

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESTransfer No. 79145APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1**AMENDED****AMENDED**Name of Applicant(s) Bannock CountyPhone (208) 236-7211Mailing address 5500 South 5th Pocatello, ID 83204Email cindyh@bannockcounty.us

- ☐ If applicant is not an individual and not registered to do business in the State of Idaho, attach documentation identifying officers authorized to sign or act on behalf of the applicant. Label it **Attachment #1**.
- ☐ Attach water right ownership documentation if Department records do not show the transfer applicant as the current water right owner. Label it **Attachment #2a**.
- ☐ If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s). Label it **Attachment #2b**.
- ☐ Attach documentation of authority to make the proposed change if the applicant is not the water right owner. Label it **Attachment #3**.

Provide contact information below if a consultant, attorney, or any other person is representing the applicant in this transfer process.

☐ No RepresentativeName of Representative Chairman Bannock County CommissionersPhone (208) 236-7211Mailing address 5500 South 5th Pocatello ID 83204Email karla@bannockcounty.us

- ☐ Send all correspondence for this application to the representative and not to the applicant.
- OR
- ☐ Send original correspondence to the applicant and copies to the representative.
- ☐ The representative may submit information for the applicant but is not authorized to sign for the applicant.
- OR
- ☐ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation providing authority to sign for the applicant and label it **Attachment #4**.

I hereby assert that no one will be injured by the proposed changes and that the proposed changes do not constitute an enlargement in use of the original right(s). 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 rejection of the application or cancellation of an approval.

Signature of Applicant or Authorized Representative

Ian N. Service, Chief Civil Deputy prosecutor February 25, 2014

Print Name and Title if applicable

Date

Signature of Applicant or Authorized Representative

Print Name and Title if applicable

Date

RECEIVED**FEB 25 2014**Department of Water Resources
Eastern Region**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 your proposal in narrative form, including a detailed description of non-irrigation uses to justify amounts transferred (i.e. number of stock, etc.), and provide additional explanation of any other items on the application. Attach additional pages if necessary and label it **Part 1A.2. See Attached**

AMENDED**79145**

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESTransfer No. 79145

RECEIVED

FEB 18 2014

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

Department of Water Resources

Name of Applicant(s) Eastern Region Bannock CountyPhone 208 236-7211Mailing address 5500 South 5th, Pocatello ID 83204Email cindyh@bannockcounty.us

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☐ No RepresentativeName of Representative Chairman Bannock Co CommissionersPhone 208 236-7211Mailing address 5500 South 5th, Pocatello ID 83204Email Karla@bannockcounty.us☐ Send all correspondence for this application to the representative and not to the applicant.

OR

☐ Send original correspondence to the applicant and copies to the representative.☐ The representative may submit information for the applicant but is not authorized to sign for the applicant.

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X Karl E. Anderson
Signature of Applicant or Authorized Representative

Karl Anderson Chairman
Print Name and Title if applicable

2/12/14
Date

X Steve Hadley
Signature of Applicant or Authorized Representative

Steve Hadley BCCC
Print Name and Title if applicable

2/12/14
Date

X Howard Manwaring
Signature of Applicant or Authorized Representative

Howard Manwaring BCCC
Print Name and Title if applicable

2/12/14
Date

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 _____
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SUPERCEDED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

AMENDED

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

AMENDED

B. DESCRIPTION OF RIGHTS AFTER THE REQUESTED CHANGES. IF THE RIGHTS ARE BEING SPLIT, DESCRIBE PORTIONS TO BE CHANGED AS THEY WOULD APPEAR AFTER THE REQUESTED CHANGES.

1.	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
All or Part ☒ ☐	29-7329	.82cfs/143.5	Irrigation	04/01 to 10/31	Ground Water
☒ ☐	29-7972	.39cfs/78.8 af	Irrigation	04/01 to 10/31	Ground Water
☐ ☐		.09cfs	Diversion to Storage	01/01 to 12/31	Ground Water
☐ ☐		11.2 ac-ft	Recreation Storage	01/01 to 12/31	Ground Water
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights 1.3 cfs and/or 233.5 ac-ft

2. Total amount of water proposed to be transferred or changed 1.30 cubic feet per second and/or 233.5 acre-feet per annum.

3. Point(s) of Diversion:

- ☒ No changes to point(s) of diversion are proposed-the following chart is therefore not completed. (Proceed to #4.)
☐ Attach Eastern Snake Plain Aquifer analysis if this transfer proposes to change a point of diversion affecting the ESPA.
 Label it Attachment #5.

New ?	Lot	¼	¼	¼	Sec	Twp	Rge	County	Source	Local name or tag #

4. Place of use: (If irrigation, identify with number of acres irrigated per ¼ ¼ tract.)

- ☐ No changes to place of use are proposed-the following chart is therefore not completed. (Proceed to #5.)

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Acre Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	34E	12					24	16.5	4.0		5.0	11.6							61.1
06S	34E	12						R											

Total Acres (for irrigation use) 61.1

AMENDED

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

B. DESCRIPTION OF RIGHTS AFTER THE REQUESTED CHANGES. IF THE RIGHTS ARE BEING SPLIT, DESCRIBE PORTIONS TO BE CHANGED AS THEY WOULD APPEAR AFTER THE REQUESTED CHANGES.

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☐ ☐				to	
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☐ ☐		.09cfs	Diversion to Storage	01/01 to 12/31	Ground Water
☐ ☐		11.2 acre-ft	Recreation Storage	01/01 to 12/31	Ground Water
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights 1.30 cfs and/or 233.5 ac-ft

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Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Acre Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06s	34e	12		24	5			16.5	11.6			4							61.1
								R											

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Total Acres (for irrigation use) 61.1

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

5. General Information:

- a. Describe the complete diversion system, including how you will accommodate a measuring device and lockable controlling works should they be required now or in the future: The existing well will be fitted with a digital flow meter to measure maximum diversion rate and total volume diverted (AFA).
- b. Who owns the property at the point(s) of diversion? Bannock County
If other than the applicant, describe the arrangement enabling the applicant to access the property for the diversion system: _____
- c. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts?
If yes, ☐ Attach a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes on official letterhead signed by an authorized representative. Label it **Attachment #6**. List the name of the entity and type of lien: _____
- It is the applicant's responsibility to provide notice to lien holder, trustee, mortgagor, or contract holder of the proposed changes that may impact or change the value of the water rights or affected real property. Any misrepresentation of legal encumbrance on this application may result in rejection of the application or cancellation of an approval.
- d. Describe the effect on the land now irrigated if the place or purpose of use is changed pursuant to this transfer: There will be 25 acres no longer irrigated and 15.5 acres irrigated using City of Pocatello culinary water.
- e. Describe the use of any other water right(s) for the same purpose or land, or the same diversion system as right(s) proposed to be transferred at both the existing and proposed point(s) of diversion and place(s) use: _____
- f. To your knowledge, has/is any portion of the water right(s) proposed to be changed:
- | Yes | No | |
|--------------------------|-------------------------------------|---|
| ☐ | ☒ | undergone a period of five or more consecutive years of non-use, |
| ☐ | ☒ | currently leased to the Water Supply Bank, |
| ☐ | ☒ | currently used in a mitigation plan limiting the use of water under the right, or |
| ☐ | ☒ | currently enrolled in a Federal set-aside program limiting the use of water under the rights? |

If yes, describe: _____

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FEB 18 2014

Department of Water Resources
Eastern RegionSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No. _____

MINIMUM REQUIREMENTS CHECKLIST
TO BE SUBMITTED WITH APPLICATION FOR TRANSFER

An application for transfer must be prepared in accordance with the minimum requirements listed below to be acceptable for processing by the Department. Incomplete applications will be returned. The instructions, fee schedule, Part 2A reports and additional Part 2B forms are available from any Department office or on the Department's website at <http://www.idwr.idaho.gov/>.

Check whether each item below is *attached* (Yes) or *not applicable* (N/A) for the proposed transfer.

Yes N/A * Means the item is always required and must be included with the application.

- ☒ * Completed Application for Transfer of Water Right form, Part 1.
- ☒ * Signature of applicant(s) or applicant's authorized representative on Application for Transfer Part 1. Include evidence of authority labeled Attachment #3 (see below) if signed by representative.
- ☒ * Application for Transfer Part 2A. Attach a Part 2A report describing each water right in the transfer as currently recorded.
- ☐ ☐ Complete and attach an Application for Transfer Part 2B for each water right for which only a portion is proposed to be changed through this transfer application. Part 2B forms are available on the Department's website at: http://www.idwr.idaho.gov/WaterManagement/WaterRights/WaterRightTransfers/PDFs_09/WaterRight_TransferApp_Part2B.pdf.
- ☒ * Application for Transfer Part 3A is always required (see Attachment #7a below); Parts 3B and 3C must be completed for transfer applications proposing to change the nature of use of the water right(s) or proposing changes to supplemental right(s).
- ☐ * Correct fee submitted with transfer application form. (Fee schedule is on website and instructions for application for transfer.)

Attachments to Application - Label each attachment with the corresponding number shown below as Attachment #1-9.

- ☐ ☐ #1 If the applicant is a business, partnership, organization, or association, and not currently registered in the State of Idaho as a business entity, attach documentation identifying officers authorized to sign or act on behalf of right holder. (See Part 1.)
- ☐ ☐ #2a Water Right ownership documentation if Dept. records do not show the transfer applicant as the current water right owner.
- ☐ ☐ #2b If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s).
- ☐ ☐ #3 Documentation of authority to make the change if the applicant is not the water right owner.
- ☐ ☐ #4 Power of Attorney or documentation providing authority to sign or act on the applicant's behalf. (See Part 1.)
- ☐ ☒ #5 If the transfer application proposes to change the point of diversion for a water right affecting the Eastern Snake Plain Aquifer (ESPA), attach the results of an ESPA analysis and a detailed mitigation plan to offset any depletions to hydraulically connected reaches of the Snake River. ESPA transfer spreadsheet and model grid labeled cells are available on the Department's website at http://www.idwr.idaho.gov/WaterManagement/WaterRights/WaterRightTransfers/wrt_default.htm.
- ☐ ☐ #6 Notarized statement of agreement or a statement on official letterhead signed by an authorized representative from each lien holder or other entity with financial interest in the water right(s) or land affected by the proposed transfer. (See Part 1.5.c.)
- ☒ * #7a Attach a map identifying the proposed point(s) of diversion, place(s) of use, and water diversion and distribution system details as described on the application. Include legal description labels. If only a portion of the right is proposed to be changed, identify the current location of the part of the existing right(s) proposed to be changed. (See Part 3A.)
- ☒ ☐ #7b If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use.
- ☒ ☐ #8a If the transfer application proposes to change the nature of use or period of use for one or more rights, provide documentation describing the extent of historic beneficial use for the water rights proposed to be transferred and document how enlargement will be avoided. (See Part 3B.)
- ☐ ☐ #8b If the transfer application proposes to change the place of use of a supplemental irrigation right, provide documentation regarding the historic use of the supplemental right(s) and availability or reliability of the primary right(s) being supplemented, both before and after the proposed change. (See Part 3C.)
- ☐ ☐ #9 Other. Please describe: _____

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IDAHO DEPARTMENT OF FISH AND GAME
SOUTHEAST REGION
1345 Barton Road
Pocatello, Idaho 83204

C.L. "Butch" Otter / Governor
Virgil Moore / Director

February 14, 2014

IDWR Eastern Region
900 N Skyline Dr., Suite A
Idaho Falls, ID 83402

SUPERCEDED

RE: Bannock County Water Right Transfer

The Idaho Department of Fish and Game is a partner on this proposed development at the Bannock County Fairgrounds. As such, we intend to pay for the application fees related to the enclosed water right transfer. Please initiate the Interagency Billing for the applicable transfer fee of \$580.00. The PCA is 35423 and the ABC code is C1NX. Please send the billing documents to IDFG Headquarters, Attention: Dr. Walt Poole, P.O. Box 25, Boise, ID 83707.

Sincerely,

A handwritten signature in cursive script, reading "David Teuscher".

David Teuscher
Regional Fisheries Manager
Southeast Region
(208)232-4703



500 South 11th Ave.
Suite 503
Pocatello, Idaho 83201
Phone: 208.239.1953
Fax: 208.233.4644
www.portfound.org

January 27, 2014

Karl Anderson
Chairman, Bannock County Commission
624 East Center
Pocatello, ID 83201

Dear Chairman Anderson,

I hope this letter finds you well. I wanted to follow up with you regarding our oral agreements and work regarding the granting of ownership of the approximately 80 acres north of the current Bannock County Fairgrounds, west of Olympus road, and east of Fairgrounds road. As you know we acquired the land from the Hart family in September of 2013 for approximately \$1.2 million. We will make approximately \$11 million in improvements and will grant/donate it to Bannock County when completed in 2015. We will have a couple of conditions (regarding naming of the complex, dedicated for health and wellness purposes, etc.) that we will work on in consultation with you before final transfer is made.

I'm extremely pleased to be able to commit to this gift, and have enjoyed working with all of the commissioners on this project thus far. I look forward to continuing our great partnership and investing in health in our community in the future.

My very best regards,

A handwritten signature in blue ink that reads "Shaun Menchaca".

Shaun Menchaca
President and CEO
Portneuf Health Care Foundation

[Close](#)

IDAHO DEPARTMENT OF WATER RESOURCES
Water Right Report

1/29/2014

WATER RIGHT NO. 29-7972

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	COUNTY OF BANNOCK 624 E CENTER ST POCATELLO, ID 83201 (208)236-7219

Priority Date: 05/05/1990

Basis: License

Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	4/01	10/31	0.48 CFS	96 AFA
Total Diversion			0.48 CFS	

Location of Point(s) of Diversion:

GROUND WATER|SWNW Lt 5|Sec. 12|Township 06S|Range 34E|BANNOCK County

Licensed Diversion Capacity: 1.87

Place(s) of use:

Place of Use Legal Description: IRRIGATION BANNOCK County

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>
06S	34E	12	5	NWSW	24									

Total Acres: 24

Conditions of Approval:

1. R31 This right when combined with all other rights shall provide no more than .02 cfs per acre nor more than 4.0 afa per acre for irrigation of the lands above.
2. 049 The Director retains jurisdiction of the right to incorporate the use into a water district, require streamflow augmentation or other action needed to protect prior surface water and groundwater rights.
3. 048 The use of water under this right shall not give rise to any claim against the holder of a senior water right based upon the theories of forfeiture, abandonment, adverse possession, waiver, equitable estoppel, estoppel by laches or customary preference.
4. Right 29-07329 is also diverted through the point(s) of diversion described above.

Dates:

Licensed Date: 01/31/1997

Decreed Date:

Permit Proof Due Date: 8/1/1991

Permit Proof Made Date: 7/30/1991

Permit Approved Date: 7/23/1990

Permit Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Water Supply Bank Enrollment Date Accepted:

Water Supply Bank Enrollment Date Removed:

Application Received Date: 05/05/1990

Protest Deadline Date:

Number of Protests: 0

Other Information:

State or Federal:

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Civil Case Number:

Old Case Number:

Decree Plaintiff:

Decree Defendant:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

Close

[Close](#)

IDAHO DEPARTMENT OF WATER RESOURCES
Water Right Report

1/29/2014

WATER RIGHT NO. 29-7329

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	COUNTY OF BANNOCK 624 E CENTER ST POCATELLO, ID 83201 (208)236-7219

Priority Date: 05/12/1976

Basis: Decreed

Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	4/01	10/31	0.82 CFS	143.5 AFA
Total Diversion			0.82 CFS	

Location of Point(s) of Diversion:

GROUND WATER|SWSWNW|Sec. 12|Township 06S|Range 34E|BANNOCK County

Place(s) of use:

Place of Use Legal Description: IRRIGATION BANNOCK County

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>
06S	34E	12		SWNW	5		SENE	23						
				NESW	13		NWSW	0.4						

Total Acres: 41.4

Conditions of Approval:

1. 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:

Licensed Date:

Decreed Date: 03/22/2004

Permit Proof Due Date: 6/1/1981

Permit Proof Made Date: 1/1/1900

Permit Approved Date: 6/22/1976

Permit Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Water Supply Bank Enrollment Date Accepted:

Water Supply Bank Enrollment Date Removed:

Application Received Date:

Protest Deadline Date:

Number of Protests: 0

Other Information:

State or Federal: S

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Civil Case Number:

Old Case Number:

Decree Plaintiff:

Decree Defendant:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

Close

PART 1A.2

The purpose of this transfer is to change the place of use for part of water rights 29-7329 and 29-7972. The application also includes a nature of use change to recreation for a portion of water right 29-7972. The Portneuf Health Care Foundation recently purchased an 80-acre parcel of land that is adjacent to the existing Bannock County Fairgrounds. The Foundation is planning on making several improvements to the land over the next two years. Once the improvements are complete, the foundation will donate the land and improvements to Bannock County (see attached letter from the Foundation). The improvements include the development of new grass fields for outdoor sporting events and a series of walking and biking trails. Current irrigation needs for the newly purchased ground are 40.5 acres of irrigated grass. A 5.3 acre pond will be constructed for recreation. Water to irrigate the new fields and surrounding landscape will be diverted from the existing POD located on the Fairgrounds property. The water will be piped to the lined pond and then pumped from the pond to the new grass fields. Of the current Bannock County water right used for irrigating grass (65.4 acres); 25 acres will no longer be irrigated, 15.5 acres will be water using City of Pocatello culinary water, 4.3 acres will be used to offset evaporation from the pond, and 20.6 acres will continue to be irrigated at the current place of use. Bannock County will rent water from the Water Supply Bank for the initial fill of the pond.

Attachment # 7A



Attachment # 7B

Irrigation at Bannock County Fairgrounds



Continued

Past Irrigation



Future Irrigation



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[illegible]

ET_{Idaho} 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison@kimberly.uidaho.edu Copyright 2012, University of Idaho.

Fort Hall (AgriMet -- FTHI)

Statistics based on thirty year normal spans 1994 to 2011 years

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	Non Growing Season ^b
Mean ^j	mm/day												mm	
Monthly ^c	0.11	0.04	0.06	0.66	3.03	4.52	5.91	6.10	4.21	1.41	0.19	0.12	792	-13
15-Day Moving Average ^d	0.12	0.07	0.06	0.52	3.09	4.49	6.01	6.20	4.18	1.55	0.21	0.11		
7-Day Moving Average ^e	0.12	0.05	0.06	0.60	3.04	4.45	5.98	6.16	4.22	1.50	0.22	0.12		
3-Day Moving Average ^f	0.11	0.04	0.06	0.64	3.02	4.47	5.92	6.11	4.25	1.41	0.20	0.12		
Standard Deviation ^k	mm/day												mm	
Monthly ^c	0.32	0.17	0.20	0.62	1.88	1.37	1.11	0.89	0.70	1.31	0.29	0.20	122	16
15-Day Moving Average ^d	0.34	0.23	0.25	0.65	1.62	1.54	0.84	0.82	1.12	1.29	0.43	0.19		
7-Day Moving Average ^e	0.42	0.34	0.42	1.14	2.16	1.97	1.10	1.11	1.58	1.67	0.75	0.30		
3-Day Moving Average ^f	0.56	0.53	0.69	1.74	2.89	2.54	1.58	1.66	2.24	2.32	1.18	0.47		
20% Exceedance ^l	mm/day												mm	
Monthly ^c	0.01	0.03	0.13	1.14	4.28	5.59	6.41	6.61	4.74	1.77	0.00	0.01	869	-7
15-Day Moving Average ^d	0.16	0.23	0.40	1.85	5.52	6.22	7.10	7.24	5.67	3.59	0.33	0.08		
7-Day Moving Average ^e	0.23	0.41	0.59	3.18	6.27	6.57	7.31	7.69	6.29	4.54	0.69	0.18		
3-Day Moving	0.35	0.51	0.90	4.78	7.30	7.79	8.49	8.77	7.77	6.13	0.97	0.38		

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[illegible]

^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.

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

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

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

^j This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.

^k This value represents the *standard deviation* for the parameter for the month over the 'normal' period.

^l This value represents the *value* for the parameter that has a 20% chance of being exceeded that month during any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.

^m This value represents the *value* for the parameter that has a 80% chance of being exceeded that month during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.

ⁿ This value represents the *skewness (asymmetry) of the distribution of the parameter values* for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.

^o This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

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ET_{Idaho} 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison@kimberly.uidaho.edu Copyright 2012, University of Idaho.

Fort Hall (AgriMet -- FTHI)

Statistics based on thirty year normal spans 1994 to 2011 years

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)														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b
Mean ^j	mm/day												mm	
Monthly ^c	0.03	0.32	1.03	1.74	2.16	2.94	4.18	4.29	2.87	1.23	0.34	0.08	643	0
15-Day Moving Average ^d	0.06	0.27	1.06	1.76	2.20	2.92	4.26	4.37	2.80	1.38	0.34	0.05		
7-Day Moving Average ^e	0.03	0.30	1.04	1.77	2.16	2.87	4.24	4.34	2.86	1.30	0.33	0.08		
3-Day Moving Average ^f	0.02	0.31	1.02	1.75	2.15	2.90	4.19	4.30	2.90	1.23	0.33	0.08		
Standard Deviation ^k	mm/day												mm	
Monthly ^c	0.57	0.38	1.13	0.69	1.64	1.36	0.97	0.78	0.64	1.19	0.48	0.78	134	0
15-Day Moving Average ^d	0.57	0.48	0.95	0.96	1.55	1.55	0.73	0.71	1.06	0.98	0.59	0.58		
7-Day Moving Average ^e	0.73	0.63	1.13	1.41	2.07	1.99	0.95	1.00	1.47	1.37	0.96	0.79		
3-Day Moving Average ^f	1.01	0.88	1.53	2.02	2.80	2.49	1.30	1.41	2.02	1.99	1.44	1.08		
20% Exceedance ^l	mm/day												mm	
Monthly ^c	0.34	0.54	1.60	2.30	3.10	3.98	4.60	4.70	3.33	1.79	0.51	0.36	761	0
15-Day Moving Average ^d	0.54	0.86	2.13	3.13	4.05	4.46	5.08	5.19	3.98	2.54	0.92	0.50		
7-Day Moving Average ^e	0.75	1.34	2.77	3.67	4.66	4.65	5.35	5.58	4.55	3.10	1.60	0.65		
3-Day Moving Average ^f	0.93	1.59	3.17	4.40	4.93	4.91	5.79	6.02	5.24	3.74	2.21	1.03		

80% Exceedance ^m	mm/day												mm		
Monthly ^c	0.51	0.01	0.05	1.20	0.81	2.32	3.77	3.64	2.25	0.39	0.21	0.79	511	0	511
15-Day Moving Average ^d	1.02	0.56	-0.48	0.35	-1.24	0.80	3.17	2.93	1.15	0.37	1.31	1.62			
7-Day Moving Average ^e	2.17	1.24	-1.07	2.10	-2.75	2.83	2.47	1.90	0.81	2.33	2.62	2.80			
3-Day Moving Average ^f	4.40	2.96	-2.62	7.40	-7.79	7.76	0.83	-1.73	5.33	5.82	4.97	3.82			
Ave Highest P _{def}	mm/day												--		
15-Day Moving Average ^g	0.37	0.62	1.73	2.54	3.39	3.64	4.77	4.92	3.67	2.08	0.85	0.33			
7-Day Moving Average ^h	0.58	0.96	2.26	3.36	4.20	4.37	5.07	5.25	4.33	2.65	1.26	0.56			
3-Day Moving Average ⁱ	0.73	1.18	2.76	4.03	4.74	4.69	5.39	5.60	5.00	3.29	1.76	0.85			
Ave Lowest P _{def}	mm/day												--		
15-Day Moving Average ^g	0.39	0.03	0.42	0.91	1.04	2.08	3.81	3.76	2.10	0.55	0.19	0.39			
7-Day Moving Average ^h	1.04	0.48	-0.27	0.42	-0.61	0.80	3.14	2.94	0.82	0.59	1.08	0.97			
3-Day Moving Average ⁱ	2.10	1.48	-1.75	2.99	-3.77	1.29	1.70	1.33	2.01	3.19	3.04	2.04			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ^m	0.31	0.18	-0.34	0.08	-0.22	1.45	0.69	-0.09	0.74	0.18	0.38	0.43	0.04	0.00	0.04
Kurtosis ^o	0.81	3.20	0.91	3.38	0.73	4.68	2.14	0.67	3.11	0.60	4.69	0.99	1.84	0.00	1.84

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