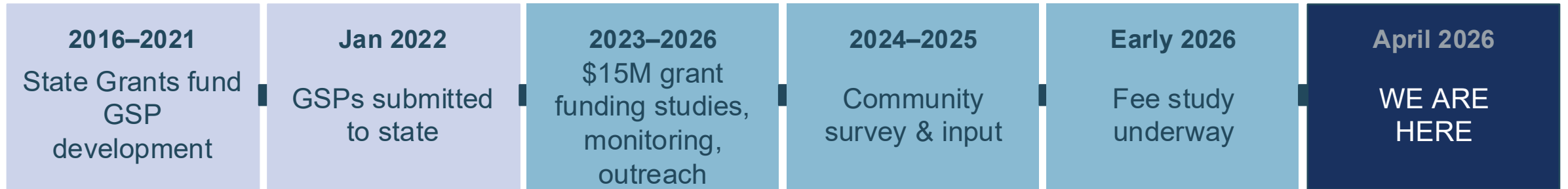


### 261 GSAs in California

- Medium;
- High; and
- Critically Over  
drafted subbasins.

Most GSAs have long  
term fees or charges in  
place to achieve SGMA  
compliance with local  
control.

# Tehama County SGMA Financial History



## In the next few months....

- **TODAY: Public Meetings**
- **APRIL–MAY 2026:** Final fee study recommendations presented to Commission and Board.
- **SUMMER 2026:** Public hearing and formal fee adoption process. You will be notified by mail and can formally comment or protest.
- **MID-2026:** Current state grants expire. Local fee must be in place to continue program.
- **2027:** Fees would first appear on property tax bills, if adopted.

# Public Input – What we've heard from you

## Venues for input

110+ Demand Management community survey responses

Stakeholder advisory working group meetings

Regular public comment at every Commission and Board meeting

Direct outreach to agricultural operators, domestic well owners, and ranchers

Public Meetings & Workshops

## Community wants:

- Keep costs low
- Protect small farms and domestic wells
- Use fair, proportional charges
- Maintain local control
- Be transparent — tell you what things cost



# Why We Can't Rely on Grants Forever

## The grant era is ending

- State grants (Prop 1 & 68) funded our plans — no local cost to landowners
- \$15 million in implementation grants have funded monitoring wells, modeling, and recharge studies
- These grants expire by mid-2026
- State law requires a stable local funding source — grants are not a permanent solution

## The alternative: State intervention

If we fail to fund a local plan, the State Water Board takes over:



### **Fees 5–10× higher**

Every dollar goes to state overhead — nothing funds local projects



### **No local benefit**

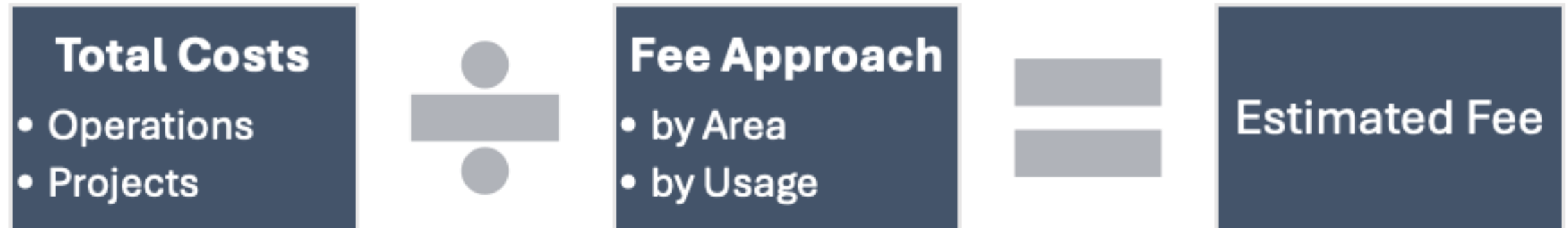
None of the money returns to Tehama County programs



### **Loss of local control**

State decides what happens here — not your elected Board

# Fee Development Process



# Your fee pays for two things, designed separately

## Projects & Management Actions (PMA) fee

*Fixing the problem*

---

### Overdraft subbasins only

Includes:

- Groundwater recharge projects
- Dry well mitigation — help when wells go dry
- Voluntary incentive programs for farmers
- Demand management programs (if needed)

## Administrative/Operations fee

*Keeping the lights on*

---

### District-wide *or* to all subbasins

Includes:

- Staff time to run the program
- Annual monitoring and reporting to the state
- Legal support and compliance
- Data management and model updates
- Five-year plan updates required by SGMA

# Where we are: options under study

## PMA: Option 1

Minimum programs budget

*Dry well mitigation + early voluntary projects*

OR

## PMA: Option 2

Full programs budget

*Adds demand management cost recovery*



## Admin/Ops: Option A

Flat parcel fee

*Same charge for every parcel, district-wide*

OR

## Admin/Ops: Option B

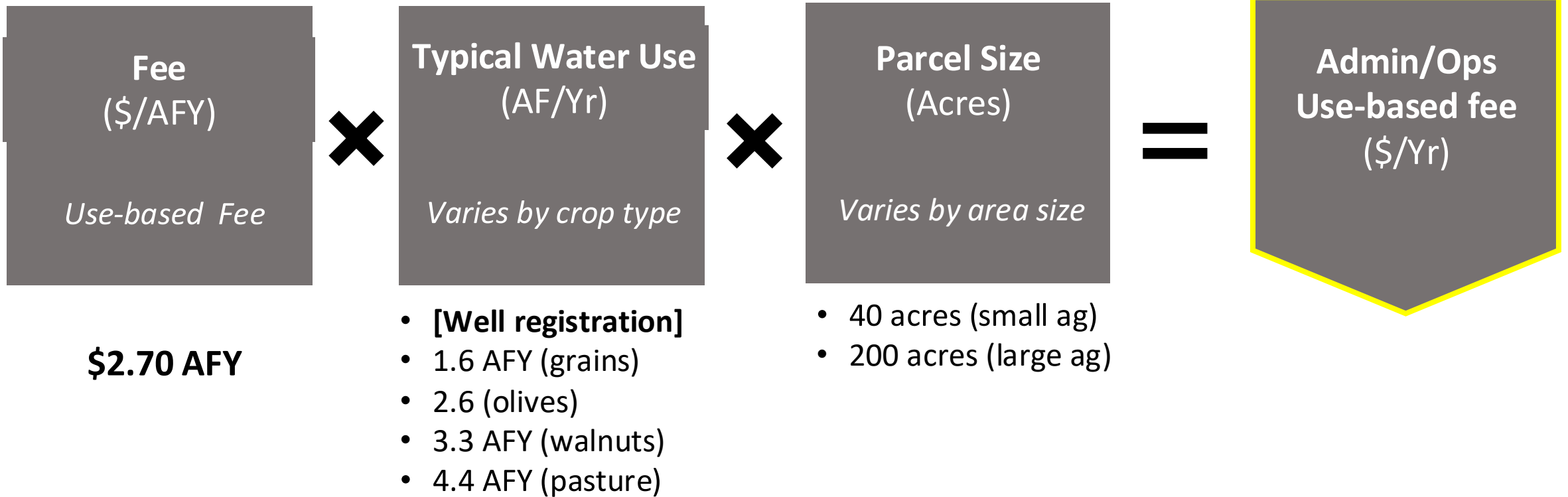
Volumetric use fee

*Charge based on estimated groundwater use*

**Total Costs = PMA Fee (1 or 2) + Admin/Ops Fee (A or B)**

# Calculating the Volumetric Fees | Admin/Ops

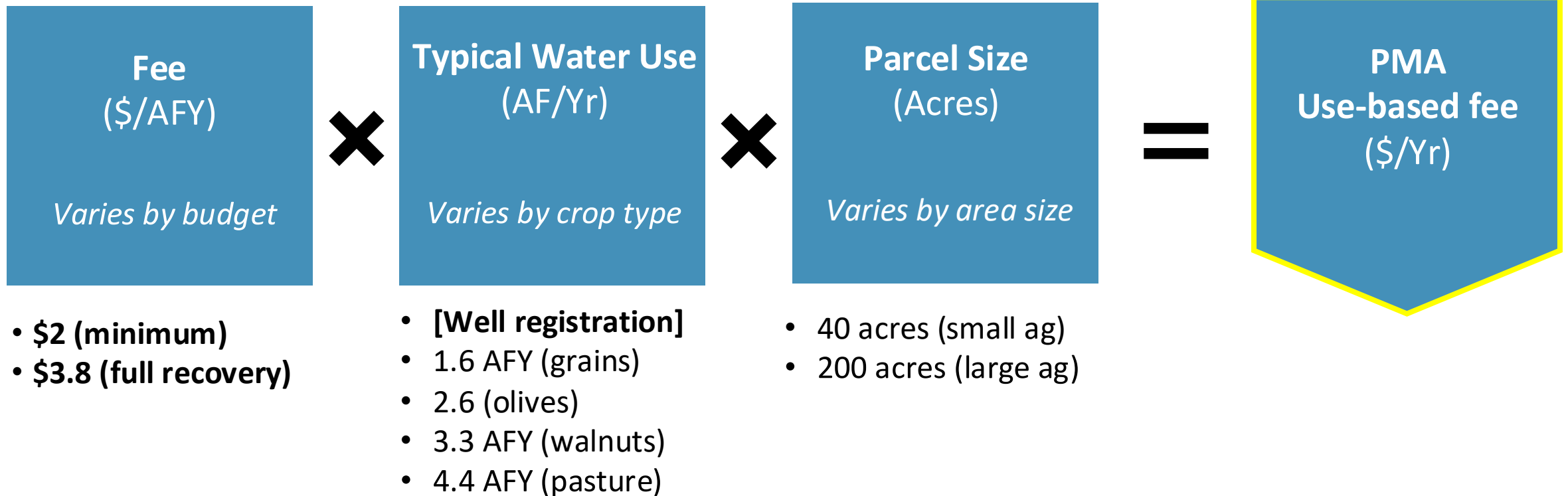
Admin/Ops Use-based fee option:



**Example:** 40 acres; growing olives  
(\$2.70) (2.6AFY) (40 acres) = \$280.8 annual Admin/Ops fee

# Calculating the Volumetric Fees | PMAs

PMA Use-based fee options (minimal or full budget)



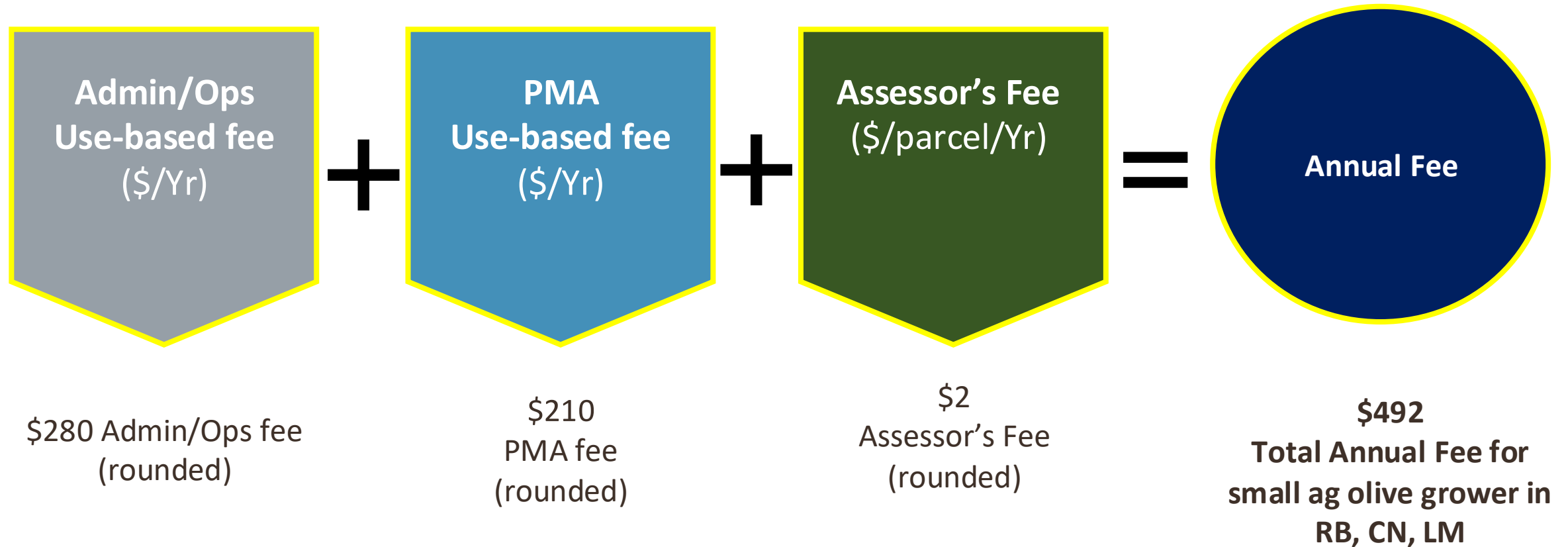
**Example:** 40 acres; growing olives; in overdrafted basin (CN, RB, LM);

using minimum budget

(\$2.00) (2.6 AFY) (40 acres) = \$208 annual PMA fee

# Calculating the Volumetric Fees | Totals

**Example:** 40 acres; growing olives; in overdrafted basin (RB, CN, LN); using minimum budget



*Preliminary estimates only — final figures expected in April/May (presented to Commission and Board)*

# What does this mean for you?

**⚠ ALL NUMBERS BELOW ARE PRELIMINARY ESTIMATES – NOT FINAL AMOUNTS**

User type	PMA fee (prelim.) Volumetric only, choosing b/w smaller or larger budget <i>(Overdrafted basins only)</i> ~\$2.00 AFY	Admin/Ops fee (prelim.) Choosing b/w based on parcels or volumetric	TOTAL (PMA + Admin/Ops) Approx. annual fee range <i>(Overdrafted basins only)</i> (Add \$2 Assessor's Fee)
Urban Residential	\$0 <i>(not irrigating)</i>	Parcel-Based: ~\$30-40/yr	~\$3 – \$40 per year
		or if volumetric: ~\$3-5+	
Rural Residential	\$0 <i>(not irrigating)</i>	Parcel-Based: same flat fee	~\$15 – \$40 per year
		or if volumetric: ~\$15-20+	
Commercial	~\$30-40+	Parcel-Based: same flat fee	\$60 – \$80 per year <i>(Lower in non-overdrafted basin)</i>
		or if volumetric: possibly ~\$30-40+	
Small agricultural operation (Ave. 40 acres)	For 40 acres: ~\$130-400/yr (crop type varies)	Parcel-Based: same flat fee	~\$380 – \$800 per year (40 acres, crop type varies) <i>(Lower in non-overdrafted basin)</i>
		or if volumetric: (40 acres: ~\$175-475/yr)	
Large agricultural operation (Ave. 200+ acres)	For 200 acres: ~\$640–1,800/yr (crop type varies)	Parcel-Based: same flat fee	~\$670 – \$4175 per year (200 acres: crop type varies) <i>(Lower in non-overdrafted basin)</i>
		or if volumetric: (200 acres: ~\$865–2,375/yr)	

***These are ballpark ranges only. Final amounts depend on fee method chosen and fee study results***

# Your chance to weigh in — don't miss it

1	<b>Register your well now</b> Your well registration data determines your fee estimate. Unregistered wells get charged based on zoning assumptions, not actual use. Register at <a href="https://tehamacountywater.org/well-registration/">tehamacountywater.org/well-registration/</a>	Ongoing
2	<b>Public workshops</b> Dedicated sessions to present fee options, answer questions, and collect public input before the Board votes.	April 1 & 2, 2026
3	<b>Board of Directors: Fee Report Approval</b> Board – fee report	April 2026
4	<b>Public mailers</b> All residents receive mailers on approved fee report	May 2026
5	<b>Board of Directors: public hearing, BOD vote</b> Public hearing required. You can formally comment or protest before any fee is adopted.	June 2026
6	<b>If adopted, you'll be notified</b> All affected parties receive a written notice explaining their fee estimate and how to appeal.	After adoption

# What's Next and Staying Involved

## Upcoming Tehama County Meetings

- **April 8** - Groundwater Commission  
*8:30 am in Board Chambers Room*  
*727 Oak St., Red Bluff*
- **April 23** - Flood Control Board of Directors  
*10:00 am in Board Chambers Room*  
*727 Oak St., Red Bluff*

## Other Upcoming Dates

**June 30** - Mandatory well registration deadline

## Connect with us

- Join the Interested Parties email list at <https://tehamacountywater.org/gsa/> or by emailing [TehamaGSA@tcpw.ca.gov](mailto:TehamaGSA@tcpw.ca.gov)
- Follow Tehama County Flood Control & Water Conservation District on Facebook
- District Staff office hours:  
Mon-Thur, 7:30a-4:30p  
1509 Schwab Street, Red Bluff



# Thank You!

# Q&A/Discussion

- Stick around for more discussion
- Contact us: (530) 690-0700 or [TehamaGSA@tcpw.ca.gov](mailto:TehamaGSA@tcpw.ca.gov)

## Reminders:

- Presentation slides & a recording of this meeting will be posted to [tehamacountywater.org/meetings/](http://tehamacountywater.org/meetings/)



# Participation Protocols

*Today we are...*

- Aiming to hear from everyone – please be concise
- Working toward shared understanding – ask questions and listen to understand
- Capturing the public's thoughts
  - Use the mic
  - Submit written comment
  - Email [tehamagsa@tcpw.ca.gov](mailto:tehamagsa@tcpw.ca.gov)

# APPENDIX F

## Tehama GSA – 2026 Fee Calculations



## Appendix F – Calculation of Water Use

### Introduction

The following tables summarize the estimated crop acreage and water use that was derived from various data sources. The data source for crop acreage was the Associated Parcel Number (APN) data that was based on Assessor’s data and additional GIS data added by Luhdorff & Scalmanini Consulting Engineers (LSCE). This data included zoning codes and acreages for each parcel, which also identified the subbasins each parcel was located in, and allowed for aggregating data by individual subbasins.

Water use estimates were based on LSCE data from a Technical Memorandum (TM) titled *Technical Foundations for Safe Yield, Sustainable Yield, and Groundwater Demand Management in Tehama County*, dated November 19, 2025. Table 1 of that TM presented assumed volumes of water use by crop type in acre feet per acre per year (AF/Ac/yr).

The following are descriptions of each table.

**Appendix Table F-1** – Calculation of Estimated Water Use per Year by Subbasin (AF/Year) This table summarizes the acreage for each of the managed subbasins (i.e., Corning, Los Molinos, Red Bluff, Antelope, and Bowman), as well as the average volume of water use and the total acre feet per year (AF/yr) that was estimated based on the zoning codes of the parcels within each subbasin and LSCE assumed water use by land use and crop type. This summary is a rollup of the data presented in Appendix Tables F-2 through F-6.

### Appendix Table F-1

Calculation of Estimated Water Use per Year by Subbasin (AF/Year)						
Managed Subbasin	Acreage by Subbasin			Average % Urban Land	Average Vol. (AF/Acre/Yr. <sup>2</sup> )	AF/Year <sup>3</sup>
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average			
<b>Overdrafted Subbasins - Ag Parcels Only</b>						
Corning	61,207	63,649	62,428	NA	3.33	207,723
Los Molinos	15,987	16,406	16,196	NA	3.71	60,097
Red Bluff	30,727	33,975	32,351	NA	3.34	108,079
<b>Subtotal - Overdrafted</b>	<b>107,921</b>	<b>114,029</b>	<b>110,975</b>	<b>NA</b>	<b>3.39</b>	<b>375,899</b>
<b>Overdrafted &amp; Managed Subbasins - Ag, Commercial and Residential Parcels<sup>4</sup></b>						
Corning	70,405	70,273	70,339	11.2%	N.A.	213,656
Los Molinos	19,130	18,094	18,612	13.0%	N.A.	61,909
Red Bluff	46,374	44,088	45,231	28.5%	N.A.	117,739
<b>Subtotal - Overdrafted</b>	<b>135,909</b>	<b>132,455</b>	<b>134,182</b>	<b>17.3%</b>	<b>N.A.</b>	<b>393,304</b>
Antelope	10,591	9,914	10,252	21.9%	N.A.	29,090
Bowman	9,781	7,362	8,571	55.0%	N.A.	17,973
<b>Subtotal - Other Managed</b>	<b>20,372</b>	<b>17,276</b>	<b>18,824</b>	<b>42.0%</b>	<b>N.A.</b>	<b>47,062</b>
<b>Total - All Subbasins</b>	<b>156,280.5</b>	<b>149,730.7</b>	<b>153,005.6</b>	<b>19.7%</b>	<b>N.A.</b>	<b>440,366</b>

1. Source: Tehama GSA Annual Reports.

2. Average water use per crop type is from Table 1, TM - Technical Foundations for Safe Yield, Sustainable Yield, and Groundwater Demand Management in Tehama County, Nov. 19, 2025. Excludes non-Ag parcels and those assumed to have no water use.

3. Urban AF/Acre Based on County zoning/APN data for all managed subbasins (zoning codes R-1 - SCSP). For overdraft subbasins, total water use (AF/yr.) is 96% Ag, which is the total Ag Only (375,899 AF/yr.) divided by Ag & Residential (393,304 AF/yr).

4. Assumes Urban Residential (including commercial) water use is 0.75 AF/Acre/Year. Source: Table 1 of Nov. 19, 2025 TM.

**Appendix Tables F-2 – F6 – Acreages, Assumed Volume and AF/Yr by Subbasin**

For each of the five managed subbasins (i.e., Corning, Los Molinos, Red Bluff, Antelope, and Bowman), acreages for 2022 and 2024, along with the two-year average is presented along with the assumed annual volume of water use by crop type. Based on the assumed volumes and acreages, the annual water use (AF/year) is shown in the right-hand column.

Because each table includes non-agricultural parcels, and totals shown at the bottom of each table have an additional row totaling the Ag-only data, which is needed for fee estimates that apply to ag-only parcels. Also, highlighted cells in these tables identify the assumed volumes of zero for zoning codes that were assumed to have no annual water use, such as barren ground, native vegetation, riparian vegetation, etc.

**Appendix Table F-2**

Subbasin	Acreage by Subbasin			Assumed Vol. (AF/Acre/Yr. <sup>2</sup> )	AF/Year
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average		
Antelope					
pistachios	3.3	6.7	5.0	3.6	18.0
misc_truck_crops	10.0	8.0	9.0	2.4	21.6
wheat	70.1	210.0	140.1	1.6	224.1
grain_and_hay	141.6	283.0	212.3	1.6	339.7
almonds	178.7	134.3	156.5	3.6	563.4
misc_deciduous	1,303.2	1,128.3	1,215.8	3.3	4,012.0
misc_pasture	1,402.2	1,384.4	1,393.3	4.4	6,130.5
urban <sup>3</sup>	2,554.7	1,929.6	2,242.2	0.75	1,681.6
walnuts	4,927.3	4,829.5	4,878.4	3.3	16,098.7
Antelope Total	10,591.1	9,913.8	10,252.5	--	<b>29,089.6</b>

**Appendix Table F-3**

Subbasin	Acreage by Subbasin			Assumed Vol.	AF/Year
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average		
Bowman					
citrus_and_subtropical	2.9	3.3	3.1	2.6	8.1
onions_and_garlic	8.3	0.0	4.2	2.4	10.0
almonds	16.7	17.4	17.1	3.6	61.4
grapes	19.8	19.8	19.8	2.4	47.5
misc_field_crops	84.1	0.0	42.1	3.3	138.8
wheat	154.5	0.0	77.3	1.6	123.6
misc_deciduous	268.9	241.5	255.2	3.3	842.2
grain_and_hay	341.0	602.8	471.9	1.6	755.0
walnuts	534.3	533.4	533.9	3.3	1,761.7
misc_pasture	2,457.9	2,399.2	2,428.6	4.4	10,685.6
urban <sup>3</sup>	5,892.4	3,544.5	4,718.5	0.75	3,538.8
Bowman Total	9,780.8	7,361.9	8,571.4	--	<b>17,972.6</b>

**Appendix Table F-4**

Subbasin	Acreage by Subbasin			Assumed Vol.	AF/Year
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average		
Corning					
grapes	15.0	20.2	17.6	2.4	42.2
misc_truck_crops	23.5	19.2	21.4	2.4	51.2
sunflower	40.7	32.1	36.4	3.3	120.1
onions_and_garlic	44.5	0.0	22.3	2.4	53.4
wheat	264.5	458.8	361.7	1.6	578.6
pistachios	535.5	706.0	620.8	3.6	2,234.7
alfalfa	1,068.8	1,612.1	1,340.5	3.7	4,959.7
misc_field_crops	1,750.7	1,532.4	1,641.6	3.3	5,417.1
grain_and_hay	3,738.4	4,935.4	4,336.9	1.6	6,939.0
misc_deciduous	5,093.1	5,452.4	5,272.8	3.3	17,400.1
misc_pasture	7,949.4	8,267.8	8,108.6	4.4	35,677.8
citrus_and_subtropical	7,966.2	7,925.3	7,945.8	2.6	20,659.0
urban <sup>4</sup>	9,197.2	6,624.1	7,910.7	0.75	5,933.0
walnuts	13,867.0	13,714.3	13,790.7	3.3	45,509.1
almonds	18,850.0	18,972.7	18,911.4	3.6	68,080.9
Corning Total	70,404.5	70,272.8	70,338.7	--	<b>213,656.02</b>
Corning Total (Ag Only)	61,207.3	63,648.7	62,428.0	--	<b>207,723.0</b>

**Appendix Table F-5**

Subbasin	Acreage by Subbasin			Assumed Vol.	AF/Year
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average		
Los Molinos					
citrus_and_subtropical	8.7	8.7	8.7	2.6	22.6
grapes	30.9	32.0	31.5	2.4	75.5
misc_truck_crops	41.1	52.9	47.0	2.4	112.8
pistachios	58.6	57.1	57.9	3.6	208.3
grain_and_hay	116.6	144.8	130.7	1.6	209.1
almonds	723.3	922.9	823.1	3.6	2,963.2
misc_deciduous	1,042.8	847.6	945.2	3.3	3,119.2
urban <sup>4</sup>	3,142.9	1,688.8	2,415.9	0.75	1,811.9
misc_pasture	6,225.2	6,121.0	6,173.1	4.4	27,161.6
walnuts	7,739.6	8,013.4	7,876.5	3.3	25,992.5
misc_field_crops	0.0	32.6	16.3	3.3	53.8
wheat	0.0	71.9	36.0	1.6	57.5
tomatoes_fresh	0.0	100.6	50.3	2.4	120.7
Los Molinos Total	19,129.7	18,094.3	18,612.0	--	<b>61,908.61</b>
Los Molinos (Ag Only)	15,986.8	16,405.5	16,196.2	--	<b>60,096.7</b>

**Appendix Table F-6**

Subbasin	Acreage by Subbasin			Assumed Vol.	AF/Year
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average		
Red Bluff					
misc_truck_crops	12.7	27.5	20.1	2.4	48.2
sunflower	42.4	26.0	34.2	3.3	112.9
grapes	85.3	84.8	85.1	2.4	204.1
rice	87.3	99.9	93.6	4.7	439.9
alfalfa	115.5	192.5	154.0	3.7	569.8
misc_field_crops	133.2	151.0	142.1	3.3	468.9
pistachios	429.9	427.7	428.8	3.6	1,543.7
wheat	500.3	1,265.5	882.9	1.6	1,412.6
grain_and_hay	1,211.5	2,177.0	1,694.3	1.6	2,710.8
citrus_and_subtropical	1,452.9	1,460.7	1,456.8	2.6	3,787.7
misc_deciduous	2,800.1	1,463.3	2,131.7	3.3	7,034.6
misc_pasture	4,252.6	5,181.4	4,717.0	4.4	20,754.8
almonds	8,465.4	9,409.8	8,937.6	3.6	32,175.4
walnuts	11,137.8	12,008.0	11,572.9	3.3	38,190.6
urban <sup>4</sup>	15,647.5	10,112.8	12,880.2	0.75	9,660.1
Red Bluff Total	46,374.4	44,087.9	45,231.2	--	<b>117,739.18</b>
Red Bluff Total - Ag Only	30,726.9	33,975.1	32,351.0	--	<b>108,079.1</b>

1. Source: Tehama GSA Annual Reports.

2. Table 1, TM - Technical Foundations for Safe Yield, Sustainable Yield, and Groundwater Demand Management in Tehama County, Nov. 19, 2025.

3. Based on County zoning/APN data for Antelope and Bowman subbasins ONLY (zoning codes R-1 - SCSP)  
See highlighted row in Table titled: "Summary - Parcel Data & Estimated Annual Water Use - All Managed Subbasins".

4. Based on County zoning/APN data for overdrafted subbasins (zoning codes R-1 - SCSP)  
See Table titled: "Summary - Parcel Data & Estimated Annual Water Use - Overdrafted Subbasins".

**Appendix Table F-7 – Acreages, Assumed Volume and AF/Yr for All Subbasins**

This table presents a summary of all five subbasins for acreages and estimated water use (AF/Year) shown in Tables F-2 through F6.

**Appendix Table F-7**

Subbasin	Acreage by Subbasin			Assumed Vol.	AF/Year
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average		
grapes	151.0	156.8	153.9	2.4	369.4
misc_truck_crops	87.3	107.6	97.5	2.4	233.9
sunflower	83.1	58.1	70.6	3.3	233.0
onions_and_garlic	52.8	0.0	26.4	2.4	63.4
wheat	989.4	2,006.2	1,497.8	1.6	2,396.5
pistachios	1,027.3	1,197.5	1,112.4	3.6	4,004.6
alfalfa	1,184.3	1,804.6	1,494.5	3.7	5,529.5
misc_field_crops	1,968.0	1,716.0	1,842.0	3.3	6,078.6
grain_and_hay	5,549.1	8,143.0	6,846.1	1.6	10,953.7
misc_deciduous	10,508.1	9,133.1	9,820.6	3.3	32,408.0
misc_pasture	22,287.3	23,353.8	22,820.6	4.4	100,410.4
citrus_and_subtropical	9,430.7	9,398.0	9,414.4	2.6	24,477.3
urban <sup>4</sup>	36,434.7	23,899.8	30,167.3	0.75	22,625.4
walnuts	38,206.0	39,098.6	38,652.3	3.3	127,552.6
rice	87.3	99.9	93.6	4.7	439.9
tomatoes_fresh	0.0	100.6	50.3	2.4	120.7
almonds	28,234.1	29,457.1	28,845.6	3.6	103,844.2
All Subbasins Total	156,280.5	149,730.7	153,005.6	--	<b>441,740.98</b>
All Subbasins (Ag Only)	119,845.8	125,830.9	122,838.4	--	<b>419,115.5</b>

% of AF/Yr. from Ag (vs. Urban) 95%

**Appendix Table F-8 – Calculation of Average Crop Water Use – Ag Crops Only**

This table summarizes the acreages and estimated water use in all subbasins for ag-only parcels. At the bottom, the totals are used to calculate the average assumed volume (in AF/Ac/Year) based on the total water use in the right-hand column and the total average acres. This 3.4 AF/Ac/year value shown is the basis for estimating typical ag-parcel water use.

**Appendix Table F-8**

<b>Calculation of Average Crop Water Use - Ag Crops Only</b>					
Subbasin	Acreage by Subbasin			Assumed Vol.	AF/Year
	2022 <sup>1</sup>	2024 <sup>1</sup>	Average		
grapes	151.0	156.8	153.9	2.4	369.4
misc_truck_crops	87.3	107.6	97.5	2.4	233.9
sunflower	83.1	58.1	70.6	3.3	233.0
onions_and_garlic	52.8	0.0	26.4	2.4	63.4
wheat	989.4	2,006.2	1,497.8	1.6	2,396.5
pistachios	1,027.3	1,197.5	1,112.4	3.6	4,004.6
alfalfa	1,184.3	1,804.6	1,494.5	3.7	5,529.5
misc_field_crops	1,968.0	1,716.0	1,842.0	3.3	6,078.6
grain_and_hay	5,549.1	8,143.0	6,846.1	1.6	10,953.7
misc_deciduous	10,508.1	9,133.1	9,820.6	3.3	32,408.0
misc_pasture	22,287.3	23,353.8	22,820.6	4.4	100,410.4
citrus_and_subtropical	9,430.7	9,398.0	9,414.4	2.6	24,477.3
walnuts	38,206.0	39,098.6	38,652.3	3.3	127,552.6
rice	87.3	99.9	93.6	4.7	439.9
tomatoes_fresh	0.0	100.6	50.3	2.4	120.7
almonds	28,234.1	29,457.1	28,845.6	3.6	103,844.2
All Subbasins (Ag Only)	119,845.8	125,830.9	122,838.4	<b>3.4</b>	419,115.5

This is the average water use in AF/Ac/Year for all crops (excludes Urban and non-ag parcels)

**Appendix Tables F-9 – F-10 – Acres and AF/Yr for All Subbasin**

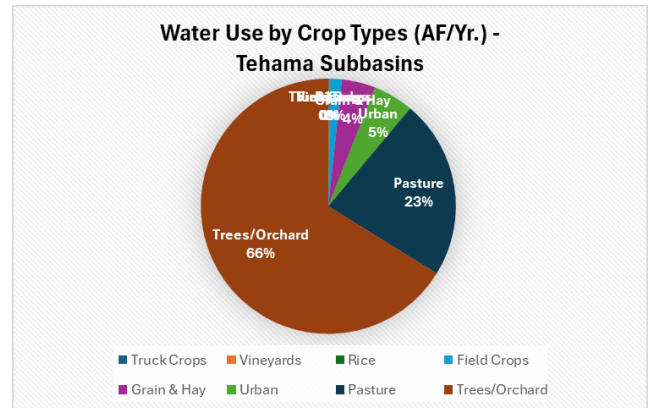
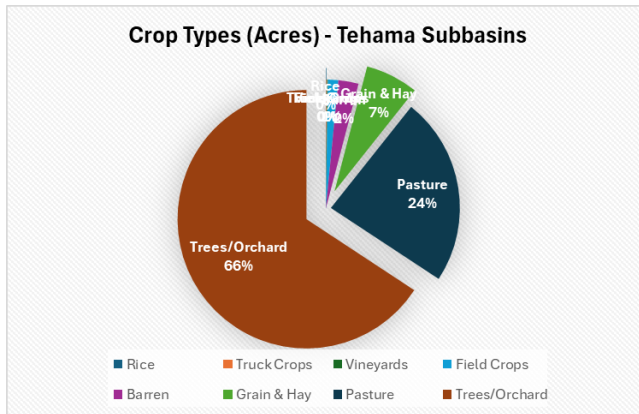
These tables summarize the total ag acres and total water use (AF/year) for the five managed subbasins. These estimates exclude non-ag land uses such as native and riparian vegetation, barren and idle land, urban and parcels zoned “water”. The data from these two tables is also shown graphically in the pie charts in Appendix Figures F-1 and F-2.

**Appendix Tables F-9 and F-10**

Crop Type	Acres	
	Acres	%
Rice	93.6	0.1%
Truck Crops	147.8	0.1%
Vineyards	153.9	0.1%
Field Crops	1,939.0	1.3%
Barren	3,759.0	2.5%
Grain & Hay	9,838.3	6.6%
Pasture	35,077.2	23.6%
Trees/Orchard	97,921.9	65.8%
Total	148,930.6	100.0%

Crop Type	AF/Year	
	AF/Year	%
Truck Crops	354.6	0.1%
Vineyards	369.4	0.1%
Rice	439.9	0.1%
Field Crops	6,374.9	1.4%
Grain & Hay	18,879.6	4.3%
Urban	22,625.4	5.1%
Pasture	100,410.4	22.7%
Trees/Orchard	292,286.7	66.2%
Total	441,741.0	100.0%

### Appendix Figures 1 and 2



### Appendix Tables F-11 – F-13 – Summary of Parcel Data and Estimated Water Use

These tables summarize the total water use (AF/year) along with the acreage and number of APN parcels for the three subsets of data: (1) overdrafted subbasins, (2) the five managed subbasins, and (3) all parcels countywide.

#### Appendix Table F-11

SUMMARY - PARCEL DATA & ESTIMATED ANNUAL WATER USE		OVERDRAFTED SUBBASINS ONLY			
Zoning Code/Description		APN Data (LSCE)			Estimated Annual Volume <sup>2</sup> (AF/Yr.)
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	
AG-1 - AG-4	Agricultural Parcels	6,761	413,774	61.2	1,428,565
C-1 - M-2-S-P	Commercial & Industrial Parcels	8,636	24,716	2.9	34,774
R-1 - SCSP	Residential Parcels	9,124	42,797	4.69	8,230
Totals or Average		24,521	481,286	19.6	1,471,569
Totals/Avg. (After Deducting Exemptions and Exclusions)		24,285	475,678	19.6	1,471,569

1. From LSCE file: Assessor\_Roll\_GIS\$.

2. Volume in AF/year based on total acres for non-residential and total parcels for residential.

#### Appendix Table F-12

SUMMARY - PARCEL DATA & ESTIMATED ANNUAL WATER USE		ALL MANAGED SUBBASINS			
Zoning Code/Description		APN Data (LSCE)			Estimated Annual Volume <sup>2</sup> (AF/Yr.)
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	
AG-1 - AG-4	Agricultural Parcels	8,057	496,047	61.6	1,712,615
C-1 - M-2-S-P	Commercial & Industrial Parcels	9,452	31,178	3.3	39,866
R-1 - SCSP	Residential Parcels	15,757	69,429	4.4	17,688
Totals or Average		33,266	596,654	17.9	1,770,169
Totals/Avg. (After Deducting Exemptions and Exclusions)		32,875	585,154	17.8	1,755,569

1. From LSCE file: Assessor\_Roll\_GIS\$.

2. Volume in AF/year based on total acres for non-residential and total parcels for residential.

**Appendix Table F-13**

SUMMARY - PARCEL DATA & ESTIMATED ANNUAL WATER USE		ALL PARCELS - COUNTYWIDE			
Zoning Code/Description		APN Data (LSCE)			Estimated Annual Volume <sup>2</sup> (AF/Yr.)
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	
AG-1 - AG-4	Agricultural Parcels	10,558	958,364	90.8	3,308,776
C-1 - M-2-S-P	Commercial & Industrial Parcels	11,128	529,946	47.6	923,796
R-1 - SCSP	Residential Parcels	18,672	310,940	16.7	18,847
Totals or Average		40,358	1,799,250	44.6	4,251,419
Totals/Avg. (After Deducting Exemptions and Exclusions)		38,673	1,539,229	39.8	4,251,417

1. From LSCE file: Assessor\_Roll\_GIS\$.

2. Volume in AF/year based on total acres for non-residential and total parcels for residential.

**Appendix Tables F-14 and F-15 – Acres and Estimated Water Use for the Three Over-drafted Subbasins**

These two tables present the number of acres and parcels for zoning codes of over-drafted subbasins (Table F-14) and the estimated water use that was calculated based on the acres for each zoning type (Table F-15). The estimated water use relied on the LSCE water use factors for each zoning type, with notes to the right of Table F-15 showing the assumptions for water use factors.

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## Appendix Table F-14

OVERDRAFTED SUBBASINS ONLY (Corning, Red Bluff and Los Molinos)													
Zoning Code/Description		CORNING Subbasin			RED BLUFF Subbasin			LOS MOLINOS Subbasin			Total OVERDRAFTED Subbasins		
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel
<b>Agricultural Parcels</b>													
AG-1	AG-1 - Agricultural, Upland District	167	34,482	206.5	542	107,595	198.5	236	48,941	207.4	945	191,018	202.1
AG-2	AG-2 - Agricultural, Valley District	2,586	85,985	33.3	1,532.0	87,344.0	57.0	730.0	29,898.0	41.0	4,848	203,227	41.9
AG-3	AG-3 - Agricultural, El Camino District	0	0	0.0	721.0	7,112.6	9.9	0.0	0.0	0.0	721	7,113	9.9
AG-4	AG-4 - Agricultural, Capay District	247	12,416	50.3	0.0	0.0	0.0	0.0	0.0	0.0	247	12,416	50.3
<b>Commercial &amp; Industrial Parcels</b>													
A-V	Airport	0	0	0.0	1.0	34.6	34.6	0.0	0.0	0.0	1	35	34.6
C-1	C-1 - Neighborhood Commercial	0	0	0.0	46.0	44.0	1.0	14.0	5.0	0.4	60	49	0.8
C-1-B:10	C-1 - Neighborhood Commercial	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
C-2-S-P	C-2 - Community Commercial	8	24	3.1	84.0	29.5	0.4	0.0	0.0	0.0	92	54	0.6
C-3	(no definition)	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
C-3-S	(no definition)	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
C-3-S-P	(no definition)	8	99	12.4	52.0	259.1	5.0	89.0	86.9	1.0	149	445	3.0
C-3-S-P-H:30	(no definition)	0	0	0.0	22.0	81.9	3.7	0.0	0.0	0.0	22	82	3.7
CITY	City	2,578	1,874	0.7	5,010.0	4,119.6	0.8	0.0	0.0	0.0	7,588	5,993	0.8
GOV	GOV - Government	21	2,883	137.3	30.0	2,398.2	79.9	2.0	104.4	52.2	53.0	5,386.0	101.6
G-R	G-R - General Recreation	0	0	0.0	1.0	140.6	140.6	0.0	0.0	0.0	1	141	140.6
M-1	M-1 - Light Industrial District	24	167	7.0	21.0	57.6	2.7	0.0	0.0	0.0	45	225	5.0
M-1-H:25	M-1 - Light Industrial District	9	32	3.6	0.0	0.0	0.0	0.0	0.0	0.0	9	32	3.6
M-1-S	M-1 - Light Industrial District	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
M-1-S-P	M-1 - Light Industrial District	25	145	5.8	19.0	20.6	1.1	0.0	0.0	0.0	44	165	3.8
M-2	M-2 - General Industrial District	57	296	5.2	81.0	2,379.8	29.4	0.0	0.0	0.0	138	2,676	19.4
M-2-S-P	M-2 - General Industrial District	0	0	0.0	8.0	18.7	2.3	0.0	0.0	0.0	8	19	2.3
NOMLKI	NOMLKI - Nomlaki Tribe	46	2,226	48.4	0.0	0.0	0.0	0.0	0.0	0.0	46.0	2,226.0	48.4
NR	NR - Natural Resource	6	40	6.7	28.0	164.4	5.9	1.0	24.7	24.7	35.0	229.1	6.5
PA	PA - Public Agency	16	123	7.7	29.0	249.5	8.6	9.0	66.1	7.3	54	438	8.1
PD	PD - Planned Development	19	101	5.3	61.0	1,002.8	16.4	10.0	38.0	3.8	90	1,141	12.7
PF	PF - Floodplain	42	2,441	58.1	116.0	2,071.2	17.9	43.0	867.6	20.2	201.0	5,379.7	26.8
<b>Residential Parcels</b>													
R-1	R-1 - One Family Residential District	67	294	4.4	547.0	593.8	1.1	0.0	0.0	0.0	614	888	1.4
R1-A-B:10	R-1 - One Family Residential District	0	0	0.0	1.0	2.1	2.1	0.0	0.0	0.0	1	2	2.1
R1-A-B:108	R-1 - One Family Residential District	0	0	0.0	25.0	210.5	8.4	0.0	0.0	0.0	25	210	8.4
R1-A-B:129	R-1 - One Family Residential District	0	0	0.0	4.0	498.7	124.7	0.0	0.0	0.0	4	499	124.7
R1-A-B:130	R-1 - One Family Residential District	0	0	0.0	41.0	109.7	2.7	0.0	0.0	0.0	41	110	2.7
R1-A-B:200	R-1 - One Family Residential District	0	0	0.0	2.0	63.3	31.7	0.0	0.0	0.0	2	63	31.7
R1-A-B:217	R-1 - One Family Residential District	0	0	0.0	615.0	2,385.2	3.9	0.0	0.0	0.0	615	2,385	3.9
R1-A-B:43	R-1 - One Family Residential District	0	0	0.0	76.0	306.2	4.0	0.0	0.0	0.0	76	306	4.0
R1-A-B:435	R-1 - One Family Residential District	103	700	6.8	441.0	10,228.8	23.2	0.0	0.0	0.0	544	10,929	20.1
R1-A-B:86	R-1 - One Family Residential District	386	2,949	7.6	725.0	6,012.7	8.3	0.0	0.0	0.0	1,111	8,962	8.1
R1-A-BZ	R-1 - One Family Residential District	0	0	0.0	84.0	488.1	5.8	9.0	11.2	1.2	93	499	5.4
R1-A-MH-B:200	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
R1-A-MH-B:217	R-1 - One Family Residential District	0	0	0.0	373.0	2,220.6	6.0	0.0	0.0	0.0	373	2,221	6.0
R1-A-MH-B:43	R-1 - One Family Residential District	0	0	0.0	12.0	111.3	9.3	0.0	0.0	0.0	12	111	9.3
R1-A-MH-B:430	R-1 - One Family Residential District	0	0	0.0	4.0	42.1	10.5	0.0	0.0	0.0	4	42	10.5
R1-A-MH-B:435	R-1 - One Family Residential District	0	0	0.0	239.0	3,350.7	14.0	0.0	0.0	0.0	239	3,351	14.0
R1-A-MH-B:86	R-1 - One Family Residential District	233	1,598	6.9	80.0	638.8	8.0	246.0	832.3	3.4	559	3,069	5.5
R1-A-MH-BZ	R-1 - One Family Residential District	0	0	0.0	10.0	32.8	3.3	12.0	11.5	1.0	22	44	2.0
R1-B:10	R-1 - One Family Residential District	0	0	0.0	1.0	26.2	26.2	0.0	0.0	0.0	1	26	26.2
R1-B:129	R-1 - One Family Residential District	0	0	0.0	34.0	138.0	4.1	0.0	0.0	0.0	34	138	4.1
R1-B:130	R-1 - One Family Residential District	0	0	0.0	2.0	321.4	160.7	0.0	0.0	0.0	2	321	160.7
R1-B:43	R-1 - One Family Residential District	0	0	0.0	5.0	11.9	2.4	0.0	0.0	0.0	5	12	2.4
R1-B:86	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
R1-BZ	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	4.0	2.8	0.7	4	3	0.7
R1-MH	R-1 - One Family Residential District	0	0	0.0	62.0	30.9	0.5	327.0	125.8	0.4	389	157	0.4
R1-MH-B:86	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
R1-MH-BZ	R-1 - One Family Residential District	1	20	19.9	0.0	0.0	0.0	0.0	0.0	0.0	1	20	19.9
R-2	R-2 - Two Family Residential District	0	0	0.0	11.0	12.0	1.1	0.0	0.0	0.0	11	12	1.1
R-2-MH	R-2 - Two Family Residential District	0	0	0.0	0.0	0.0	0.0	2.0	2.3	1.2	2	2	1.2
R-3	R-3 - Neighborhood Apartment District	0	0	0.0	4.0	2.4	0.6	0.0	0.0	0.0	4	2	0.6
R-4	R-4 - General Apartment District	0	0	0.0	4.0	35.8	9.0	1.0	13.8	13.8	5	50	9.9
RE	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
RE-A-B:43	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
RE-A-MH-B:10	RE - Very Low Density Residential	0	0	0.0	69.0	152.1	2.2	0.0	0.0	0.0	69	152	2.2
RE-A-MH-B:435	RE - Very Low Density Residential	0	0	0.0	7.0	35.8	5.1	0.0	0.0	0.0	7	36	5.1
RE-A-MH-B:86	RE - Very Low Density Residential	6	11	1.8	0.0	0.0	0.0	0.0	0.0	0.0	6	11	1.8
RE-B:10	RE - Very Low Density Residential	196	659	3.4	657.0	1,213.7	1.8	0.0	0.0	0.0	853	1,872	2.2
RE-B:43	RE - Very Low Density Residential	0	0	0.0	108.0	108.5	1.0	0.0	0.0	0.0	108	109	1.0
RE-B:86	RE - Very Low Density Residential	0	0	0.0	139.0	90.0	0.6	0.0	0.0	0.0	139	90	0.6
RE-B:129	RE - Very Low Density Residential	0	0	0.0	47.0	149.3	3.2	0.0	0.0	0.0	47	149	3.2
RE-BZ	RE - Very Low Density Residential	0	0	0.0	2,130.0	4,250.2	2.0	23.0	30.9	1.3	2,153	4,281	2.0
RE-MH-B:10	RE - Very Low Density Residential	264	500	1.9	60.0	149.6	2.5	577.0	919.4	1.6	901	1,569	1.7
RE-MH-B:86	RE - Very Low Density Residential	0	0	0.0	27.0	45.1	1.7	0.0	0.0	0.0	27	45	1.7
RE-MH-BZ	RE - Very Low Density Residential	4	9	2.4	9.0	30.1	3.3	8.0	8.5	1.1	21	48	2.3
SCSP	SCSP - Sun City Special Plan	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
TPZ	TPZ - Timber	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Totals/Averages</b>		<b>7,119</b>	<b>150,074</b>	<b>21.1</b>	<b>15,059</b>	<b>249,223</b>	<b>16.5</b>	<b>2,343</b>	<b>81,990</b>	<b>35.0</b>	<b>24,521</b>	<b>481,286</b>	<b>19.6</b>
<b>Totals/Avg. (After Deducting Exemptions and Exclusions)</b>		<b>7,025</b>	<b>145,367</b>	<b>20.7</b>	<b>14,915</b>	<b>246,987</b>	<b>16.6</b>	<b>2,299</b>	<b>81,098</b>	<b>35.3</b>	<b>24,239</b>	<b>473,452</b>	<b>19.5</b>

1. From LSCE file: Assessor\_Roll\_GISS.  
 2. Volume in AF/year based on total acres for non-residential and total parcels for residential.  
 \* Adjustment for large "parcel" size based on R-1 average of 0.6 acres/parcel.

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## Appendix Table F-15

OVERDRAFTED SUBBASINS ONLY (Corning, Red Bluff and Los Molinos)										
Zoning Code/Description		Total OVERDRAFTED Subbasins			Avg. Water Use Factor				Estimated Annual Volume <sup>2</sup> (AF/Yr.)	Notes:
					Non-Residential (AF/Acre/Yr)	Base Use Factor	Adjustment to Factor	Use Factor (AF/Parcel)		
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel						
<b>Agricultural Parcels</b>										
AG-1	AG-1 - Agricultural, Upland District	945	191,018	202.1	3.45				659,496	Weighted Avg. LSCE Crop Type, all acres
AG-2	AG-2 - Agricultural, Valley District	4,848	203,227	41.9	3.45				701,647	Weighted Avg. LSCE Crop Type, all acres
AG-3	AG-3 - Agricultural, El Camino District	721	7,113	9.9	3.45				24,557	Weighted Avg. LSCE Crop Type, all acres
AG-4	AG-4 - Agricultural, Capay District	247	12,416	50.3	3.45				42,865	Weighted Avg. LSCE Crop Type, all acres
<b>Commercial &amp; Industrial Parcels</b>										
A-V	Airport	1	35	34.6	1.82				63	Avg. LSCE Commercial, Red Bluff/Corning
C-1	C-1 - Neighborhood Commercial	60	49	0.8	1.82				89	Avg. LSCE Commercial, Red Bluff/Corning
C-1-B:10	C-1 - Neighborhood Commercial	0	0	0.0	1.82				0	Avg. LSCE Commercial, Red Bluff/Corning
C-2-S-P	C-2 - Community Commercial	92	54	0.6	1.82				98	Avg. LSCE Commercial, Red Bluff/Corning
C-3	(no definition)	0	0	0.0	1.82				0	Avg. LSCE Commercial, Red Bluff/Corning
C-3-S	(no definition)	0	0	0.0	1.82				0	Avg. LSCE Commercial, Red Bluff/Corning
C-3-S-P	(no definition)	149	445	3.0	1.82				810	Avg. LSCE Commercial, Red Bluff/Corning
C-3-S-P-H:30	(no definition)	22	82	3.7	1.82				149	Avg. LSCE Commercial, Red Bluff/Corning
CITY	City	7,588	5,993	0.8	1.82				10,908	Avg. LSCE Commercial, Red Bluff/Corning
GOV	GOV - Government	53	5,386	101.6	1.82				9,803	Avg. LSCE Commercial, Red Bluff/Corning
G-R	G-R - General Recreation	1	141	140.6	1.82				256	Avg. LSCE Commercial, Red Bluff/Corning
M-1	M-1 - Light Industrial District	45	225	5.0	1.82				409	Avg. LSCE Commercial, Red Bluff/Corning
M-1-H:25	M-1 - Light Industrial District	9	32	3.6	1.82				59	Avg. LSCE Commercial, Red Bluff/Corning
M-1-S	M-1 - Light Industrial District	0	0	0.0	1.82				0	Avg. LSCE Commercial, Red Bluff/Corning
M-1-S-P	M-1 - Light Industrial District	44	165	3.8	1.82				301	Avg. LSCE Commercial, Red Bluff/Corning
M-2	M-2 - General Industrial District	138	2,676	19.4	1.82				4,870	Avg. LSCE Commercial, Red Bluff/Corning
M-2-S-P	M-2 - General Industrial District	8	19	2.3	1.82				34	Avg. LSCE Commercial, Red Bluff/Corning
NOMLKI	NOMLKI - Nomlaki Tribe	46	2,226	48.4	1.82				4,051	Tribal lands?
NR	NR - Natural Resource	35.0	229.1	6.5	0.00		Excluded		0	Undeveloped/net 0 usage?
PA	PA - Public Agency	54	438	8.1	1.82				797	Avg. LSCE Commercial, Red Bluff/Corning
PD	PD - Planned Development	90	1,141	12.7	1.82				2,077	Avg. LSCE Commercial, Red Bluff/Corning
PF	PF - Floodplain	201.0	5,379.7	26.8	0.00		Excluded		0	Undeveloped/net 0 usage?
<b>Residential Parcels</b>										
R-1	R-1 - One Family Residential District	614	888	1.4	0.74	1.00	0.74		454	Assume LSCE average per household
R1-A-B:10	R-1 - One Family Residential District	1	2	2.1	0.74	1.25	0.925		1	Assume LSCE average per household
R1-A-B:108	R-1 - One Family Residential District	25	210	8.4	0.74	1.25	0.925		23	Assume LSCE average per household
R1-A-B:129	R-1 - One Family Residential District	4	499	124.7	0.74	1.25	0.925		4	Assume LSCE average per household
R1-A-B:130	R-1 - One Family Residential District	41	110	2.7	0.74	1.25	0.925		38	Assume LSCE average per household
R1-A-B:200	R-1 - One Family Residential District	2	63	31.7	0.74	1.25	0.925		2	Assume LSCE average per household
R1-A-B:217	R-1 - One Family Residential District	615	2,385	3.9	0.74	1.25	0.925		569	Assume LSCE average per household
R1-A-B:43	R-1 - One Family Residential District	76	306	4.0	0.74	1.25	0.925		70	Assume LSCE average per household
R1-A-B:435	R-1 - One Family Residential District	544	10,929	20.1	0.74	1.25	0.925		503	Assume LSCE average per household
R1-A-B:86	R-1 - One Family Residential District	1,111	8,962	8.1	0.74	1.25	0.925		1,028	Assume LSCE average per household
R1-A-BZ	R-1 - One Family Residential District	93	499	5.4	0.74	1.25	0.925		86	Assume LSCE average per household
R1-A-MH-B:20C	R-1 - One Family Residential District	0	0	0.0	0.74	1.25	0.925		0	Assume LSCE average per household
R1-A-MH-B:217	R-1 - One Family Residential District	373	2,221	6.0	0.74	1.25	0.925		345	Assume LSCE average per household
R1-A-MH-B:43	R-1 - One Family Residential District	12	111	9.3	0.74	1.25	0.925		11	Assume LSCE average per household
R1-A-MH-B:43C	R-1 - One Family Residential District	4	42	10.5	0.74	1.25	0.925		4	Assume LSCE average per household
R1-A-MH-B:435	R-1 - One Family Residential District	239	3,351	14.0	0.74	1.25	0.925		221	Assume LSCE average per household
R1-A-MH-B:86	R-1 - One Family Residential District	559	3,069	5.5	0.74	1.25	0.925		517	Assume LSCE average per household
R1-A-MH-BZ	R-1 - One Family Residential District	22	44	2.0	0.74	1.25	0.925		20	Assume LSCE average per household
R1-B:10	R-1 - One Family Residential District	1	26	26.2	0.74	1.00	0.74		1	Assume LSCE average per household
R1-B:129	R-1 - One Family Residential District	34	138	4.1	0.74	1.25	0.925		31	Assume LSCE average per household
R1-B:130	R-1 - One Family Residential District	2	321	160.7	0.74	1.25	0.925		2	Assume LSCE average per household
R1-B:43	R-1 - One Family Residential District	5	12	2.4	0.74	1.25	0.925		5	Assume LSCE average per household
R1-B:86	R-1 - One Family Residential District	0	0	0.0	0.74	1.25	0.925		0	Assume LSCE average per household
R1-BZ	R-1 - One Family Residential District	4	3	0.7	0.74	1.00	0.74		3	Assume LSCE average per household
R1-MH	R-1 - One Family Residential District	389	157	0.4	0.74	1.00	0.74		288	Assume LSCE average per household
R1-MH-B:86	R-1 - One Family Residential District	0	0	0.0	0.74	1.25	0.925		0	Assume LSCE average per household
R1-MH-BZ	R-1 - One Family Residential District	1	20	19.9	0.74	1.25	0.925		1	Assume LSCE average per household
R-2	R-2 - Two Family Residential District	11	12	1.1	0.74	.75 x 2	1.11		12	Assume LSCE average per household
R-2-MH	R-2 - Two Family Residential District	2	2	1.2	0.74	.75 x 2	1.11		2	Assume LSCE average per household
R-3	R-3 - Neighborhood Apartment District	4	2	0.6	0.5	2.00	1		4	Assume 2 apartment units/SFR size lot
R-4	R-4 - General Apartment District	5	50	9.9	0.5	2.00	1		5	Assume 2 apartment units/SFR size lot
RE	RE - Very Low Density Residential	0	0	0.0	0.74	1.00	0.74		0	Assume LSCE average per household
RE-A-B:43	RE - Very Low Density Residential	0	0	0.0	0.74	1.25	0.925		0	Assume LSCE average per household
RE-A-MH-B:10	RE - Very Low Density Residential	69	152	2.2	0.74	1.25	0.925		64	Assume LSCE average per household
RE-A-MH-B:435	RE - Very Low Density Residential	7	36	5.1	0.74	1.25	0.925		6	Assume LSCE average per household
RE-A-MH-B:86	RE - Very Low Density Residential	6	11	1.8	0.74	1.25	0.925		6	Assume LSCE average per household
RE-B:10	RE - Very Low Density Residential	853	1,872	2.2	0.74	1.25	0.925		789	Assume LSCE average per household
RE-B:43	RE - Very Low Density Residential	108	109	1.0	0.74	1.25	0.925		100	Assume LSCE average per household
RE-B:86	RE - Very Low Density Residential	139	90	0.6	0.74	1.00	0.74		103	Assume LSCE average per household
RE-B:129	RE - Very Low Density Residential	47	149	3.2	0.74	1.25	0.925		43	Assume LSCE average per household
RE-BZ	RE - Very Low Density Residential	2,153	4,281	2.0	0.74	1.25	0.925		1,992	Assume LSCE average per household
RE-MH-B:10	RE - Very Low Density Residential	901	1,569	1.7	0.74	1.25	0.925		833	Assume LSCE average per household
RE-MH-B:86	RE - Very Low Density Residential	27	45	1.7	0.74	1.25	0.925		25	Assume LSCE average per household
RE-MH-BZ	RE - Very Low Density Residential	21	48	2.3	0.74	1.25	0.925		19	Assume LSCE average per household
SCSP	SCSP - Sun City Special Plan	0	0	0.0	0.74	500.0*	370		0	Replace with actual data on resid. Units
TPZ	TPZ - Timber	0.0	0.0	0.0	0.00		Excluded		0	Undeveloped/net 0 usage?
Totals or Average		24,521	481,286	19.6					1,471,569	
Totals/Avg. (After Deducting Exemptions and Exclusions)		24,239	475,678	19.6					1,467,518	

.. From LSCE file: Assessor\_Roll\_GISS.  
<sup>1</sup> Volume in AF/year based on total acres for non-residential and total parcels for residential.  
<sup>2</sup> Adjustment for large "parcel" size based on R-1 average of 0.6 acres/parcel.

**Appendix Tables F-16 through F-19 – Acres and Estimated Water Use for All Five Managed Subbasins**

Tables F-16 and 17 present the number of acres and parcels for each of the zoning codes of the five managed subbasins. Tables F-18 and 19 present the estimated water use calculated based on the acres for each zoning type and the LSCE water use factors for each zoning type. Notes to the right of Tables F-18 and 19 show the assumptions for the water use factors.

**Appendix Table F-16**

ALL MANAGED SUBBASINS (Antelope, Bowman, Corning, Red Bluff, Los Molinos)																			
Zoning Code/Description		ANTELOPE Subbasin			BOWMAN Subbasin			CORNING Subbasin			RED BLUFF Subbasin			LOS MOLINOS Subbasin			Total Managed Subbasins		
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel
<i>Agricultural Parcels</i>																			
AG-1	AG-1 - Agricultural	5	304	60.9	232	44,382	191.3	167	34,482	206.5	542	107,595	198.5	236	48,941	207.4	1,182	235,705	199.4
AG-2	AG-2 - Agricultural	605	10,816	17.9	454.0	26,770.9	59.0	2,586	85,985	33.3	1,532.0	87,344.0	57.0	730.0	29,898.0	41.0	5,907	240,814	40.8
AG-3	AG-3 - Agricultural, El Camino District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	721.0	7,112.6	9.9	0.0	0.0	0.0	721	7,113	9.9
AG-4	AG-4 - Agricultural, Capay District	0	0	0.0	0.0	0.0	0.0	247	12,416	50.3	0.0	0.0	0.0	0.0	0.0	0.0	247	12,416	50.3
<i>Commercial &amp; Industrial Parcels</i>																			
A-V	Airport	0	0	0.0	5.0	40.6	8.1	0	0	0.0	1.0	34.6	34.6	0.0	0.0	0.0	6	75	12.5
C-1	C-1 - Neighborhood Commercial	13	5	0.4	22.0	19.0	0.9	0	0	0.0	46.0	44.0	1.0	14.0	5.0	0.4	95	73	0.8
C-1-B:10	C-1 - Neighborhood Commercial	0	0	0.0	7.0	2.1	0.3	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7	2	0.3
C-2-S-P	C-2 - Community Commercial	40	29	0.7	5.0	2.3	0.5	8	24	3.1	84.0	29.5	0.4	0.0	0.0	0.0	137	85	0.6
C-3	(no definition)	0	0	0.0	1.0	23.4	23.4	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	23	23.4
C-3-S	(no definition)	5	5	0.9	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	5	0.9
C-3-S-P	(no definition)	34	42	1.2	1.0	31.8	31.8	8	99	12.4	52.0	259.1	5.0	89.0	86.9	1.0	184	519	2.8
C-3-S-P-H:30	(no definition)	0	0	0.0	0.0	0.0	0.0	0	0	0.0	22.0	81.9	3.7	0.0	0.0	0.0	22	82	3.7
CITY	City	397	233	0.6	0.0	0.0	0.0	2,578	1,874	0.7	5,010.0	4,119.6	0.8	0.0	0.0	0.0	7,985	6,227	0.8
GOV	GOV - Government	2	280	140.1	4.0	129.9	32.5	21	2,883	137.3	30.0	2,398.2	79.9	2.0	104.4	52.2	59.0	5,796.1	98.2
G-R	G-R - General Recreation	0	0	0.0	3.0	2.6	0.9	0	0	0.0	1.0	140.6	140.6	0.0	0.0	0.0	4	143	35.8
M-1	M-1 - Light Industrial District	0	0	0.0	0.0	0.0	0.0	24	167	7.0	21.0	57.6	2.7	0.0	0.0	0.0	45	225	5.0
M-1-H:25	M-1 - Light Industrial District	0	0	0.0	0.0	0.0	0.0	9	32	3.6	0.0	0.0	0.0	0.0	0.0	0.0	9	32	3.6
M-1-S	M-1 - Light Industrial District	19	48	2.6	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	48	2.6
M-1-S-P	M-1 - Light Industrial District	0	0	0.0	0.0	0.0	0.0	25	145	5.8	19.0	20.6	1.1	0.0	0.0	0.0	44	165	3.8
M-2	M-2 - General Industrial District	0	0	0.0	0.0	0.0	0.0	57	296	5.2	81.0	2,379.8	29.4	0.0	0.0	0.0	138	2,676	19.4
M-2-S-P	M-2 - General Industrial District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	8.0	18.7	2.3	0.0	0.0	0.0	8	19	2.3
NOMLKI	NOMLKI - Nomlaki Tribe	0	0	0.0	0.0	0.0	0.0	46	2,226	48.4	0.0	0.0	0.0	0.0	0.0	0.0	46.0	2,226.0	48.4
NR	NR - Natural Resource	0	0	0.0	91.0	3,223.8	35.4	6	40	6.7	28.0	164.4	5.9	1.0	24.7	24.7	126.0	3,452.9	27.4
PA	PA - Public Agency	9	103	11.4	9.0	66.1	7.3	16	123	7.7	29.0	249.5	8.6	9.0	66.1	7.3	72	607	8.4
PD	PD - Planned Development	31	20	0.6	54.0	1,714.9	31.8	19	101	5.3	61.0	1,002.8	16.4	10.0	38.0	3.8	175	2,876	16.4
PF	PF - Floodplain	52	249	4.8	12.0	191.8	16.0	42	2,441	58.1	116.0	2,071.2	17.9	43.0	867.6	20.2	265.0	5,820.9	22.0

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## Appendix Table F-17

ALL MANAGED SUBBASINS (Antelope, Bowman, Corning, Red Bluff, Los Molinos)																			
Zoning Code/Description		ANTELOPE Subbasin			BOWMAN Subbasin			CORNING Subbasin			RED BLUFF Subbasin			LOS MOLINOS Subbasin			Total Managed Subbasins		
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel
<i>Residential Parcels</i>																			
R-1	R-1 - One Family Residential District	62	25	0.4	1,761.0	506.9	0.3	67	294	4.4	547.0	593.8	1.1	0.0	0.0	0.0	2,437	1,420	0.6
R1-A-B:10	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	1.0	2.1	2.1	0.0	0.0	0.0	1	2	2.1
R1-A-B:108	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	25.0	210.5	8.4	0.0	0.0	0.0	25	210	8.4
R1-A-B:129	R-1 - One Family Residential District	1	1	0.9	6.0	228.0	38.0	0	0	0.0	4.0	498.7	124.7	0.0	0.0	0.0	11	728	66.1
R1-A-B:130	R-1 - One Family Residential District	27	100	3.7	0.0	0.0	0.0	0	0	0.0	41.0	109.7	2.7	0.0	0.0	0.0	68	210	3.1
R1-A-B:200	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	2.0	63.3	31.7	0.0	0.0	0.0	2	63	31.7
R1-A-B:217	R-1 - One Family Residential District	37	335	9.0	245.0	3,292.9	13.4	0	0	0.0	615.0	2,385.2	3.9	0.0	0.0	0.0	897	6,013	6.7
R1-A-B:43	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	76.0	306.2	4.0	0.0	0.0	0.0	76	306	4.0
R1-A-B:435	R-1 - One Family Residential District	1	1	0.8	144.0	2,006.4	13.9	103	700	6.8	441.0	10,228.8	23.2	0.0	0.0	0.0	689	12,936	18.8
R1-A-B:86	R-1 - One Family Residential District	217	748	3.4	362.0	2,636.6	7.3	386	2,949	7.6	725.0	6,012.7	8.3	0.0	0.0	0.0	1,690	12,346	7.3
R1-A-BZ	R-1 - One Family Residential District	37	124	3.3	117.0	712.9	6.1	0	0	0.0	84.0	488.1	5.8	9.0	11.2	1.2	247	1,336	5.4
R1-A-MH-B:20C	R-1 - One Family Residential District	0	0	0.0	4.0	21.1	5.3	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	21	5.3
R1-A-MH-B:217	R-1 - One Family Residential District	0	0	0.0	53.0	303.5	5.7	0	0	0.0	373.0	2,220.6	6.0	0.0	0.0	0.0	426	2,524	5.9
R1-A-MH-B:43	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	12.0	111.3	9.3	0.0	0.0	0.0	12	111	9.3
R1-A-MH-B:43CR-1	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	4.0	42.1	10.5	0.0	0.0	0.0	4	42	10.5
R1-A-MH-B:435R-1	R-1 - One Family Residential District	0	0	0.0	687.0	7,258.7	10.6	0	0	0.0	239.0	3,350.7	14.0	0.0	0.0	0.0	926	10,609	11.5
R1-A-MH-B:86	R-1 - One Family Residential District	50	40	0.8	810.0	3,275.1	4.0	233	1,598	6.9	80.0	638.8	8.0	246.0	832.3	3.4	1,419	6,384	4.5
R1-A-MH-BZ	R-1 - One Family Residential District	2	2	1.1	5.0	35.6	7.1	0	0	0.0	10.0	32.8	3.3	12.0	11.5	1.0	29	82	2.8
R1-B:10	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	1.0	26.2	26.2	0.0	0.0	0.0	1	26	26.2
R1-B:129	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	34.0	138.0	4.1	0.0	0.0	0.0	34	138	4.1
R1-B:130	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	2.0	321.4	160.7	0.0	0.0	0.0	2	321	160.7
R1-B:43	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	5.0	11.9	2.4	0.0	0.0	0.0	5	12	2.4
R1-B:86	R-1 - One Family Residential District	0	0	0.0	4.0	12.8	3.2	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4	13	3.2
R1-BZ	R-1 - One Family Residential District	0	0	0.0	384.0	113.9	0.3	0	0	0.0	0.0	0.0	0.0	4.0	2.8	0.7	388	117	0.3
R1-MH	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	62.0	30.9	0.5	327.0	125.8	0.4	389	157	0.4
R1-MH-B:86	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
R1-MH-BZ	R-1 - One Family Residential District	0	0	0.0	0.0	0.0	0.0	1	20	19.9	0.0	0.0	0.0	0.0	0.0	0.0	1	20	19.9
R-2	R-2 - Two Family Residential District	0	0	0.0	173.0	53.9	0.3	0	0	0.0	11.0	12.0	1.1	0.0	0.0	0.0	184	66	0.4
R-2-MH	R-2 - Two Family Residential District	0	0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	2.0	2.3	1.2	2	2	1.2
R-3	R-3 - Neighborhood Apartment District	93	29	0.3	1.0	0.2	0.2	0	0	0.0	4.0	2.4	0.6	0.0	0.0	0.0	98	32	0.3
R-4	R-4 - General Apartment District	1	0	0.3	1.0	4.6	4.6	0	0	0.0	4.0	35.8	9.0	1.0	13.8	13.8	7	55	7.8
RE	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0
RE-A-B:43	RE - Very Low Density Residential	56	556	9.9	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56	556	9.9
RE-A-MH-B:10	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0	0	0.0	69.0	152.1	2.2	0.0	0.0	0.0	69	152	2.2
RE-A-MH-B:435	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0	0	0.0	7.0	35.8	5.1	0.0	0.0	0.0	7	36	5.1
RE-A-MH-B:86	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	6	11	1.8	0.0	0.0	0.0	0.0	0.0	0.0	6	11	1.8
RE-B:10	RE - Very Low Density Residential	998	755	0.8	0.0	0.0	0.0	196	659	3.4	657.0	1,213.7	1.8	0.0	0.0	0.0	1,851	2,628	1.4
RE-B:43	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0	0	0.0	108.0	108.5	1.0	0.0	0.0	0.0	108	109	1.0
RE-B:86	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0	0	0.0	139.0	90.0	0.6	0.0	0.0	0.0	139	90	0.6
RE-B:129	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0	0	0.0	47.0	149.3	3.2	0.0	0.0	0.0	47	149	3.2
RE-BZ	RE - Very Low Density Residential	8	17	2.2	0.0	0.0	0.0	0	0	0.0	2,130.0	4,250.2	2.0	23.0	30.9	1.3	2,161	4,298	2.0
RE-MH-B:10	RE - Very Low Density Residential	276	248	0.9	0.0	0.0	0.0	264	500	1.9	60.0	149.6	2.5	577.0	919.4	1.6	1,177	1,817	1.5
RE-MH-B:86	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	0	0	0.0	27.0	45.1	1.7	0.0	0.0	0.0	27	45	1.7
RE-MH-BZ	RE - Very Low Density Residential	0	0	0.0	0.0	0.0	0.0	4	9	2.4	9.0	30.1	3.3	8.0	8.5	1.1	21	48	2.3
SCSP	SCSP - Sun City Special Plan	0	0	0.0	10.0	3,186.5	318.7	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	3,187	318.7
TPZ	TPZ - Timber	0	0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Totals or Averages		3,078	15,117	4.9	5,667	100,251	17.7	7,119	150,074	21.1	15,059	249,223	16.5	2,343	81,990	35.0	33,266	596,654	17.9
Totals/Avg. (After Deducting Exemptions and Exclusions)		3,026	14,868	4.9	5,564	96,835	17.4	7,025	145,367	20.7	14,915	246,987	16.6	2,299	81,098	35.3	32,829	585,154	17.8

1. From LSCE file: Assessor\_Roll\_GIS.  
 2. Volume in AF/year based on total acres for non-residential and total parcels for residential.  
 \* Adjustment for large "parcel" size based on R-1 average of 0.6 acres/parcel.

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Appendix Table F-18

ALL MANAGED SUBBASINS (Antelope, Bowman, Corning, Red Bluff, Los Molinos)											
Zoning Code/Description		Total MANAGED Subbasins			Avg. Water Use Factor				Estimated Annual Volume <sup>2</sup> (AF/Yr.)	Notes:	
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	Non-Residential (AF/Acre/Yr)	Residential (AF/Parcel/Yr)	Base Use Factor	Adjustment to Factor			Use Factor (AF/Parcel)
<b>Agricultural Parcels</b>											
AG-1	AG-1 - Agricultural, Upland District	1,182	235,705	199.4	3.45					813,777	Weighted Avg. LSCE Crop Type, all acres
AG-2	AG-2 - Agricultural, Valley District	5,907	240,814	40.8	3.45					831,416	Weighted Avg. LSCE Crop Type, all acres
AG-3	AG-3 - Agricultural, El Camino District	721	7,113	9.9	3.45					24,557	Weighted Avg. LSCE Crop Type, all acres
AG-4	AG-4 - Agricultural, Capay District	247	12,416	50.3	3.45					42,865	Weighted Avg. LSCE Crop Type, all acres
<b>Commercial &amp; Industrial Parcels</b>											
A-V	Airport	6	75	12.5	1.82					137	Avg, LSCE Commercial, Red Bluff/Corning
C-1	C-1 - Neighborhood Commercial	95	73	0.8	1.82					132	Avg, LSCE Commercial, Red Bluff/Corning
C-1-B:10	C-1 - Neighborhood Commercial	7	2	0.3	1.82					4	Avg, LSCE Commercial, Red Bluff/Corning
C-2-S-P	C-2 - Community Commercial	137	85	0.6	1.82					154	Avg, LSCE Commercial, Red Bluff/Corning
C-3	(no definition)	1	23	23.4	1.82					43	Avg, LSCE Commercial, Red Bluff/Corning
C-3-S	(no definition)	5	5	0.9	1.82					8	Avg, LSCE Commercial, Red Bluff/Corning
C-3-S-P	(no definition)	184	519	2.8	1.82					945	Avg, LSCE Commercial, Red Bluff/Corning
C-3-S-P-H:30	(no definition)	22	82	3.7	1.82					149	Avg, LSCE Commercial, Red Bluff/Corning
CITY	City	7,985	6,227	0.8	1.82					11,333	Avg, LSCE Commercial, Red Bluff/Corning
GOV	GOV - Government	59.0	5,796.1	98.2	1.82					10,549	Avg, LSCE Commercial, Red Bluff/Corning
G-R	G-R - General Recreation	4	143	35.8	1.82					261	Avg, LSCE Commercial, Red Bluff/Corning
M-1	M-1 - Light Industrial District	45	225	5.0	1.82					409	Avg, LSCE Commercial, Red Bluff/Corning
M-1-H:25	M-1 - Light Industrial District	9	32	3.6	1.82					59	Avg, LSCE Commercial, Red Bluff/Corning
M-1-S	M-1 - Light Industrial District	19	48	2.6	1.82					88	Avg, LSCE Commercial, Red Bluff/Corning
M-1-S-P	M-1 - Light Industrial District	44	165	3.8	1.82					301	Avg, LSCE Commercial, Red Bluff/Corning
M-2	M-2 - General Industrial District	138	2,676	19.4	1.82					4,870	Avg, LSCE Commercial, Red Bluff/Corning
M-2-S-P	M-2 - General Industrial District	8	19	2.3	1.82					34	Avg, LSCE Commercial, Red Bluff/Corning
NOMLKI	NOMLKI - Nomlaki Tribe	46.0	2,226.0	48.4	1.82					4,051	Tribal lands?
NR	NR - Natural Resource	126.0	3,452.9	27.4	0.00			Excluded		0	
PA	PA - Public Agency	72	607	8.4	1.82					1,104	Avg, LSCE Commercial, Red Bluff/Corning
PD	PD - Planned Development	175	2,876	16.4	1.82					5,235	Avg, LSCE Commercial, Red Bluff/Corning
PF	PF - Floodplain	265.0	5,820.9	22.0	0.00			Excluded		0	

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## Appendix Table F-19

ALL MANAGED SUBBASINS (Antelope, Bowman, Corning, Red Bluff, Los Molinos)										
Zoning Code/Description		Total MANAGED Subbasins			Avg. Water Use Factor			Estimated Annual Volume <sup>2</sup> (AF/Yr.)	Notes:	
Code	Description	APN Parcels <sup>1</sup>	LSCÉ Acres	Average Ac/Parcel	Non-Residential (AF/Acre/Yr)	Residential (AF/Parcel/Yr)				
						Base Use Factor	Adjustment to Factor	Use Factor (AF/Parcel)		
<i>Residential Parcels</i>										
R-1	R-1 - One Family Residential District	2,437	1,420	0.6		0.74	1.00	0.74	1,803	Assume LSCÉ average per household
R1-A-B:10	R-1 - One Family Residential District	1	2	2.1		0.74	1.25	0.925	1	Assume LSCÉ average per household
R1-A-B:108	R-1 - One Family Residential District	25	210	8.4		0.74	1.25	0.925	23	Assume LSCÉ average per household
R1-A-B:129	R-1 - One Family Residential District	11	728	66.1		0.74	1.25	0.925	10	Assume LSCÉ average per household
R1-A-B:130	R-1 - One Family Residential District	68	210	3.1		0.74	1.25	0.925	63	Assume LSCÉ average per household
R1-A-B:200	R-1 - One Family Residential District	2	63	31.7		0.74	1.25	0.925	2	Assume LSCÉ average per household
R1-A-B:217	R-1 - One Family Residential District	897	6,013	6.7		0.74	1.25	0.925	730	Assume LSCÉ average per household
R1-A-B:43	R-1 - One Family Residential District	76	306	4.0		0.74	1.25	0.925	80	Assume LSCÉ average per household
R1-A-B:435	R-1 - One Family Residential District	689	12,936	18.8		0.74	1.25	0.925	637	Assume LSCÉ average per household
R1-A-B:86	R-1 - One Family Residential District	1,690	12,346	7.3		0.74	1.25	0.925	1,563	Assume LSCÉ average per household
R1-A-BZ	R-1 - One Family Residential District	247	1,336	5.4		0.74	1.25	0.925	228	Assume LSCÉ average per household
R1-A-MH-B:20C	R-1 - One Family Residential District	4	21	5.3		0.74	1.25	0.925	4	Assume LSCÉ average per household
R1-A-MH-B:217	R-1 - One Family Residential District	426	2,524	5.9		0.74	1.25	0.925	394	Assume LSCÉ average per household
R1-A-MH-B:43	R-1 - One Family Residential District	12	111	9.3		0.74	1.25	0.925	11	Assume LSCÉ average per household
R1-A-MH-B:43C	R-1 - One Family Residential District	4	42	10.5		0.74	1.25	0.925	4	Assume LSCÉ average per household
R1-A-MH-B:435	R-1 - One Family Residential District	926	10,609	11.5		0.74	1.25	0.925	857	Assume LSCÉ average per household
R1-A-MH-B:86	R-1 - One Family Residential District	1,419	6,384	4.5		0.74	1.25	0.925	1,313	Assume LSCÉ average per household
R1-A-MH-BZ	R-1 - One Family Residential District	29	82	2.8		0.74	1.25	0.925	27	Assume LSCÉ average per household
R1-B:10	R-1 - One Family Residential District	1	26	26.2		0.74	1.00	0.74	1	Assume LSCÉ average per household
R1-B:129	R-1 - One Family Residential District	34	138	4.1		0.74	1.25	0.925	31	Assume LSCÉ average per household
R1-B:130	R-1 - One Family Residential District	2	321	160.7		0.74	1.25	0.925	2	Assume LSCÉ average per household
R1-B:43	R-1 - One Family Residential District	5	12	2.4		0.74	1.25	0.925	5	Assume LSCÉ average per household
R1-B:86	R-1 - One Family Residential District	4	13	3.2		0.74	1.25	0.925	4	Assume LSCÉ average per household
R1-BZ	R-1 - One Family Residential District	388	117	0.3		0.74	1.00	0.74	287	Assume LSCÉ average per household
R1-MH	R-1 - One Family Residential District	389	157	0.4		0.74	1.00	0.74	288	Assume LSCÉ average per household
R1-MH-B:86	R-1 - One Family Residential District	0	0	0.0		0.74	1.25	0.925	0	Assume LSCÉ average per household
R1-MH-BZ	R-1 - One Family Residential District	1	20	19.9		0.74	1.25	0.925	1	Assume LSCÉ average per household
R-2	R-2 - Two Family Residential District	184	66	0.4		0.74	.75 x 2	1.11	204	Assume LSCÉ average per household
R-2-MH	R-2 - Two Family Residential District	2	2	1.2		0.74	.75 x 2	1.11	2	Assume LSCÉ average per household
R-3	R-3 - Neighborhood Apartment District	98	32	0.3		0.5	2.00	1	98	Assume 2 apartment units/SFR size lot
R-4	R-4 - General Apartment District	7	55	7.8		0.5	2.00	1	7	Assume 2 apartment units/SFR size lot
RE	RE - Very Low Density Residential	0	0	0.0		0.74	1.00	0.74	0	Assume LSCÉ average per household
RE-A-B:43	RE - Very Low Density Residential	56	556	9.9		0.74	1.25	0.925	52	Assume LSCÉ average per household
RE-A-MH-B:10	RE - Very Low Density Residential	69	152	2.2		0.74	1.25	0.925	64	Assume LSCÉ average per household
RE-A-MH-B:435	RE - Very Low Density Residential	7	36	5.1		0.74	1.25	0.925	6	Assume LSCÉ average per household
RE-A-MH-B:86	RE - Very Low Density Residential	6	11	1.8		0.74	1.25	0.925	6	Assume LSCÉ average per household
RE-B:10	RE - Very Low Density Residential	1,851	2,628	1.4		0.74	1.25	0.925	1,712	Assume LSCÉ average per household
RE-B:43	RE - Very Low Density Residential	108	109	1.0		0.74	1.25	0.925	100	Assume LSCÉ average per household
RE-B:86	RE - Very Low Density Residential	139	90	0.6		0.74	1.00	0.74	103	Assume LSCÉ average per household
RE-B:129	RE - Very Low Density Residential	47	149	3.2		0.74	1.25	0.925	43	Assume LSCÉ average per household
RE-BZ	RE - Very Low Density Residential	2,161	4,298	2.0		0.74	1.25	0.925	1,999	Assume LSCÉ average per household
RE-MH-B:10	RE - Very Low Density Residential	1,177	1,817	1.5		0.74	1.25	0.925	1,089	Assume LSCÉ average per household
RE-MH-B:86	RE - Very Low Density Residential	27	45	1.7		0.74	1.25	0.925	25	Assume LSCÉ average per household
RE-MH-BZ	RE - Very Low Density Residential	21	48	2.3		0.74	1.25	0.925	19	Assume LSCÉ average per household
SCSP	SCSP - Sun City Special Plan	10	3,187	318.7		0.74	500.0*	370	3,700	Replace with actual data on resid. Units
TPZ	TPZ - Timber (no definition)	0.0	0.0	0.0	0.00	Excluded			0	
Totals or Average		33,266	596,654	17.9					1,770,169	
Totals/Avg. (After Deducting Exemptions and Exclusions)		32,829	585,154	17.8					1,755,569	

1. From LSCÉ file: Assessor\_Roll\_GIS5.

2. Volume in AF/year based on total acres for non-residential and total parcels for residential.

\* Adjustment for large "parcel" size based on R-1 average of 0.6 acres/parcel.

**Appendix Tables F-20 and F-21 – Acres and Estimated Water Use for Parcels Countywide**

Tables F-20 and 21 present the same acreage and parcel data for zoning codes on a countywide basis. The estimated water use calculated based on the acres for each zoning type and the LSCE water use factors for each zoning type for agricultural and commercial/industrial parcels are presented in Table F-20. The same data for residential parcels is presented in Table F-21. Notes to the right of both these tables show the assumptions for the water use factors.

**Appendix Table F-20**

Zoning Code/Description		ALL PARCELS - COUNTYWIDE			Avg. Water Use Factor			Estimated Annual Volume <sup>2</sup> (AF/Yr.)	Notes:	
		APN Data (LSCE)			Residential (AF/Parcel/Yr)					
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	Non-Residential (AF/Acre/Yr)	Base Use Factor	Adjustment to Factor	Use Factor (AF/Parcel)		
<i>Agricultural Parcels</i>										
AG-1	AG-1 - Agricultural, Upland District	3,540	692,705	195.7	3.45				2,391,583	Weighted Avg. LSCE Crop Type, all acres
AG-2	AG-2 - Agricultural, Valley District	6,047	246,117	40.7	3.45				849,724	Weighted Avg. LSCE Crop Type, all acres
AG-3	AG-3 - Agricultural, El Camino District	721	7,113	9.9	3.45				24,557	Weighted Avg. LSCE Crop Type, all acres
AG-4	AG-4 - Agricultural, Capay District	250	12,429	49.7	3.45				42,912	Weighted Avg. LSCE Crop Type, all acres
<i>Commercial &amp; Industrial Parcels</i>										
A-V	Airport	6	75	12.5	1.82				137	Avg. LSCE Commercial, Red Bluff/Corning
C-1	C-1 - Neighborhood Commercial	112	115	1.0	1.82				210	Avg. LSCE Commercial, Red Bluff/Corning
C-1-B:10	C-1 - Neighborhood Commercial	7	2	0.3	1.82				4	Avg. LSCE Commercial, Red Bluff/Corning
C-2-S-P	C-2 - Community Commercial	138	86	0.6	1.82				156	Avg. LSCE Commercial, Red Bluff/Corning
C-3	(no definition)	1	23	23.4	1.82				43	Avg. LSCE Commercial, Red Bluff/Corning
C-3-S	(no definition)	5	5	0.9	1.82				8	Avg. LSCE Commercial, Red Bluff/Corning
C-3-S-P	(no definition)	184	519	2.8	1.82				945	Avg. LSCE Commercial, Red Bluff/Corning
C-3-S-P-H:30	(no definition)	22	82	3.7	1.82				149	Avg. LSCE Commercial, Red Bluff/Corning
CITY	City	7,985	6,227	0.8	1.82				11,333	Avg. LSCE Commercial, Red Bluff/Corning
GOV	GOV - Government	1,359	491,146	361.4	1.82				893,886	Avg. LSCE Commercial, Red Bluff/Corning
G-R	G-R - General Recreation	8	241	30.1	1.82				439	Avg. LSCE Commercial, Red Bluff/Corning
M-1	M-1 - Light Industrial District	45	225	5.0	1.82				409	Avg. LSCE Commercial, Red Bluff/Corning
M-1-H:25	M-1 - Light Industrial District	9	32	3.6	1.82				59	Avg. LSCE Commercial, Red Bluff/Corning
M-1-S	M-1 - Light Industrial District	19	48	2.6	1.82				88	Avg. LSCE Commercial, Red Bluff/Corning
M-1-S-P	M-1 - Light Industrial District	44	165	3.8	1.82				301	Avg. LSCE Commercial, Red Bluff/Corning
M-2	M-2 - General Industrial District	139	2,709	19.5	1.82				4,930	Avg. LSCE Commercial, Red Bluff/Corning
M-2-S-P	M-2 - General Industrial District	8	19	2.3	1.82				34	Avg. LSCE Commercial, Red Bluff/Corning
NOMLKI	NOMLKI - Nomlaki Tribe	46	2,226	48.4	1.82				4,051	Tribal lands - but needs to be included.
NR	NR - Natural Resource	389	16,336	42.0	0.00		Excluded		0	Undeveloped/net 0 usage?
PA	PA - Public Agency	91	680	7.5	1.82				1,238	Avg. LSCE Commercial, Red Bluff/Corning
PD	PD - Planned Development	183	2,954	16.1	1.82				5,376	Avg. LSCE Commercial, Red Bluff/Corning
PF	PF - Floodplain	328	6,030	18.4	0.00		Excluded		0	Undeveloped/net 0 usage?

# 2026 Tehama GSA Fee Report

## Appendix Table F-21

ALL PARCELS - COUNTYWIDE										Notes:
Zoning Code/Description		APN Data (LSCE)			Avg. Water Use Factor				Estimated	
Code	Description	APN Parcels <sup>1</sup>	LSCE Acres	Average Ac/Parcel	Non- Residential (AF/Acre/Yr)	Residential (AF/Parcel/Yr)			Annual Volume <sup>2</sup> (AF/Yr.)	
						Base Use Factor	Adjustment to Factor	Use Factor (AF/Parcel)		
<i>Residential Parcels</i>										
R-1	R-1 - One Family Residential District	2,437	1,420	0.6		0.74	1.00	0.74	1,803	Assume LSCE average per household
R1-A-B:10	R-1 - One Family Residential District	1	2	2.1		0.74	1.25	0.925	1	Assume LSCE average per household
R1-A-B:108	R-1 - One Family Residential District	25	210	8.4		0.74	1.25	0.925	23	Assume LSCE average per household
R1-A-B:129	R-1 - One Family Residential District	11	728	66.1		0.74	1.25	0.925	10	Assume LSCE average per household
R1-A-B:130	R-1 - One Family Residential District	68	210	3.1		0.74	1.25	0.925	63	Assume LSCE average per household
R1-A-B:200	R-1 - One Family Residential District	2	63	31.7		0.74	1.25	0.925	2	Assume LSCE average per household
R1-A-B:217	R-1 - One Family Residential District	897	6,013	6.7		0.74	1.25	0.925	830	Assume LSCE average per household
R1-A-B:43	R-1 - One Family Residential District	76	306	4.0		0.74	1.25	0.925	70	Assume LSCE average per household
R1-A-B:435	R-1 - One Family Residential District	690	13,006	18.8		0.74	1.25	0.925	638	Assume LSCE average per household
R1-A-B:86	R-1 - One Family Residential District	1,731	12,411	7.2		0.74	1.25	0.925	1,601	Assume LSCE average per household
R1-A-BZ	R-1 - One Family Residential District	274	1,364	5.0		0.74	1.25	0.925	253	Assume LSCE average per household
R1-A-MH-B:200	R-1 - One Family Residential District	153	560	3.7		0.74	1.25	0.925	142	Assume LSCE average per household
R1-A-MH-B:217	R-1 - One Family Residential District	426	2,524	5.9		0.74	1.25	0.925	394	Assume LSCE average per household
R1-A-MH-B:43	R-1 - One Family Residential District	12	111	9.3		0.74	1.25	0.925	11	Assume LSCE average per household
R1-A-MH-B:430	R-1 - One Family Residential District	4	42	10.5		0.74	1.25	0.925	4	Assume LSCE average per household
R1-A-MH-B:435	R-1 - One Family Residential District	1,012	12,060	11.9		0.74	1.25	0.925	936	Assume LSCE average per household
R1-A-MH-B:86	R-1 - One Family Residential District	1,675	7,358	4.4		0.74	1.25	0.925	1,549	Assume LSCE average per household
R1-A-MH-BZ	R-1 - One Family Residential District	31	98	3.2		0.74	1.25	0.925	29	Assume LSCE average per household
R1-B:10	R-1 - One Family Residential District	380	257	0.7		0.74	1.00	0.74	281	Assume LSCE average per household
R1-B:129	R-1 - One Family Residential District	34	138	4.1		0.74	1.25	0.925	31	Assume LSCE average per household
R1-B:130	R-1 - One Family Residential District	2	321	160.7		0.74	1.25	0.925	2	Assume LSCE average per household
R1-B:43	R-1 - One Family Residential District	5	12	2.4		0.74	1.25	0.925	5	Assume LSCE average per household
R1-B:86	R-1 - One Family Residential District	16	99	6.2		0.74	1.25	0.925	15	Assume LSCE average per household
R1-BZ	R-1 - One Family Residential District	388	117	0.3		0.74	1.00	0.74	287	Assume LSCE average per household
R1-MH	R-1 - One Family Residential District	389	157	0.4		0.74	1.00	0.74	288	Assume LSCE average per household
R1-MH-B:86	R-1 - One Family Residential District	58	140	2.4		0.74	1.25	0.925	54	Assume LSCE average per household
R1-MH-BZ	R-1 - One Family Residential District	1	20	19.9		0.74	1.25	0.925	1	Assume LSCE average per household
R-2	R-2 - Two Family Residential District	184	66	0.4		0.74	.75 x 2	1.11	204	Assume LSCE average per household
R-2-MH	R-2 - Two Family Residential District	2	2	1.2		0.74	.75 x 2	1.11	2	Assume LSCE average per household
R-3	R-3 - Neighborhood Apartment District	98	32	0.3		0.5	2.00	1	98	Assume 2 apartment units/SFR size lot
R-4	R-4 - General Apartment District	7	55	7.8		0.5	2.00	1	7	Assume 2 apartment units/SFR size lot
RE	RE - Very Low Density Residential	120	66	0.6		0.74	1.00	0.74	89	Assume LSCE average per household
RE-A-B:43	RE - Very Low Density Residential	56	556	9.9		0.74	1.25	0.925	52	Assume LSCE average per household
RE-A-MH-B:10	RE - Very Low Density Residential	69	152	2.2		0.74	1.25	0.925	64	Assume LSCE average per household
RE-A-MH-B:435	RE - Very Low Density Residential	7	36	5.1		0.74	1.25	0.925	6	Assume LSCE average per household
RE-A-MH-B:86	RE - Very Low Density Residential	6	11	1.8		0.74	1.25	0.925	6	Assume LSCE average per household
RE-B:10	RE - Very Low Density Residential	2,073	2,819	1.4		0.74	1.25	0.925	1,918	Assume LSCE average per household
RE-B:43	RE - Very Low Density Residential	108	109	1.0		0.74	1.25	0.925	100	Assume LSCE average per household
RE-B:86	RE - Very Low Density Residential	139	90	0.6		0.74	1.00	0.74	103	Assume LSCE average per household
RE-B:129	RE - Very Low Density Residential	47	149	3.2		0.74	1.25	0.925	43	Assume LSCE average per household
RE-BZ	RE - Very Low Density Residential	2,161	4,298	2.0		0.74	1.25	0.925	1,999	Assume LSCE average per household
RE-MH-B:10	RE - Very Low Density Residential	1,177	1,817	1.5		0.74	1.25	0.925	1,089	Assume LSCE average per household
RE-MH-B:86	RE - Very Low Density Residential	27	45	1.7		0.74	1.25	0.925	25	Assume LSCE average per household
RE-MH-BZ	RE - Very Low Density Residential	21	48	2.3		0.74	1.25	0.925	19	Assume LSCE average per household
SCSP	SCSP - Sun City Special Plan	10	3,187	318.7		0.74	500.0*	370	3,700	Replace with actual data on resid. Units
TPZ	TPZ - Timber (no definition)	968	237,654	245.5	0.00	Excluded			0	Undeveloped/net 0 usage?
<b>Totals or Average</b>		<b>40,358</b>	<b>1,799,250</b>	<b>44.6</b>					<b>4,251,419</b>	
<b>Totals/Avg. (After Deducting Exemptions and Exclusions)</b>		<b>38,673</b>	<b>1,537,003</b>	<b>39.7</b>					<b>3,353,482</b>	

1. From LSCE file: Assessor\_Roll\_GISS.  
 2. Volume in AF/year based on total acres for non-residential and total parcels for residential.  
 \* Adjustment for large "parcel" size based on R-1 average of 0.6 acres/parcel.

# APPENDIX G

## Tehama GSA - 2026 Fee Ordinances

## ORDINANCE NO. 2026-1

### AN UNCODIFIED ORDINANCE OF THE TEHAMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF DIRECTORS ADOPTING AN ADMINISTRATIVE REMEDIES PROCEDURE FOR CHALLENGES TO FEES, CHARGES, AND ASSESSMENTS

THE BOARD OF DIRECTORS OF THE TEHAMA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ("District") ORDAINS AS FOLLOWS:

#### SECTION 1. AUTHORITY AND TITLE.

- A. This Ordinance is authorized by the District's authority under California Water Code Appendix Chapter 82, Government Code section 53759.1, and other applicable law.
- B. This Ordinance shall be called "The District Fee Remedies Procedure."

#### SECTION 2. PURPOSE AND FINDINGS.

- A. The purpose of this Ordinance is to create an exhaustion of administrative remedies procedure that requires payors to bring an objection regarding a proposed fee, charge, or any special assessment to the Board of Director's attention prior to the deadline established as part of the fee, charge, or assessment consideration process. The purpose of the Ordinance is also to provide an opportunity for the District to address or resolve the objection or objections before the Board of Directors makes a final decision on whether to establish a new, or amend a current, fee, charge, or special assessment pursuant to either Prop 26 or Proposition 218.
- B. The procedure created by this Ordinance is intended to provide a meaningful opportunity for a payor to present an objection to a proposed new or amended fee, charge, or any special assessment, and allow the District the opportunity to resolve the objection, before resorting to litigation after the new or amended fee, charge, or special assessment is approved. Even if such an objection is not fully resolved, the District, in considering and responding to the objection, can narrow the dispute and will create a better evidentiary record for court review in deciding any later litigation.
- C. The District finds this Ordinance establishes a "clearly defined machinery for the submission, evaluation, and resolution of complaints by aggrieved parties" (see *Plantier v. Ramona Municipal Water Dist.*, supra, 7 Cal.5th at p. 384, citing *Rosenfield v. Malcom* (1967) 65 Cal.2d 559, 566).

#### SECTION 3. ORDINANCE.

- A. **.Scope.** The duty to exhaust administrative remedies imposed by this section extends to:

1. any fee or charge subject to articles XIII C or XIII D of the California Constitution,
  2. any assessment on real property levied by the District, and
  3. the methodology used to develop and levy such a fee, charge, or assessment.
- B. "Hearing" as used in this section means the hearing referenced in paragraph 4 of subsection D of this section.
- C. Duty to Exhaust Issues. No person may bring a judicial action or proceeding alleging noncompliance with the California Constitution or other applicable law for any new, increased, or extended fee, charge, or assessment levied by the District, unless that person submitted to the Clerk of the Board of Directors a timely, written objection to that fee, charge, or assessment specifying the grounds for alleging noncompliance. The issues raised in any such action or proceeding shall be limited to those raised in such an objection unless a court finds the issue could not have been raised in such an objection by those exercising reasonable diligence.
- D. Procedures. The District shall:
1. Make available to the public any proposed fee, charge, or assessment to which this section is to apply no less than 45 days before the deadline for a ratepayer or assessed property owner to submit an objection pursuant to paragraph 4 of this subsection D.
  2. Post on its internet website a written basis for the fee, charge, or assessment, such as a cost of service analysis or an engineer's report, and include a link to the internet website in the written notice of the Hearing, including, but not limited to, a notice pursuant to subdivision (c) of Section 4 or paragraph (1) of subdivision (a) of Section 6 of Article XIII D of the California Constitution.
  3. Mail the written basis described in paragraph 2 of this subsection D to a ratepayer or property owner on request.
  4. Provide at least 45 days for a ratepayer or assessed property owner to review the proposed fee or assessment and to timely submit to the Clerk of the Board of Directors a written objection to that fee, charge, or assessment that specifies the grounds for alleging noncompliance. Any objection shall be submitted before the end of the public comment portion of a Hearing on the rate, charge or assessment.
  5. Include in a written notice of the Hearing, a statement in bold-faced type of 12 points or larger that:
    - i. All written objections must be submitted to the Clerk of the Board of Directors by the end of public comment period at the Hearing and that a failure to timely object in writing bars any right to challenge that fee, charge, or assessment in court and that any such action will be limited to issues identified in such objections.

- ii. All substantive and procedural requirements for submitting an objection to the proposed fee, charge, or assessment such as those specified for a property-related fee under California Constitution, article XIII D, section 6(a) or for an assessment on real property under California Constitution, article XIII D, section 4(e).
- E. Board Consideration; District Responses. Before or during the Hearing, the Board of Directors shall consider and the District shall respond in writing to, any timely written objections. The Board of Directors may adjourn the Hearing to another date if necessary to respond to comments received after the agenda is posted for the meeting at which the Hearing occurs. The District's responses shall explain the substantive basis for retaining or altering the proposed fee, charge, or assessment in response to written objections, including any reasons to reject requested amendments.
- F. Board Determinations. The Board of Directors, in exercising its legislative discretion, shall determine whether:
1. The written objections and the District's response warrant clarifications to the proposed fee, charge, or assessment.
  2. To reduce the proposed fee, charge or assessment.
  3. To further review the proposed fee, charge, or assessment before determining whether clarification or reduction is needed.
  4. To proceed with the Hearing, to continue it, or to abandon the proposal.

#### **SECTION 4. CEQA FINDINGS.**

The Board of Directors finds that adoption of this Ordinance is exempt from CEQA because: (i) it is not a project within the meaning of Public Resources Code, section 21065 because it has no potential to alter the physical environment; (ii) and pursuant to CEQA Guidelines section 15061(b)(3), the so-called "common sense" exemption, for this same reason.

#### **SECTION 5. SEVERABILITY.**

If any section, subsection, sentence, clause, phrase or portion of this Ordinance or its application to any person or circumstance is held to be invalid or unconstitutional by the decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance or its application to other persons and circumstances. The Board of Directors declares that it would have adopted this Ordinance and each section, subsection, sentence, clause, phrase or portion thereof despite the fact that any one or more sections, subsections, sentences, clauses, phrases, or portions be declared invalid or unconstitutional and, to that end, the provisions hereof are hereby declared to be severable.

#### **SECTION 6. EFFECTIVE DATE.**

This Ordinance shall be and is hereby declared to be in full force effect from and after thirty (30) days after the date of its passage and the clerk shall cause this Ordinance or

a summary to be published once before the expiration of fifteen (15) days after said passage, with the names of the Directors voting for or against the same, in the *Red Bluff Daily News*, a newspaper of general circulation in the County of Tehama, State of California.

**In regular session of the Board of Directors of the Tehama County Flood Control and Water Conservation District, introduced on the 16th day of March, 2026, and DULY PASSED AND ADOPTED THIS 23<sup>rd</sup> DAY OF April, 2026, by the Board of Directors of the County of Tehama by following vote:**

AYES: Hansen, Lane, Burroughs, Jones, Walker  
NOES: None  
ABSENT OR NOT VOTING: None


  
\_\_\_\_\_  
CHAIRMAN, Board of Directors

STATE OF CALIFORNIA     )  
  ) §§  
COUNTY OF TEHAMA     )

I, SEAN HOUGHTBY, County Clerk and ex-officio Clerk of the Board of Directors of the Tehama County Flood Control and Water Conservation District, State of California, hereby certify the above and foregoing to be a full, true and correct copy of an ordinance adopted by said Board of Directors on the 23<sup>rd</sup> day of April, 2026.

DATED this 23<sup>rd</sup> day of April 2026.

SEAN HOUGHTBY, County Clerk of  
the Board of Directors of the Tehama County  
Flood Control and Water Conservation  
District, State of California

By \_\_\_\_\_