



## Application Form for 2025 Local Cooperative Solution for Overlying or Adjudicated Groundwater Rights in Scott River and Shasta River Watersheds

Please complete this form if you plan to implement a groundwater local cooperative solution (LCS) for the 2025 irrigation season under the Scott River and Shasta River watersheds emergency regulation. Applications must be submitted for at least a full irrigation season. A separate application should be submitted for each type of groundwater LCS proposal. **The form and attachments are due by April 15, 2025.**

**How to Submit:** To submit your application and associated required materials (see Section 2) you can:

- Use the online form
- Email: DWR-ScottShastaDrought@waterboards.ca.gov
- Mail:

State Water Resources Control Board Division  
of Water Rights - Instream Flows Unit  
1001 I Street - 14th Floor  
Sacramento, CA 95814

### Section 1: Applicant Information

Name	Warren Farnam
Name of Farm, Ranch, or Business	Patterson Creek Ranch
Phone Number	
Email Address	

By typing or signing your name below and submitting this form to the State Water Resources Control Board (State Water Board) you hereby certify that the submitted information is true and correct to the best of your knowledge.

Name:

*Warren Farnam*

Date:

4 / 14 / 25



## Section 4: Coordinating Entity

Select only one (1) box below. Please note that a Coordinating Entity is not required. If a Coordinating Entity is not selected, parties will work directly with the State Water Board to provide metering data and ensure performance of the groundwater local cooperative solution. For more information on Coordinating Entity provisions, refer to Section 875(f)(1)(G) in the emergency regulation.

- |   |  |
|---|--|
| <input type="checkbox"/> California Department of Fish & Wildlife<br>Contact: Crystal Robinson<br>(530) 340-0767<br>crystal.robinson@wildlife.ca.gov  | <input type="checkbox"/> Shasta Valley Resource Conservation District<br>Contact: Rod Dowse<br>(530) 598-1253<br>rdowse@svrccd.org |
| <input type="checkbox"/> Siskiyou Resource Conservation District<br>Contact: Evan Senf<br>(530) 643-1585<br>evan@siskiyouccd.com  | <input checked="" type="checkbox"/> Scott River Water Trust<br>Contact: Chris Voigt<br>(916) 396-0131<br>chrisb.voigt@gmail.com    |
| <input type="checkbox"/> Other, I am proposing an Entity not in the provided options. Please provide the name of the Entity, contact information, and description of qualifications in the box below. | <input type="checkbox"/> I select not to work with a coordinating entity.  |



## Section 5: Groundwater Well Information

Complete the table below or include an attachment for information on the groundwater wells, fields irrigated by the well and the APN, and associated meters that are covered under the proposed groundwater LCS.

- Well ID: Name of the well covered by the proposal LCS
- Well Coordinates: Latitude and Longitude of the well location
- Field APNs: List the APNs for the fields irrigated by the well. Please include APN of fields fallowed as part of the LCS plan.
- Meter ID: List the meters recording extraction or application from this well.

Well ID	Well Coordinates	Field APNs	Meter ID
Example: Well #1	(40.57686, -122.3657)	547-988-0975; 547-989-0976	Meter 1 Meter 3
Well 40 hp			Meter 1
Well 15 hp			Meter 2

For assistance in finding well coordinates, you can use Google Maps ([www.google.com/maps](http://www.google.com/maps)).



## Section 6: Metering Information

Please describe the metering plan for all the fields that will be irrigated under the LCS. Remember that meters can be installed at the well head or at the place of use (e.g., pivots). All meters should be installed to manufacturers' specifications and recommendations and measurements should be in the expected accuracy range. Fill in the box below, upload an attachment, or email a document or spreadsheet with the information requested in this section.

- a. Describe how you will record weekly extractions or applications and report monthly volumes. Include a description of all water uses associated with each groundwater well that is part of this groundwater LCS. For each meter include the Well ID the meter is recording, the amount of irrigated acres covered and the crop type. Each meter should have an identifier (e.g., Meter #1) included in the description and in the monthly reports.

*For example, "the ranch manager will log meter readings at Well #1 using Meter #1; and for Well #2, the ranch manager will log meter readings at pivots 1 & 2 using Meters #2 and #3." Also note what the water is being used for – "Well #1 irrigates 50 acres of grain on fields A and B, 100 acres of pasture on fields E, G, and Z. Meter #2 will irrigate 75 acres of alfalfa on field Y and Meter #3 will irrigate 25 acres Alfalfa on Field W. The manager will send the logs and photos to the Water Board by no later than the 5th of the month for the preceding month."*

Meter reading will be monthly and recorded. Meter records will be relayed to coordinating entity. Since metering will be happening at wells and the crop is grass, total acreage will be used to average feet per acre.

- b. For groundwater wells and applications that are NOT currently metered, in the box below please describe the time schedule and plan to install meters, including a description of efforts to obtain a meter before the initiation of groundwater diversions covered by this groundwater LCS, and when such efforts were undertaken. If you want to file for a waiver to the metering requirement, please use the box below and include information on why metering of your well(s) or applications should be waived. Be sure to include total irrigated acres, distance of the well(s) from surface water, a description of why metering is infeasible, if applicable, and any additional information that supports your waiver request.



---

**Select the type of groundwater LCS you are applying for and complete the corresponding sections of the application. A separate application should be submitted for each type of groundwater LCS request.**

- ☐ Best Management Practices Groundwater LCS - Complete sections 7
- ☐ Graduated Groundwater Cessation Schedule LCS - Complete sections 8
- ☒ Percent Reduction Groundwater LCS - Complete sections 9

Please indicate the proposed time period for the LCS you are applying for (e.g., one irrigation season or multiple seasons). If multiple seasons, please provide the time period.

2025 irrigation season



## Section 9: Percent Reduction Groundwater LCS

The applicable percent reduction in groundwater pumping noted below must be demonstrated for the Percent Reduction Groundwater LCS consistent with section 875(f)(4)(D)(v) of the emergency regulation, and summarized below.

- **Scott River Watershed:** A net groundwater pumping reduction of at least 30% throughout the irrigation season (April 1 – October 31) and a monthly reduction of at least 30% between July 1 through October 31.
- **Shasta River Watershed:** A net groundwater pumping reduction of at least 15% throughout the irrigation season (March 1 – November 1) and a monthly reduction of at least 15% between June 1 through September 30.
- The relevant water use reduction shall be based on a comparison to a baseline irrigation season (i.e., 2020, 2021, 2022, or 2023).
  - BUT, if the previous year baseline is higher than the following applied water rates:
    - 33 inches per year for alfalfa,
    - 14 inches per year for grain, or
    - 30 inches per year for pasture
  - Then the above values shall be used as the baseline UNLESS the applicant provides sufficient additional information supporting an alternative baseline.
- Please provide the total amount of irrigated acreage (with units) under your proposal for a Percent Reduction Groundwater LCS. 95.7

- If you are proposing a Percent Reduction Groundwater LCS, please include the following files to the State Water Board and your Coordinating Entity.
  - a. A description of practices that reduces groundwater pumping and how the State Water Board (or Coordinating Entity, if applicable) can verify those actions.

Crop changes and the elimination of double cropping, See attached for additional information.

- b. A spreadsheet with monthly pumping volumes for the selected baseline year and current year. Use one row per irrigation method per field.
    - c. Map(s) with each field labeled, well locations, and meter locations.





**FRS**

Farnam Resource Solutions

Farnam Ranch

2020 vs 2025 GW Reduction Plan				2020							
Field	GPS Location	Soil Type	Irrigation type	Field Ac	Crop	in/ac	2nd Crop (change July-Sept)	in/ac	Total Inches	Total AF/ac	Total GW AF/field
F1		Diyou loam, drained	Pivot Low Pressure	44	Triticale	14	Corn	48	62	5.2	227.3
F2		Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	9.5	Alfalfa	33	no season change	0	33	2.8	26.1
F3		Atter Stoner gravelly sandy loam	Pivot-Low Pressure	19	Orch. grass	30	no season change	0	30	2.5	47.5
F4		Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	3.9	Orch. grass	30	no season change	0	30	2.5	9.8
F5		Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	8	Wheat	14	Sanfoin	16	30	2.5	20.0
F6		Atter Stoner gravelly sandy loam	Wheel-line-LP/Handline	11.3	Triticale	14	Grass mix	16	30	2.5	28.3
			TOTALS	95.7							359.0

				2025							
Field	GPS Location	Soil Type	Irrigation type	Field Ac	Crop	in/ac	2nd Crop (change July-Sept)	in/ac	Total Inches	Total AF/ac	Total GW AF/field
F1		Diyou loam, drained	Pivot-Low Pressure	44	Grass mix	30	no season change	0	30	2.5	110.0
F2		Atter Stoner gravelly sandy loam	Pivot-Low Pressure	9.5	Alf/grass	33	no season change	0	33	2.8	26.1
F3		Atter Stoner gravelly sandy loam	Pivot-Low Pressure	19	Orch. grass	30	no season change	0	30	2.5	47.5
F4		Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	3.9	Orch. grass	30	no season change	0	30	2.5	9.8
F5		Atter Stoner gravelly sandy loam	Wheel-line-Low Pressure	8	Sanfoin/ Grass	30	no season change	0	30	2.5	20.0
F6		Atter Stoner gravelly sandy loam	Wheel-line-LP/Handline	11.3	Grass mix	30	no season change	0	30	2.5	28.3
TOTALS				95.7							241.6

v1.0

Reduction 2020 vs 2025

Total AF estimated reduction by incorporating 2025 crop changes **32.7%**