



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	Emory and Heide Geary
Name of Farm, Ranch, or Business	GOLDEN HOOF RANCH
Phone Number	[REDACTED]
Email Address	[REDACTED]

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:

Heide D. Geary

Date:

4/12/25

Section 4: Coordinating Entity

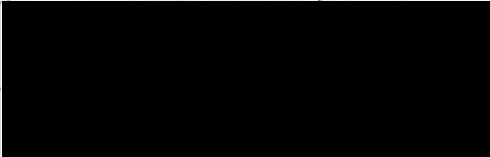
Select only one (1) box below. Please note that a Coordinating Entity is not required. If a Coordinating Entity is not selected, parties will work directly with the State Water Board to provide metering data and ensure performance of the groundwater local cooperative solution. For more information on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

- | | |
|---|---|
| <input checked="" type="checkbox"/> California Department of Fish & Wildlife
Contact: Crystal Robinson
(530) 340-0767
crystal.robinson@wildlife.ca.gov | <input type="checkbox"/> Shasta Valley Resource Conservation District
Contact: Rod Dowse
(530) 598-1253
rdowse@svrkd.org |
| <input type="checkbox"/> Siskiyou Resource Conservation District
Contact: Evan Senf
(530) 643-1585
evan@siskiyougcd.com | <input type="checkbox"/> Scott River Water Trust
Contact: Chris Voigt
(916) 396-0131
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
GHR Well 1			
GHR Pivot 1			GHR Pivot 1

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

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.

Irrigation Season 2025

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. 49 -
- 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.

See Letter

Spoke w/Cynthia Robinson @ CDFW. Will coordinate with me with Entity Docs.

- 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.

Emory and Heide Gray



April 12, 2025

State Water Resources Control Board
1001 I Street
Sacramento, CA 95814

Re: 2025 Local Cooperative Solution
Percent Reduction Groundwater LCS

To: State Water Board

We are submitting this LCS Proposal for 2025 irrigating approximately 49 acres or less depending on the conditions of the season. We have reduced our irrigation water usage by 30% by not irrigating some pastures. GH pastures # 1 and #2 were reduced to approximately half the acreage that were originally using irrigation water.

Our main field of Alfalfa is leased to Brandon Fawaz. We already have low pressure drops and drizzle emitters on those Pivots, meter at the well and the corners go dry. This field is included in whatever irrigation plan Brandon Fawaz is using.

The fields we still operate grow Fescue for hay crops and pasture for cattle raised for food. The water allotted is marginal for either crop and we have had to lessen our growing acreage to conserve water to make the reduced water percentages and still produce some crop.

We will use a pivot with a meter, wheel lines and a cannon for this irrigation season. Similar to 2024. We will report our water use monthly.
We will be using our 2024 Conservation Efforts for 2025 LCS.

The attached spreadsheet gives the reduction calculated to reduce usage by 32.1% over the 2020 usage and are described below.

2024 Conservation Efforts

- **Wheel lines** - Reduced set times. We still intend to follow the 2022 LCS that reduced our daily Wheel line set times from approximately 11 hours each (22 hours run time in 24 hours) to 10 hours each (20 hour run time in 24 hours). We will maintain a written wheel line and pivot log on run times and will present that log to the Cooperating Entity upon request.
- **Irrigation efficiencies** - 58 sprinkler heads on our wheel lines were reduced from 3/16" to 11/64".
- **Reduced Planting** - 2020 was a double crop year as both cereal grain and a grass crop was cultivated. As in 2022, 2024 will not have a second crop. This can be visually confirmed by a visual inspection from the road. Still in Fescue Grass.
- **Reduced Irrigated Acres** - We have reduced our total irrigated acreage by eliminating pasture in 2022 and will reduce some more pasture acreage for the 2024 season.


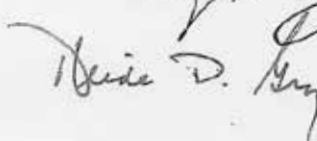
Please note this plan is offered in good faith in connection with the 2024 Irrigation season only. All rights, claims and defenses with regard to the matters described herein are hereby expressly reserved. Moreover, and as this plan is offered voluntarily, should any governmental or NGO funds later become available for any forbearance or improvement efforts to which we would otherwise be entitled, nothing herein shall be construed to limit the availability of such funds to us provided that we materially perform the 2024 LCS undertakings described herein. Water saved under this proposal will not be transferred to parcels not included under the LCS and we will not knowingly or intentionally otherwise take actions outside of the LCS that diminish, in any material way, the overall thirty percent reduction established by this proposal.

These conservation efforts can be verified on inspections conducted by the coordinating entity, hopefully scheduled to be able to provide the material to be verified as well as visual inspection, and also, to adhere to protocol for products used on the fields. Some have restricted entry protocols.

Emory and Heide Gray will be the contact people for this LCS. We can be reached by mail, the phone number listed above, and by email at [REDACTED]

Sincerely,

Emory and Heide Gray

4/12/2025

Example of log recorded weekly. Reported Monthly
Coordinating Entity can verify

Gray-LCS Monthly Irrigation Log

Field ID	Acres	Irrigation Method	Nozzles	Irrigation & Notes Log												Dates of Irrigation
G1 Pasture #1 Pond/Hous	2.5	Wheel Line + Hand Line	9													
G1 Pasture #2 Loading Shed	4	Wheel Line	14													
G1 Fescue Fescue Corner River/North East Corner	33	Pivot	2.75 Acres per 1" pass													
Fescue SHOP	4.5	Wheel Line + Hand Line	19													
Fescue Bottom River/ North West		Wheel Line	5													
Fescue Bottom Pasture	1	Wheel Line	5													
Fescue Bottom Cow Pasture		Cannon	1													

Pivot
NE corner

shop
NW Bottom

Opel Pasture
Fescue
Fescue Bottom
SW

Field ID	2020 Irrigated Acres	2020 Irrigation Method	2020 Crop Type	Calculation Factors	April 2020 Acre Feet Applied	May 2020 Acre Feet Applied	June 2020 Acre Feet Applied	July 2020 Acre Feet Applied	August 2020 Acre Feet Applied	September 2020 Acre Feet Applied	October 2020 Acre Feet Applied	2020 Total Acre Feet	2024 Irrigated Acres	2024 Irrigation Method	2024 crop type	Calculation Factors	April 2025 Acre Feet Applied	May 2025 Acre Feet Applied	June 2025 Acre Feet Applied	July 2025 Acre Feet Applied	August 2025 Acre Feet Applied	September 2025 Acre Feet Applied	October 2025 Acre Feet Applied	2025 Acre Feet
GH Pasture #1	2.5	Wheel Line + Hand line	Pasture	9 nozzles, 3/16", 60+ psi, 11 hour sets, 5 sets per pass. .73ac foot per pass	1.46	1.46	2.92	2.92	2.92	1.46	0.73	13.87	2.50	Wheel Line + Hand line	Pasture	9 nozzles, 11/64", 50 psi, 10 hour sets. .51 ac foot per pass	1.02	1.02	2.04	2.04	2.04	1.02	0.51	9.69
GH Pasture #2	4	Wheel Line	Pasture	14 nozzles, 3/16", 60+ psi, 11 hour sets, 6 sets per pass. 1.38 ac foot per pass	2.76	2.76	5.52	5.52	5.52	2.76	1.38	26.22	4.00	Wheel Line	Pasture	14 nozzles, 11/64", 50 psi, 10 hour sets, 6 sets per pass. 0.94 ac foot per pass	1.88	1.88	3.76	3.15	3.00	1.88	0.80	16.35
GH Fescue	33	Pivot Section	Fescue / Pasture / Grain	Pivot ran at 1" per pass. 2.75 acre feet per pass. 33 acres under pivot	16.50	16.50	24.75	24.75	24.75	19.25	2.75	129.25	33.00	Pivot Section	Fescue/ Hay Pasture	Pivot ran at 1" per pass. 2.75 acre feet per pass. 33 acres under pivot	11.00	11.00	17.50	17.50	17.50	13.00	2.25	89.75
GH Fescue	3.5	Wheel Line by River	Fescue / Pasture / Grain	11 nozzles, 3/16" nozzle, 60+ psi, 5 sets per pass. 11 hour sets. .89 ac foot per pass	1.78	1.78	3.56	3.56	3.56	1.78	0.89	16.91	3.50	Wheel Line by River	Fescue/ Hay Pasture	11 nozzles, 11/64", 50 psi, 10 hour sets, 5 sets per pass. .62 ac feet per pass	1.24	1.24	2.48	3.29	3.29	1.24	0.62	13.40
GH Fescue	4.5	Wheel + Hand Line by shop	Fescue / Pasture / Grain	19 nozzles, 3/16", 60+ psi, 4 sets per pass, 11 hour sets. 1.23 ac feet per pass	2.46	2.46	4.92	4.92	4.92	2.46	1.23	23.37	4.50	Wheel + Hand Line by shop	Fescue/ Hay Pasture	19 nozzles, 11/64", 50 psi, 10 hour sets, 5 sets per pass. 1.06 ac feet per pass	2.12	2.12	4.24	3.84	3.84	2.12	1.06	19.34
GH Fescue	1	Wheel Line by bottom	Fescue / Pasture / Grain	5 nozzles, 3/16", 60+ psi, 4 sets per pass, 11 hour sets. .32 ac foot per pass	0.64	0.64	1.28	1.28	1.28	0.64	0.32	6.08		Wheel Line by bottom	Fescue/ Pasture	5 nozzles, 11/64", 50 psi, 4 sets per pass, 10 hour sets. .22 ac foot per pass	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GH Fescue		Guns	Fescue / Pasture / Grain	1 Nelson 100 gun with .75" nozzle, 11 hour sets. 3 sets per pass. .77 ac per pass	1.54	1.54	3.08	3.08	3.08	1.54	0.77	14.63	1.50	Gun	Fescue/ Pasture		0.72	0.72	1.08	1.50	1.50	0.72	0.00	6.24
	48.5			TOTALS:	27.14	27.14	46.03	46.03	46.03	29.89	8.07	230.33	49.00				17.98	17.98	31.10	31.32	31.17	19.98	5.24	154.77
																30% Reduction Target = 70% of 2020 use	19.00	19.00	32.22	32.22	32.22	19.92	5.65	161.23
																Water reduced in excess of need expressed in AC Feet	1.02	1.02	1.12	0.90	1.05	0.94	0.41	6.46
																Percentage Saved	34%	34%	32%	31.96%	32.28%	33.15%	35.07%	32.81%