

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES**AMENDED APPLICATION FOR TRANSFER OF WATER RIGHT**
PART 1RECEIVED
FEB 8 / 2008
DEPT. OF WATER RESOURCES
SOUTHERN REGIONName of Applicant CASSIA CREEK FARMS, LLC Phone (925) 837-1450Post Office address PO BOX 580 DANVILLE, CA 94526**A. PURPOSE OF TRANSFER**

1. ☒ Change point of diversion ☐ Add diversion point(s) ☒ Change place of use
☒ Change nature of use ☒ Change period of use ☐ Other _____
2. Describe the reason for the proposed changes This application proposes changing the nature of use of a portion of water right 43-2471 from irrigation to commercial and stock water associated with a proposed dairy. The point of diversion, place of use, and period of use of the transferred portion are correspondingly changed. Also, this transfer redescribes the location of a 40-acre portion of water right 43-2569 for irrigation on the proposed dairy site. An additional transfer changes the places of use and points of diversion for irrigation water rights 43-2472, 43-2475, and the remaining portion of 43-2569, moving them from the dairy site to other locations within the farm.

B. DESCRIPTION OF RIGHT(S) OR PORTION THEREOF, AFTER THE REQUESTED CHANGE

- | 1. Right Number | Priority | Amount (cfs/ac-ft) | Nature of Use | Period of Use |
|----------------------|-----------------|--------------------------------|-------------------|-----------------------------|
| TBD* <u>43-13576</u> | <u>7/7/1959</u> | <u>2.07 cfs / 496 acre-ft</u> | <u>commercial</u> | <u>1/1</u> to <u>12/31</u> |
| | | <u>2.07 cfs / 496 acre-ft</u> | <u>stockwater</u> | <u>1/1</u> to <u>12/31</u> |
| *portion of 43-2471 | | | | |
| TBD <u>43-13578</u> | | <u>0.17 cfs / 82.1 acre-ft</u> | <u>irrigation</u> | <u>3/15</u> to <u>11/15</u> |
| *portion of 43-2569 | | | | |

2. Total amount of water being transferred
- 2.24
- cubic feet per second and/or
- 578.1
- acre-feet per annum

3. Source of water
- Ground Water
- tributary to _____

4. Point(s) of Diversion:

Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Local name for diversion
		SE	NW	6	11S	27E	Cassia	
		SE	NW	6	11S	27E	Cassia	2 nd well in same 40-acre tract
5		SW	NW	6	11S	27E	Cassia	
		NE	SE	1	11S	26E	Cassia	

5. Lands irrigated or place of use:

Twp	Rge	Sec	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11S	27E	6		S L 2	S		S L 3	S L 4	C, S L 5	C, S	S	S L 6							
11S	27E	6		4 L 2	3		38 L 3	45 L 4	46 L 5	39	18	40 L 6							233

S = stockwater ; C = commercial

Total Acres 40 acres of irrigation within 233 acre PPU

PART 1**6. General Information:**

- a. Description of diversion system Up to four proposed wells with electric pumps will divert ground water for stockwater and commercial use in a dairy and up to 40 acres of irrigation on the dairy site
- b. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts?
 _____ Yes X No. If yes, provide a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes.
- c. Describe the affect on the land now irrigated if the place of use is changed pursuant to this transfer:
124 acres of the place of use under water right 43-2471 will no longer be irrigated after the transfer
- d. Remarks:

Water right 43-2471 authorizes a total of 360 acres and is partly overlapped by water right 43-2569 by about 192 acres. A 124-acre part of the non-overlapped portion of right 43-2471 is proposed for transfer to stock and commercial use associated with a dairy. The applicant agrees to limit total diversion volume to the consumptive portion of the transferred right. The proposed consumptive portion is based on the irrigation requirement of 970 mm (3.18 ft) per year based on an average growing season precipitation deficit from three climate stations in the vicinity of the farm for alfalfa hay, a typical crop grown on the associated land (see Table 1, below)¹. The consumptive use for 124 acres of alfalfa hay totals 394 acre-feet. This amount is sufficient to meet the anticipated required quantity of 373.3 acre-feet per the attached Dairy Water Use Worksheet plus an additional 5% margin-of-safety volume. This quantity will supply 6,000 milking, 1,000 dry, and 5,000 replacement cows and associated dairy water requirements. Dairy wastewater will be land applied and/or discharged into a lagoon.

Forty (40) acres of the non-overlapped portion of 43-2569 will be used within a 233-acre permissible place of use at the dairy site for landscape and grass cover. Other irrigation water rights currently listing a place of use within the dairy site will be moved; a companion transfer changes the places of use and points of diversion for irrigation water rights 43-2472, 43-2475, and the remaining portion of 43-2569, moving them from the dairy site to other locations within the farm.

ETIdaho Consumptive Irrigation Requirements				
Crop	Precipitation Deficit, Growing Season, mm/yr			
	Minidoka Dam	Malta 1 NE	Malta - AgriMet	Average
Alfalfa - less frequent cuttings	958	1035	893	962
Alfalfa - frequent cuttings	978	1054	903	978
Average	968	1045	898	970

Table 1: Consumptive Irrigation Water Requirments, ETIdaho (www.kimberly.uidaho.edu/ETIdaho).

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Transfer of Water Rights No. _____

And the said application is hereby _____, subject to the following conditions:

Witness my hand this _____ day of _____, 20 _____.

For the Director

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

**APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2**

(Attach one copy for each right)

RECEIVED

FEB 07 2008

DEPT. OF WATER RESOURCES
SOUTHERN REGION

A. DESCRIPTION OF RIGHT AS RECORDED**SEE ATTACHED PARTIAL DECREE FOR 43-2471**

1. Right as evidenced by:

- a. Decree No. _____ Decreed to _____
in case of _____ vs. _____
dated _____ in _____ county of _____
- b. License No. _____ issued by the Idaho Department of Water Resources.
- c. Claim No. _____ on file with the Idaho Department of Water Resources.
- d. Transfer No. _____ which produced this right.

2. Attach copy of last year's tax notice for the property to which the water right is appurtenant or other documents which show ownership. Label document as attachment A. Check appropriate box below:

☐ Tax Notice☐ Warranty Deed☒ Other Applicant is owner of record

3. Source of water _____ tributary to _____

4. Date or priority _____

5. Water is used for the following purposes:

amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

6. Total amount of water under right _____ cubic feet per second and/or _____ acre-feet per annum.

7. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

8. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total Acres _____

9. Describe any other water rights used for the same purpose as described above See "Conditions of Approval" listed on the right.

PART 2

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use?

No _____ If yes, describe _____

B. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED

(If the entire right is to be changed by the applicant, omit part B and C.)

1. amount 2.07 cfs / 496 ac-ft for irrigation purposes from 3/15 to 11/15
 (cfs/ac-ft)
 amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)

2. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

3. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11S	26E	1		4 L2			40 L3	40 L4	40										124

Total Acres 124

C. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. amount 3.93 cfs / 944 ac-ft for irrigation purposes from 3/15 to 11/15
 (cfs/ac-ft)
 amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)
 amount _____ for _____ purposes from _____ to _____
 (cfs/ac-ft)

2. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion
	SE	NW	SW	1	11S	26E	Cassia	

3. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11S	26E	1	40 L1	36 L2	40	40				40	40								236

Total Acres 236

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2

(Attach one copy for each right)

RECEIVED
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DEPT. OF WATER RESOURCES
SOUTHERN REGION

D. DESCRIPTION OF RIGHT AS RECORDED

SEE ATTACHED PARTIAL DECREE FOR 43-2569

1. Right as evidenced by:

- e. Decree No. _____ Decreed to _____
in case of _____ vs. _____
dated _____ in _____ county of _____
- f. License No. _____ issued by the Idaho Department of Water Resources.
- g. Claim No. _____ on file with the Idaho Department of Water Resources.
- h. Transfer No. _____ which produced this right.

2. Attach copy of last year's tax notice for the property to which the water right is appurtenant or other documents which show ownership.
Label document as attachment A. Check appropriate box below:

- ☐ Tax Notice ☐ Warranty Deed ☒ Other Applicant is owner of record

3. Source of water _____ tributary to _____

4. Date or priority _____

5. Water is used for the following purposes:

- amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)
- amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)
- amount _____ for _____ purposes from _____ to _____
(cfs/ac-ft)

6. Total amount of water under right _____ cubic feet per second and/or _____ acre-feet per annum.

7. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

8. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

Total Acres _____

9. Describe any other water rights used for the same purpose as described above See "Conditions of Approval" listed on the right.

PART 2

10. To your knowledge, has any portion of this water right undergone a period of five or more consecutive years of non-use?

No

If yes, describe _____

E. DESCRIPTION OF PORTION OF RIGHT BEING TRANSFERRED

(If the entire right is to be changed by the applicant, omit part B and C.)

1. amount 0.17 cfs /82.1 ac-ft for irrigation purposes from 3/15 to 11/15
(cfs/ac-ft)

2. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion

3. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11S	26E	6								40									40

Total Acres 40

F. DESCRIPTION OF UNCHANGED PORTION OF RIGHT (omit if there is no change)

1. amount 4.08/1987.9 for irrigation purposes from 3/15 to 11/15
(cfs/ac-ft)

2. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion
	SW	SW	SW	32	10S	27E	Cassia	

3. Lands irrigated or place of use:

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
11S	26E	1	40 LT 1	12 LT 2	39	40				22	40	2		13	38	36	2	35	319
	27E	5										40	40						80
	27E	6	40 LT 1	40 LT 2	40	40	40 LT 3	40 LT 4	24 LT 5		36	34 LT 6	35 LT 7	40	40	40	40	40	569

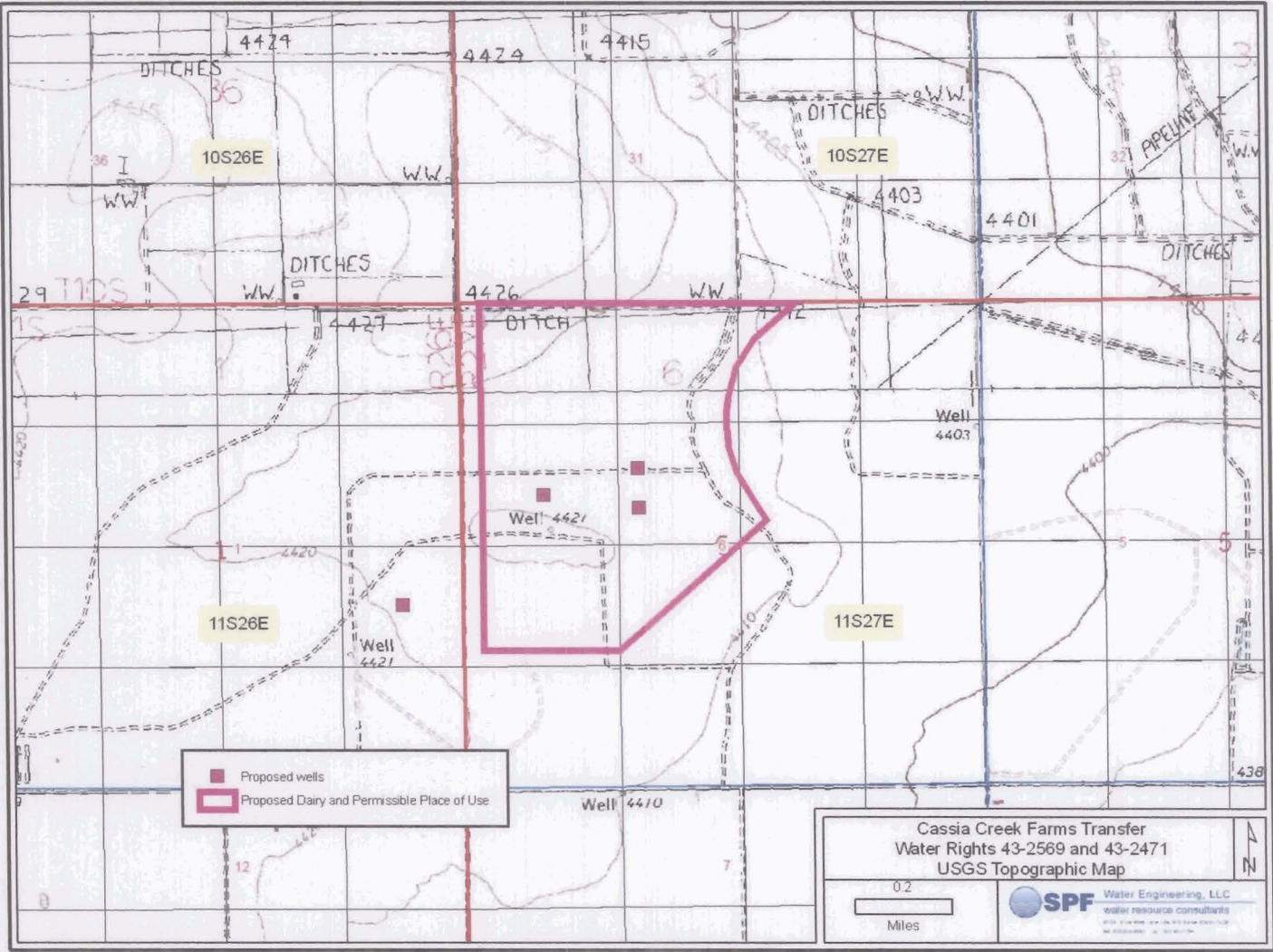
Total Acres 968

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3

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FEB 07 2008
DEPT. OF WATER RESOURCES
SOUTHERN REGION

A. Draw a map or attach a USGS map indicating the new point(s) of diversion and/or the new place of use for the rights described in part 1. Clearly depict the land by section, township and range number.



PART 3**B. CHANGES IN NATURE OF USE**

1. New Nature of Use Amount(cfs/ac-ft) Hours/days/year Period of Use
Commercial & stockwater 2.07 cfs / 394 ac-ft avg 6.3 hr/day, 365 days/yr 1/1 to 12/31
 _____ to _____

Quantity and quality of return flows and location of discharge: No anticipated return flows. Dairy wastewater will be land applied and/or discharged to a lagoon.

2. Describe effects on other water uses resulting from the proposed change:

This transfer will result in a reduction of 124 irrigated acres. The 394 acre-feet of stock and commercial use will be offset by the corresponding reduction in irrigated acres.

I hereby assert that no one will be injured by such change and that the change does not constitute an enlargement in use of the original right. The information contained in this application is true to the best of my knowledge.

I understand that any willful misrepresentations made in this application may result in voiding its approval.

[Signature]
 (Signature of Applicant)

Subscribed and sworn to before me this 28th day of January, 20 08.

[Signature]
 (Notary Public)

My commission expires March 2, 2008

**FOR DEPARTMENT USE ONLY**

Transfer contains _____ pages and _____ attachments

Received by _____ Date _____ Protest filed by _____

Prelim. Check by _____ Fee _____

Received by _____ Date _____

Published in _____ Copies of protest forwarded by _____

Pub. Dates _____ Hearing held by _____ Date _____

Watermaster recommendations requested on _____ Recommended for ☐ approval ☐ denial

_____ received _____ by _____

Copy of transfer sent to lien holder _____

PROJECT Cassia Creek Farms
PREPARED BY SPF Water Engineering / Scott King
DATE December 28, 2007

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE	6000
NUMBER OF DRY CATTLE	1000
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS	833
3-4 MONTHS	833
5-8 MONTHS	833
9-12 MONTHS	833
13-15 MONTHS	834
16-24 MONTHS	834
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC COW WASHING, OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS	2
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN	20
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN)	5.00
TOTAL OPERATION TIME OF SPRINKLERS (MIN/DAY)	600
NUMBER OF MILKINGS PER DAY	3
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.)	80
ARE THERE SEPARATE PUMPS FOR COMMERCIAL AND STOCKWATER USES?	N
IF SO: HOW MANY HOURS PER DAY DOES THE STOCKWATER PUMP RUN?	
HOW MANY HOURS PER DAY DOES THE COMMERCIAL PUMP RUN?	
IF ONLY ONE PUMP, HOW MANY TOTAL HOURS PER DAY DOES IT RUN?	12.0
IS A PLATE COOLER USED?	Y
IS PLATE COOLER WATER LATER RECYCLED FOR OTHER USES? (IF NO PLATE COOLER, LEAVE BLANK)	Y
ARE CORRAL MISTERS USED IN HOLDING PEN?	Y
IF USING CORRAL MISTERS: NUMBER OF MISTERS (IF UNKNOWN, ASSUME 1 MISTER FOR EVERY 5 COWS)	1587
NOZZLE DISCHARGE (USE 5GPH IF UNKNOWN)	5.00
SPRAY INTERVAL (EX - 2 MIN ON EVERY 5 MIN = 2/5)	2/5
OPERATION TIME OF MISTERS (HRS/DAY)	10
DAYS PER YEAR MISTERS ARE USED	60
ENTER A TOTAL VOLUME IN GPD FOR MISCELLANEOUS WATER USES NOT INDIVIDUALLY CALCULATED BELOW (EX. - RESTROOMS, WASHING MACHINES)	2500

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER	
MILKING CATTLE (BASED ON MILK PRODUCTION)	----
DRY CATTLE @17.0 GPD/HD	----
REPLACEMENT CATTLE	----
TOTAL	1.17

COMMERCIAL	
TOTAL	1.17

TOTAL DIVERSION RATE	1.17
----------------------------	------

DIVERSION VOLUME (AFA):

STOCKWATER	
MILKING CATTLE	221.6
DRY CATTLE	15.1
REPLACEMENT CATTLE	33.7
TOTAL	270.4

COMMERCIAL	
WASHING OF BULK TANK AND RELATED EQUIPMENT	0.6
BACKFLUSH	10.1
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP	3.0
CATTLE WASHING BASED UPON METHOD OF WASHING	80.7
PLATE COOLER	0.0
CORRAL MISTERS	5.8
MISCELLANEOUS USES	2.8
TOTAL	102.9

TOTAL DIVERSION VOLUME	373.3
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CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER	270.4
COMMERCIAL	102.9
TOTAL CONSUMPTIVE USE	373.3
WITH 5% MARGIN OF SAFETY	392.0

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP)	125.00		0.00	0.00	0.00
PUMP EFFICIENCY (%)	70		70	70	70
LIFT (FT)	200		0	0	0
DISCHARGE PRESSURE (PSI)	75		0	0	0
FRICTION LOSSES (FT)	5.0		0.0	0.0	0.0
HOURS PER DAY PUMP OPERATES	6.0		0.0	0.0	0.0

CALCULATIONS

THEORETICAL FLOW RATE (CFS) *	2.04	0.00	0.00	0.00	0.00
DIVERSION VOLUME (AFA) **	368.4	0.0	0.0	0.0	0.0

* IF PUMP EFFICIENCY IS UNKNOWN, 70% MAY BE ASSUMED.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

EVALUATION OF EQUIVALENT IRRIGATED ACREAGE

IRRIGATION RIGHT (BEFORE CHANGE): 43-2471

DIVERSION RATE	6.00 CFS
ACRES OF IRRIGATION	360.0 ACRES
DIVERSION VOLUME	4.0 AC-FT/AC
CONSUMPTIVE USE VOLUME (ET _{crop} , Ahtella, Minidoka Dam, Malta 1E, and Malta AgriMet stations)	3.2 AC-FT/AC
IRRIGATION IS BEING CONVERTED FOR WHICH PORTION OF THE DAIRY OPERATION - STOCKWATER (S), COMMERCIAL (C), OR BOTH (B)?	
	B

CALCULATIONS

IRRIGATION DIVERSION RATE PER ACRE	0.017 CFS/AC
REDUCTION OF IRRIGATION BASED ON DIVERSION RATE	70.2 ACRES
REDUCTION OF IRRIGATION BASED ON DIVERSION VOLUME	93.3 ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE	117.4 ACRES
REDUCTION OF IRRIGATION BASED ON CONSUMPTIVE USE WITH 5% MOS	123.3 ACRES

TRANSFERRED QUANTITIES

Transferred Acres	124.00 ACRES
Transferred Diversion Rate	2.07 CFS
Transferred Diversion Volume	496.00 AF
Transferred Consumptive Volume	394.3 AF
Margin of Safety (Surplus Volume)	5.6%
Unchanged Acres	236.00 ACRES
Unchanged Diversion Rate	3.93 CFS
Unchanged Diversion Volume	944.00 AF

ETIdaho -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to roblson at kimberly dot uidaho dot edu Copyright 2007, University of Idaho.

Minidoka Dam (NWS NOAA--105980)

Statistics based on 30 years between 1971 to 2004

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Alfalfa - less frequent cuttings														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Annual
Mean	mm/day												mm	
Monthly ^b	-0.17	0.15	0.53	2.27	5.17	5.77	6.93	4.75	4.47	2.02	-0.13	-0.32	958	965
15-Day Moving Average ^c	-0.27	0.06	0.50	2.20	5.18	5.98	7.18	4.42	4.49	2.00	-0.24	-0.28		
7-Day Moving Average ^d	-0.22	0.11	0.51	2.21	5.18	5.82	7.06	4.56	4.48	2.01	-0.20	-0.30		
3-Day Moving Average ^e	-0.18	0.14	0.53	2.25	5.18	5.77	6.96	4.71	4.48	2.02	-0.16	-0.32		
Standard Deviation	mm/day												mm	
Monthly	0.62	0.35	0.54	0.99	1.51	0.95	1.45	1.05	0.73	1.12	0.51	0.83	92	96
15-Day Moving Average	0.75	0.47	0.55	1.27	1.49	1.41	1.23	1.27	1.14	1.14	0.78	0.68		
7-Day Moving Average	1.03	0.76	0.81	1.62	2.08	2.15	1.55	1.75	1.59	1.53	1.13	0.95		
3-Day Moving Average	1.32	1.11	1.37	2.03	2.74	2.81	1.91	2.18	2.14	1.95	1.64	1.40		
20% Exceedance	mm/day												mm	
Monthly	0.16	0.37	0.57	2.93	5.98	6.39	7.67	5.14	4.97	2.33	0.28	0.15	1024	1047
15-Day Moving Average	0.62	0.72	1.27	4.14	7.35	8.22	8.38	6.53	6.12	3.57	0.98	0.50		
7-Day Moving Average	0.99	1.33	2.00	4.99	8.47	8.98	8.99	7.89	6.98	4.90	1.62	0.91		
3-Day Moving Average	1.37	1.76	3.34	6.66	9.34	9.87	9.66	8.62	7.67	6.10	2.23	1.25		
80% Exceedance	mm/day												mm	
Monthly	-0.62	-0.12	0.26	1.36	4.08	4.74	6.19	4.07	3.81	1.35	-0.61	-0.78	879	868
15-Day Moving Average	-1.64	-0.80	-0.62	0.50	2.39	3.68	4.20	2.48	2.26	0.29	-1.71	-1.43		
7-Day Moving Average	-3.21	-1.72	-1.92	-0.47	0.56	2.16	2.93	1.68	0.90	-1.16	-2.55	-2.90		
3-Day Moving Average	-5.32	-3.49	-4.18	-2.11	-2.59	-0.92	1.17	-0.08	-2.06	-3.65	-5.98	-5.03		
Ave Highest ET	mm/day												--	
15-Day Moving Average ^f	0.40	0.47	1.04	3.20	6.49	7.20	7.87	5.74	5.41	2.98	0.54	0.29		
7-Day Moving Average ^g	0.70	1.00	1.63	4.12	7.76	8.41	8.46	7.17	6.36	4.10	1.13	0.61		
3-Day Moving Average ^h	1.01	1.35	2.58	5.41	8.90	9.35	9.20	8.02	7.18	5.01	1.60	0.98		
Ave Lowest ET	mm/day												--	
15-Day Moving Average ^f	-0.72	-0.26	-0.03	1.29	3.83	4.66	6.20	3.24	3.40	1.14	-0.85	-0.80		
7-Day Moving Average ^g	-1.60	-0.91	-0.81	0.33	2.21	2.52	5.00	2.34	2.17	0.17	-1.66	-1.51		
3-Day Moving Average ^h	-2.90	-2.05	-2.50	-1.17	-0.65	0.49	3.56	1.27	0.16	-1.57	-3.78	-2.98		
Special normal distribution parameters for monthly, seasonal, and annual intervals														
Skew	-0.28	-1.18	0.56	0.45	0.00	-0.77	-0.36	0.30	-0.31	0.30	-0.23	-0.66	0.57	0.41
Kurtosis	0.79	4.62	1.81	4.44	0.67	3.73	0.85	1.03	2.55	0.68	3.14	2.00	2.67	2.26

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.^b Mean of the average daily value for month^c Mean of the fourteen 15-day period averages contained in the month^d Mean of the twenty three 7-day period averages contained in the month^e Mean of the twenty seven 3-day period averages contained in the month^f Mean of the highest/lowest 15-day period average in month^g Mean of the highest/lowest 7-day period average in month^h Mean of the highest/lowest 3-day period average in month

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ETIdaho -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

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Minidoka Dam (NWS NOAA--105980)

Statistics based on 30 years between 1971 to 2004

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Alfalfa - frequent cuttings														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Annual
Mean	mm/day												mm	
Monthly ^b	-0.13	0.19	0.52	2.35	5.30	5.74	6.51	5.63	4.19	2.26	-0.10	-0.30	978	988
15-Day Moving Average ^c	-0.21	0.10	0.49	2.29	5.31	5.32	6.34	5.73	4.25	2.26	-0.21	-0.27		
7-Day Moving Average ^d	-0.17	0.16	0.50	2.28	5.30	5.49	6.41	5.66	4.22	2.26	-0.17	-0.29		
3-Day Moving Average ^e	-0.14	0.18	0.52	2.33	5.30	5.64	6.50	5.64	4.22	2.27	-0.13	-0.31		
Standard Deviation	mm/day												mm	
Monthly	0.63	0.27	0.49	1.01	1.45	1.03	0.62	0.79	0.83	1.13	0.53	0.82	98	100
15-Day Moving Average	0.73	0.42	0.49	1.35	1.46	1.44	1.13	1.39	1.18	1.17	0.82	0.68		
7-Day Moving Average	0.99	0.71	0.77	1.67	2.08	2.17	1.77	1.98	1.61	1.58	1.16	0.97		
3-Day Moving Average	1.28	1.04	1.35	2.11	2.76	2.80	2.19	2.35	2.11	2.02	1.66	1.42		
20% Exceedance	mm/day												mm	
Monthly	0.23	0.43	0.58	3.05	6.25	6.56	6.87	6.07	4.80	2.53	0.17	0.19	1061	1086
15-Day Moving Average	0.62	0.73	1.28	4.17	7.70	7.68	8.38	7.87	6.00	3.70	1.01	0.50		
7-Day Moving Average	0.99	1.33	2.00	5.39	8.76	9.18	9.14	8.49	6.82	5.09	1.62	0.91		
3-Day Moving Average	1.37	1.76	3.34	6.57	9.54	10.20	9.91	8.90	7.39	6.30	2.19	1.25		
80% Exceedance	mm/day												mm	
Monthly	-0.62	-0.09	0.23	1.44	4.21	5.12	6.09	5.22	3.65	1.62	-0.61	-0.75	887	897
15-Day Moving Average	-1.64	-0.63	-0.60	0.50	2.56	3.15	4.61	3.26	2.17	0.35	-1.65	-1.27		
7-Day Moving Average	-3.21	-1.52	-1.85	-0.47	0.63	1.69	2.74	1.69	0.35	-0.99	-2.55	-2.97		
3-Day Moving Average	-5.14	-3.49	-4.98	-2.31	-2.53	-1.04	1.15	0.45	-1.94	-2.96	-5.98	-5.14		
Ave Highest ET	mm/day												--	
15-Day Moving Average ^f	0.40	0.51	1.03	3.37	6.64	6.84	7.88	7.18	5.19	3.28	0.58	0.29		
7-Day Moving Average ^g	0.70	1.00	1.64	4.30	7.94	8.34	8.59	7.94	6.02	4.41	1.17	0.62		
3-Day Moving Average ^h	1.01	1.35	2.60	5.55	9.15	9.36	9.37	8.47	6.83	5.41	1.63	0.98		
Ave Lowest ET	mm/day												--	
15-Day Moving Average ^f	-0.63	-0.20	-0.03	1.34	3.94	4.10	5.10	4.02	3.23	1.30	-0.83	-0.79		
7-Day Moving Average ^g	-1.44	-0.81	-0.79	0.33	2.26	2.52	3.26	2.47	1.97	0.30	-1.65	-1.52		
3-Day Moving Average ^h	-2.74	-1.94	-2.49	-1.22	-0.53	0.44	2.03	1.23	0.10	-1.42	-3.77	-3.06		
Special normal distribution parameters for monthly, seasonal, and annual intervals														
Skew	-0.33	-0.59	0.31	0.29	-0.06	-1.15	0.05	0.02	-0.23	0.40	-0.15	-0.69	0.32	0.29
Kurtosis	0.85	3.33	1.13	3.84	0.68	4.11	0.64	0.78	3.21	0.91	3.24	2.15	2.53	2.34

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.^b Mean of the average daily value for month^c Mean of the fourteen 15-day period averages contained in the month^d Mean of the twenty three 7-day period averages contained in the month^e Mean of the twenty seven 3-day period averages contained in the month^f Mean of the highest/lowest 15-day period average in month^g Mean of the highest/lowest 7-day period average in month^h Mean of the highest/lowest 3-day period average in month

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ETIdaho -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

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Malta (AgriMet --MALI)

Statistics based on 16 years between 1990 to 2005

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Alfalfa - less frequent cuttings														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Annual
Mean	mm/day												mm	
Monthly ^b	-0.02	0.23	0.52	1.98	4.06	5.18	7.20	5.02	4.72	1.07	0.11	-0.19	893	914
15-Day Moving Average ^c	-0.10	0.19	0.47	2.03	3.99	5.36	7.49	4.77	4.89	1.14	0.06	-0.06		
7-Day Moving Average ^d	-0.04	0.20	0.49	2.02	4.01	5.26	7.33	4.92	4.79	1.11	0.05	-0.14		
3-Day Moving Average ^e	-0.03	0.22	0.50	2.02	4.04	5.20	7.24	5.00	4.74	1.05	0.09	-0.17		
Standard Deviation	mm/day												mm	
Monthly	0.45	0.20	0.34	1.30	2.91	1.83	2.22	1.44	0.84	1.44	0.21	0.57	149	153
15-Day Moving Average	0.60	0.25	0.40	1.34	2.43	2.22	1.90	1.53	1.42	1.15	0.32	0.48		
7-Day Moving Average	0.80	0.43	0.64	1.86	2.84	2.95	2.45	2.08	2.19	1.69	0.65	0.80		
3-Day Moving Average	1.02	0.72	1.19	2.57	3.40	3.68	3.03	2.68	2.69	2.65	1.05	1.23		
20% Exceedance	mm/day												mm	
Monthly	0.13	0.32	0.59	2.67	4.89	6.64	8.11	5.61	5.00	1.28	0.26	0.10	1043	1045
15-Day Moving Average	0.40	0.55	1.17	3.88	6.25	8.37	9.47	7.08	6.30	2.83	0.66	0.52		
7-Day Moving Average	0.80	1.03	1.58	4.74	7.42	9.57	10.49	8.92	7.07	4.03	1.26	0.70		
3-Day Moving Average	1.22	1.46	2.30	5.60	8.50	10.52	11.63	10.17	8.30	5.40	1.87	1.23		
80% Exceedance	mm/day												mm	
Monthly	-0.19	0.14	0.34	0.80	2.08	3.51	5.72	4.12	4.03	0.30	-0.06	-0.68	688	706
15-Day Moving Average	-0.84	-0.43	-0.46	-0.41	0.24	2.09	4.14	2.13	1.83	-0.80	-0.75	-1.46		
7-Day Moving Average	-1.88	-0.97	-1.72	-2.75	-1.56	-1.58	2.06	1.43	0.43	-1.91	-2.01	-3.53		
3-Day Moving Average	-4.20	-2.56	-4.95	-8.03	-5.55	-7.13	-3.53	-3.26	-2.00	-4.94	-3.43	-5.41		
Ave Highest ET	mm/day												--	
15-Day Moving Average ^f	0.30	0.41	0.91	3.06	5.61	6.92	8.66	6.28	6.25	2.33	0.48	0.32		
7-Day Moving Average ^g	0.61	0.82	1.33	4.13	6.74	8.26	9.68	7.84	7.31	3.36	1.02	0.55		
3-Day Moving Average ^h	0.95	1.23	2.10	5.28	7.83	9.39	10.79	9.10	8.38	4.54	1.46	0.91		
Ave Lowest ET	mm/day												--	
15-Day Moving Average ^f	-0.40	-0.04	0.12	1.12	2.45	3.79	6.05	3.30	3.30	0.02	-0.30	-0.59		
7-Day Moving Average ^g	-1.01	-0.43	-0.42	-0.44	0.74	1.44	4.33	2.24	1.80	-1.10	-0.97	-1.38		
3-Day Moving Average ^h	-1.99	-1.33	-1.73	-3.37	-2.24	-1.22	1.84	0.30	-0.01	-3.57	-2.16	-2.69		
Special normal distribution parameters for monthly, seasonal, and annual intervals														
Skew	-1.06	-0.85	-0.10	-0.03	-0.09	-0.88	0.04	-0.53	1.14	0.01	-0.91	-0.29	-0.40	-0.47
Kurtosis	2.88	4.13	0.93	3.28	0.85	3.15	0.66	1.35	4.04	0.71	4.31	0.52	1.95	1.99

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.^b Mean of the average daily value for month^c Mean of the fourteen 15-day period averages contained in the month^d Mean of the twenty three 7-day period averages contained in the month^e Mean of the twenty seven 3-day period averages contained in the month^f Mean of the highest/lowest 15-day period average in month^g Mean of the highest/lowest 7-day period average in month^h Mean of the highest/lowest 3-day period average in month

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ETIdaho-- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

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Malta (AgriMet --MALI)
Statistics based on 16 years between 1990 to 2005

For a different land cover or crop click on the above link.
You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Alfalfa - frequent cuttings														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Annual
Mean	mm/day												mm	
Monthly ^b	-0.01	0.23	0.56	2.09	4.13	4.99	6.82	6.01	4.34	1.15	0.10	-0.15	903	927
15-Day Moving Average ^c	-0.08	0.19	0.51	2.11	4.12	4.75	6.66	6.06	4.60	1.25	0.06	-0.03		
7-Day Moving Average ^d	-0.03	0.20	0.53	2.12	4.12	4.82	6.71	6.11	4.47	1.23	0.05	-0.10		
3-Day Moving Average ^e	-0.02	0.22	0.54	2.13	4.12	4.92	6.80	6.03	4.39	1.14	0.09	-0.13		
Standard Deviation	mm/day												mm	
Monthly	0.46	0.20	0.44	1.36	2.71	1.80	1.68	1.46	0.88	1.56	0.26	0.52	141	147
15-Day Moving Average	0.60	0.25	0.46	1.41	2.37	1.97	1.68	1.90	1.52	1.23	0.33	0.42		
7-Day Moving Average	0.79	0.43	0.71	1.92	2.81	2.80	2.45	2.48	2.22	1.86	0.68	0.69		
3-Day Moving Average	1.01	0.72	1.24	2.62	3.37	3.55	3.09	2.96	2.66	2.92	1.07	1.08		
20% Exceedance	mm/day												mm	
Monthly	0.13	0.32	0.61	2.82	5.00	5.85	7.36	6.63	4.61	1.81	0.26	0.10	1041	1054
15-Day Moving Average	0.40	0.55	1.24	3.92	6.75	7.60	9.47	8.30	6.02	3.27	0.66	0.52		
7-Day Moving Average	0.80	1.03	1.85	5.33	7.92	8.89	10.42	9.46	6.85	4.15	1.26	0.70		
3-Day Moving Average	1.22	1.46	2.95	6.27	8.66	9.93	11.45	10.11	7.97	5.47	1.98	1.23		
80% Exceedance	mm/day												mm	
Monthly	-0.11	0.14	0.34	0.72	2.13	3.00	5.65	5.07	3.44	0.34	-0.06	-0.56	713	745
15-Day Moving Average	-0.84	-0.43	-0.46	-0.33	0.23	2.11	4.24	3.13	1.84	-0.80	-0.75	-1.38		
7-Day Moving Average	-1.88	-0.97	-1.72	-2.74	-1.56	-1.40	1.90	2.09	0.43	-1.87	-2.01	-2.47		
3-Day Moving Average	-4.20	-2.56	-4.95	-8.00	-5.55	-6.63	-3.20	-1.73	-2.07	-4.94	-3.43	-4.68		
Ave Highest ET	mm/day												--	
15-Day Moving Average ^f	0.30	0.41	1.00	3.17	5.78	6.38	8.18	7.73	5.90	2.59	0.48	0.32		
7-Day Moving Average ^g	0.61	0.82	1.47	4.29	6.97	8.04	9.56	9.21	7.02	3.69	1.00	0.55		
3-Day Moving Average ^h	0.95	1.23	2.35	5.48	8.04	9.12	10.72	9.88	8.09	4.77	1.50	0.91		
Ave Lowest ET	mm/day												--	
15-Day Moving Average ^f	-0.37	-0.04	0.12	1.21	2.46	3.46	5.15	4.20	3.03	0.12	-0.32	-0.48		
7-Day Moving Average ^g	-0.94	-0.43	-0.42	-0.33	0.63	1.08	3.08	2.54	1.48	-1.06	-1.03	-1.20		
3-Day Moving Average ^h	-1.91	-1.33	-1.73	-3.23	-2.43	-0.97	0.92	0.66	-0.23	-3.50	-2.15	-2.32		
Special normal distribution parameters for monthly, seasonal, and annual intervals														--
Skew	-1.03	-0.85	0.33	-0.04	-0.20	-0.74	0.13	-0.09	1.05	-0.17	-2.01	-0.40	-0.47	-0.55
Kurtosis	2.83	4.13	1.32	3.17	0.79	3.37	0.61	0.90	4.84	0.87	7.76	0.76	2.19	2.25

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

^b Mean of the average daily value for month

^c Mean of the fourteen 15-day period averages contained in the month

^d Mean of the twenty three 7-day period averages contained in the month

^e Mean of the twenty seven 3-day period averages contained in the month

^f Mean of the highest/lowest 15-day period average in month

^g Mean of the highest/lowest 7-day period average in month

^h Mean of the highest/lowest 3-day period average in month

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ETIdaho -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

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Malta 1 NE (NWS NOAA--105563)

Statistics based on 30 years between 1972 to 2002

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Alfalfa - less frequent cuttings														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Annual
Mean	mm/day												mm	
Monthly ^b	-0.05	0.18	0.57	2.86	5.34	6.03	7.56	5.53	4.84	1.72	0.07	-0.11	1035	1062
15-Day Moving Average ^c	-0.11	0.07	0.51	2.88	5.36	6.15	7.89	5.37	4.79	1.76	0.02	-0.12		
7-Day Moving Average ^d	-0.08	0.13	0.55	2.84	5.32	6.10	7.74	5.44	4.80	1.73	0.04	-0.10		
3-Day Moving Average ^e	-0.05	0.16	0.57	2.86	5.32	6.06	7.60	5.52	4.83	1.71	0.06	-0.11		
Standard Deviation	mm/day												mm	
Monthly	0.46	0.35	0.63	1.38	2.20	1.10	1.80	1.35	1.19	1.70	0.29	0.60	122	128
15-Day Moving Average	0.62	0.51	0.62	1.68	1.97	1.62	1.59	1.65	1.82	1.47	0.46	0.58		
7-Day Moving Average	0.85	0.78	0.94	2.01	2.63	2.45	2.21	2.06	2.41	1.83	0.71	0.73		
3-Day Moving Average	1.09	1.14	1.52	2.52	3.39	3.25	3.01	2.57	3.09	2.26	1.10	1.07		
20% Exceedance	mm/day												mm	
Monthly	0.15	0.38	0.75	3.74	6.53	6.97	8.71	6.31	5.50	2.26	0.28	0.17	1118	1163
15-Day Moving Average	0.62	0.62	1.34	5.06	8.26	8.92	9.95	8.11	7.25	3.85	0.73	0.51		
7-Day Moving Average	0.98	1.39	2.22	6.59	9.47	9.98	10.56	8.99	8.76	5.18	1.28	0.92		
3-Day Moving Average	1.56	1.80	3.58	8.02	10.77	11.37	11.59	10.07	9.62	5.99	2.10	1.31		
80% Exceedance	mm/day												mm	
Monthly	-0.25	-0.01	0.33	1.61	3.66	5.15	6.40	4.71	3.92	0.61	-0.23	-0.39	926	933
15-Day Moving Average	-1.22	-0.57	-0.63	0.53	2.14	2.99	4.94	2.94	1.71	0.04	-0.82	-1.07		
7-Day Moving Average	-1.85	-1.19	-1.40	-0.22	-0.53	1.26	2.46	1.88	0.15	-1.53	-1.67	-2.23		
3-Day Moving Average	-4.16	-2.73	-4.62	-2.25	-5.25	-2.63	-1.80	-0.65	-3.22	-4.35	-3.71	-4.31		
Ave Highest ET	mm/day												--	
15-Day Moving Average ^d	0.40	0.43	1.10	4.07	6.82	7.74	9.11	6.90	6.43	2.66	0.54	0.26		
7-Day Moving Average ^d	0.67	0.99	1.73	5.21	8.32	9.29	10.03	8.21	7.79	3.67	1.01	0.56		
3-Day Moving Average ^h	1.04	1.48	2.77	6.58	9.69	10.46	10.97	9.25	8.97	4.55	1.51	0.84		
Ave Lowest ET	mm/day												--	
15-Day Moving Average ^d	-0.46	-0.22	0.00	1.80	3.81	4.52	6.38	3.87	3.17	0.88	-0.40	-0.39		
7-Day Moving Average ^d	-1.13	-0.78	-0.64	0.74	1.91	2.40	4.48	2.80	1.73	-0.23	-0.97	-0.92		
3-Day Moving Average ^h	-2.32	-1.91	-2.28	-1.12	-1.24	0.07	1.31	0.86	-0.54	-2.09	-2.30	-2.05		
Special normal distribution parameters for monthly, seasonal, and annual intervals														
Skew	-0.52	-1.89	0.42	0.15	-0.03	-0.85	-0.19	0.19	0.26	0.39	0.07	-0.55	0.62	0.74
Kurtosis	1.17	7.13	1.23	2.71	0.68	3.18	0.62	0.67	3.02	1.15	2.89	1.18	3.55	3.09

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.^b Mean of the average daily value for month^c Mean of the fourteen 15-day period averages contained in the month^d Mean of the twenty three 7-day period averages contained in the month^e Mean of the twenty seven 3-day period averages contained in the month^f Mean of the highest/lowest 15-day period average in month^g Mean of the highest/lowest 7-day period average in month^h Mean of the highest/lowest 3-day period average in month

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Questions regarding the data should be addressed to Clarence W. Robison or Richard G. Allen, University of Idaho, Kimberly Research and Extension Center, 3793 North 3600 East, Kimberly, ID 83341. Telephone (208)-423-6610

ETIdaho -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

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Malta 1 NE (NWS NOAA--105563)

Statistics based on 30 years between 1972 to 2002

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Alfalfa - frequent cuttings														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Annual
Mean	mm/day													mm
Monthly ^b	-0.04	0.19	0.60	2.96	5.35	6.25	7.17	6.09	4.70	1.90	0.06	-0.08	1054	1083
15-Day Moving Average ^c	-0.12	0.08	0.53	2.97	5.41	6.07	6.96	5.90	4.71	1.92	0.02	-0.08		
7-Day Moving Average ^d	-0.07	0.14	0.57	2.93	5.34	6.14	7.07	5.99	4.69	1.91	0.04	-0.07		
3-Day Moving Average ^e	-0.04	0.17	0.60	2.96	5.33	6.22	7.15	6.07	4.70	1.90	0.06	-0.08		
Standard Deviation	mm/day													mm
Monthly	0.59	0.31	0.70	1.40	2.14	1.22	1.30	0.93	1.01	1.79	0.29	0.53	122	127
15-Day Moving Average	0.75	0.49	0.65	1.78	2.02	1.74	1.47	1.51	1.71	1.60	0.46	0.53		
7-Day Moving Average	0.96	0.77	0.99	2.13	2.68	2.56	2.34	2.19	2.36	2.01	0.71	0.70		
3-Day Moving Average	1.19	1.12	1.52	2.66	3.45	3.35	3.13	2.76	3.05	2.43	1.09	1.04		
20% Exceedance	mm/day													mm
Monthly	0.15	0.38	0.81	3.96	6.69	6.96	7.93	6.61	5.19	2.88	0.26	0.17	1149	1174
15-Day Moving Average	0.62	0.64	1.40	5.45	8.21	9.05	9.39	8.33	7.10	4.46	0.68	0.51		
7-Day Moving Average	0.98	1.38	2.22	6.85	9.59	10.37	10.64	9.53	8.80	5.64	1.25	0.92		
3-Day Moving Average	1.56	1.80	3.54	8.74	10.80	11.43	11.60	10.28	9.21	6.96	1.96	1.31		
80% Exceedance	mm/day													mm
Monthly	-0.23	-0.01	0.33	1.73	3.80	5.51	6.27	5.65	4.15	0.55	-0.25	-0.36	938	960
15-Day Moving Average	-1.00	-0.57	-0.51	0.53	1.01	3.32	4.37	3.60	1.74	-0.02	-0.82	-0.72		
7-Day Moving Average	-1.83	-1.19	-1.23	-0.22	-0.51	1.11	1.41	1.59	-0.61	-1.53	-1.67	-1.84		
3-Day Moving Average	-3.48	-3.05	-4.58	-2.25	-5.17	-2.89	-2.01	-0.57	-4.33	-4.35	-3.71	-3.98		
Ave Highest ET	mm/day													--
15-Day Moving Average ^d	0.40	0.45	1.14	4.30	6.93	7.90	8.62	7.70	6.39	3.01	0.52	0.27		
7-Day Moving Average ^d	0.68	0.98	1.75	5.49	8.35	9.47	9.93	8.92	7.73	4.13	0.97	0.57		
3-Day Moving Average ^d	1.04	1.48	2.63	6.96	9.75	10.71	10.91	9.86	8.68	5.07	1.50	0.84		
Ave Lowest ET	mm/day													--
15-Day Moving Average ^d	-0.45	-0.20	0.01	1.77	3.75	4.50	5.49	4.33	3.01	0.86	-0.40	-0.36		
7-Day Moving Average ^d	-1.14	-0.79	-0.62	0.63	1.76	2.28	3.05	2.59	1.46	-0.28	-0.96	-0.91		
3-Day Moving Average ^d	-2.38	-1.92	-2.25	-1.21	-1.53	-0.11	0.58	0.85	-0.87	-2.12	-2.27	-2.03		
Special normal distribution parameters for monthly, seasonal, and annual intervals														
Skew	-1.26	-1.84	0.48	0.06	-0.11	-0.95	-0.27	-0.10	-0.18	0.31	0.46	-0.58	0.33	0.43
Kurtosis	4.28	8.44	1.31	2.82	0.53	4.38	0.63	1.14	4.17	1.07	3.72	1.35	3.05	2.72

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.^b Mean of the average daily value for month^c Mean of the fourteen 15-day period averages contained in the month^d Mean of the twenty three 7-day period averages contained in the month^e Mean of the twenty seven 3-day period averages contained in the month^f Mean of the highest/lowest 15-day period average in month^g Mean of the highest/lowest 7-day period average in month^h Mean of the highest/lowest 3-day period average in month

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CASSIA CREEK FARMS LLC

PO BOX 580
DANVILLE, CA 94526

Type of Business: LIMITED LIABILITY COMPANY
Status: EXISTING, ANREPT SENT 01 Nov 2007
State of Origin: IDAHO
Date of 18 Jan 2005

Origination/Authorization:
Current Registered Agent: HALL FARLEY OBERRECHT & BLANTON PA
702 W IDAHO ST STE 700
BOISE, ID 83702

File Number: W36013
Date of Last Annual Report: 19 Nov 2007
Original Filing:

Filed 18 Jan 2005 ARTICLES OF ORGANIZATION
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Cassia Creek Farms Water Rights For Transfer

snk 2/5/2008

Number	Priority Date	Maximum Diversion Rate (cfs)	Water Uses	Acres Irrigated	Volume Limit (AFA)	Combined Use Limits
43-2471	7/7/1959	6	Irrigation	360	1440	(1) 43-2471, 43-2472, 43-2475, 43-2569, 43-4199 = 25.75 cfs / 5456 af / 1364 acres (2) 43-2471, 43-2472, 43-4199 = 13 cfs / 3312 AF
43-2472	7/7/1959	7	Irrigation	360	1440	(1) 43-2471, 43-2472, 43-2475, 43-2569, 43-4199 = 25.75 cfs / 5456 af / 1364 acres (2) 43-2471, 43-2472, 43-4199 = 13 cfs / 3312 AF
43-2473	7/7/1959	5.6	Irrigation	400	1600	(3) 43-2473, 43-2519 = 2496 AF / 624 acres
43-2475	7/7/1959	8.5	Irrigation	455	1820	(1) 43-2471, 43-2472, 43-2475, 43-2569, 43-4199 = 25.75 cfs / 5456 af / 1364 acres (4) 43-2475, 43-2569 = 3890 AF / 1063 acres
43-2488	2/11/1960	5.6	Irrigation	300	1200	(5) 43-2488, 43-2519 = 2256 AF / 564 acres
43-2489	2/11/1960	8.9	Irrigation	465	1860	none
43-2504	10/24/1960	6.4	Irrigation	380	1520	none
43-2505	10/24/1960	6.4	Irrigation	370	1480	none
43-2516	3/21/1961	0.6	Irrigation	30	120	none
43-2517	3/21/1961	3	Irrigation	150	525	none
43-2519	3/28/1961	4.2	Irrigation	304	1216	(3) 43-2473, 43-2519 = 2496 AF / 624 acres (5) 43-2488, 43-2519 = 2256 AF / 564 acres
43-2569	9/4/1963	4.25	Irrigation	1008	2070	(1) 43-2471, 43-2472, 43-2475, 43-2569, 43-4199 = 25.75 cfs / 5456 af / 1364 acres (4) 43-2475, 43-2569 = 3890 AF / 1063 acres (6) 0.02 cfs / 4.0 acre feet per acre
43-2575	5/20/1964	6.08	Irrigation	612	2448	none
43-4199	3/15/1962	2.16	Irrigation	108	432	(1) 43-2471, 43-2472, 43-2475, 43-2569, 43-4199 = 25.75 cfs / 5456 af / 1364 acres (2) 43-2471, 43-2472, 43-4199 = 13 cfs / 3312 AF
43-13351	3/10/1975	0.39	Irrigation	19.5	67.4	none
43-13352	3/10/1975	0.37	Irrigation	18.3	63.2	none

SUMMARY			
	Maximum Diversion Rate (cfs)	Acres Irrigated	Volume Limit (AFA)
Irrigation Totals	73.29	4,295.8	17,087.6
Transfer to Dairy Use	2.07	124.0	496.0
Remaining Irrigation	71.22	4,171.8	16,591.6
Irrigation at the Dairy	0.17	40.0	82.1
Remaining Non-Dairy Irrigation	71.05	4,131.8	16,509.5