

Local Cooperative Solution for the Scott River Watershed

My family and I own and operate a 980 acre ranch in Scott Valley. Our operation consists of an organic dairy, beef ranch, and hay and pasture that we raise solely for our livestock. As an organic livestock operation, we are required to have 30% of our feed come from pasture.

Our adjudicated water rights are as follows:

BIG SLOUGH

(2nd) 4.13 CFS (289 acres)

GREENVIEW TOWN DITCH

(3rd) 2.63 CFS (118 acres)

LOWER KIDDER CREEK

(4th) 3.42 CFS (171 acres)

(1st) 6.73 CFS (471 acres)

WRIGHT AND FLETCHER DITCH (pre 1914)

(2nd) aprox 10 CFS (391 acres)

We are predominately using our first priority right to wells from lower Kidder Creek. We irrigate approximately 249 acres with wheelines, big guns, K-lines and pivots. Another 100 acres can be flood irrigated with water from diversion 455-7 when water is available. We will use the 2020 season for comparison because of the mandatory shut off in season 2021.

We have continually strived to increase our irrigation efficiency through the years:

- 1) Converted most of our land from wild flood irrigation to sprinklers (wheel-lines) in the 1970's
- 2) Installed 2 center pivots in 2016 and 2020
- 3) 2021 we replaced our 50 HP pump with a new pump and variable speed drive, which only pumps as much as the demand.

The conservation practices we would take in 2022 if needed:

PUMP #1 (205 GPM) Installed-1977

(1) Fields 12, 13, 14 & 15 (28 acres)

These are irrigated with 1 wheel-line, 2 K-lines and a small big gun.

(2) Fields 14 & 15 (6 acres) will not be irrigated in 2022.

100% REDUCTION

Fields 12 & 13 (22 acres) we will reduce sets from 18 hrs/day down to 12 hrs/day

33% REDUCTION

PUMP #2 (650 GPM) Installed-1976

(1) Fields 5 & 7 (20 acres) and 5 acres of field 6 (25 acres)

We have taken out our alfalfa crop this year and replaced it with a grain crop. This will only use 25% as much water,

75% REDUCTION

(2) Fields 6, 9, & 10 (82 acres)

70 acres are irrigated with our new pivot. We will turn this pivot off 1 day per week. 14% Reduction

We will stop irrigating these fields 2 weeks early (September 1st) for an additional 10% Reduction

24% REDUCTION

(3) Field 11 (86.1 acres)

This field is irrigated with 3 wheel-lines that we will rotate with the new pivot. We will not run them on the day the pump is off, and we will stop irrigating on September 1st.

24% REDUCTION

PUMP #3 (450 GPM) Installed-1972

(1) Fields 16 (64 acres -dairy pasture)

This field is our main dairy pasture, because of our organic pasture requirements we must irrigate them longer than the crop fields. We will turn the pump off 1 day per week.

14% REDUCTION

(2) Field 17 (41.1 acres – dairy pasture)

This is also a dairy pasture which 20 acres is usually irrigated with a big gun. We will NOT irrigate it this year.

100% REDUCTION

These irrigation figures are based on our traditional irrigation amounts of:

1 acre foot for small grains
4 acre feet for alfalfa
5 acre feet for irrigated pasture

The fields usually irrigated in past years, including 2020, that are NOT being irrigated this year at all are:

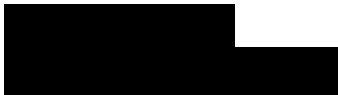
Fields 14, 15 & 17

No fields that are irrigated with ground water are going to be irrigated with surface water.

To verify our water reductions Pump #1 will have an on/off timer. On Sundays we will turn off Pumps #2 & #3 for 24 hrs/1 day per week.

Sincerely,

Charles D. Martin



WATER REDUCTIONS BY FIELDS

Fields(Acres)	AF 2020	AF 2022
5(8.3)	33.2	8
6 (5)	20	5
7(12)	48	12
6,9,10(70)	280	212.8
11(42)	168	127.7
12(15.3)	61.2	40.4
13(6.4)	25.6	16.9
14(4.1)	16.4	0
15(1.7)	6.8	0
16(64)	320	275.2
17(20)	100	0
Totals: 249	1,079	698

35% REDUCTION

(Totals are rounded to whole numbers)

MONTHLY WATER USE

	2020				2022			
	Pasture	Grain	Alfalfa	TOTALS	Pasture	Grain	Alfalfa	TOTALS
April	32.3	NA	65.9	98.2	21.1	5.1	43.5	69.7
May	64.6		131.8	196.4	42.3	10.1	87.3	139.7
June	64.6		131.8	196.4	42.3	10.1	87.3	139.7
July	64.6		131.8	196.4	42.3		87.3	129.6
Aug	64.6		131.8	196.4	42.3		87.3	129.6
Sep	64.6		65.9	130.5	42.3		5.7	48.0
Oct	64.6			64.6	42.3			42.3
				1,079 AF				698 AF

SUMMARY

Total Irrigated Acreage: 249
 Total AF 2020 (est) :1,079

	Total 2020 Estimated Monthly AF	Total 2022 Est Monthly Reduction AF	Est Monthly Reduction % AF
April	98.2	28.5	29%
May	196.4	56.7	29%
June	196.4	56.7	29%
July	196.4	66.8	34%
Aug	196.4	66.8	34%
Sept	130.5	82.5	63%
Oct	64.6	22.3	35%
TOTAL (Est Seasonal)	1,079 AF	380.3 AF	35%

These are the reductions we propose for the 2022 season only. These are estimated savings from a normal irrigation season on our ranch, which will vary from year to year.

BINDING AGREEMENT



SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027
PHONE (530) 467-3975 FAX (530) 467-5617
Email: sisqred@sisqtel.net
Website: www.siskiyoured.com

Binding Agreement

Contractor Contact Information:

Business:	Siskiyou RCD
Contact Person:	Chris Voigt
Address:	P.O. Box 268 / 450 Main St. Etna, CA
Phone:	530-467-3975
Email:	Chris@siskiyoured.com

Landowner Contact Information:

Business:	
Contact Person:	Charles D. Martin
Address:	[REDACTED]
Phone:	[REDACTED]
Email:	[REDACTED]

Background

Under the 2021 drought emergency regulation instated by the State Water Resources Control Board (SWRCB) that established drought emergency minimum flows in the Scott River, a Local Cooperative Solution (LCS) may be proposed by individuals or groups to submit by petition to the Deputy Director of the SWRCB as an alternative means of reducing water use to meet or preserve drought emergency minimum flows and provide fishery benefits, in lieu of curtailment. This binding agreement between the (Landowner) and Siskiyou Resource Conservation District (SRCD) will monitor the SRWCB approved LCS to achieve 1) a net reduction of water use of 30 percent throughout the irrigation season; and 2) a monthly reduction of at least 30 percent in the July through October 31 period, as compared to 2020.



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Recitals

1. Section 875(f)(4)(D) of the drought emergency regulation provides a specific type of LCS that was determined to be sufficient for approval by the Deputy Director;
2. For overlying or adjudicated groundwater diversions for irrigated agriculture described in sections 875.5(f)(4)(D)(i)-(iii) [Scott River], the Deputy Director may approve a groundwater-basin-wide, groundwater sub-basin-wide, or any number of individual local cooperative solutions totaling at least 400 acres where:
 - i. The proposal is based on a binding agreement. "Such binding agreement may be made with a coordinating entity with the expertise and ability to evaluate and require performance of the agreement, for example with the California Department of Fish and Wildlife (CDFW), the National Marine Fisheries Service, the Scott Valley and Shasta Valley Watermaster District, a non-profit organization with expertise and experience in water-saving transactions or similarly qualified entity."
 - ii. For the Scott River: "The proposal provides at least: 1) a net reduction in water use of 30 percent throughout the irrigation season (April 1-October 31), as compared to the prior irrigation season; and 2) a monthly reduction of at least 30% in the July 1 through October 31 period, as compared to the prior year or 2020. Such reduction may be demonstrated by evidence that provides a reasonable assurance that the change in farming practice or other action results in at least the relevant proportionate reduction. Such evidence may include but is not limited to: pumping reports; actions that will be taken to reduce water use; estimation of water saved from conservation measures or changes in irrigation or planting decisions; and electric bills."

Proposed Local Cooperative Solution: *(Specific action plan to be completed by landowner, see attached LCS application form)*



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Binding Agreement Terms

The Landowner is required to adhere to the LCS, as approved by SWRCB. The Landowner has requested that SRCD serve as the coordinating entity. As such, both parties agree to the following:

- For the duration of this binding agreement where SRCD is the coordinating entity, the Landowner shall give SRCD the right to reasonably access the included parcels for the limited purpose of verifying execution of the LCS. Any individual not directly employed or contracted by SRCD shall provide pre-notification to, and shall obtain approval by the Landowner before accessing the property,
- SRCD will strive to notify the Landowner a day in advance of visiting the parcels and shall provide the Landowner or designee the ability to participate in monitoring activities,
- It is anticipated that SRCD representatives will visit the property approximately twice per month to monitor the approved LCS, unless inadequacies are discovered, in which case additional field visits will occur until inadequacies are rectified. A monitoring inspection may include verification of any or all of the actions described in the conservation plan and may include inspection checklist/notes/reports and photo verification,
- SRCD will submit the information regarding the verification materials and actions described in this agreement, and conservation plan incorporated by reference, to the State Water Board upon request, for the purposes of verifying compliance with the LCS,
- This binding agreement is not intended to preclude, harm, or otherwise interfere with the landowner's ability to secure any funding to mitigate the financial impacts imposed by the emergency regulation or proposed conservation practices. SRCD supports the use of funding programs to ameliorate the costs of implementing the conservation practices described in the proposed conservation plan: planning and cooperation under a voluntary LCS should not undermine the ability to receive such funding,
- This binding agreement may be terminated by either party at any time. Both parties agree to take reasonable measures to resolve any concerns related to the performance of the LCS, negative interpersonal interaction, or any unforeseen circumstance prior to invoking termination,
- As the irrigation season unfolds, there may be reason to change the terms of the LCS or this binding agreement with respect to its implementation and verification. Any such changes to the LCS or service agreement will need to be agreed upon by the Landowner



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and SRWCB. If a Landowner requests SRCD assistance with an updated LCS, the SRCD and Landowner will enter into a new Binding Agreement.

Payment

In consideration for the services to be performed by SRCD, the Landowner agrees to pay SRCD at the rate of \$75.00 per hour for initial consultation and \$75.00 per hour for all services rendered after signing of the binding agreement.

Expenses

The Landowner will reimburse SRCD for expenses that are attributable directly to work performed under this Agreement. Any expenses incurred will be approved by the Landowner beforehand. SRCD will submit an itemized statement of Contractor's expenses attached with invoicing.

Terms of Payment

Upon completion of SRCD services under this binding agreement, the SRCD will submit an invoice. The Landowner will pay SRCD the compensation described within 30 days of receiving SRCD's invoice.

Term of Agreement

This agreement will become effective when signed by both parties and will terminate on:

- November 1, 2022, or
- The date a party terminates the binding agreement.
- Monitoring information will be collected by the SRCD and shared with State Water Board as a field report in accordance with their reporting schedule or upon request
- SRCD is not authorized to and will not distribute data or other information regarding work done under this contract to any third party without previous written approval by the Landowner
- Landowner agrees that water saved under the LCS will not be transferred to parcels not included under the LCS, and Landowner 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 the actions described in the LSC



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Signatures

Chris Vaint

SRCD Representative

5/11/22

Date

Charles D. Martin

Landowner

5/11/2022

Date

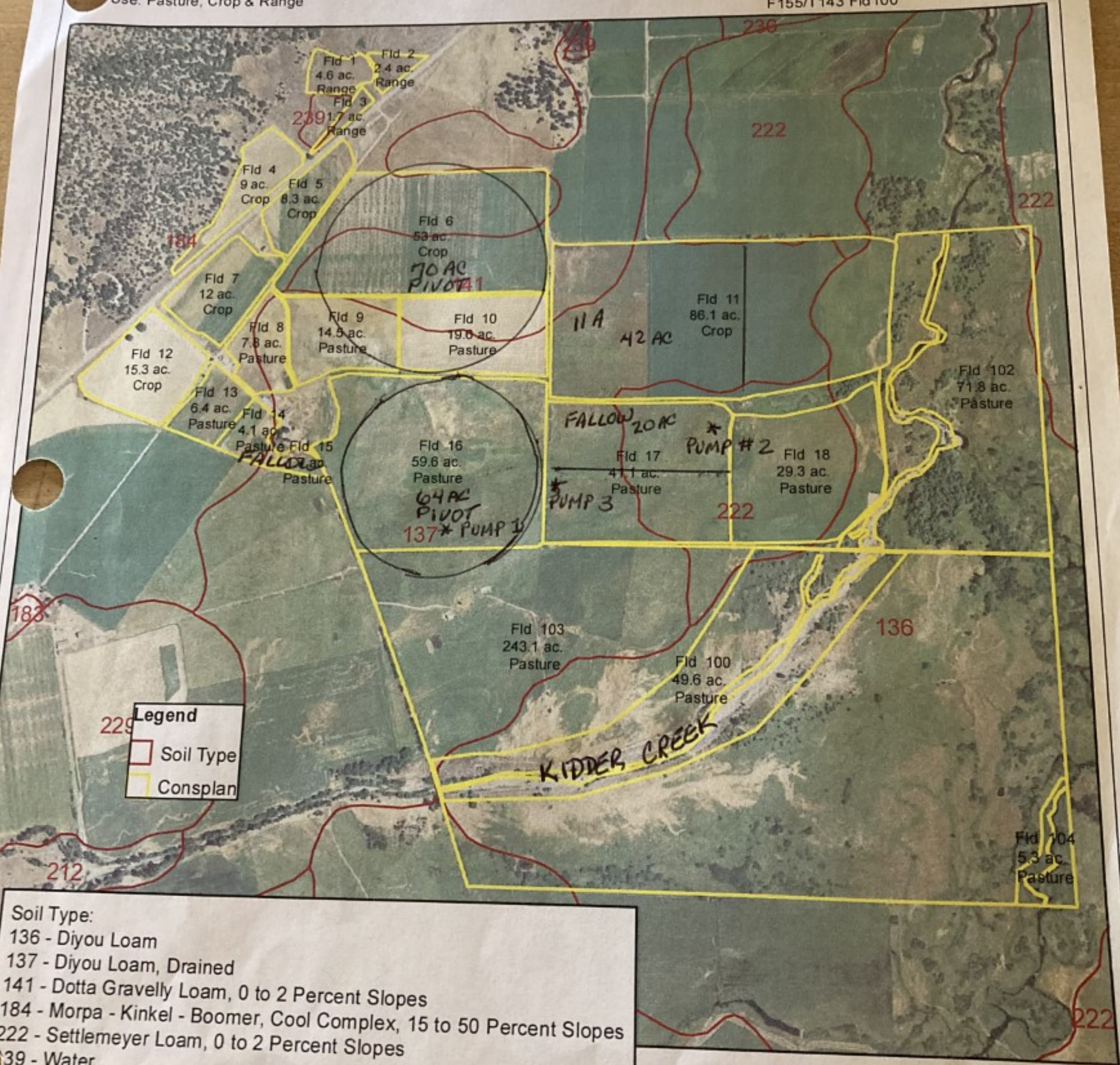
SUPPORTING INFORMATION

Soils Map

Date: 10/30/2014

Customer(s): CHARLES D MARTIN
 District: SISKIYOU RESOURCE CONSERVATION DISTRICT
 PLSS: T43N R9W S21,22,27,28
 Section: Greenview & Ft Jones
 Use: Pasture, Crop & Range

Agency: USDA/NRCS
 Assisted By: LORRIE BUNDY & E. Yokel
 State and County: CA, Siskiyou
 Land Units: F153/T5694 Fld 1,2,3,4, 17
 F155/T143 Fld100



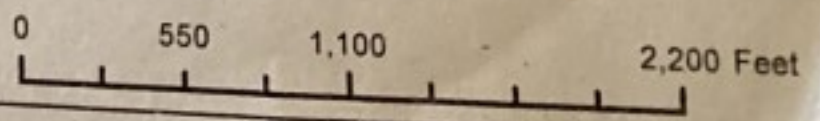
Legend

- Soil Type
- Consplan

- Soil Type:**
- 136 - Diyou Loam
 - 137 - Diyou Loam, Drained
 - 141 - Dotta Gravelly Loam, 0 to 2 Percent Slopes
 - 184 - Morpa - Kinkel - Boomer, Cool Complex, 15 to 50 Percent Slopes
 - 222 - Settlemyer Loam, 0 to 2 Percent Slopes
 - 239 - Water



Image: NAIP 2012



Martin Local Cooperative Solution
Water Reductions by Fields

Fields	Acres	Total Water Use 2020 (AF)	Total Water Use 2022 (AF)	Water Conservation Action(s)
5	8.3	33.2	8	Replace alfalfa with grain, 75% less water use
6	5	20	5	Replace alfalfa with grain, 75% less water use
7	12	48	12	Replace alfalfa with grain, 75% less water use
6, 9, 10	70	280	212.8	Wheelline and Pivot. Irrigate 6 days per week instead of 7 and cease irrigation two weeks early (Sep 1, 2022). Reduce number of irrigation days by approximately 36, from approximately 153 to 117.
11	42	168	127.7	Pivot. Irrigate 6 days per week instead of 7 and cease irrigation two weeks early (Sep 1, 2022). Reduce number of irrigation days by approximately 36, from approximately 153 to 117.
12	15.3	61.2	40.4	Reducing wheelline sets from 18 hours to 12 hours, 33% less water use
13	6.4	25.6	16.9	Reducing wheelline sets from 18 hours to 12 hours, 33% less water use
14	4.1	16.4	0	Fallowed
15	1.7	6.8	0	Fallowed
16	64	320	275.2	Irrigate 6 days per week instead of 7. Reduce number of irrigation days by approximately 22, from approximately 153 to 131.
17	20	100	0	Fallowed
Total	249	1079	698	

AF = acre-feet
1 acre foot for small grains
4 acre feet for alfalfa
5 acre feet for irrigated pasture

Monthly Water Use

2020	Pasture monthly water use (AF)	Grain monthly water use (AF)	Alfafa monthly water use (AF)	Total (AF)	70% of 2020 (AF)	2022	Pasture monthly water use (AF)	Grain monthly water use (AF)	Alfafa monthly water use (AF)	Total (AF)	Percent of 2020
April	32.3	0	65.9	98.2	68.74	April	21.1	5.1	43.5	69.7	71%
May	64.6	0	131.8	196.4	137.48	May	42.3	10.1	87.3	139.7	71%
June	64.6	0	131.8	196.4	137.48	June	42.3	10.1	87.3	139.7	71%
July	64.6	0	131.8	196.4	137.48	July	42.3	0	87.3	129.6	66%
August	64.6	0	131.8	196.4	137.48	August	42.3	0	87.3	129.6	66%
September	64.6	0	65.9	130.5	91.35	September	42.3	0	5.7	48	37%
October	64.6	0	0	64.6	45.22	October	42.3	0	0	42.3	65%
Total	388	0	593	1079	755	Total	254	20	355	699	65%

AF = acre-feet

Summary

Month	Total 2020 Estimated Monthly AF	Total 2022 Estimated Monthly Reduction AF	Estimated Monthly Reduction Percent
April	98	29	29%
May	196	57	29%
June	196	57	29%
July	196	67	34%
August	196	67	34%
September	131	83	63%
October	65	22	35%
Total (Est Seasonal)	1079	380	35%

From: DeLano, Kevin@Waterboards
To: [REDACTED]
Cc: [REDACTED]
Subject: LCS: Martin Dairy 400 acre partner
Date: Monday, June 27, 2022 5:17:14 PM

Hi Mr. and Ms. Martin,

Thank you for selecting Mr. Jim Harris (California Heritage Farms) as a 400 acre partner for your Scott River groundwater reduction LCS.

Sincerely,
Kevin

Kevin DeLano, MS, GIT
Geologist, [Instream Flow Unit](#)
Division of Water Rights, State Water Board

kevin.delano@waterboards.ca.gov
Telework (Google Voice): 916-359-9827
Office: 916-319-0631