



## 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	Jim Harris	
Name of Farm, Ranch, or Business	California Heritage Farms	
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:

Date:

## Section 2: Application Checklist

Below is a list of items to include with your application form:

- Application Form (paper or email submittal accepted).
- If working with a Coordinating Entity (Section 4 of application), submit a signed Binding Agreement (paper or email submittal accepted).
- Supporting Information (electronic submittal only). Submit the applicable information based on selected groundwater LCS.
  - Best Management Practices Groundwater LCS (see Section 7 of application)
    - Description of how you will implement all of the required components.
    - Map(s) with each well(s), meter location(s), and field(s) labeled.
  - Graduated Groundwater Cessation Schedule LCS (see Section 8 of application)
    - Description of how you will reduce irrigation compared to standard practices on the property (e.g., practice in a similar unregulated year).
    - Map(s) designating the area where diversions will cease by the required dates, well location(s) and meter location(s), and field(s) labeled.
  - Percent Reduction Groundwater LCS (see Section 9 of application)
    - Description of verifiable water reduction actions that will be implemented.
    - Spreadsheet with monthly volumes for baseline year and current year. Use one row per irrigation method per field.
    - Map(s) with each well(s), meter location(s), and field(s) labeled.
- A description of existing and planned groundwater metering (Section 6 of application), a time schedule for additional installation or information to support a waiver request, and a plan to record metered extractions or applications weekly and to report them monthly to your Coordinating Entity and/or State Water Board.
- Groundwater Well or Metered Application Information (see Section 5 of application) (paper or email submittal accepted).



### Section 3: Requirements for All Groundwater LCS Proposals

- **Deadline:** Proposals are due to the State Water Board by April 15, 2025.
- **Implementation:** Proposals must be implemented during the entirety of one or more irrigation seasons (including the time prior to approval), unless the applicant withdraws the application.
- **Metering:** Proposals must include a description of metering that will be used to measure groundwater well extractions or applications covered under the LCS and information on how extractions and/or applications will be recorded weekly and reported monthly to the Deputy Director (or Coordinating Entity, if so agreed). Please note the Coordinating Entity is required to provide this data to the State Water Board.
  - Funding for Meters: The State Water Board has limited funding and technical support available for some amount of metering and those interested in such assistance should promptly contact State Water Board staff using the "Contact Information" at the end of this application.
  - Time Schedule for Metering: All applicants should have the required metering equipment installed and operating before the start of irrigation season so that all groundwater extractions or applications covered by the LCS are metered.
  - Waivers: Proposals may include information requesting waiver of the metering provisions in the following instances:
    - Groundwater wells that irrigate less than 30 acres. Information supporting the request to waive metering provisions must be provided, including the distance of the groundwater well to surface water. The State Water Board may require other information in lieu of monitoring.
    - Metering is not feasible. Substantiation for the infeasibility of installing a meter must be provided. This includes feasibility evaluation of installing a meter at the well(s) and at the place(s) of use (e.g., pivot).

## Section 4: Coordinating Entity

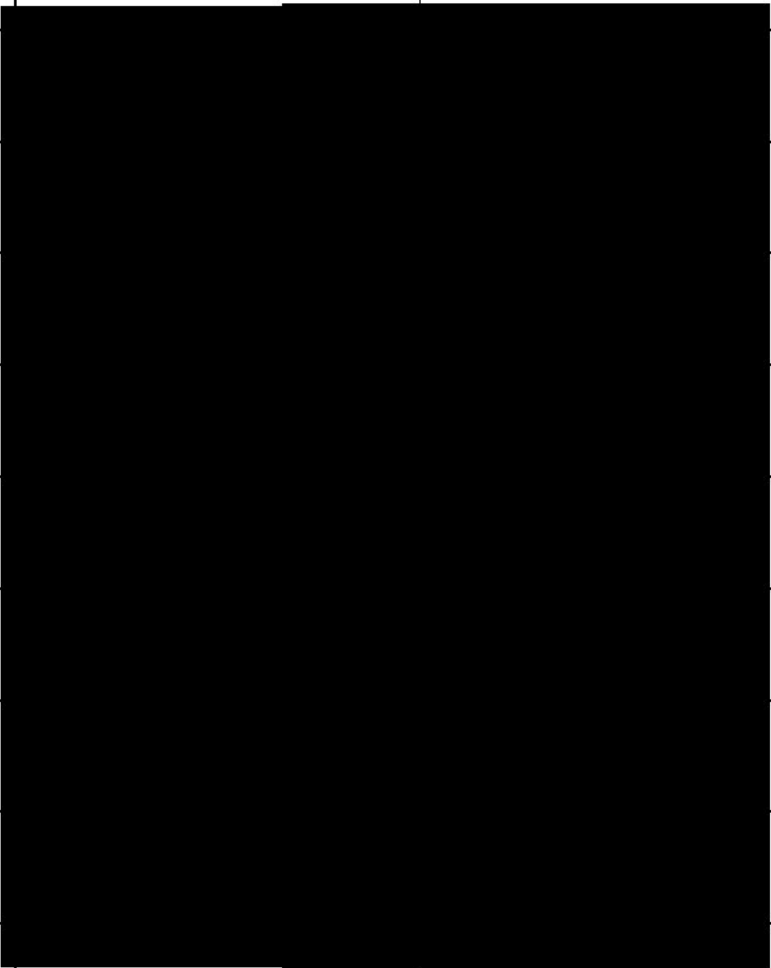
Select only one (1) box below. Please note that a Coordinating Entity is not required. If a Coordinating Entity is not selected, parties will work directly with the State Water Board to provide metering data and ensure performance of the groundwater local cooperative solution. For more information on 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@siskiyoucd.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
			1
			Waiting on SWB to install.
			Waiting on SWB to install.
			1
			1
			1
			1
			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."*

See attached

- 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.

See attached

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**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.

One season
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## Section 7: Best Management Practices Groundwater LCS

1. Provide the total amount of all irrigated acreage (with units) covered under your proposal for a Best Management Practices Groundwater LCS:
2. Write in the box and/or email a description of the irrigation system that will be used under this proposal, specifying details of your low-energy precision application system, soil moisture sensors, and any corners that will be irrigated. (Refer to Section 875(f)(4)(D)(vii) of the [emergency regulation](#).)

3. Please include a map(s) of each field with labels for well(s), meter(s), and field crop type.

4. Certify all of the following by initialing or checking each box:

- ☐ a. I certify the use of a low-energy precision application (LEPA) system on all irrigated acreage covered under this groundwater LCS.
- ☐ b. I certify to not use end guns for irrigation for the duration of the season.
- ☐ c. I certify to cease irrigation of corners after June 15, 2025.
- ☐ d. I certify to use soil moisture sensors to inform irrigation timing, and maintenance of such records, which I will make available for inspection by the Coordinating Entity, if applicable, and/or the State Water Board.
- ☐ e. I certify that I will further limit irrigation based on water year, in the event of the hydrologic condition noted in i or ii below. If this requirement is triggered, the State Water Board will inform all Best Management Practices Groundwater LCS applicants for the applicable watershed(s).
  - i. Scott River Watershed: Snow pack of 80% or less of the Department of Water Resources California Data Exchange Center's first May snow water equivalent station average (or the average of the first April measurement if May snow pack measurements are not gathered) in Scott River watershed.
  - ii. Shasta River watershed: A water year determination of dry or very dry in the Shasta River watershed, as determined under Table 2 of the March 2021 Montague Water Conservation District water operation plan.



## Section 8: Graduated Groundwater Cessation Schedule LCS

A Graduated Groundwater Cessation Schedule LCS may be approved if the applicant agrees to a below schedule AND provides evidence that irrigated acreage is reduced compared to standard practice on the property (e.g., practice in a similar unregulated year). Under this groundwater LCS type, the applicant must select one of two potential irrigation schedules, listed below. See section 875(f)(4)(D)(vi) of the [emergency regulation](#).

1. Provide the total amount of irrigated acreage (with units) under your proposal for a Graduated Groundwater Cessation Schedule LCS:
2. Select the irrigation schedule you certify to implement.

☐

**Option 1:** By the dates below, pumping to irrigate the following percentages of irrigated acres shall cease:

- 15% by July 15,
- 50% by August 15, and
- 90% by August 31, with a maximum of 8 inches of water to be applied to the remaining 10% of irrigated acres during the remainder of the irrigation season. This 10% can be on land previously fallowed.

☒

**Option 2:** By the dates below, pumping to irrigate the following percentages of irrigated acres shall cease:

- 20% by July 20,
- 50% by August 20, and
- 95% by September 5, with a maximum of 6 inches of water to be applied to the remaining 5% of irrigated acres during the remainder of the irrigation season. This 5% can be on land previously fallowed.

4. Please write in the box or include a description that demonstrates that the proposal reduces irrigation as compared to standard practices on the property (e.g., practice in a similar unregulated year). If applicable, please take crop rotation and number of alfalfa cuttings into account.

See Attached

5. Please include a map(s) that identifies the well(s), meter(s), and which field(s) are associated with each cessation date covered by this groundwater LCS.

## 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.
- 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.

- 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.

## **Submission of Groundwater LCS Proposal to State Water Board**

A groundwater LCS may require the applicant to attach or email additional information, such as descriptions, spreadsheets, maps, or other relevant information. State Water Board staff request descriptions be submitted as Microsoft Word (.docx, .doc) or Adobe PDF (.pdf) files as these file formats are easiest for staff to work with applicants to review and revise, if needed. For the same reasons, staff request that applicants submit spreadsheets as Microsoft Excel files (.xlsx, .xls).

Submitting documents in other formats, such as photographs of narratives or narratives via traditional mail may lengthen the review process. If you need assistance, please contact your Coordinating Entity (see Section 4) or State Water Board staff identified in the Contact Information section below.

To submit your application with all 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 - 14<sup>th</sup> Floor  
Sacramento, CA 95814

### **Contact Information for State Water Board Staff**

- Rachel Wright  
Phone: (916) 322-8420  
Email: Rachel.Wright@waterboards.ca.gov
- Robert Solecki  
Phone: (916) 341-5400  
Email: Robert.Solecki@Waterboards.ca.gov
- Division of Water Rights – Scott-Shasta Phone Line and Email  
Phone: (916) 327-3113  
Email: DWR-ScottShastaDrought@Waterboards.ca.gov

### **What's Next?**

State Water Board staff will review each groundwater LCS application. If staff identify errors, a need for additional information, or changes that need to be made, they will contact the applicant. Once staff determine the application is substantially complete, it will be posted as pending on the State Water Board's [Local Cooperative website](#) for the Scott River and Shasta River watersheds emergency regulation.



# California Heritage Farms

[REDACTED]

[REDACTED]

[REDACTED]

April 15, 2025

**State Water Resources Control Board**

**1001 I St.**

**Sacramento, CA 95814**

**Re: Local Cooperative Solution- California Heritage Farms, LLC**

To Deputy Director:

As authorized by 23 CCR §§ 875(f)(4)(D), California Heritage Farms LLC is providing this letter to further describe its proposed local cooperative solution (LCS) for the 2025 irrigation season.

## Introduction

California Heritage Farms (CHF) leases approximately 719 acres of irrigated land (alfalfa and permanent pasture) in the Scott River water shed. CHF raises high quality feed store hay, pasture-based hogs, and grass-fed cattle and uses rotational grazing, planting of cover crops to improve soil health, and water holding capacities. Siskiyou County spray maps of land leased by California Heritage Farms are attached. The 719 irrigated acres are irrigated by wheel lines and pivots using ground water wells. Water rights consist of overlying and adjudicated rights. No surface water will be substituted for the groundwater reductions listed out in this plan.

## Conservation Efforts and Improvements

1. **LEPA System Installation:** In the spring of 2020 we retrofitted an 8-span pivot to the Low Energy Precision Application (LEPA) system. In the spring of 2025 we have installed 2 more pivots with LEPA and will add one more pivot with the LEPA system

in the fall of 2025. The LEPA system utilizes very low pressure “bubbling” nozzles (as opposed to high pressure rotating nozzles that disperse water over a larger area) that result in far less wind loss and more precise and effective water application. LEPA manufacturer’s estimate that total water savings of up to 18% is achievable based on reduced wind drift and less frequent irrigation. Soil moisture sensors installed in 2021 document this response. The introduction of the LEPA system and soil moisture sensors have created further opportunities for us to conserve water.

## **2025 Water Plan**

- a.** For 2025 California Heritage Farms will use the graduated groundwater cessation schedule option 2. This practice will reduce irrigation compared to standard year by the following. In 2017, we started planting cover crops after our grain crops were harvested. This was done for numerous reasons; reduces soil erosion, helps with water hold capacity by building soil organic matter, and building soil health by having multiple plant varieties in the soil. For 2025 we will be forgoing planting 171 acres to cover crops after we have harvested our grain crops which will lead to soil erosion, dead soil from not having a living plant in it and the use of more synthetic fertilizers.
- b.** Shutting off water on 34ac of pasture on 8/20/25. On a standard year irrigation would continue until late September. It is to note that this will more than likely lead to pasture loss. Pasture needs a baseline water usage of around 40 inches of water.
- c.** We will be fallowing 34.5 acres (30.5 ac of wheel line and 4 ac of Pivot) of land that was previously irrigated by wheel line and pivot in 2020.
- d.** The Coordinating Entity to ensure implementation of the LCS will be a contractor with the Scott River Water Trust.

### **2. 2025 Proposed Metering Actions:**

McFadden Ranch has a total of 3 wells. All 3 wells feed a pivot that covers 170.5 or 91% of the irrigated ground out of a total of 188ac. It is not cost effective to meter all 3 wells. This pivot is having a new meter installed and will be used to report pumping volumes monthly. The meter will have a reading taken on the 1st of each month and reported by Jim Harris to the Scott River Water Trust monthly.

- 3.** Whipple's: All three wells are recorded and reported to the State Water Board annually. Of the 3 wells the big well is metered and recorded monthly by Jim Harris. For the other 2 well we have applied for assistance from the SWB to install a meters.

All recordings will be taken monthly by Jim Harris and reported to the Scott River Water Trust.

4. **Non metered wells:** Acreage not being metered is 197. At the Berry Patch Ranch for meters to be placed on these two wells there will have to be a major overhaul of the pumping system and it is not financially feasible. In the spring of 2025, we will be installing a new pivot that will cover 50ac that will have a meter installed on it. Also, at that time a meter will be installed on the existing pivot. These two pivots will cover 110ac out of the 197 total acers.
5. Please note that this plan is offered in good faith in connection with the 2025 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 (without any current legal obligation to undertake the matters described herein), should any governmental or NGO funds later become available for any forbearance or improvement efforts to which the California Heritage Farms, LLC would otherwise be entitled, nothing herein shall be construed to limit the availability of such funds to the California Heritage Farms, LLC provided that we materially perform the 2025 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.

It is important to note that these proposed water conservation measures will greatly impact our overall crop production, decrease in our operations income, and limit our ability to implement additional healthy soil practices as well as impacted the overall economy of Scott Valley.

Please timely advise as to your decision on the acceptability of this plan in lieu of regulatory curtailment as contemplated by Title 23, Article 23.5, Section 875 and thank you for your consideration in this matter.

Please feel free to contact me with any questions.

Regards,

California Heritage Farms







# Scott River Water Trust

P.O. Box 591 ~ Etna, CA 96027  
530-643-2395 [scottwatertrust@gmail.com](mailto:scottwatertrust@gmail.com)

Month, Day, Year

4/14/25

## APPLICATION TO SCOTT RIVER WATER TRUST AS COORDINATING ENTITY for the SCOTT VALLEY GROUNDWATER REDUCTION LOCAL COOPERATIVE SOLUTION

The following request is being submitted pursuant to Section 875, , subdivision (f)(4)(C)[Scott River] of the Scott-Shasta Drought Emergency Regulation of the State Water Resources C ~~Board~~ (SWB). The purpose of this Local Cooperative Solution (LCS) is to document the applicant's proposed reduction in use of overlying or adjudicated groundwater use by a certain amount over the entire irrigation season.

Applicant's Name: California Heritage Farms

Address: [REDACTED]

Phone: [REDACTED]

E-mail: [REDACTED]

Owner of property (if different):

Leaseholder of property (if different): California Heritage Farms

Other Contact Info: Jim Harris

Total irrigated acres to be included in this agreement: 719

► Attach curtailment plan and map of properties to be included in plan

I agree to pay SRWT for its time to help prepare my water reduction plan at the rate of \$75/hr. When your LCS plan is complete, a Binding Agreement will need to be signed with the SRWT as your designated C ~~ordinating~~ Entity. SRWT will need to verify that the plan's actions are being met.

Jim Harris

Jim Harris (Apr 15, 2025 16:22 PDT)

► Applicant signature

4/14/25

Date:

Christopher Voigt

Scott River Water Trust signature

Date: 4/14/2025

## Wright, Rachel @Waterboards

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**From:** Jim Harris <[REDACTED]>  
**Sent:** Thursday, June 26, 2025 8:14 AM  
**To:** WB-DWR-ScottShastaFlows  
**Subject:** Re: Updated LCS for California heritage farms.  
**Attachments:** 2025\_SprayPermit\_Kraus&Sons.pdf; 2025 Plan.xlsx  
  
**Categories:** Rachel Wright

Rachel, please find attached the updated water spreadsheet with the added acreage. Maps are also attached. There will be no metering on this added acreage as the leases are for only one year and it is not financially feasible for California Heritage Farms as the lessee to pay the expense to install metering systems. There has to be some major work to be done on both irrigation systems for metering to work. Not to mention at the moment we are waiting on meters to arrive that were ordered months ago for other properties on our plan.

Thank you and my apologies that this took so long to get to you.

On Thu, Jun 26, 2025 at 7:30 AM Jim Harris <[REDACTED]> wrote:  
Good morning, I will be sending it over today.

On Wed, Jun 25, 2025 at 3:01 PM WB-DWR-ScottShastaFlows <[DWR-ScottShastaFlows@waterboards.ca.gov](mailto:DWR-ScottShastaFlows@waterboards.ca.gov)> wrote:

Hi Jim,

Please send your updated plan as soon as you can, by July 1<sup>st</sup> if possible. We cannot continue processing your application until we have it.

Thank you,

Rachel

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**From:** Jim Harris <[REDACTED]>  
**Sent:** Tuesday, June 3, 2025 7:35 PM  
**To:** WB-DWR-ScottShastaFlows <[DWR-ScottShastaFlows@Waterboards.ca.gov](mailto:DWR-ScottShastaFlows@Waterboards.ca.gov)>  
**Subject:** Re: Updated LCS for California heritage farms.



Site	Wells	Acreage	Crop	Method	July 20th Shut off of 20%	August 20th shut off 50%	September 5th Shut off 95%	Leased/ Owned	APN #/DWR #	Type of water right
Whipple's										
Field W1-03		103	Alfalfa	Wheel line		20		53 Leased		Adjudicated
Field W1-04,05		54	Alfalfa Grass	Wheel line		2		52 Leased		Adjudicated
Field W1-06,07		60	Alfalfa	Wheel line		8		52 Leased		Adjudicated
Field W1-09		76	Grain	Pivot	76	0		Leased		Adjudicated
Field W1-09Corner		0	Grain	Wheel line		0		Leased		Adjudicated
Field W1-11 Guns		4	Alfalfa	Guns	4	0		Leased		Adjudicated
Field W1-11 Fert		14	Alfalfa	Wheel line		14		0 Leased		Adjudicated
Field W1-11 Pivot		0	Alfalfa	Pivot		0		0 Leased		Adjudicated
Field W1-12		22	Alfalfa	Wheel line		0		22 Leased		Adjudicated
Field W1-13		75	Alfalfa	Pivot		0		75 Leased		Adjudicated
Field W1-14		54	Alfalfa	Wheel line		4		54 Leased		Adjudicated
Berry Patch										
Field 5-01,02,03		0	Grain	Pivot		0		Owned		Overlying
Field 5-04		18	Alfalfa	Wheel line		18		0 Leased		Overlying
Field 5-05		12	Alfalfa	Wheel line		2		0 Owned		Overlying
Field 5-06		38	Alfalfa	Pivot		0		38 Owned		Overlying
Field 5-06 Cornes		2	Alfalfa	Wheel line		2		0 Owned		Overlying
Field 5-07		0	Pasture	Wheel line		0		0 Owned		Overlying
Field 5-08A		0	Grain	Pivot		0		0 Owned		Overlying
Field 5-08,09		38	Alfalfa	Wheel line	5	33		Owned		Overlying
McFadden's										
Field 3-01,02		0	Fallow	Pivot		0		Leased		Overlying
Field 3-01,02		50	Alfalfa	Pivot		0		50 Leased		Overlying
Field 3-01,02 Wheel line		10	Alfalfa	Wheel line		10		0 Leased		Overlying
Field 3-03 Corner		0	Grain	Wheel line		0		Leased		Overlying
Field 3-03 Corner 2		4.5	Fallow	Wheel line	4.5	0		Leased		Overlying
Field 3-03		41	Grain	Pivot	41	0		Leased		Overlying
Field 3-04		12	Pasture	Wheel line		9		Leased		Overlying
Field 3-05		31.5	Pasture	Pivot		31.5		Leased		Overlying
Kraus										
Field 1-01		18	Alfalfa	Wheel line		18		Leased	Not sure working on getting	
Field 1-01A		5	Alfalfa	Wheel line	5			Leased		
Field 1-02		27	Alfalfa	Wheel line		27		Leased		
Field 1-02A		8	Alfalfa	Wheel line	8			Leased		
Field 1-03		60	Alfalfa	Pivot/Wheel line		2.5	57.5	Leased		
Field 1-04A		25	Pasture	Pivot		25		Leased		
Field 1-04		85	Alfalfa	Pivot/Wheel line		85		Leased		
Field 1-05		15	Alfalfa	Wheel line		15		Leased		
Field 1-06		3	Wheat	Hand line	3			Leased		
Field 1-08		1	Alfalfa	Hand line	1			Leased		
Hurds Gluch										
Field 5-01		30	Wheat	Wheel line	30		0	Leased		
Field 5-02		25	Alfalfa	Wheel line	10	5	10	Leased		
Field 5-03		35	Alfalfa	Wheel line		0	21	Leased		
Field 5-05		16	Alfalfa	Wheel line	16			Leased		
Field 5-06		3.5	Alfalfa	Wheel line	3.5			Leased		
Total		1075.5			216	322	484.5			
					20.08368201	538	1022.5			
						50.023245	95.07205951			

