



4CREEKS

Madera County

Groundwater Sustainability Agency Measurement Services

Tuesday, July 1, 2025
Presented by: 4Creeks



Current Users



Current Users



Groundwater Sustainability Agencies

- 01** Lower Tule River GSA
- 02** Pixley GSA
- 03** Eastern Tule GSA
- 04** Tri-County Water Authority GSA
- 05** Vandalia Water District GSA
- 06** Tea Pot Dome Water District GSA

Irrigation Districts

- 01** Porterville Irrigation District
- 02** Saucelito Irrigation District
- 03** Consolidated Peoples Ditch Company
- 04** Lower Tule River Irrigation District
- 05** Pixley Irrigation District
- 06** Vandalia Water District
- 07** Tea Pot Dome Water District



Firm Overview



4Creeks, Inc.

is dedicated to providing progressive planning services with logical solutions and designs. Many of our staff have significant work experience with local municipalities as well as federal and state agencies.



100%
Employee-Owned



200+
Employees



6
Branch Offices



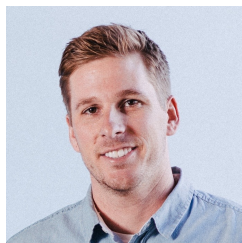
Project Team



Project Team



DAVID DE GROOT, PE
Principal Engineer



DON TUCKER
Department Manager



VICTOR LOPEZ
Project Manager /
Lead Developer

Additional Support Staff

Software Development

Caleb Tyler, Software Developer

Mitch Maltezo, Software Developer

Jake Sliwka, Software Developer

Geographic Information System (GIS)

Grant McNulty, GIS Department Manager

Joe Christianson, GIS Technician

Jesse Stewart, GIS Technician

Tuesday, July 1, 2025

Madera County GSA Measurement Services

Basinsafe™ Overview



Basinsafe™

Groundwater Management Made Simple



Key Benefits

- 01** Transparent data access for landowners
- 02** Centralized system for agency staff
- 03** Easy to use, scalable, and secure
- 04** Configurable to meet local GSA needs

Core Features

- 01** Real-time water balance data
- 02** Parcel-level insights for planning
- 03** Streamlined invoicing and financial tracking
- 04** Custom, exportable reports for stakeholders
- 05** Tools to oversee accounts and acre-feet

Demo Account

☐ Set Landowner Account As Non-Billable?

Care Of:
Phone: 559-802-3052
Address: 324 S Santa Fe St Suite A
City/State: Visalia, CA
Zip: 93292

Edit Profile

View Alternate Contacts

Impersonate

Account Acreage Summary

Total Acres

Sum of All Parcel Acreage

317.37

Irrigated Acres

Sum of All Irrigated Acres

291.75

Water Group

Water Type

Quarterly Summary

Total Groundwater Remaining

Show/Hide Zero Balances

Request Tier 1 Retirement

732.40 AF

Water Group	Start Balance	+	Total Credits	-	Total Debits	=	Remaining Balance
Total Precipitation	0.00		99.11		0.00		99.11 AF
Native Sustainable Yield	0.00		0.00		0.00		0.00 AF
Landowner Groundwater Credits	0.00		30.19		0.00		30.19 AF
Tier 1 Transitional	0.00		611.10		8.00		603.10 AF
Tier 2 Penalty	0.00		0.00		0.00		0.00 AF


Recent Transactions

EXPORT TO EXCEL

Search...

Transaction Source	Amount	Notes	Water Type	Transaction Date	Creation Date	Transaction Type
Transfer	36.63 AF	Parcel Transfer: 302250003 From ETGSA1761	2025 WY Tier 1 Transitional	06/23/2025	06/23/2025	Credit
Transfer	13.08 AF	Parcel Transfer: 302250004 From ETGSA1761	2025 WY Tier 1 Transitional	06/23/2025	06/23/2025	Credit
Transfer	19.9 AF	Parcel Transfer: 302250004 From ETGSA1761	2022 WY Native Sustainable Yield	06/23/2025	06/23/2025	Credit
Transfer	5.84 AF	Parcel Transfer: 304040014 From ETGSA1761	2024 WY Tier 1 Transitional	06/23/2025	06/23/2025	Credit

Add Note

Category	Date	Note	Is Resolved	File Preview	Toggle Resolved	Edit Note	Delete Note
Communication	6/23/2025	Grower called to update contact information.			MARK AS RESOLVED	EDIT NOTE	DELETE NOTE

1

1 - 1 of 1 Items

Surface Water: 0.00 AF

Primary Allocations

Groundwater: 57.58 AF

Total Water: 57.58 AF

Subsidence Allocations

Total Water: 671.82 AF

Parcel Count: 3

View/Set Priority

New Allocation

Intra Account Transfer

Active Account Allocations



Total Precipitation 5.84 AF +

1. 2025 WY Total Precipitation - 5.84 AF

Native Sustainable Yield 0.00 AF +

Landowner Groundwater Credits 10.29 AF +

Tier 1 Transitional 41.45 AF +

Tier 2 Penalty 0.00 AF +

Toggle All Allocations

Total Precipitation Transaction Count: 5

View All Bucket Transactions

Water Transfer

Edit Water Group Assignment

2025 WY Total Precipitation

Allocated Based On: 317.37 Ac

Current Gross Acres: 317.37 Ac

NEW TRANSACTION

FREEZE ALLOCATION

EDIT ALLOCATION

Start Date: 10/1/2024 Rollover Date: 9/30/2029 Amount to Rollover: 96.11

Remaining 66.06%

Initial Deposit
0.00 AF

Total Credits
8.84 AF

Total Debits
-3.00 AF

Remaining Balance
5.84 AF



Show / Hide Recent Transactions



Recent Transactions Last 10 Transactions | Total Transactions: 2

View All Transactions

Debit On: 6/26/2025 Created On: 6/26/2025

ET Consumption Test

VOID

EDIT

Transaction Source
ETConsumption

Transaction Type
Debit

Transaction Amount
-3.00 AF

Credit On: 6/23/2025 Created On: 6/23/2025

Parcel Transfer: 304040014 From ETGSA1761

VOID

EDIT

 Collapse Sidebar

Billing Accounts

- Tier 1 Consumption

New Billing Account

Billing Admin Dashboard - ET Consumption

Total Charges	Total Adjustments	Total Penalty	Total Payments	Balance
\$3,136.00	(\$1,136.00)	\$0.00	\$2,000.00	\$0.00

Detailed Breakdown

Billing Account Invoices

Billing Account Transactions Payment Info Credit Info Line Item Transfer

Create Blank Invoice

 EXPORT TO EXCEL

Search...



Invoice	Invoice Id	Status	Invoice Amount	Remaining Amount	Add Item
▼ Q2 2025 WY ET	55676	Paid	\$2,000.00	\$0.00	ADD ITEM

INVOICE INFORMATION

INVOICE LINE ITEMS

INVOICE TRANSACTIONS

Invoice Notes

- Q2 2025 WY ET

Customer Details

- ETGSA9999
- Demo Account

Past Due

- 06/30/2025

Billing Period

- 01/01/2025 - 05/31/2025

Summary

- Past Charges: \$0.00
- Current Charges: \$2,000.00
- Invoice Amount: \$2,000.00
- Remaining Amount: \$0.00
- Penalties: \$0.00
- Adjustments: (\$1,136.00)

Mass Adjust Invoice

Apply Credits To Invoice

Need Help

Active Parcels

EXPORT TO EXCELNEW PARCELASSIGN WATER

Search...

Actions	APN	Grower Name	Total Acres	Irrigated Acres	In Subsidence	Belongs To Account	Uses Allocation	Allocatable	Billable	Ignores ET	District	MZ
Actions	302250003	302250003	80.04	80	✓	✓	✓	✓	✓	✗	N/A	Greater Tule
Actions	302250004	302250004	24.72	20	✓	✓	✓	✓	✓	✗	N/A	Greater Tule
Actions	302330001	302330001	156.1	157	✓	✓	✓	✓	✓	✗	N/A	Greater Tule
Actions	304040014	304040014	56.51	34.75		✓	✓	✓	✓	✗	N/A	Greater Tule

1

10

Items per page

1 - 4 of 4 items

Owned and Leased Parcel History

EXPORT TO EXCEL

Transferor Customer Number	Recipient Customer Number	Parcel Requested for Transfer	Gross Acreage	Transaction Date	Land Transfer	Land Lease

Water Transfer History

EXPORT TO EXCEL

Drag a column header and drop it here to group by that column

Transferor	Recipient	Type Name	Transfer Amount (AF)	Date Created	Notes
» ETGSA1761	ETGSA9999	2027 WY Tier 1 Transitional	16.4	06/23/2025 04:35 PM	Test
» ETGSA1761	ETGSA9999	2026 WY Tier 1 Transitional	16.2	06/23/2025 04:35 PM	Test
» ETGSA1761	ETGSA9999	2025 WY Tier 1 Transitional	13.08	06/23/2025 04:35 PM	Test
» ETGSA1761	ETGSA9999	2024 WY Tier 1 Transitional	11.09	06/23/2025 04:35 PM	Test
» ETGSA1761	ETGSA9999	2022 WY Native Sustainable Yield	19.9	06/23/2025 04:35 PM	Test
» ETGSA1761	ETGSA9999	2025 WY Total Precipitation	8.69	06/23/2025 04:35 PM	Test
» ETGSA1761	ETGSA9999	2027 WY Tier 1 Transitional	65.6	06/23/2025 04:55 PM	Test
» ETGSA1761	ETGSA9999	2026 WY Tier 1 Transitional	64.8	06/23/2025 04:55 PM	Test
» ETGSA1761	ETGSA9999	2025 WY Tier 1 Transitional	36.63	06/23/2025 04:55 PM	Test
» ETGSA1761	ETGSA9999	2025 WY Total Precipitation	26.41	06/23/2025 04:55 PM	Test
» ETGSA1761	ETGSA9999	2027 WY Tier 1 Transitional	7.68	06/23/2025 04:12 PM	Test
» ETGSA1761	ETGSA9999	2026 WY Tier 1 Transitional	15.91	06/23/2025 04:12 PM	Test

Wells

+ Add New Well

EXPORT TO EXCEL										
Search...										
Well Name	Shared Well	Customer Well ID	Well Installation Date	Use	Status	Previous Reading	Previous Reading Time	Add Meter Reading	Edit Well	Delete Well Assignment
Well 1		522	07/25/2024	Irrigation (AGR) Well	Active	2.91 Acrefeet	06/16/2025	ADD READING	EDIT	DELETE
<div> <div>WELL INFORMATION</div> <div>FIELDS</div> <div>METER REGISTRY</div> <div>METER READINGS</div> </div> <div> <div>Well Info</div> <ul style="list-style-type: none"> BasinSafe Well ID: 2 Screening Interval Top Depth: None Screening Interval Bottom Depth: 700 feet Total Completed Depth: 800 feet Max Production: 600 GPM Casing Diameter: 12 inches Pump Horsepower: 150 hp APN Located On: 302330001 </div> <div> <div>Well Flags</div> <ul style="list-style-type: none"> Is this a Deminimis Well?: Does this Well have a Construction Log?: Does this Well have a Sounding Tube Port?: </div> <div> <div>Well Identifiers</div> <ul style="list-style-type: none"> PWSIDNumber: None GRA ID: None USGS Well Name: None CASGEM ID: None Well Completion Report ID: None </div>										
Well 2		523	05/04/2020	Dairy Supply Well	Active			ADD READING	EDIT	DELETE
Well 3		524	06/23/2025	Domestic Well	Active			ADD READING	EDIT	DELETE
Well 4		525	07/25/2024	Irrigation (AGR) Well	Active	0 Acrefeet	06/16/2025	ADD READING	EDIT	DELETE
Well 5		526	01/01/2018	Irrigation (AGR) Well	Active	42.57 Acrefeet	06/16/2025	ADD READING	EDIT	DELETE
<div> <div>1</div> <div>10</div> <div>Items per page</div> </div> <div>1 - 5 of 5 Items</div>										

Total ET in AF AF Per Acre ET Consumed Field ET in AF

ET Table Evapotranspiration Measured in AF

Select Water Year

2024-2025

EXPORT TO EXCEL

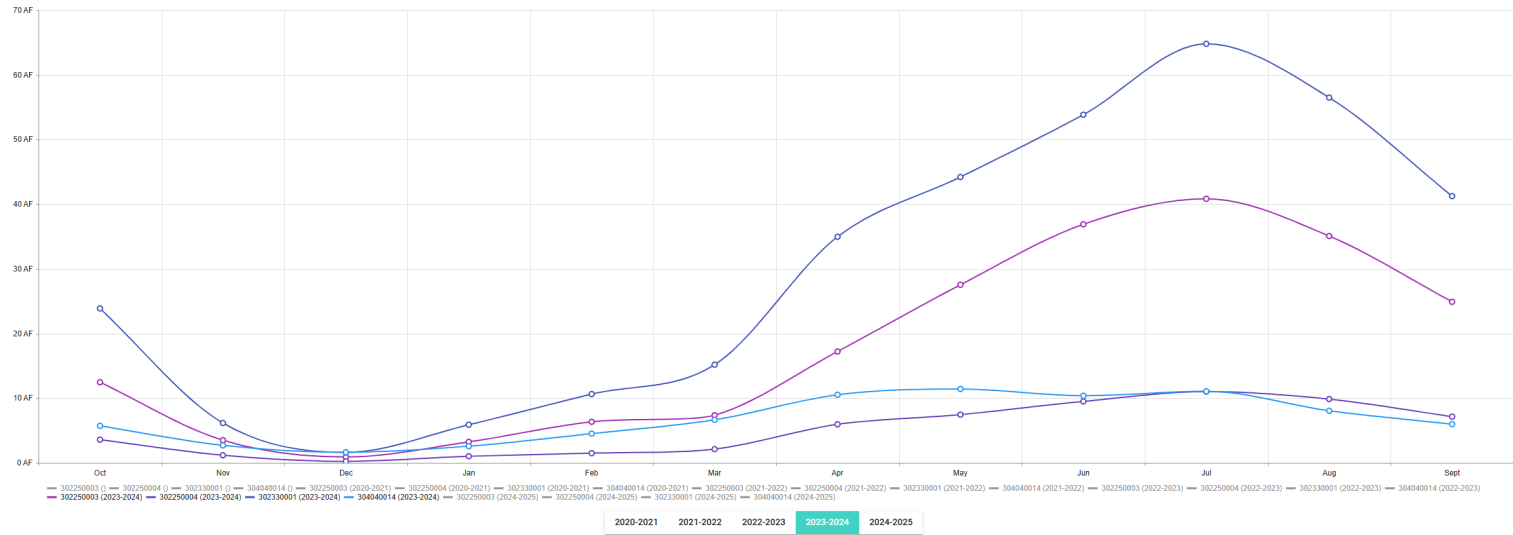
Search...

APN and Ranch/Field Name	Uses ET	Is Retired	Gross Acreage	APN Total ET (AF)	Oct (AF)	Nov (AF)	Dec (AF)	Jan (AF)	Feb (AF)	Mar (AF)	Apr (AF)	May (AF)	Jun (AF)	Jul (AF)	Aug (AF)	Sep (AF)
302250003	✓	✗	80.04	35.39	13.98	3.60	2.20	2.61	3.85	9.15	0.00	0.00	0.00	0.00	0.00	0.00
302250004	✓	✗	24.72	10.57	4.07	1.09	0.72	0.86	1.19	2.64	0.00	0.00	0.00	0.00	0.00	0.00
302330001	✓	✗	156.1	66.58	24.68	6.51	4.58	6.34	7.47	17.00	0.00	0.00	0.00	0.00	0.00	0.00
304040014	✓	✗	56.51	20.42	3.97	2.36	1.80	2.21	3.22	6.86	0.00	0.00	0.00	0.00	0.00	0.00
			Total: 317.37	Total: 132.96	Total: 46.70	Total: 13.56	Total: 9.30	Total: 12.02	Total: 15.73	Total: 35.65	Total: 0.00	Total: 0.00	Total: 0.00	Total: 0.00	Total: 0.00	Total: 0.00

Parcel ET Evapotranspiration Measured In AF

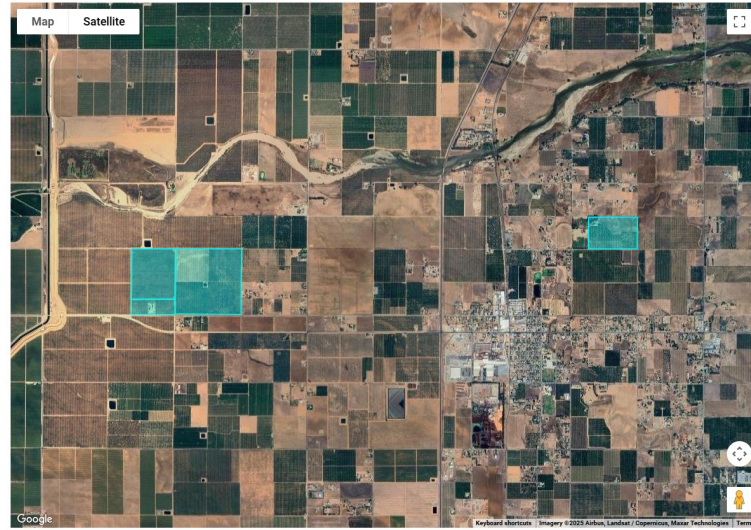
Select APN's to compare

302250003 302250004 302330001 304040014



Tuesday, July 1, 2025

Madera County GSA Measurement Services



Map Controls

[Overview](#)
[Wells](#)
[Well Service Area](#)

Toggle View:

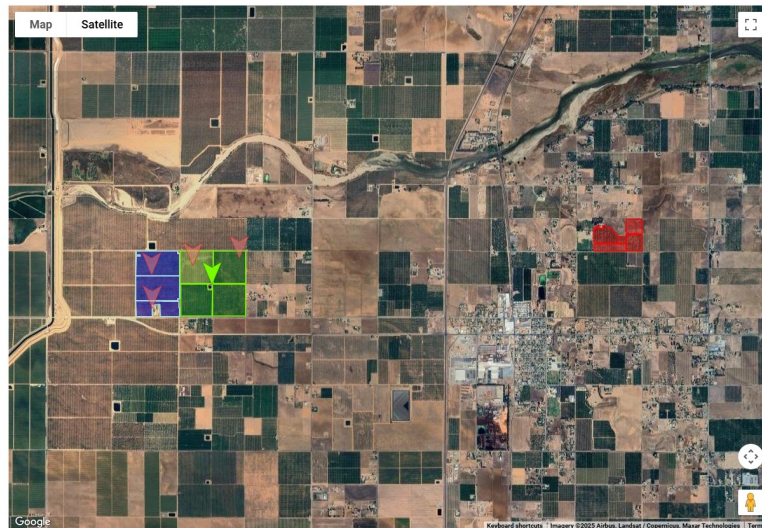
[Parcels](#)
[Fields](#)

[Active](#)
[Irrigated](#)
[Subsidence Area](#)

Current Parcels:

304040014
 302330001
 302250004
 302250003

Search APN, Field Name



Map Controls

Overview Wells **Well Service Area**

How To Use Cancel Save

The currently selected well will show up **green**.
 Fields that are serviced by the selected well will show up **green**.
 Fields that are serviced but not by the selected well will show up **blue**.
 Fields that are not serviced by any well will show up **red**.
 For more detailed instructions, press the 'How To Use' button above.

Wells	Fields
Well 1 (ID: 522)	302250003 - 302250003-34105
Well 2 (ID: 523)	302250003 - 302250003-34631
Well 3 (ID: 524)	302250004 - 302250004-34395
Well 4 (ID: 525)	3022330001 - 3022330001-34052
Well 5 (ID: 526)	3022330001 - 3022330001-34082
	3022330001 - 3022330001-34385
	3022330001 - 3022330001-34761
	304040014 - 304040014-16063
	304040014 - 304040014-29757

☐ Show/Hide Map Field Names
☐ Show/Hide Map Well Names



Proposed Cost



Proposed Cost: Development Phase

Task	Description of Activities	Fee
Phase 1: Discovery Phase		
Phase 1	<ul style="list-style-type: none"> In depth review with GSA staff of the "off the shell" application features and current rent district operations Recommendations on framework configuration and best use of system Updated scope and fee for Phase 2 	T&M \$3,500
Phase 2: Agency Specific Application Development & Deployment Preliminary Fees		
Core Application Development & Configuration	<ul style="list-style-type: none"> Contract initiation - GSA signs and agrees to software setup and one-time development set up fee <ul style="list-style-type: none"> Development fees included in this task: \$55,000 (Fixed Fee) System server requisition Configuration and setup of server GSA database and core Basinsafe™ framework configuration <ul style="list-style-type: none"> Configuration fees included in this task: \$2,500 Deploy software Setup staff accounts and administrative access 	One Time Development Fee \$57,500
Onboarding	<ul style="list-style-type: none"> System capabilities review with staff – in-depth software overview meeting Data review with recommendations on formatting data appropriately Provide input to staff that can support data preparation efforts 	T&M \$7,500
User Account Setup & Verification	<ul style="list-style-type: none"> Receive formatted landowner (user) data from GSA staff 4Creeks to prepare data for user account importation Setup staff accounts and administrative access, GSA to provide initial landowner (user) data audit Import final landowner (user) data into system 	T&M \$13,000

Time & materials charges shown are estimated and will vary based upon agency needs.

Task	Description of Activities	Fee
Testing & Staff Training	<ul style="list-style-type: none"> • Test system with specific data • Deploy “Beta” version of the application for administrative testing period • GSA’s final data audits in system • Three (3) 2-hour staff training sessions 	T&M \$10,000
Launch for Member Access	<ul style="list-style-type: none"> • Work with GSA staff to develop a software launch plan • Provide appropriate, useful on-boarding materials • Dispense user ID / login information • Launch software for member access 	T&M \$8,500
Customization	Includes updates requested to the existing core application that would require substantial reconfiguration efforts to launch for member access (i.e. custom billing and invoicing features, custom reports, staff training beyond 3 meetings, etc.). Customization efforts will be agreed upon by both GSA and 4Creeks and a T&M proposal will be provided for approval before work is started.	Varies
One-Time Development & Configuration Fee		\$57,500
Tasks 1-5 Implementation Service Time & Materials Estimate		\$39,000
Total Estimated Cost		\$96,500

Proposed Cost: On-Going Support

Task	Description of Activities	Fee
Phase 3: Annual On-Going Support Services		
On-Call Support	<ul style="list-style-type: none"> Support services will be provided by high-quality, local staff Support will be provided during standard business hours Support services are offered on an hourly basis where support tasks are identified by complexity, length of time to complete, and immediacy Support rates are valued at \$120 / hour Example: Support during agency assessments or billing cycles 	T&M \$15,000
Annual Licensing & Subscription Fee (Includes Web-Based Access & Data Hosting)	<ul style="list-style-type: none"> Agency-specific enterprise-level server configuration for data retention and optimization performance Data confidentiality and encryption Fully supported hardware to ensure uptimes of 98% or greater Low latency, high throughput, and highly redundant data access and storage Built and managed to ensure decades of data is secure and accessible Hardware maintained and replaced at regular / specific intervals to ensure uptime and data security Platform license fee to be billed monthly upon operational setup of system Includes: <ul style="list-style-type: none"> Software optimization (base code management / optimizing) System upgrades (upgrades to system performance / ux / ui) Weekly data backup services Maintaining software documentation / training resources Platform debugging and troubleshooting (platform critical support) 	Fixed Fee \$45,000/Year (Annual Fixed Fee)
Customization as Requested	Upon request, scope and fees to be provided to client for approval before customization work begins.	T&M
Annual On-Going Support Fees		\$60,000



BASINSAFE

Test Site

etest.basinsafe.com

Username: Demo

Password: BasinsafeTrial



Honest. Authentic. Solutions.

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