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DEC 09 2008

Transfer No. 75285WATER RESOURCES
WESTERN REGION OF IDAHO
DEPARTMENT OF WATER RESOURCESAPPLICATION FOR TRANSFER OF WATER RIGHT
PART 1Name of Applicant Boise Valley Irrigation Ditch Co. Phone (208)853-5288Post Office address 8750 N. Bogart Ln., Boise, ID 83714Name of Attorney Charlie Honsinger Phone (208) 342-4591Post Office address Ringert Law, P.O. Box 2773, Boise, ID 83701

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 Boise Valley Irrigation Ditch Co. (BVIDC) seeks to change the nature of use of a portion of water right 63-31832 from irrigation to aesthetic use to mitigate for evaporative losses from ponds shown on the accompanying application for permit in the name of Woods No. 3 Owners Association, Inc. Total pond surface area is 4.5 acres.

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
<u>63-31832</u>	<u>6/1/1865</u>	<u>49.24 cfs/10,229 ac-ft</u>	<u>Irrigation</u>	<u>3/1</u> to <u>11/15</u>
		<u>14.5 ac-ft</u>	<u>Irrigation Storage</u>	<u>1/1</u> to <u>12/31</u>
		<u>14.5 ac-ft</u>	<u>Irrigation fr Storage</u>	<u>3/1</u> to <u>11/15</u>
		<u>0.27 cfs</u>	<u>Aesthetic</u>	<u>3/1</u> to <u>11/15</u>
		<u>30.6 ac-ft</u>	<u>Aesthetic Storage</u>	<u>1/1</u> to <u>12/31</u>

2. Total amount of water being transferred 0.10 cubic feet per second and/or 16.1 acre-feet per annum.3. Source of water Boise River tributary to Snake River

4. Point(s) of Diversion:

Lot	¼	¼	¼	Sec	Twp	Rge	County	Local name for diversion
	NE	SE	NE	5	3N	2E	Ada	BVIDC headgate #21

5. Lands irrigated or place of use: Use within the boundary of Boise Valley Irrigation Ditch Co.

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 _____

PART 1

6. General Information:

- a. Description of diversion system BVIDC Headgate #21
- b. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts?
 _____ Yes ☒ 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:
None. Five acres will no longer be irrigated.
- d. Remarks:

BVIDC has several water rights and chose 63-31832 to be affected by the transfer application. The transfer will serve as mitigation for 4.5 acres of existing pond area located within Woods No. 3 Subdivision. An accompanying application for permit is being submitted by Woods No. 3 Owners Association for the existing ponds.

The ponds intercept and fill with shallow ground water. The intent of this transfer application is to provide mitigation for potential effects to existing water rights due to evaporative losses resulting from the ponds. Woods No. 3 Owners Association has purchased 5 shares from BVIDC that will be delivered through Headgate #21 to the Elmore Drain which runs through the subdivision. (Each share represents 0.02 cfs and one acre of irrigation.) It is likely that turf grass has been irrigated with these shares in the past due to the urban location of the irrigation company.

ET data from the Kimberly U of I Research Center web site (<http://www.kimberly.uidaho.edu/ETIdaho>) was used for this calculation (specifically the Boise WSFO Airport station). According to the website, turf grass in this area has an annual consumptive use of 3.22 af/acre (based on the monthly mean). Consumptive use for 5.0 acres of turf grass is calculated to be 16.1 af. Using the website data, shallow ponds in this area have an annual consumptive use of 2.15 af/acre (based on the monthly mean). Consumptive use for 4.5 acres of pond surface area is calculated to be 9.66 af. Using a 1:1 consumptive use ratio, retiring 5 acres from irrigation more than compensates for evaporative losses resulting from the ponds.

As recommended for partial decree, water right 63-31832 has an irrigation diversion rate of 49.34 cfs and volume of 10,251.5 afa, and is limited to 2,808.43 acres of irrigation. This transfer application proposes that the irrigation diversion rate be reduced to 49.24 cfs ($49.34 \text{ cfs} - (5 \text{ ac} \times .02 \text{ cfs})$) and the volume to 10,229 afa ($10,251.5 \text{ afa} - (5 \text{ ac} \times 4.5 \text{ afa})$), with 0.10 cfs ($5 \text{ ac} \times .02 \text{ cfs}$) converted and added to aesthetic use, 16.1 afa ($3.22 \text{ afa} \times 5 \text{ ac}$) converted and added to aesthetic storage, and irrigation acreage reduced and limited to 2,803.43 acres.

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)

A. DESCRIPTION OF RIGHT AS RECORDED See Attached SRBA Recommendation

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 Stock certificates

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 63-147B, 63-2360, 63-31198, 63-31832

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 0.10 cfs/22.5 afa for Irrigation purposes from 3/1 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: N/C

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

3. Lands irrigated or place of use: 5 acres within the BVIDC service area (pond areas described below)

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	
4N	1E	23				Lt 1 2									Lt 1 3				5

Total Acres 5

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

1. amount _____ for _____ purposes from _____ to _____
 (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	

Total Acres _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

**APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3**

See Attached Maps

- 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.

The grid is a 10x10 array of squares. Each square represents a section of land. The grid is used for drawing a map or attaching a USGS map indicating the new point(s) of diversion and/or the new place of use for the rights described in part 1. The grid is used to clearly depict the land by section, township, and range number.

Scale: 2 inches equal 1 mile. Draw plan in ink.

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

1. <u>New Nature of Use</u>	<u>Amount(cfs/af-ft)</u>	<u>Hours/days/year</u>	<u>Period of Use</u>
<u>Aesthetic Storage</u>	<u>16.1 af</u>	<u>24/7</u>	<u>1/1</u> to <u>12/31</u>
<u>Aesthetic</u>	<u>0.10 cfs</u>	<u>Existing delivery schedule</u>	<u>3/1</u> to <u>11/15</u>

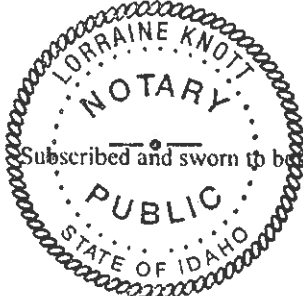
Quantity and quality of return flows and location of discharge: No change in quantity. Quality of return flow may improve due to reduced overland flow for irrigation of turf grasses.

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

Transferred water will be used as mitigation to offset evaporative losses from ground water fed ponds. Because historic consumptive use associated with 5 acres of turf grass is greater than the consumptive use associated with the existing ponds, the effects on other water users should not be an issue.

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.



Stanley Matlock
(Signature of Applicant)

Subscribed and sworn to before me this 17 day of Nov., 20 08

Lorraine Knott
(Notary Public)

My commission expires 2-4-2014

FOR DEPARTMENT USE ONLY

Transfer contains 6 pages and 3 (9 pages) attachments

Received by DB Date 12-9-08 Protest filed by _____

Prelim. Check by VLW Fee \$250-

Received by DB / W037084 Date 12-9-08

Published in IDAHO STATESMAN Copies of protest forwarded by _____

Pub. Dates OCTOBER 7 & 14, 2010 Hearing held by _____ Date _____

Watermaster recommendations requested on _____ Recommended for ☐ approval ☐ denial

_____ received _____ by _____

ATTACHMENT A
WATER RIGHT RECORD

X-fer 75285 A,

[Close](#)IDAHO DEPARTMENT OF WATER RESOURCES
Adjudication Recommended Right Report

10/27/2008

WATER RIGHT NO. 63-31832

Owner Type	Name and Address
Current Owner	BOISE VALLEY IRRIGATION DITCH CO 8750 N BOGART LN BOISE, ID 83714 (208)853-5288
Attorney	RINGERT CLARK CHARTERED 455 S 3RD ST PO BOX 2773 BOISE, ID 83701-2773 (208)342-4591

Priority Date: 06/01/1865
Basis: Decreed
Status: Active

Source	Tributary
BOISE RIVER	SNAKE RIVER

Beneficial Use	From	To	Diversion Rate	Volume
IRRIGATION	03/01	11/15	49.34 CFS	10251.5 AFA
IRRIGATION STORAGE	01/01	12/31		14.5 AFA
IRRIGATION FROM STORAGE	03/01	11/15		14.5 AFA
AESTHETIC	03/01	11/15	0.17 CFS	
AESTHETIC STORAGE	01/01	12/31		14.5 AFA
Total Diversion			49.51 CFS	

Location of Point(s) of Diversion

BOISE RIVER | NESENT | Sec. 05 | Township 03N | Range 02E | ADA County

Place(s) of use: [Large POU Info](#)

Conditions of Approval

- 1 | THIS RIGHT IS DESIGNATED AS NO 15 IN THE BOISE RIVER WATER MASTER RECORDS AND THE STEWART DECREE.
- 2 | 155 | This right shall receive 100 percent of its decreed quantity until the natural flow of the waters of the Boise River shall decrease so that all rights containing this condition cannot receive 100 percent of their decreed quantities, at which time this right and the other rights containing this condition shall first be cut to 75 percent of their decreed quantities, as the natural flow of the river decreases, beginning with the latest rights containing this condition and preceding to the earliest rights containing this condition in the order of their priority dates, and after all of the rights containing this condition shall have been reduced to 75 percent of their decreed quantities, should the natural flow of the waters of the river decrease below the amount necessary to supply 75 percent of those decreed quantities, then this right and the other rights containing this condition, beginning with the latest and preceding to the earliest, shall be reduced to 60 percent of their decreed quantities.
- 3 | X30 | Rights 63-120G, 63-123C, 63-123D, 63-123E, 63-123F, 63-123G, 63-124Q, 53-125J, 63-126F, 63-165M, 63-198AG, 63-248, 63-297, 63-2360, 63-18700, 63-21729, 63-31937 are also diverted through the point of diversion described above.
- 4 | K08 | THIS RIGHT IS LIMITED TO THE IRRIGATION OF 2808.43 ACRES WITHIN THE BOUNDARY OF BOISE VALLEY IRRIGATION DITCH COMPANY.
- 5 | R05 | Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 63.
- 6 | 135 | The boundary encompassing the irrigation from storage place of use for this water right is described with a digital boundary as defined by I.C. Section 42-202B(2) and authorized pursuant to I.C. Section 42-1411(2)(h). The data comprising the digital boundary are incorporated herein by reference and are stored on a CD-ROM disk issued in duplicate originals on file with the SRBA District Court and the Idaho Department of Water Resources. A map depicting the place of use is attached hereto to illustrate the place of use described by the digital boundary.
- 7 | S45 | Diversion for irrigation and aesthetic under this water right prior to April 1 and after October 31 shall occur only as authorized by the Water District 63 Water Master and only when water is being released for flood control by the United States from the Lucky Peak Dam outlet under procedures and requirements for the Memorandum of Agreement between the U.S. Department of the Army and the U.S. Department of the Interior for Flood Control Operations of the Boise River Reservoirs, dated November 20, 1953, the Water Control Manual for Boise River Reservoirs dated April 1985 and any future amendments or revisions made thereto pursuant to state or federal procedures or law, provided that any such use of this water right prior to April 1 and after October 31 shall be subordinated to water rights for storage in Lucky Peak Reservoir, Lake Lowell, Arrowrock Reservoir, and/or Anderson Ranch Reservoir, as decreed in SRBA Case No. 39576. This period of use condition does not apply to Irrigation Storage and Aesthetic Storage.
- 8 | Water is delivered through the Farmers Union and Boise Valley canals.

X-fer 75285

A2

9. P21 This right is a split from former right 63-147.
10. R43 The right holder shall maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion.
11. X56 The portion of Right 63-31832 used for conveyance losses is 5.94 cfs.
12. C18 This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

Dates:

Other Information:

State or Federal:

Owner Name Connector:

Water District Number 63

Generic Max Rate per Acre: 0.02

Generic Max Volume per Acre: 4.5

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

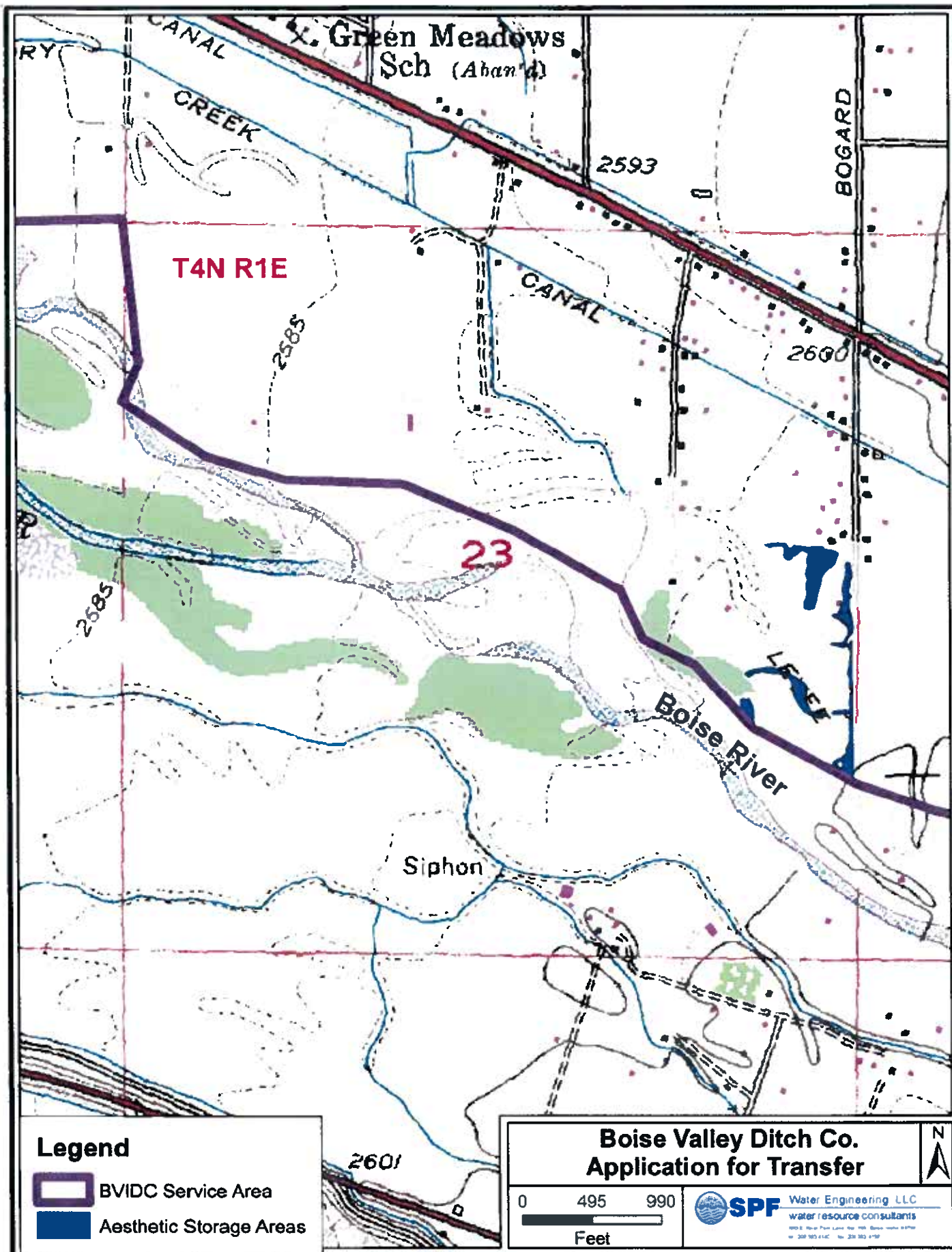
Cary Act Number:

Mitigation Plan: False

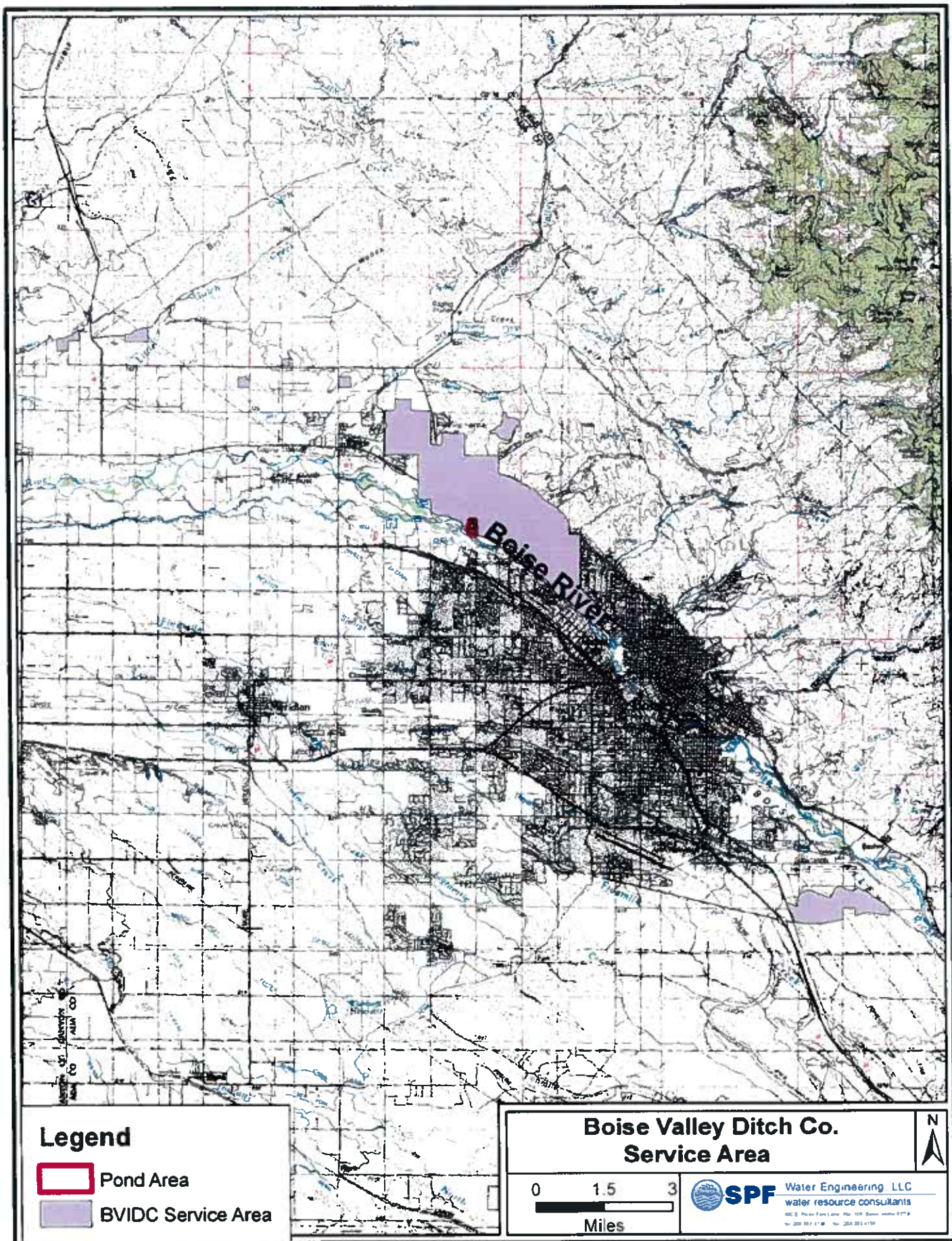
Close

ATTACHMENT B
TRANSFER MAPS

X-fer 75285 A4



X-fer 75285
As



ATTACHMENT C
ET IDAHO DATA

X-fer 75285 A7

ETIdaho -- Evapotranspiration and Consumptive Irrigation Water Requirements for IdahoPlease send suggestions for improving this site to robbison@kimberly.uidaho.edu Copyright 2007, University of Idaho.**Boise WSFO Airport (NWS NOAA--101022)**

Statistics based on 30 years between 1974 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.

Grass - Turf (lawns) - Irrigated														
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	0.12	0.53	2.84	4.43	5.91	6.55	5.66	4.05	2.32	-0.20	-0.13	984	982
15-Day Moving Average ^c	0.00	0.07	0.46	2.91	4.31	6.02	6.64	5.37	3.97	2.34	-0.28	-0.12		
7-Day Moving Average ^d	-0.01	0.11	0.49	2.85	4.46	5.99	6.61	5.62	3.98	2.32	-0.28	-0.14		
3-Day Moving Average ^e	-0.01	0.13	0.53	2.84	4.43	5.95	6.56	5.66	4.02	2.32	-0.23	-0.13		
Standard Deviation	mm/day												mm	
Monthly	0.18	0.16	0.88	0.97	1.60	0.88	0.76	0.80	0.95	1.32	0.53	0.38	93	95
15-Day Moving Average	0.18	0.23	0.84	1.16	1.59	1.16	0.71	0.90	1.24	1.26	0.73	0.35		
7-Day Moving Average	0.30	0.43	1.14	1.66	2.12	1.68	0.97	1.20	1.62	1.63	1.05	0.52		
3-Day Moving Average	0.48	0.65	1.60	2.37	2.85	2.42	1.62	1.71	2.19	2.05	1.47	0.74		
20% Exceedance	mm/day												mm	
Monthly	0.07	0.24	0.87	3.52	5.17	6.82	6.94	6.19	4.93	3.02	0.06	0.03	1054	1044
15-Day Moving Average	0.21	0.47	1.74	4.88	6.68	7.44	7.62	6.71	5.38	3.88	0.90	0.26		
7-Day Moving Average	0.38	0.88	2.49	5.73	7.40	8.43	8.74	7.30	6.00	4.64	1.46	0.36		
3-Day Moving Average	0.56	1.10	3.36	7.16	9.42	9.58	9.18	8.28	7.00	5.57	2.06	0.58		
80% Exceedance	mm/day												mm	
Monthly	-0.09	-0.02	0.12	1.87	3.85	5.07	6.15	5.07	3.13	1.39	-0.64	-0.48	904	889
15-Day Moving Average	-0.30	-0.26	-0.71	0.88	2.15	3.82	5.30	3.69	1.71	-0.02	-1.55	-0.76		
7-Day Moving Average	-0.62	-0.81	-2.06	-0.77	0.25	1.59	4.08	2.95	0.30	-1.72	-2.73	-1.34		
3-Day Moving Average	-1.44	-1.71	-3.49	-3.59	-4.66	-1.31	1.26	0.73	-3.78	-3.80	-5.04	-2.98		
Ave Highest ET	mm/day												--	
15-Day Moving Average ^f	0.16	0.32	1.17	3.97	5.70	6.96	7.23	6.31	4.82	3.31	0.49	0.15		
7-Day Moving Average ^g	0.11	0.68	1.83	5.01	6.78	7.82	7.80	6.89	5.58	4.06	0.88	0.26		
3-Day Moving Average ^h	0.44	0.98	2.56	6.27	8.16	8.97	8.90	7.95	6.69	4.86	1.32	0.41		
Ave Lowest ET	mm/day												--	
15-Day Moving Average ⁱ	-0.18	-0.13	-0.16	1.87	3.14	4.92	5.94	4.87	3.10	1.38	-0.83	-0.36		
7-Day Moving Average ^j	-0.49	-0.48	-1.02	0.56	1.40	3.31	5.02	4.12	1.94	0.29	-1.65	-0.75		
3-Day Moving Average ^k	-1.12	-1.16	-2.51	-1.82	-1.62	0.78	3.01	2.39	-0.13	-1.42	-3.35	-1.64		
Special normal distribution parameters for monthly, seasonal, and annual intervals														
Skew	-0.42	0.09	0.42	0.20	-0.26	-0.47	-0.11	-0.24	-0.90	-0.17	-0.81	-0.45	0.32	0.27
Kurtosis	1.02	2.58	1.38	2.77	1.14	2.40	0.69	0.81	3.29	0.75	4.68	0.90	2.83	2.89

^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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This work and report were prepared by the University of Idaho Research and Extension Center at Kimberly, Idaho under contract with the Idaho Department of Water Resources. Work was supported by funding from IDWR and the Idaho Agricultural Experiment Station and Idaho Engineering Experiment Station. The authors gratefully acknowledge the long-term evapotranspiration data collection and long-standing advice provided by Dr. James L. Wright, USDA-ARS Kimberly (ret.), the more than two decades of high quality agricultural weather data collection by the U.S. Bureau of Reclamation AgriMet system, and the very long-standing, routine data collection by the hundreds of cooperative weather station volunteers across the state who, for more than one-hundred years, have faithfully observed daily air temperature and precipitation.

The citation for the evapotranspiration data used from this site should be: Allen, Richard G. and Clarence W. Robison, 2006 (Revised 2007). *Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho*, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.

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

$$982/25.4 \times 1/2 = 3.22 \times 5 ac = 16.1$$

ETIdaho --- Evapotranspiration and Consumptive Irrigation Water Requirements for IdahoPlease send suggestions for improving this site to robinson@kimberly.uidaho.edu Copyright 2007, University of Idaho.**Boise WSFO Airport (NWS NOAA--101022)**

Statistics based on 30 years between 1974 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

Open water - shallow systems (ponds, streams)														Growing Season ^a		Annual
Precipitation Deficit (Click here for a graph)																
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
Mean	mm/day												mm			
Monthly ^b	-0.64	-0.09	0.84	2.04	2.90	-4.14	-4.70	-4.03	2.71	1.60	-0.27	-0.61	654	654		
15-Day Moving Average ^c	-0.65	-0.31	0.78	2.05	3.00	-4.26	-4.17	-3.96	2.63	1.64	-0.27	-0.58				
7-Day Moving Average ^d	-0.67	-0.19	0.81	2.01	2.92	-4.22	-4.75	-3.99	2.62	1.59	-0.31	-0.61				
3-Day Moving Average ^e	-0.65	-0.11	0.84	2.03	2.90	-4.19	-4.71	-4.02	2.68	1.59	-0.28	-0.62				
Standard Deviation	mm/day												mm			
Monthly	0.70	0.76	1.26	0.88	1.79	0.81	0.65	0.77	0.91	1.06	0.73	1.12	102	102		
15-Day Moving Average	0.85	1.02	1.25	1.07	1.61	1.03	0.60	0.82	1.20	1.01	0.92	0.96				
7-Day Moving Average	1.21	1.35	1.55	1.63	2.17	1.53	0.85	1.11	1.61	1.41	1.20	1.23				
3-Day Moving Average	1.62	1.72	2.05	2.34	2.86	2.15	1.35	1.51	2.11	1.85	1.64	1.65				
20% Exceedance	mm/day												mm			
Monthly	-0.18	0.46	1.58	2.73	3.75	-4.90	-5.07	-4.53	3.49	2.12	0.24	-0.07	743	743		
15-Day Moving Average	0.40	0.97	2.15	3.60	4.95	-5.46	-5.48	-4.86	3.90	2.75	1.08	0.46				
7-Day Moving Average	0.67	1.50	2.83	4.11	5.61	-5.92	-5.87	-5.20	4.35	3.16	1.40	0.61				
3-Day Moving Average	0.84	1.83	3.66	5.19	6.35	-6.71	-6.40	-5.64	4.85	3.68	1.80	0.84				
80% Exceedance	mm/day												mm			
Monthly	-1.08	-0.60	0.01	1.25	2.47	3.10	-4.38	-3.47	1.81	1.02	-0.95	-1.20	555	555		
15-Day Moving Average	-2.05	-1.35	-1.45	0.25	0.91	2.26	-3.54	-2.31	0.34	-0.28	-1.90	-1.87				
7-Day Moving Average	-3.64	-2.88	-2.94	-2.19	-1.24	0.38	-2.16	-1.43	-1.12	-2.27	-3.02	-3.37				
3-Day Moving Average	-6.37	-5.93	-5.53	-5.12	-6.11	-3.11	-0.50	-0.24	-4.73	-4.79	-5.30	-6.98				
Ave Highest ET	mm/day												--			
15-Day Moving Average ^f	0.19	0.50	1.70	3.07	4.05	5.04	5.24	4.56	3.45	2.38	0.56	0.24				
7-Day Moving Average ^g	0.50	1.12	2.39	3.88	4.05	5.64	5.61	5.00	4.01	3.00	0.91	0.44				
3-Day Moving Average ^h	0.71	1.57	3.06	4.65	5.74	6.29	6.12	5.39	4.60	3.36	1.41	0.66				
Ave Lowest ET	mm/day												--			
15-Day Moving Average ⁱ	-1.39	-0.77	0.01	1.12	1.77	3.33	4.17	3.38	1.87	0.82	-0.95	-1.22				
7-Day Moving Average ^j	-2.45	-1.83	-1.17	-0.44	-0.06	1.90	3.35	2.70	0.68	-0.33	-1.89	-2.12				
3-Day Moving Average ^k	-4.57	-3.54	-3.15	-3.04	-3.14	-0.49	1.00	1.14	-1.41	-2.10	-3.76	-4.00				
Special normal distribution parameters for monthly, seasonal, and annual intervals														--		
Skew	-0.06	-1.02	-0.06	0.04	-0.47	-0.66	-0.12	-0.36	-1.03	-0.16	-0.79	-0.38	-0.20	-0.19		
Kurtosis	0.72	-4.61	0.71	3.18	1.24	2.52	0.60	0.97	3.77	0.83	3.35	1.28	2.94	2.94		

^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. Robinson](mailto:Clarence.W.Robinson@uidaho.edu) or [Richard G. Allen](mailto:Richard.G.Allen@uidaho.edu), University of Idaho, Kimberly Research and Extension Center, 3793 North 3800 East, Kimberly, ID 83341 Telephone (208)-423-6610

$$654 / 254 \times 1/12 = 2.15 \times 4.5 \approx 9.7$$