From: Fisher Family Ranch



To:

State Water Board

1001 | St.

Sacramento, CA 95814

This letter is being sent to request an LCS as authorized by 23 CCR 875(f)(4)(D) for the 2022 irrigation season for the Ranches owned and managed by Fisher Family Ranch.

Fisher Family Ranch is a small organic hay and cattle farm. Like most of the ranches and farms in Scott Valley we manage our farm to be productive, efficient, and profitable. We consistently try to improve in all of these areas, which includes water management. Over the last 20 years we have made many improvements to increase the efficiency of our irrigation systems which include wheel line and hand line improvements and maintenance, wheel line to pivot conversions, pump upgrades and VFD installations as well as main line upgrades and repairs. These upgrades allow us to manually make adjustments to our irrigation system to reduce water application per irrigation set and for the season.

To achieve the 30% reduction of water usage required by the LCS over the water used in the base year 2020 irrigation season we have:

- Changed nozzle sizes in wheel and hand line from 7/32 to 3/16 and lowering pressure from 60 psi to 45-50 psi resulting in minimum of 30% water savings.
- Changed application rate of pivot from 3" to 2.1" resulting in a 30% reduction in water usage
- 3. Fallow 6.45% of lower production pasture acreage through end gun shut off which adds additional 1.8% to overall water savings.

Logs are being maintained for review by the Cooperating Entity to verify application of water as outlined above and in supporting water usage. Supporting documents are also attached. In addition we are partnering with California Heritage Farms LLC to meet the 400 acre minimum requirement.

We have signed an agreement with SRCD to act as the Cooperating Entity to verify the plan submitted is adhered to. A copy is attached. Siskiyou RCD as the Cooperating Entity is authorized to visually verify nozzle sizes, fallowed ground and pivot application.

These adjustments to our irrigation practices will result in stress to the plants, possible unrecoverable damage and decrease to production during a time when all costs are skyrocketing upward. This will also result in a very negative financial impact on our ranching operation.

Thank you in advance for your assistance with this LCS plan.

Brandy Fisher

From: <u>DeLano, Kevin@Waterboards</u>

To: Brandy Fisher

Subject: RE: LCS Package for 2022

Date: Wednesday, July 13, 2022 11:14:00 AM

Thank you.

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

From: Brandy Fisher

Sent: Wednesday, July 13, 2022 11:14 AM

To: DeLano, Kevin@Waterboards < Kevin.DeLano@Waterboards.ca.gov>

Subject: Re: LCS Package for 2022

EXTERNAL:

Hello Mr. Delano,

This is to serve as an addendum to our LCS package. Our ranch does have a water right from SVID for surface water. This water will not be used to offset any savings afforded by our voluntary LCS package.

Thank You, Brandy Fisher

From: "Kevin Delano" < Kevin.DeLano@Waterboards.ca.gov>

To: "Brandy"

Sent: Wednesday, July 13, 2022 10:13:50 AM

Subject: Re: LCS Package for 2022

Hi Brandy,

Yes, I'm available.

Cheers,

Kevin

Kevin DeLano, MS, GIT



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SISKIYOU RESOURCE CONSERVATION DISTRICT

CA 960 Z7

P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617 Email: <u>sisqred@sisqtel.net</u> Website: <u>www.siskiyaured.com</u>

Binding Agreement

Contractor Contact	Information:				
Business:	SISHIYOU RCD				
Contact Person;	Click or tap here to enter text.	Chris Voiet			
Address:	Click or tap here to enter text.	.o. Box 268	Et	na	,
Phone:		30-467-397	4		1
Email:		ChrisDsistiyour	9	O 91	h
Landowner Contact		/			•
Business:	Fisher Family Ranch				
Contact Person:	Brandy Fisher				
Address:					
Phone:					
Email:				i i	

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.



P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617 Email: sisqrcd@sisqtel.net Website: www.siskivourcd.com

Recitais

 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 propose 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 and,

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 establish by the actions
 described ion the LSC

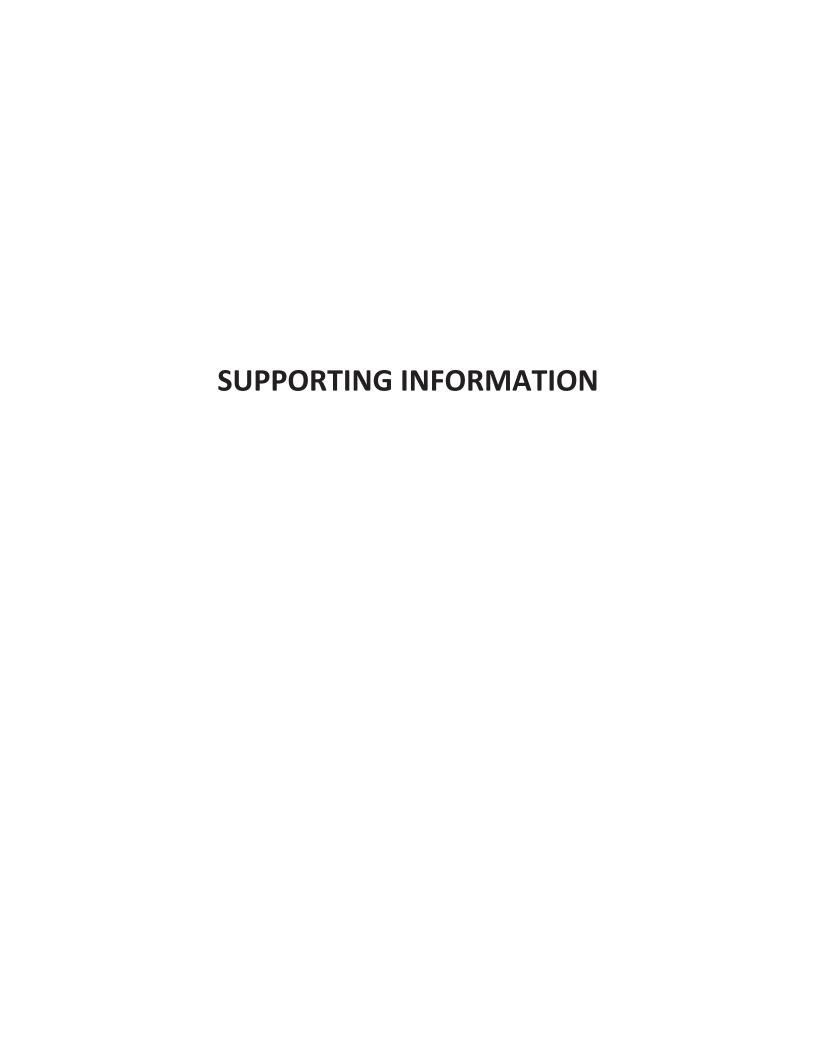


P.O. Box 268, Etna, CA 96027

PHONE (530) 467-3975 FAX (530) 467-5617 Email: sisgrcd@sisgtel.net Website: www.siskivoursd.com

Signatures

Date



SPRINKLER IRRIGATION— APPLICATION RATES AND DEPTHS

by Thomas W. Ley, Extension Irrigation Engineer, WSU Prosser

Procedure

- Measure sprinkler pressure (psi) using Pitot gauge. Hold gauge in center of jet no more than 1/8" from nozzle face.
- Measure sprinkler discharge (gallons per minute) using a 5-gallon bucket, hose, and watch. Sprinkler gpm equals 300 divided by time (seconds) to fill 5gallon bucket. For 2-nozzle heads, measure both.
- 3. Record nozzle size(s) and check nozzles for wear by inserting shank end of a new drill bit (same size as nozzle) into operating sprinkler. Observe any leakage or spray (amount and distance). Fineto-coarse spray up to 10 to 15 feet from head may mean at least 15% nozzle wear or 15% more water being discharged.
- Repeat steps 1, 2, and 3 for at least 3 sprinklers (beginning, middle, and end) on hand, wheel, and permanent systems to get average for lateral. Do same for center pivot, and record sprinkler number.
- Measure sprinkler spacing on lateral (ft) and lateral spacing on mainline (ft) for handlines, wheellines, and permanent systems. Determine total

- area irrigated and design or actual gallons (gpm) for center pivots.
- 6. Compare measured data (nozzle size, pressure, and gpm) with theoretical data in Table 1. Measured discharge vs discharge in Table 1 (at same nozzle size and pressure) indicates amount of nozzle wear. If nozzles are new and pressure is known, use Table 1 to find discharge of sprinkler. For pivots, compare sprinkler number and measured data with pivot design package to determine if pressures and discharges are correct.
- 7. Average gross application rates for different sprinkler gpm and spacings are given in Table 2. For other spacings or gpm use:

Example: 6 gpm heads on 40 x 60 spacing

Average Gross = $\frac{6 \times 96.3}{40 \times 60}$ = 0.24 in/hr Appl Rate (or use Table 2)

Table 1. Sprinkler discharge gpm (gallons per minute) for nozzle size (inches) and pressures (psi) (pounds per square inch).

	Nozzle Size (in)													
psi	3/32	7/64	1/8	9/64	5/32	11/64	3/16	13/64	7/32	15/64	1/4			
20	1.17	1.60	2.09	2.65	3.26	3.92	4.69	5.51	6.37	7.32	8.34			
25	1.31	1.78	2.34	2.96	3.64	4.38	5.25	6.16	7.13	8.19	9.32			
30	1.44	1.95	2.56	3.26	4.01	4.83	5.75	6.80	7.86	8.97	10.21			
35	1.55	2.11	2.77	3.50	4.31	5.18	6.21	7.30	8.43	9.69	11.03			
40	1.66	2.26	2.96	3.74	4.61	5.54	6.64	7.80	9.02	10.35	11.79			
45	1.76	2.39	3.13	3.99	4.91	5.91	7.03	8.30	9.60	10.99	12.50			
50	1.85	2.52	3.30	4.18	5.15	6.19	7.41	8.71	10.10	11.58	13.18			
55	1.94	2.64	3.46	4.37	5.39	5.39 6.48 7.77		9.12	10.50	12.15	13.82			
60	2.03	2.76	3.62	4.50	5.65 6.80 8.12		9.56	11.05	12.68	14.44				
65	2.11	2.88	3.77	4.76	5.87	7.06	8.45	9.92	11.45	13.21	15.03			
70	2.19	2.99	3.91	4.96	6.10	7.34	8.78	10.32	11.95	13.70	15.59			
75	2.27	3.09	4.05	5.12	6.30	7.58	9.08	10.66	12.32	14.19	16.14			
80	2.35	3.19	4.18	5.29	6.52	7.84	9.39	11.02	12.74	14.64	16.67			
85	2.42	3.29	4.31	5.45	6.71	8.07	9.67	11.35	13.11	15.10	17.18			
90	2.49	3.38	4.43	5.61	6.91	8.31	9.95	11.69	13.51	15.53	17.68			
100	2.62	3.57	4.67	5.91	7.29	8.76	10.50	12.32	14.23	16.37	18.64			
110	2.75	3.74	4.89	6.19	7.63	9.24	11.00	12.90	14.97	17.17	19.55			
120	2.87	3.91	5.10	6.46	7.97	9.65	11.48	13.47	15.63	17.93	20.42			
130	2.99	4.07	5.31	6.72	8.30	10.04	11.95	14.02	16.27	18.66	21.25			

Note: Figures given are approximate maximum discharge rates for given nozzle size and pressure.

8. Table 3 gives the average *net* depth of irrigation for different set times and application rates assuming a 70% application efficiency. For efficiencies other than 70%, multiply the values in Table 3 by the factors given in Table 4.

Example: 0.24 in/hr application rate

70% efficiency 12-hour set

Av Net Depth = $(0.24 \text{ in/hr}) \times (12 \text{ hr}) \times 70\% = 2.02 \text{ in (or use Table 3)}$

If 80% efficiency, multiply by 1.14 (from Table 4)

Av Net Depth (at 80% efficiency) = 1.14 x 2.02 = 2.3 in

Example: Center pivot: 1,200 gpm system on 130 acres; 24-hour revolution; 80% efficiency.

Av Gross Application Rate = $\frac{1,200 \times 96.3}{130 \text{ ac } x} = 0.02 \text{ in/hr}$ 43,560 sq ft/ac

Av Net Depth = $(0.02 \text{ in/hr}) \times (24 \text{ hr}) \times 80\% = 0.38 \text{ in}$

Table 2. Average gross application rate (in/hr).

Spacing	Gallons per minute from each sprinkler														
(ft)	1	2	3	4	5	6	7	8	9	10					
20 x 20	0.24	0.48	0.72	0.96	1.20	1.44	1.70	1.93	2.16	2.40					
20 x 30	.16	.32	.48	.64	0.80	0.96	1.12	1.28	1.43	1.60					
20 x 40	.12	.24	.36	.48	.60	.72	0.84	0.96	1.08	1.20					
30 x 30	.11	.21	.32	.43	.54	.64	.75	.86	0.96	1.07					
30 x 40	.08	.16	.24	.32	.40	.48	.56	.64	.72	0.80					
30 x 50	.06	.13	.19	.25	.32	.38	.45	.51	.58	.64					
40 x 40	.06	.12	.18	.24	.30	.36	.42	.48	.54	.60					
40 x 50	.05	.10	.14	.19	.24	.29	.34	.38	.43	.48					
40 x 60	0.04	0.08	0.12	0.16	0.24	0.24	0.28	0.32	0.36	0.40					

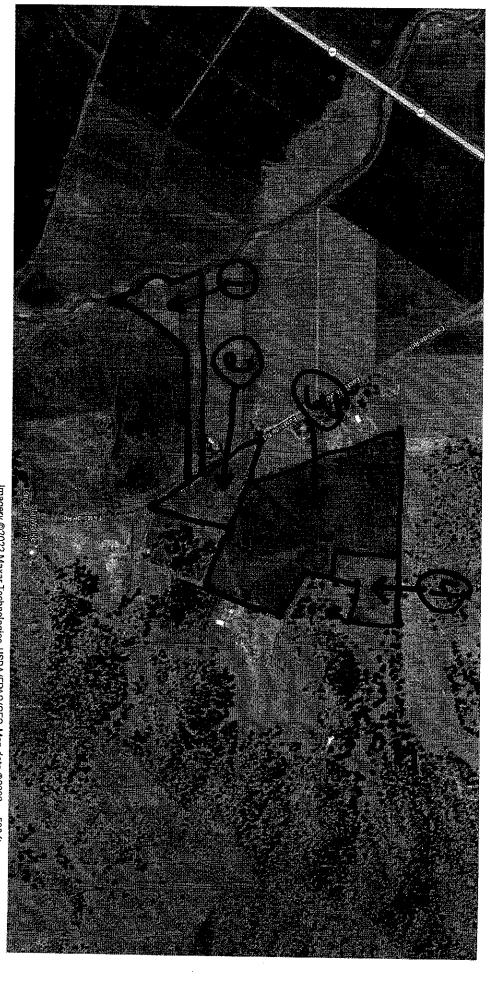
Table 3. Net applied depth (in) at 70% efficiency.

Set time					Ap	plication	rate (in	/hr)				
(hrs)	0.10	0.12	0.14	0.16	0.18	0.20	0.24	0.28	0.32	0.36	0.45	0.60
1	.07	.08	.10	.11	.13	.14	.17	.20	.22	.25	.32	.42
2	.14	.17	.20	.22	.25	.28	.34	.39	.45	.50	.63	0.84
3	.21	.25	.29	.34	.38	.42	.50	.59	.67	0.76	0.95	1.26
4	.28	.34	.39	.45	.50	.56	.67	.78	0.90	1.01	1.26	1.68
5	.35	.42	.49	.56	.63	.70	0.84	0.98	1.12	1.26	1.58	2.10
6 7	.42	.50	.59	.67	.76	.84	1.01	1.18	1.34	1.51	1.89	2.52
	.49	.59	.69	.78	0.88	0.98	1.18	1.37	1.57	1.76	2.21	2.94
8	.56	.67	.79	0.90	1.01	1.12	1.34	1.57	1.79	2.02	2.52	3.36
9	.63	.76	.88	1.01	1.13	1.26	1.51	1.76	2.02	2.27	2.84	3.78
10	.70	0.84	0.98	1.12	1.26	1.40	1.68	1.96	2.24	2.52	3.15	4.20
12	0.84	1.01	1.18	1.34	1.51	1.68	2.02	2.35	2.69	3.02	3.78	5.04
18	1.26	1.51	1.76	2.02	2.27	2.52	3.02	3.53	4.03	4.54	5.67	7.56
24	1.68	2.02	2.35	2.69	3.02	3.36	4.03	4.70	5.38	6.05	7.56	10.08
36	2.52	3.02	3.53	4.03	4.54	5.04	6.05	7.06	8.06	9.07	11.34	15.12
48	3.36	4.03	4.70	5.38	6.05	6.72	8.06	9.41	10.75	12.10	15.12	20.16

Table 4. Adjustment factor to use with values in Table 3 for other than 70% efficiency.

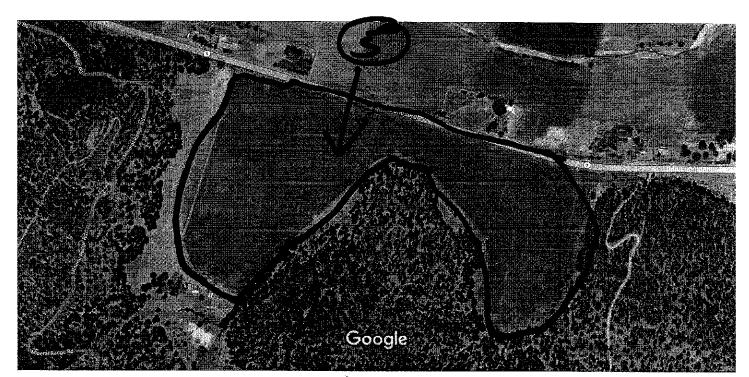
Efficiency	Multiply by	Multiply by Efficiency					
55 60	0.79 0.86	75 80	1.07 1.14				
65	0.93	85	1.21				

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Imagery @2022 Maxar Technologies, USDA/FPAC/GEO, Map data @2022 500 ft

Google Maps Field 5



Imagery @2022 Maxar Technologies, USDA/FPAC/GEO, Map data @2022

Siskiyou RCD- LCS Water Use Reduction Calculations

Prepared for: Fisher Family Ranch / Brandy Fisher

ield	Acreage		A/F Base	A/F Reduction	Reduction %	Farm summary	Annual	April	May	June	July	August	Sept	Oct				
	1	9.80	49.6	14.9	30.0%		30.0%	31.8%	31.8%	31.8%	31.8%	31.8%	31.8%	31.8%				
	2	6.69	34.0	10.2	30.0%													
	3	43.76	153.2	45.9	30.0%	Notes: **Do not change any numbers in the yellow areas. These are all calculated from other numbers.												
	4	8.49	35.4	10.6	30.0%	**In the light yellow area, the applied will be calculated based on the entered reduction percentage.												
	5	46.74	187.0	52.5	30.0%	**If a crop cycle that is dif	ferent than the	base year	is used (say	alfalfa to g	rain, or cut	tting off irri	gation ear	ly)				
	4	0.00	0.0	0.0	0.0%	then leave the % reduction	blank and put	new mon	thly applied i	inches into	the light y	ellow area.						
						**This change is alters the	spreadsheet fu	nction. To	change back	to % redu	ction for t	hat line						

				you have to copy paste any of the other light yellow cells into the changed cells																									
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Field name		Crop Pasture	Irrigation Method Wheel line	60	A M	7 11		S C	7	49.6		0.0%	, , , , , , , , , , , , , , , , , , ,	1	M J	J	A 5	U		3.1		M 5.7	9.0	10.6	10.6	7	.4 3.3		
2022			Wheel line			7 11		3 9	4		nozzles	30.0%	42.5	2	5 Q	0	0 6	5 2	34.7			4.0	6.3	7.4	7.4		.1 2.3	+	30.0%
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Maria and the same of the same	Field summary 9.8 Enter base year information on first line. Enter acreages, crop										Enter reduction	method and			rcentage acı					30.070	. 50.	.070	0.070	30.070	30.070	30.0	70 30.0 7		30.070
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Field name		Crop	Irrigation Method		A M	li li	I A	S C)		percentage ii	аррисавіе	14	92	M J	.I		О		Α	М	J	J		Α	S	0		
2		Pasture	Wheel line		61 4	7 11	13 13	3 9	4	34.0		0.0%		,		,	,, ,			2.2		3.9	6.1	7.2	7.2	2 5	.0 2.2		
2022		A 16 For 16 W/W 17 17 17 17	Wheel line			7 11		3 9	4	1555,011111,021	nozzles	30.0%	42.7	3	5 8	9	9 6	6 3	23.8			2.7	4.3	5.1	5.1		.5 1.6		30.0%
Field summary	0.000.000.000				61	, and and		0.00	100.5	34.0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		If	f reduction r	neth	od is no	ot		30.0%		40 mm.	0.0%	30.0%	30.0%		Transfer Property		
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3	43.76	Alfalfa	Pivot / Wheel		42 3	6 6	9 9	9 6	3	153.2		0.0%								10.9	2	1.9	21.9	32.8	32.8	3 21	.9 10.9		
2022	43.76	Alfalfa	Pivot / Wheel		42 3	6 6	9 9	9 6	3	153.2	nozzles/speed	30.0%	29.4	2	4 4	6	6 4	1 2	107.2	7.7	1	.5.3	15.3	23.0	23.0	15	.3 7.7	45.9	30.0%
Field summary	43.76				42					153.2				If	f reduction r	neth	od is n	ot		30.0%	30.	.0% 3	0.0%	30.0%	30.0%	6 30.0	% 30.0%	45.9	30.0%
Enter base year i	nformation o	n first line	e. Enter acreages, crop								Enter reduction method and			percentage across the season															
	and meth	od for 202	22								percentage if	applicable			change the	se nu	ımbers	5											
Field name		Crop	Irrigation Method		A M	J J	J A	S C)				Į.	Ą	M J	J	A S	0		Α	M	J	J	,	A	S	0		
4			Pivot / Wheel			8 8		9 9	4	35.4		0.0%							2007/07/00	2.8		5.7	5.7	5.7	6.4		.4 2.8		
2022		Pasture	Pivot / Wheel		GEOGRAPHICA NAMES	8 8	8 9	9 9	4		nozzles/speed	30.0%	35.0	3	6 6	6		5 3	24.8	2.0		4.0	4.0	4.0	4.5	100,00	.5 2.0		
Field summary	8.49				50					35.4					f reduction r					30.0%	30.	.0% 3	0.0%	30.0%	30.0%	6 30.0	% 30.0%	10.6	30.0%
Enter base year i			e. Enter acreages, crop								Enter reduction method and				rcentage acı														
	and meth	AND DESCRIPTION OF THE PARTY OF	Allow .			I. I.					percentage if	applicable		_	change the	se nu		_							•	I.	-		
Field name	777000000000	Crop	Irrigation Method		A M		JA	S)	407.0		0.00/	<i>,</i>	4	M J	J	A S	0		Α 22.4	M	J	J	25.4	A 25.4	S	0		
2022		Pasture	Pivot / Wheel		A STATE OF THE PARTY OF THE PAR	6 6	POWER AND	9 9	3	187.0		0.0%	22.6	1	4 4	-			122.4	23.4	-		23.4	35.1	35.1				20.00/
2022		Pasture	Pivot / Wheel			0 0	9 9	9 9	3		nozzles/speed	30.0%	33.0		4 4				122.4			_	15.3	23.0	23.0				
Field summary	43.72	finat line	F-1		48					174.9					f reduction r					34.5%	34.	.5% 3	4.5%	34.5%	34.5%	54.5	% 34.5%	52.5	30.0%
Enter base year i	and meth	e. Enter acreages, crop								Enter reduction				rcentage acr change the				Monthly Wa	tor Poduc	tion To	tals								
Wheelline Nozzlo									percentage if	applicable			change the	se III	miners		Total	A Neuro	LIUII 10	M	- 1	1	Λ	Y	s c	1			
7/32 nozzles at 6		GPM			2020 Sums 459.1 42.4 60.5 66.0 91.4 92.1 75.7 31.0																								
3/16 nozzles at 5					Reduction Volumes 134.1 13.8 19.2 20.9 29.0 29.2 24.3 9.8																								
THE CASE OF THE PARTY OF THE PA	A CONTRACTOR OF THE PARTY OF TH		41 GPM / 11.05 GPM)														Sums	ULL STATEMEN	312.9	_			45.2	62.4	62.9			4	
% reduction	32.94%		3 / 3 /														Reduct		31.8%				1.6%	31.7%	31.7%		% 31.7%		
		• ***		Marine Agreemen														Carlo Miles			10.500	NORMAN INC.				150,000	5.00		

Landowner is using 30% for wheelline water conservation estimates

Fields 1: 40 x 60 spacing (ft) 11.05 GPM = 0.4 in/hr 7.41 GPM = 0.3 in/hr

Field 2: 40 x 50 spacing (ft) 11.05 GPM = 0.48 in/hr

7.41 GPM = 0.36 in/hr Pivot application rate

2.1"

Pivot water volume reduction = 1 - (2.1"/3")

% reduction 30.00%