



# Application Form for 2024 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 2024 irrigation season under the Scott River and Shasta River watersheds [emergency regulation](#). A separate application should be submitted for each type of groundwater LCS proposal. **The form and attachments are due by April 15, 2024.**

**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](mailto:DWR-ScottShastaDrought@waterboards.ca.gov)
- Mail:
  - State Water Resources Control Board
  - Division of Water Rights - Instream Flows Unit 1
  - 1001 I Street - 14th Floor
  - Sacramento, CA 95814

## Section 1: Applicant Information

Name	BOB DAWS
Name of Farm, Ranch, or Business	BOB DAWS/LESINA
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: BOB DAWS

Date: 04/12/2024

## 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 of all required components.
    - Map(s) with each well and field 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 and well location(s).
  - Percent Reduction Groundwater LCS (see Section 9 of application)
    - Description of verifiable water reduction actions that will be implemented.
    - Spreadsheet with monthly pumping volumes for baseline year and current year. Use one row per irrigation method per field.
    - Map(s) with each well and field labeled.
- A description of metering (Section 6 of application) in place for groundwater well extractions and an agreement to record such extractions daily and report monthly to your Coordinating Entity and/or State Water Board.
- Groundwater Well Information (see Section 5 of application) (paper or email submittal accepted).
- List of Fields, Assessor's Parcel Numbers (APNs), and Water Rights (see Section 10 of application) (paper or email submittal).

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

- **Deadline:** Proposals must be submitted to the State Water Board by April 15, 2024.
- **Implementation:** Proposals must be implemented during the entirety of the irrigation season (including 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 and information on how extractions will be recorded daily and reported monthly to the Deputy Director or Coordinating Entity, as applicable. Please note the Coordinating Entity is required to provide this data to the State Water Board.
  - Funding for Meters: The State Water Board has 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: If a meter is not currently installed and may not be installed prior to the start of the irrigation season, the applicant must provide information that substantiates the applicant's efforts and actions taken to get a meter installed, and a timeline for meter installation.
  - 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 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.

## 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](#).

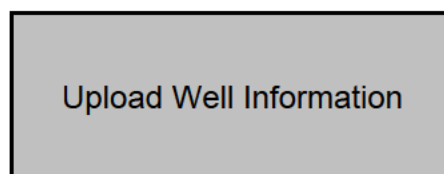
- |  |  |
|--|--|
| <input type="checkbox"/> California Department of Fish Wildlife<br>Contact: Crystal Robinson<br>(530) 340-0767<br>crystal.robinson@wildlife.ca.gov | <input type="checkbox"/> Shasta Valley Resource Conservation District<br>Contact: Rod Dowse<br>(530) 598-1253<br>rdowse@svrccd.org |
| <input type="checkbox"/> Siskiyou Resource Conservation District<br>Contact: Evan Senf<br>(530) 643-1585<br>evan@siskiyourcd.com                   | <input type="checkbox"/> Scott River Water Trust<br>Contact: Chris Voigt<br>(916) 396-0131<br>chrisb.voigt@gmail.com               |
|  | <input type="checkbox"/> I select not to work with a coordinating entity.  |

## Section 5: Groundwater Well Information

Complete the table below or upload an attachment for groundwater wells that are part of the proposed groundwater LCS.

Well Name	Well Coordinates <sup>1</sup>
DAWS	[REDACTED]
LESINA	[REDACTED]

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 for all groundwater wells covered by this groundwater LCS. Fill in the box below, upload an attachment, or email a document or spreadsheet with this information.

- a. Describe how you will record daily extractions and report monthly pumping volumes. Include a description of all water uses associated with each groundwater well that is part of this groundwater LCS.

For example, "the ranch manager will log meter readings at Well 1 and Well 2 and take a picture of the meters each week. They will note what the water is being used for - Well 1 will irrigate 50 acres of grain on fields A and B, 100 acres of pasture on fields E, G, and Z, and Well 2 will irrigate 75 acres of alfalfa on field Y. The manager will send the logs and photos to the Water Board around the first of each month."

The ranch manager will log meter readings at Well Daws and Well Lesina and take a picture of the meters each week. They will note what the water is being used for- Well Daws will irrigate 40 acres of grass/alfalfa on field 2-01 and 40 acres of alfalfa on field 2-01A. Well Lesina will irrigate 27 acres of alfalfa on field 2-01C. The manager will send the logs and photos to the Water Board around the first of each month.

- b. For groundwater wells that are NOT currently metered, please describe the time schedule and plan to install meters and efforts to obtain a meter before the initiation of groundwater diversions covered by this groundwater LCS. 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) should be waived. Be sure to include total irrigated acres, distance of the well(s) from surface water, description of why metering is infeasible, if applicable, and any additional information that supports your waiver request.

I would like to request that well meters be waived. The infrastructure and power lines of these wells are underground. Installing meter would be difficult. The main line and power supply would need to be altered and relocated above ground. The pivot located in field 2-01C (27 acres) has a meter installed. Should this waiver be approved, we will install a meter on the pivot that waters field 2-01(40 acres) and 2-01A (40 acres). There is no surface water near this location.

Upload Attachment

Select the type of groundwater LCS you are applying for and complete the corresponding sections of the application.

- Best Management Practices Groundwater LCS - Complete sections 7 and 10
- Graduated Groundwater Cessation Schedule LCS - Complete sections 8 and 10
- Percent Reduction Groundwater LCS - Complete sections 9 and 10

## 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. Upload an attachment, 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. Provide a map(s) of each field with labels for well(s), type of best management practice, and field crop type. Upload as an attachment or email.

**Upload Map(s)**

4. Certify 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, 2024.
- 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). Please note, a yes certification is required for a Groundwater Best Management Practices LCS to be accepted.
  - 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 provides evidence that irrigated acreage is reduced compared to standard practice on the property (e.g., practice in a similar unregulated year). If applicable, please take crop rotation and number of alfalfa cuttings into account. 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 upload an attachment, write in the box, or email 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.

5. Please upload or email a map(s) that identifies which well(s) and 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 30% throughout the irrigation season (April 1 – October 31) and a monthly reduction of 30% between July 1 through October 31.
- **Shasta River Watershed:** A net groundwater pumping reduction of 15% throughout the irrigation season (March 1 – November 1) and a monthly reduction of 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, attach or email 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.

Replaced all pivot nozzles to low pressure nozzles. We eliminated water on low production fields and utilized crop rotation to lower water usage.

- 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 labelled.

### Section 10: List of Fields, APNs, and Water Rights

List the fields associated with this groundwater LCS application, if each property is owned or leased, and the assessor's parcel number (APN) that contains each field. If a field is on multiple parcels, provide the APN that contains the majority of the field. Alternatively, you may also electronically submit a document or spreadsheet with this information. Each field can only have **one (1)** type of groundwater LCS associated with it.

Irrigated Field Name(s) or Number(s)	Is the parcel owned or leased?	Assessor Parcel Number(s)	Water Right(s)	Groundwater LCS Type
2-01	Owned	[REDACTED]		Percent Reduction
2-01A	Leased			Percent Reduction
2-01C	Leased			Percent Reduction

Upload Attachment

## 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

- Kevin DeLano  
Phone: (916) 319-0631  
Email: Kevin.DeLano@waterboards.ca.gov
- Shahab Araghinejad  
Phone: (916) 319-0975  
Email: shahab.araghinejad@waterboards.ca.gov
- Division of Water Rights – Scott-Shasta Phone Line and Email  
Phone: (916) 327-3113  
Email: 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.

Bob Daws Ranch



April 24, 2022

State Water Resources Control Board  
1001 I St.  
Sacramento, CA 95814

RE: 2022 Local Cooperative Solution

The Bob Daws Ranch is providing this letter to further describe its proposed Local Cooperative Solution (LCS) actions for the 2022 irrigation season as authorized by 23 CCR 875(f)(4)(D).

**Current Practices**

We irrigate 151 acres of which, 105 acres is alfalfa for hay, 40 acres is grass alfalfa for hay, and six acres is grain for hay. There is no access to surface water for irrigation. Irrigation infrastructure for hay ground includes three agriculture wells that supply the following areas and irrigation equipment:

Pivot (approximately 80 acres)

Pivot was installed in 2005, replacing two, 1900 foot wheel lines. The pivot services approximately 80 acres.

Wheel lines (approximately 66 acres)

Wheel lines (i.e. long mobile pipe sets, moved manually during irrigation season) service approximately 66 acres. Each wheel line is moved manually at approximately 6am and 6pm resulting in two approximate 11 hour operation periods (22 hours run time) in a 24 hour period.

Irrigation season for our hay operation, (including the 2020 base year), typically begins about April 1 each year and continues into August. These time frames are subject to variances that depend on annual temperature and precipitation conditions.

**Specific Local Conservation Solutions (LCS) for the 2022 Irrigation Season**

Pivot

40 acres of the 80 acres covered by the pivot will be put into grain. This will result in only one cutting for this 40 acre portion. This eliminates 40 acres of irrigation for an additional cutting as done in prior years.

This practice can be verified by drive-by inspection from the road.

### Wheel lines

We do not intend to irrigate 36 acres that is under wheel line irrigation. These fields produced two, 30 acres cuttings of alfalfa and one 6 acre cutting of grain hay.

The remaining 30 acres of wheel line irrigation will be put into grain, resulting in only one irrigated cutting.

These practices can be verified by drive-by inspection from the road.

By reducing our wheel line irrigated ground and the number of cuttings by rotating to grain, we will be eliminating approximately 96 irrigation acres.

**Water Usage 2020 vs 2022 (LCS)**

**Year 2020**

<b>Field</b>	<b>Parcel #</b>	<b>Crop</b>	<b>Cuttings</b>	<b>Water Usage</b>	<b>Acres</b>	<b>Total Water Usage</b>
2-01	██████████	alfalfa	3	1 acre ft.	45	45 acre ft.
2-01A	██████████	grass/alf	2	0.67 acre ft.	40	26.67 acre ft.
2-01B	██████████	grain	1	0.33 acre ft.	6	2 acre ft.
2-01C	██████████	alfalfa	2	.67 acre ft.	30	20 acre ft.
2-03	██████████	alfalfa	2	.67 acre ft.	20	13.33 acre ft.
2-05	██████████	alfalfa	2	.67 acre ft.	10	6.67 acre ft.
<b>Total</b>						<b>113.67 acre ft.</b>

**Year 2022**

<b>Field</b>		<b>Crop</b>	<b>Cuttings</b>	<b>Water Usage</b>	<b>Acres</b>	<b>Total Water Usage</b>
2-01	██████████	alfalfa	3	1 acre ft.	45	45 acre ft.
2-01A	██████████	grain	1	0.33 acre ft.	40	13.33 acre ft.
2-01C	██████████	grain	1	0.33 acre ft.	30	10 acre ft.
<b>Total</b>						<b>68.33 acre ft.</b>

**This shows a 39.9% water use reduction from Year 2020 going into 2022**

## Monthly Breakdown of Water Usage 2020 vs 2022 (LCS)

Site	Acreage	Crop	2020 Irrigation Method	April	May	June	July	August	2020 Annual total
Field 2-01	45	Alfalfa	Pivot	7.5	7.5	10.29	10.29	9.42	45
Field 2-01A	40	Grass/Alfalfa	Pivot	6.67	6.67	9.14	4.19	0	26.67
Field 2-01B	6	Grain	Wheel line	0.63	0.65	0.64	0.08	0	2
Field 2-01C	30	Alfalfa	Wheel line	5	5	8	2	0	20
Field 2-03	20	Alfalfa	Wheel line	3.335	3.335	4.56	2.1	0	13.33
Field 2-05	10	Alfalfa	Wheel line	1.66	1.67	2.29	1.05	0	6.67
			2020 Monthly total acre feet:	24.795	24.825	34.92	19.71	9.42	
									113.67
Site	Acreage	Crop	2022 Irrigation Method	April	May	June	July	August	2022 Annual total
Field 2-01	45	Alfalfa	Pivot	8.82	7.46	12.86	10.29	5.57	45
Field 2-01A	40	Grain	Pivot	4.39	4.55	4.39	0	0	13.33
Field 2-01C	30	Grain	Wheel line	3.48	3.62	2.9	0	0	10
			2022 Monthly total acre feet:	16.69	15.63	20.15	10.29	5.57	
									68.33
			<b>Reduction Percent:</b>	<b>32.70%</b>	<b>37.00%</b>	<b>42.30%</b>	<b>47.80%</b>	<b>40.87%</b>	<b>39.90%</b>

Water usage totals under pivot irrigation are figured using pivot calibration. All wheel line irrigation totals are figured using a two inch per 10 hour set approximation. These methods were also used to calculate the annual water usage.

## **Local Cooperative Solution (LCS) Comments**

The voluntary reduction of water usage will greatly affect Bob Daws Ranch farming operation. It decreases our income which provides for higher production cost, inflation, and debt payments. These will greatly affect the potential for a reasonable profit margin.

Bob Daws Ranch is voluntarily participating in this LCS of a minimum 30% water usage reduction. Even with the likelihood of another drought, conditions will not improve until the drought is over.

This plan is only for the 2022 irrigation season. If any government or NGO funds become available, Bob Daws Ranch should be entitled to them because of its voluntary efforts.

Bob Daws Ranch agrees not to transfer any water to another parcel not included in this LCS.

Bob Daws Ranch also requests that anyone from the State Water Board or other affiliated agency must be accompanied by a representative of said ranch to check on LCS practices on the ranch property.

**May 11, 2023**



## Addendum for 2023

### Year 2023

Field		Crop	Cuttings	Water Usage	Acres	Total Water Usage
2-01	██████████	alfalfa	3	.874 acre ft.	45	39.3
2-01A	██████████	alfalfa	2	0.58 acre ft.	40	28.8
2-01C	██████████	grain	1	0.33 acre ft.	30	10.1
					<b>Total</b>	<b>78.2</b>

This shows a 31.2% water use reduction from Year 2020 going into 2023

Site	Acreage	Crop	2023 Irrigation Method	April	May	June	July	August	2022 Annual total
Field 2-01	45	Alfalfa	Pivot	8.82	7.46	12.86	6.9	3.29	39.33
Field 2-01A	40	Alfalfa	Pivot	4.76	6.3	7.63	6.9	3.29	28.88
Field 2-01C	30	Grain	Wheel line	3.48	3.62	2.9	0	0	10
			2022 Monthly total acre feet:	17.06	17.38	23.39	13.79	6.58	
									78.21
			<b>Reduction Percent:</b>	<b>31.2%</b>	<b>30.0%</b>	<b>38.3%</b>	<b>30.04%</b>	<b>30.15%</b>	<b>31.2%</b>

Water usage totals under pivot irrigation are figured using pivot calibration. All wheel line irrigation totals are figured two inch per 10 hour set approximation. These methods were also used to calculate the annual water usage.

**Local Cooperative Solution (LCS)**  
**McAdams Creek & Moffett Creek Participants**

Bob Daws Ranch



(SG003705- Bobby and Sue Daws Trust, SG003707- Robert Lesina Trust)



## April 2024 Summary

Field 2-01 and 2-01A was watered by *Pivot-Daws*. There was a total of one inch of water covering all 80 acres. This converts to 2172342.88 gallons of water for the month of April. This calculation was done utilizing the settings on the pivot and a conversion calculator. We are in the process of having a meter installed at *Pump-Daws*.

The total gallons of water released during the month of April was 2172342.88.

Field 2-01C/B was watered by *Pivot-Lesina*. This is a newly installed pivot therefore it has only run test cycles. This pivot pump has a meter installed. All current and future measurements will be calculated by the meter.

The total gallons of water released during the month of April was 23.092283.



*photos were taken 05/01/2024*

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
2-01	45	Pivot	Alfalfa		7.5	7.5	10.29	10.29	9.42	0	0	45	45
2-01A	40	Pivot	Grass/Alfalfa		6.67	6.67	9.14	4.19	0	0	0	26.67	40
2-01B	6	Wheel line	Grain		0.63	0.65	0.64	0.08	0	0	0	2	6
2-01C	30	Wheel line	Alfalfa		5	5	8	2	0	0	0	20	30
2-03	20	Wheel line	Alfalfa		3.335	3.335	4.56	2.1	0	0	0	13.33	0
2-05	10	Wheel line	Alfalfa		1.66	1.67	2.29	1.05	0	0	0	6.67	0
	151			TOTALS:	24.795	24.825	34.92	19.71	9.42	0	0	113.67	121
				TOTALS IN GALLONS:	8079486.18	8089261.72	11378731.89	6422531.66	3069520.46	0	0	37039531.88	

2024 Irrigation Method	2024 Crop Type	Calculation Factors	April 2024 Gallons Applied	May 2024 Gallons Applied	June 2024 Gallons Proposed	July 2024 Gallons Proposed	August 2024 Gallons Proposed	September 2024 Gallons Proposed	October 2024 Gallons Proposed	2024 Gallons	Soil Moisture Sensor Installed
Pivot-Daws	Alfalfa		1086171.6	2443885.65	0	0	0			3530057.25	
Pivot-Daws	Grass/Alfalfa		1086171.6	2172342.8	0	0	0	0	0	3258514.4	
Pivot-Lesina	Alfalfa		0	325851.42	0	0	0	0	0	325851.42	
Pivot-Lesina	Alfalfa		23.092283	2791.5304	0	0	0	0	0	2814.622683	
			0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	
			2172366.292	4944871.4	0	0	0	0	0	7117237.693	
		30 % Reduction Target Monthly = 70% of 2020 use	5655640.326	5662483.204	7965112.323	4495772.162	2148664.322	0	0	25927672.34	
		30% Target Needed for annual reduction								25927672.32	
		Water reduced in excess of need expressed in gallons								18810434.62	
		Percentage Saved								80.78475258	