

IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Recommendation Report 73-12036 V1

WATER RIGHT NUMBER: 73-12036 V1

<u>Owner Type</u>	<u>Name and Address</u>
Original Owner	STARR W COLEMAN 33 PAHSIMEROI RD ELLIS, ID 83235 (208)876-4244
Current Owner	VIRGINIA H CHEWNING 139 PAHSIMEROI RD ELLIS, ID 83235 (208)876-4291
Original Owner	DICK H COLEMAN 33 PAHSIMEROI RD ELLIS, ID 83235 (208)876-4244
Current Owner	ROBERT W CHEWNING 139 PAHSIMEROI RD ELLIS, ID 83235 (208)876-4291

Priority Date: 04/01/1945

Basis: Beneficial Use

Status: Active

<u>Source</u>	<u>Tributary</u>
SPRINGS	PAHSIMEROI RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	0.210 CFS	
STOCKWATER	01/01 to 12/31	0.030 CFS	
	<u>Total Diversion:</u>	0.240 CFS	

Location of Point(s) of Diversion

SPRINGS	NE1/4SE1/4NE1/4	Sec. 36, Twp 16N, Rge 20E, B.M.
LEMHI County		
SPRINGS	NE1/4NE1/4NE1/4	Sec. 36, Twp 16N, Rge 20E, B.M.
LEMHI County		

Place of Use

IRRIGATION

Twp	Rge	Sec	NE	NW	SW	SE	Totals
16N	20E	25	2.1				2.1
16N	20E	36	8.1				8.1

Total Acres: 10.2

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Total Acres: 10.2
STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
16N	20E	25																X	
16N	20E	36	X																

Conditions of Approval:

1. N08 The quantity of water decreed for this water right for stockwater use is not a determination of historical beneficial use.
2. N05 The quantity of water under this right for stockwater use shall not exceed 13,000 gallons per day.
3. 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.

Remarks:

Comments:

1. rbrown 8/25/2006 Additional POD
Comment: The springs claimed under 73-11960 are recommended here as additional PODs.
2. cfritsch 1/22/2007 Claim Review
Comment: Claim review was not completed. Quantity recommended at 0.02 cfs per acre and status set to active.

Dates and Other Information:

Decreed Date:
Enlargement Use Priority Date:
Enlargement Statute Priority Date:
Defendant:
Plaintiff:
Civil Case Number:
Judicial District:
Notice of Error Flag:
State or Federal: S
Owner Name Connector: AND
Water District Number: 73
Generic Max Rate Per Acre:
Generic Max Volume Per Acre:
Swan Falls Trust or Nontrust:
Swan Falls Dismissed:
DLE Act Number:
Carey Act Number:
Mitigation Plan: False

Combined Use Limits:

IDAHO DEPARTMENT OF WATER RESOURCES
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Element Reviewed/Verified Dates:

<u>Element</u>	<u>Last Reviewed Date</u>	<u>Reviewer</u>	<u>Last Verified Date</u>	<u>Verifier</u>	<u>Status</u>
POD	5/31/2006 3:31:08 PM	dfavreau			Active
Source	5/31/2006 3:31:54 PM	dfavreau			Active
POU	5/31/2006 3:32:42 PM	dfavreau			Active
Season	5/31/2006 3:49:18 PM	dfavreau			Active
Use	5/31/2006 3:50:08 PM	dfavreau			Active
Priority Date	8/25/2006 2:41:46 PM	rbrown			Active
Summary			01/22/2007	cfritsch	Active

Verification Log:

<u>Element</u>	<u>Date Time Stamp</u>	<u>Reviewer</u>	<u>Log text</u>
POD	5/31/2006 3:31:08 PM	dfavreau	(No) 1. Is the basis of this claim a Decree or License? (No) 2. Is the basis of this claim a Application or Permit? (No) 6. Is there evidence that there has been a change in the POD? (No) 9. Does the file contain all the necessary information to verify the POD? (No) 10. Is a POD remark and/or condition required?
Source	5/31/2006 3:31:55 PM	dfavreau	(No) 1. Is the basis of claim Decree or License? (No) 2. Is the basis of claim an Application or Permit? (No) 6. Is the basis of claim a Posted Notice? (No) 7. Is there evidence that there has been a change in the source? (No) 10. Does the file contain all the necessary information to verify the source? (No) 11. Is a Source remark and/or condition required? Description for Question 10 - Via GIS review of 1988 aerial photography
POU	5/31/2006 3:32:43 PM	dfavreau	(No) 1. Is the basis of this claim a Decree or License? (Yes) 2b. Is the POU required? (No) 3. Is the basis of claim a Application or Permit? (No) 7. Is there evidence that there has been a change in the POU? (No) 13. Does the file contain all the necessary information to verify the POU? (No) 14. Is a POU remark and/or condition required? Description for Question 13 - Via GIS review of aerial photography

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Adjudication Recommendation Report 73-12036 V1

Season	5/31/2006 3:49:18 PM	dfavreau	(No) 1. Is the basis of claim Decree or License? (No) 2. Is the basis of claim a Application or Permit? (No) 6. Is there evidence that there has been a change in the Period of Use? (No) 12. Does the file contain all the necessary information to verify the Period of Use? (No) 13. Is the basis of claim a decree, license, or a transferred beneficial use right that has had the Period of Use administratively determined? (Yes) 15. Is irrigation claimed as a Purpose of Use? (No) 18. Is a Period of Use remark and/or condition required?
Use	5/31/2006 3:50:09 PM	dfavreau	(No) 1. Is the basis of this claim a Decree or License? (No) 2. Is the basis of this claim a Application or Permit? (No) 6. Is there evidence that there has been a change in the Purpose of Use? (No) 11. Does the file contain all the necessary information to verify the Water Use? (No) 13. Is a Purpose of Use remark and/or condition required? Description for Question 10,11,12 - via GIS review of aerial photography
POU	5/31/2006 3:21:16 PM	dfavreau	Updated shape for Active POU
POU	5/31/2006 3:21:58 PM	dfavreau	Updated PLS for Active POU
POU	5/31/2006 3:29:41 PM	dfavreau	Updated shape for Active POU
POU	5/31/2006 3:29:57 PM	dfavreau	Updated PLS for Active POU
POD	8/25/2006 2:58:06 PM	rbrown	Updated shape
POD	8/25/2006 2:58:20 PM	rbrown	Updated PLS
General	8/25/2006 2:41:47 PM	rbrown	(No) 1. Should this water use have been included in a later court decree of the water rights from this source? (No) 4. Is the basis of claim decree or license? (No) 7. Is the basis of claim a Application or Permit? (No) 8. Is the basis of claim a posted notice? (No) 9. Is the Priority Date of this water use after the date a permit is required for the source and the water use? (Yes) 12. Does the claim file contain sufficient evidence of Priority Date? (No) 15. Is the basis of claim coded correctly? (No) 16. Is a Priority Date remark and/or condition required? Description for Question 12/13 - affidavit of Jack Furey in file

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Summary	1/22/2007 10:46:13 AM	cfritsch	(No) 1. Is the basis of this claim a Decree, License, Permit, Application or Posted Notice? (No) 3. Is the water being used for all of the purposes claimed and to the extent claimed? (Yes) 4. Is any portion of the claim be recommended? (No) 5. Does this right have any combined use limits with other rights? (Yes) 6. Is an additional remark and/or condition required? (Yes) 7. Would you like to view the recommended right? (Yes) 8. Is this a split or combined right? (No) 9. Do you have documents you would like to attach or link to the file? (Yes) 10. Would you like to set the verification date?
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SubCase:

SubCase Number: 73-12036
Class: 1
SF5 Filed Date:
Special Master Recom Signed Date:
Attorney Assigned:
Adjudication Agent: cfritsch
Basis of Claim: Beneficial Use
Date Filed: 12/18/2007 Objection Status: Active
Date Filed: 11/28/2007 Objection Status: Active
Date Filed: 2/7/2008 Objection Status: Active

Water Supply Bank:



Idaho Department of Water Resources

SRBA Recommendation:

73-12036

(Irrigation)

Legend

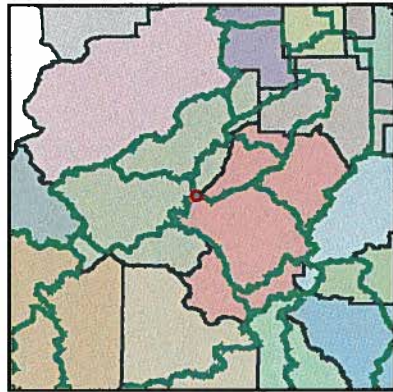
● Point of Diversion

□ Place of Use

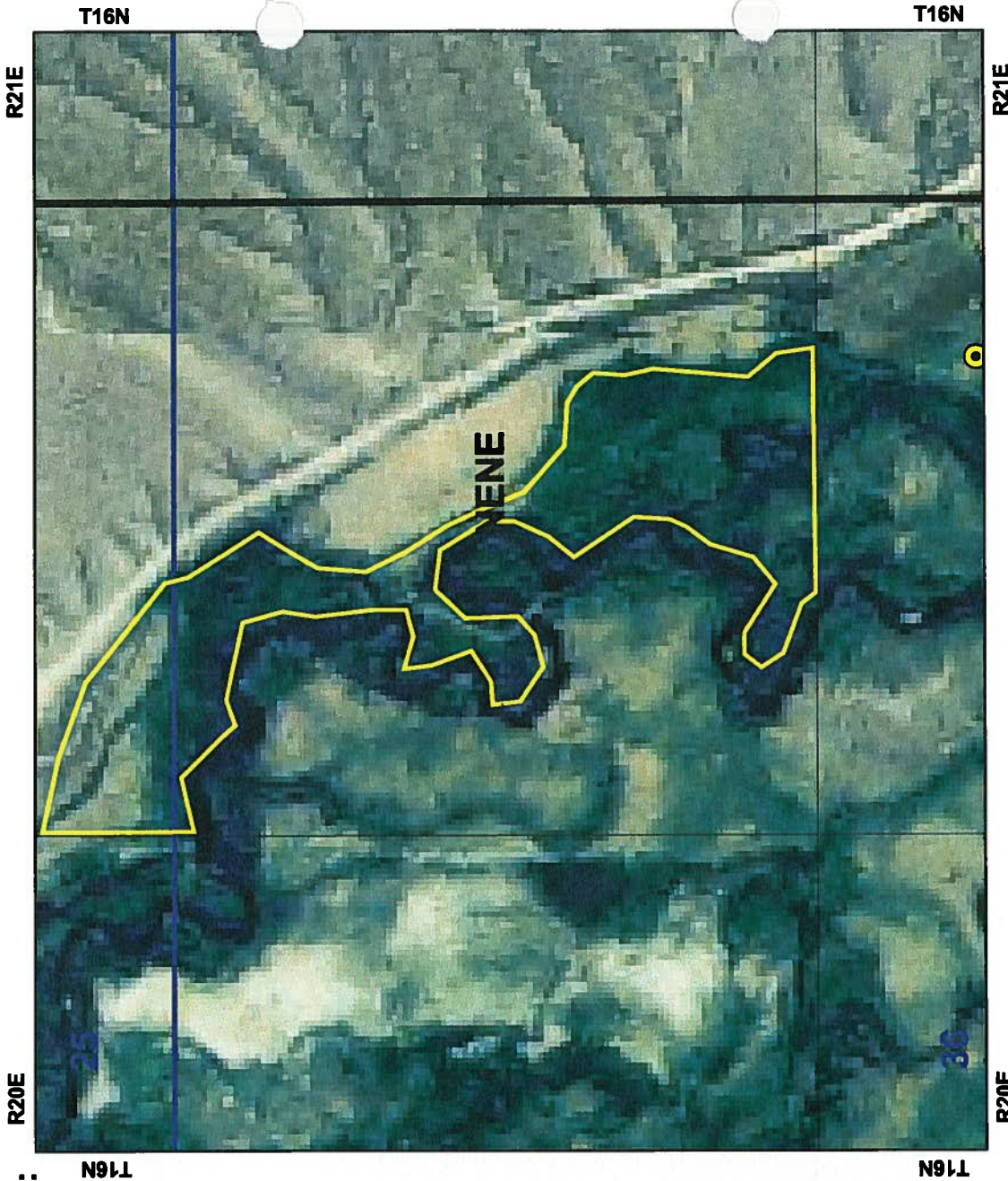
□ Townships

□ PLS Sections

□ Quarter Quarters



Lemhi, Custer Counties
IDWR Basin 73



0 0.1 0.2 Miles

0 0.1 0.2 Miles

Prepared by D. Favreau
On Wednesday, May 31, 2006
1987/88 Aerial Photography

RECEIVED
FEB 15 2005
DEPARTMENT OF
WATER RESOURCES

02-09-05

Robert W. Chewning
139 Pahsimeroi Road
Ellis, Idaho 83235

ref: Water Right Claims

A 73 - 04105

A 73 - 04106

Telephone call 02-08-05

Roxanne Brown
Sr. Water Resources Agent
State of Idaho Department
of Water Resources
322 East Front Street
P.O. Box 83720
Boise, Idaho 83720 - 0098

Dear Ms. Brown,

Not long after my wife and I purchased the property irrigated by the above two claims from Starr and Gloria Coleman, I contacted Robert E. Foster, Sr. Water Resources Agent Water Distribution in Salmon, concerning changing Water Right Claim A 73-04105. He told me that I should file a "New Pproperty Owner Notice of Change of Water Right Ownership" with him. This I did on 11-16-1996 and a copy of the correspondance is included as Enclosure One to this letter. Please note that the spring referred to in my letter to Mr. Foster in paragraph 2 of Addendum #1 to the Agreement to Purchase is the springs we subsequently filed upon as 73-11960. These springs, from the point where they enter the irrigation ditch, flow south toward the pond, point of origin, referenced in Water Right Claim A 73-04105 (increasing the water available in that claim), and flow north toward the Coleman's property north of the fish hatchery (this is the entire source of water in the irrigation ditch going to Coleman's property). From the time of purchase of the property from the Coleman's, Mr. Coleman has not tried to use the water originating from our pond, but he does use water from these springs. I do not know if he has every filed a claim on these springs.

Several years passed and we had not heard anything about our "Notoce of Change of Water Right Ownership" concerning A 73-04105. We were told that it had been forwarded to Idaho Falls, but could not find anyone there who had seen it. I eventually made telephone contact with Allen B. Ruberry, Sr. Water Resource Agent Adjudication Bureau. He was helpful and sent me a letter dated 30 March 2001 with several attachments. A copy is included as Enclosure Two to this letter.

Needless to say, I was disappointed that no record of our attempt to change ownership was included in our file.

Before I could meet with Mr. Ruberry, my neighbor across the river, Sydney Downton, opened up a diversion to the Pahsimeroi River that had been collapsed for some years. The Department of Fish and Game was preparing to install a fish screen that was going to involve our property purchased from the Colemans. See Enclosure Three. I decided it was time to also file a "Notice of Change in Water Right Ownership" for the water right claim A 73-04106 that the Coleman's had made on this diversion.

I met with Mr. Ruberry in his office in Idaho Falls on 27 November 2001. I gave him a "State of Idaho Department of Water Resources Notice of Change of Water Right Ownership" for A 73-04105 and A 73 - 04106* with supporting attachments at that time. See Enclosure Four ("The Real Estate Purchase and Sale Agreement and Receipt of Earnest Money" attached to the "Notice of Change of Water Right Ownership" can be seen in Enclosure One). While meeting with Mr. Ruberry Water Right Claim A 73-11960 was drawn up and submitted. See Enclosure Five.

When I left Mr. Ruberry I had agreed to research and forward records which would support the Dates of Priority on claims A 73-04105, A 73-04106 and A 73-11960. He had also requested a copy of the Court Order is Case No. CV-94-229 which relates to Claim A 73-04105. I subsequently sent him a letter dated 22 December 2001 with Affidavits signed by Jack B. Furey, a long time resident of the Pahsimeroi Valley, concerning claims Nos. A 73-0415 and A 73-0416. I also sent him a copy of page 289, "Book A. of Water Rights" found in the Lemhi Courthouse with a signature of Boise Ellis in 1886 claiming water from a stream and irrigation ditch in the Pahsimeroi Valley. At that time I believed it related to waters and ditch in claim A 73-0415. I have subsequently found that it actually relates to my claims ~~73-4080~~ and ~~73-4079~~. The Boise Ellis who signed the "Book A. of Water Rights" in 1886 was the father of Boise H. Ellis, who with his wife Mary H, first purchased property in 1924 that would have been irrigated by the ditch in A 73-0415. He was the father of Dick H. Coleman and grandfather of Starr Coleman who first filed A ~~73-0415~~. Boise H. Ellis purchased the property in 1934 that was irrigated by the water in both claims A ~~73-0415~~ and A ~~73-0416~~. Starr Coleman had said in the court proceedings in Court Case No. CV-94-229 that the pond and ditch in A 73-0415 predated his grandfather. See Enclosure Six.

We do appreciate your assistance in this matter. It seems that the "Change of Water Right Ownership" for claims A 73-04105 and A 73-04106 have been in the process far too long. If there are additional supporting records needed, please let me know.

Sincerely,

Robert W. Chewning



Mr. Robert E. Foster
Idaho Dept. of Water Resources
206 Van Dref, Suite B,
Salmon, Idaho 83467

ROBERT W. CHEWNING
HC 62, BOX 1008
ELLIS, IDAHO 83235
(208) 876-4291
11-16-96

RECEIVED
FEB 15 2005
DEPARTMENT OF
WATER RESOURCES

Dear Mr. Foster,

Enclosed is our New Property Owner
Notice of Change of Water Right Ownership form
with supporting documentation for the property
we purchased from Mr. & Mrs. Stan W. Coleman.
I am sorry that the Agreement to Purchase
is such a poor copy. However, Lyn Stevenson of
Salmon River Realty (208-879-2225) has the
original if any changes need to be made. I
have sent a signed copy of the Notice of
Change of Water Right Ownership to Mr. Stan
Coleman. Please note that paragraph 2 of
Addendum #1 to the Agreement to Purchase refers
to a spring on the property itself for which there
apparently has never been a claim to water filed.
Thank you for your assistance in this matter.

Sincerely,
Robert W. Chewning

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM

CIVIL CASE NUMBER: 39576

Ident. Number 73-12036
Date Received: 11/17/1989
Receipt No: M005245
Received By: SCC

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name of Claimant(s)

VIRGINIA H CHEWNING Phone: (208)876-4291
139 PAHSIMEROI RD
ELLIS ID USA 83235

ROBERT W CHEWNING Phone: (208)876-4291
139 PAHSIMEROI RD
ELLIS ID USA 83235

2. Date of Priority: 06/01/1882

3. Source: SPRINGS Trib. to: PAHSIMEROI RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of 1/4 of 1/4 Lot	County	Type
16N	20E	36	NE SE NE	LEMHI	

5. Description of diverting works:

COLLECTION DITCH FOR FLOOD IRRIGATION

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or) A.F.A
IRRIGATION	04/01	11/01	0.67	
STOCKWATER	01/01	12/31	0.03	

7. Total Quantity Appropriated is:
0.67 C.F.S.

8. Total consumptive use:

12/10/2009

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 73-12036

NAME AND ADDRESS: VIRGINIA H CHEWNING
139 PAHSIMEROI RD
ELLIS ID 83235

ROBERT W CHEWNING
139 PAHSIMEROI RD
ELLIS ID 83235

SOURCE: SPRINGS

TRIBUTARY: PAHSIMEROI RIVER

QUANTITY: 0.210 CFS

The quantity of water under this right for stockwater use shall not exceed 13,000 gallons per day.

PRIORITY DATE: 04/01/1930

POINT OF DIVERSION:

T16N R20E S36 NENENE Within LEMHI County

T16N R20E S36 NESENE Within LEMHI County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04/01 10/31	0.210 CFS
STOCKWATER	01/01 12/31	0.030 CFS

PLACE OF USE: IRRIGATION in LEMHI County

T16N R20E S36 NENE 9.00

STOCKWATER in LEMHI County

T16N R20E S36 NENE

9 ACRES TOTAL

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

The quantity of water decreed for this water right for stockwater use is not a determination of historical beneficial use.

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.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

This right is a split from former right 73-4105.



Idaho Department of Water Resources

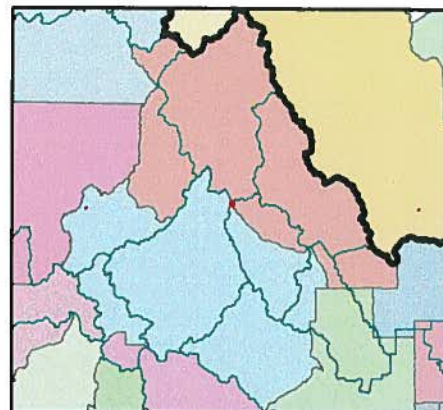
Adjudication Recommendation

73-12036

(IRRIGATION)

Legend

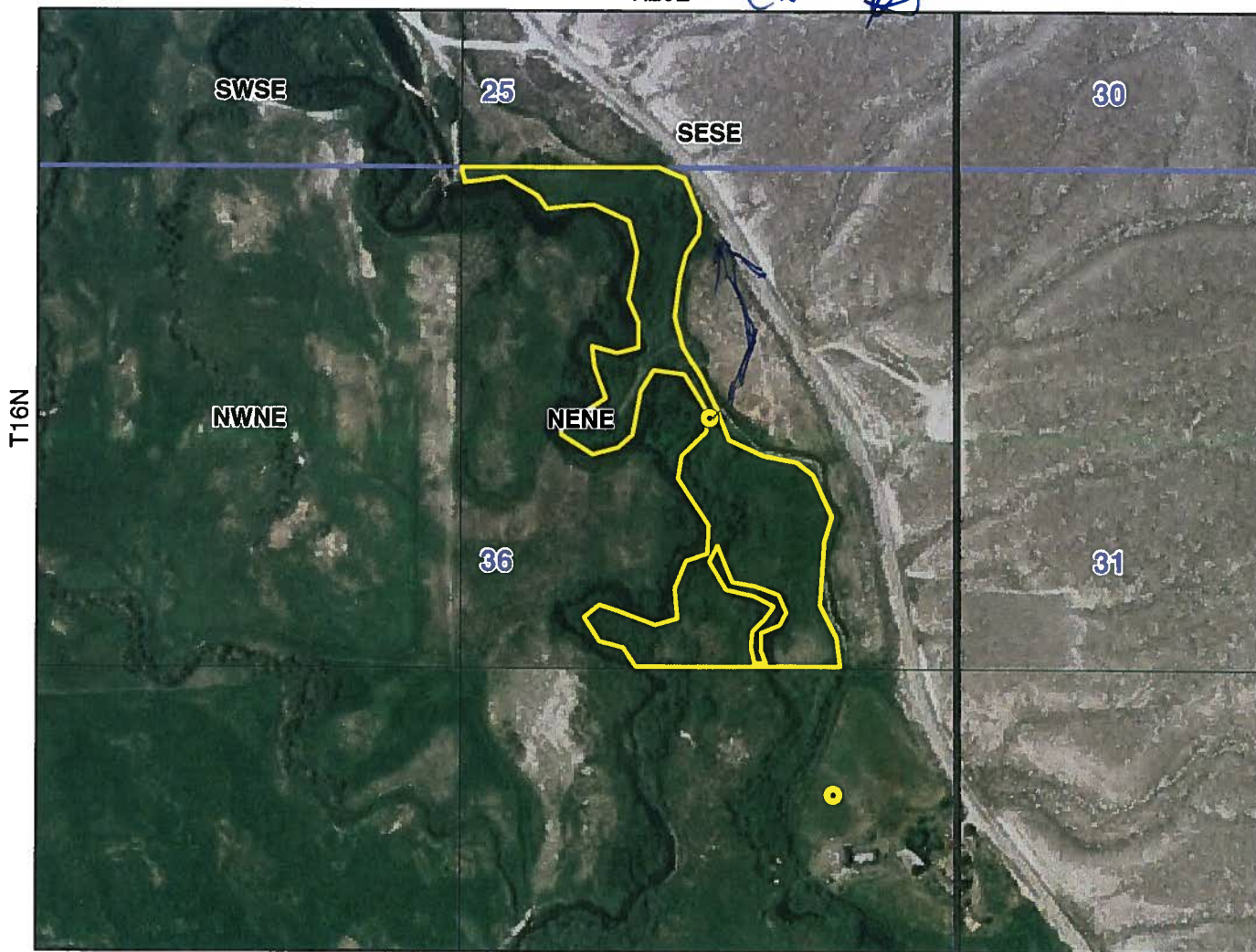
- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Custer, Lemhi Counties
IDWR Basin 73

Chairman call 4/9/10 change made

R20E



Prepared by Don Shaff
On January 13, 2010
2006 Aerial Photography

0 0.05 0.1 0.2 Miles

01/23/2007

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 73-12036

NAME AND ADDRESS: VIRGINIA H CHEWNING
139 PAHSIMEROI RD
ELLIS ID 83235

ROBERT W CHEWNING
139 PAHSIMEROI RD
ELLIS ID 83235

SOURCE: SPRINGS

TRIBUTARY: PAHSIMEROI RIVER

QUANTITY: 0.240 CFS

The quantity of water under this right for stockwater use shall not exceed 13,000 gallons per day.

PRIORITY DATE: 04/01/1945

POINT OF
DIVERSION:

T16N R20E S36 NENENE Within LEMHI County

T16N R20E S36 NESENE Within LEMHI County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04/01 10/31	0.210 CFS
STOCKWATER	01/01 12/31	0.030 CFS

PLACE OF USE: IRRIGATION in LEMHI County

T16N R20E S25 ~~SESE~~ 2.10 T16N R20E S36 NENE 8.10 9

STOCKWATER in LEMHI County

T16N R20E S25 ~~SESE~~ T16N R20E S36 NENE

9 10.2 ACRES TOTAL

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

The quantity of water decreed for this water right for stockwater use is not a determination of historical beneficial use.

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.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use

To: 73-12036

From: D. Shaff

Date: December 10, 2009

Subject: Irrigation Requirements

See 73-4080 for supporting documents

Soils at place of use

MUSYM	13	14	4
MUKEY	83012	83023	38174
Est. of field	59%	1%	40%

55 % field efficiency

Average Water Holding Capacity (AWC)

Fine Sand .05-.08

Sand .04-.07

Loamy Sand .06-.09

Maximum Root Zone = 3 ft.

Maximum Consumptive Use per day = 7.81 mm/day = 0.3075 inches/day

Table C-3 attached

Field Irrigation Requirement per acre (FIR in cfs) = $4.2 \times (\text{CU}/\text{FAE})$

CU = Consumptive Use

FAE = Field Application Efficiency

$\text{FIR} = 4.2 \times (0.3075/55) = 0.0235 \text{ cfs/acre}$

$\text{FIR for 73-12036} = 0.0235 \times 9.0 \text{ acres} = 0.211 \text{ cfs}$

Conveyance loss nil.

Table C-3. Continued.

	Mar	Apr	May	June	July	Aug	Sept	Oct	Mar-Oct
Kilgore	-.05	2.67	4.87	6.51	7.22	5.86	4.00	2.09	1015
Kooskia	1.86	3.94	5.27	6.37	7.52	6.14	4.34	2.19	1152
Kuna 2 NNE	2.21	4.61	6.14	7.74	8.47	7.12	5.44	3.29	1378
Lewiston WSO AP	1.88	3.89	5.24	6.50	7.67	6.24	4.42	2.28	1167
Lifton Pumping Station	.40	3.22	5.01	6.89	7.78	6.53	4.67	2.48	1132
Mackay Ranger Station	.81	4.01	5.65	7.31	8.14	6.51	4.78	2.90	1227
Malad	1.27	3.94	5.26	7.05	7.93	6.74	4.99	2.89	1226
Malad City	1.19	3.77	5.15	6.88	7.75	6.58	4.83	2.79	1192
Malta 2 E	1.87	4.27	5.88	7.76	8.35	6.91	5.15	3.26	1330
May	1.15	4.14	5.68	7.15	7.81	6.26	4.54	2.79	1209
Mc Call	.82	2.95	4.84	6.52	7.28	5.87	4.32	2.49	1074
Minidoka Dam	1.83	4.37	6.04	7.82	8.29	6.80	5.28	3.48	1344
Montpelier Ranger Station	.51	3.23	4.78	6.60	7.51	6.29	4.50	2.48	1098
Moscow-Univ. of Idaho	1.28	3.66	4.88	5.81	7.58	6.06	4.37	2.07	1093
Mountain Home	2.23	4.61	6.09	7.90	8.24	6.70	5.08	3.64	1362
New Meadows Ranger Station	1.07	3.47	5.11	6.74	7.38	6.01	4.40	2.40	1119
Nezperce	1.36	3.27	4.67	5.90	7.14	5.97	4.09	1.94	1051
Oakley	2.01	4.54	6.09	7.77	8.35	6.94	5.38	3.61	1367
Ola 4 S	1.94	4.18	5.84	7.54	8.17	6.70	5.13	3.00	1301
Orofino	1.89	4.07	5.41	6.54	7.75	6.36	4.45	2.24	1185
Pallsades Dam	1.01	3.94	5.92	7.43	8.02	6.43	4.90	3.14	1248
Parma Exp. Station	2.23	4.67	6.24	7.86	8.58	7.14	5.39	3.17	1386
Paul 1 ENE	1.83	4.34	6.04	7.68	8.23	6.80	5.17	3.28	1327
Payette	2.29	4.78	6.38	8.01	8.77	7.27	5.48	3.21	1414
Picabo	1.07	4.14	6.02	7.79	8.02	6.79	5.04	3.06	1283
Pocatello WSO AP	1.64	4.24	5.91	7.91	8.23	6.53	4.92	3.36	1308
Porthill	1.00	3.51	4.85	5.75	7.24	5.56	3.79	1.65	1021
Potlatch 3 NNE	1.21	3.53	4.75	5.67	7.32	5.81	4.10	1.92	1051
Preston Sugar Factory	1.17	3.95	5.23	7.00	7.87	6.67	4.94	2.88	1215
Reynolds	1.84	3.64	5.28	6.94	7.48	6.04	4.61	3.00	1189
Richfield	1.52	4.65	6.28	7.87	8.05	6.73	5.17	3.34	1334
Riggins	2.11	4.19	5.44	6.54	7.86	6.47	4.66	2.60	1221
Rupert	1.90	4.62	6.16	7.85	8.38	6.80	5.21	3.43	1357
St Anthony 1 WNW	.98	4.09	5.97	7.28	7.76	6.22	4.64	2.94	1220
Saint Maries	1.24	3.61	4.89	5.82	7.43	5.79	4.13	1.97	1068
Salmon	1.31	4.37	5.78	7.12	7.61	5.92	4.31	2.75	1198
Salmon 1 N	1.48	4.33	5.80	7.52	7.93	6.16	4.40	2.69	1233
Sandpoint Exp. Station	1.05	3.48	4.79	5.70	7.20	5.60	3.88	1.73	1023
Shoshone 1 WNW	1.82	4.91	6.48	8.15	8.27	6.79	5.24	3.57	1384
Stanley	.35	2.89	4.78	6.45	6.32	5.14	3.76	2.40	982
Strevell	1.65	4.11	5.73	7.52	8.23	6.80	5.20	3.29	1301
Swan Falls Power House	2.58	4.97	6.57	8.19	8.89	7.21	5.69	3.79	1466
Swan Valley	1.08	3.82	5.68	7.16	7.84	6.31	4.67	2.74	1203
Tensed	1.18	3.37	4.49	5.58	7.18	5.77	3.99	1.84	1023
Tetonia Exp. Station	.62	3.43	5.55	7.18	7.99	6.52	4.70	2.55	1180
Three Creek	1.53	3.62	5.00	6.65	7.07	5.68	4.16	2.97	1123
Twin Falls 2 NNE	2.13	4.75	6.34	7.92	8.32	6.78	5.22	3.52	1376
Twin Falls 3 SE	2.03	4.66	6.27	7.91	8.41	6.87	5.29	3.45	1374
Twin Falls WSO	1.95	4.18	6.23	7.49	8.10	6.82	5.21	3.34	1326
Welser 2 SE	2.27	4.73	6.33	7.99	8.67	7.13	5.40	3.20	1399

Table C-4. Standard deviation of Alfalfa Reference Evapotranspiration, mm/day. Adjusted for station aridity.

	Mar	Apr	May	June	July	Aug	Sept	Oct
ABERDEEN EXP. STATION	.47	.54	.51	.48	.32	.31	.40	.36
AMERICAN FALLS 1 SW	.42	.44	.46	.52	.28	.29	.37	.35
ANDERSON DAM	.38	.45	.47	.54	.29	.36	.44	.40
ARBON 2 NW	.44	.49	.40	.47	.22	.37	.44	.38
ARCO 3 SW	.54	.56	.53	.47	.37	.38	.40	.36
ASHTON	.47	.60	.52	.49	.32	.31	.41	.38
BAYVIEW MODEL BASIN	.18	.23	.33	.29	.27	.32	.29	.18
BLACKFOOT 2 SSW	.46	.58	.47	.43	.34	.34	.44	.38
BLISS	.35	.47	.49	.47	.26	.33	.41	.35
BOISE WSO AP	.31	.38	.46	.47	.32	.40	.44	.32
BONNERS FERRY 1 SW	.26	.32	.30	.33	.29	.30	.34	.16
BRUNEAU	.30	.48	.43	.50	.35	.33	.42	.30
BURLEY FAA AP	.34	.45	.46	.46	.24	.31	.40	.34
CABINET GORGE	.22	.28	.35	.32	.29	.37	.38	.16
CALDWELL	.28	.37	.47	.51	.37	.39	.38	.26
CAMBRIDGE	.47	.44	.45	.51	.43	.39	.39	.29
CASCADE 1 NW	.36	.42	.43	.46	.30	.33	.44	.31
CASTLEFORD 2 N	.36	.52	.39	.45	.22	.38	.41	.33
CHALLIS	.39	.48	.52	.52	.33	.37	.37	.34
CHILLY BARTON FLAT	.48	.53	.49	.52	.42	.42	.41	.35
COEUR D'ALENE 1 E	.25	.34	.35	.33	.28	.32	.35	.19
COTTONWOOD	.33	.37	.43	.41	.38	.34	.36	.25
COUNCIL	.46	.43	.46	.49	.30	.38	.42	.28
DEER FLAT DAM	.28	.37	.43	.39	.26	.28	.34	.23
DRIGGS	.47	.57	.52	.53	.32	.30	.44	.38
DUBOIS EXP. STATION	.48	.60	.56	.54	.35	.33	.45	.39
EMMETT 2 E	.30	.41	.47	.46	.32	.34	.37	.27
FAIRFIELD RANGER STATION	.47	.52	.44	.43	.28	.43	.48	.39
FORT HALL INDIAN AGNCY	.40	.49	.52	.48	.28	.32	.34	.34
GARDEN VALLEY RS	.30	.43	.39	.47	.32	.36	.41	.27
GLENNS FERRY	.35	.44	.49	.48	.30	.36	.35	.33
GRACE	.54	.64	.48	.55	.35	.32	.40	.39
GRAND VIEW 2 W	.28	.42	.46	.49	.35	.36	.38	.28
GRANGEVILLE	.30	.38	.42	.37	.32	.36	.41	.26
HAILEY RANGER STATION	.45	.62	.55	.50	.34	.39	.44	.41
HAMER 4 NW	.48	.49	.49	.42	.30	.35	.40	.34
HAZELTON	.37	.49	.55	.51	.39	.36	.41	.38
HILL CITY	.52	.54	.50	.49	.29	.35	.40	.35
HOLLISTER	.38	.54	.57	.59	.32	.37	.44	.40
HOWE	.48	.46	.37	.45	.31	.33	.48	.36
IDAHO CITY	.39	.41	.46	.41	.32	.35	.40	.31
IDAHO FALLS 2 ESE	.44	.50	.48	.44	.26	.36	.42	.32
IDAHO FALLS 16 SE	.43	.48	.35	.41	.31	.43	.51	.40
IDAHO FALLS FAA AP	.54	.54	.53	.49	.26	.30	.41	.35
IDAHO FALLS 46 W	.51	.48	.48	.50	.27	.36	.45	.32
ISLAND PARK DAM	.46	.54	.49	.46	.30	.35	.43	.39
JEROME	.37	.48	.55	.53	.31	.36	.40	.34
KELLOGG	.26	.38	.38	.35	.31	.34	.35	.20

Table C-4. Continued.

	Mar	Apr	May	June	July	Aug	Sept	Oct
KILGORE	.39	.55	.43	.38	.25	.36	.52	.41
KOOSKIA	.25	.33	.36	.34	.26	.30	.32	.20
KUNA 2 NNE	.29	.42	.45	.41	.32	.34	.36	.30
LEWISTON WSO AP	.23	.32	.35	.41	.31	.40	.36	.20
LIFTON PUMPING STATION	.51	.58	.44	.43	.23	.27	.36	.32
MACKAY RANGER STATION	.46	.59	.53	.53	.34	.36	.37	.38
MALAD	.38	.49	.45	.45	.31	.36	.40	.35
MALAD CITY	.42	.39	.41	.42	.21	.34	.34	.30
MALTA 2 E	.41	.50	.40	.52	.29	.49	.44	.29
MAY	.41	.46	.47	.48	.32	.34	.41	.31
MC CALL	.45	.52	.50	.49	.27	.36	.40	.30
MINIDOKA DAM	.41	.45	.47	.47	.28	.36	.41	.35
MONTPELIER RANGER STATION	.50	.62	.48	.52	.27	.31	.36	.37
MOSCOW-UNIV. OF IDAHO	.27	.40	.39	.36	.30	.34	.35	.23
MOUNTAIN HOME	.32	.46	.50	.51	.34	.38	.40	.40
NEW MEADOWS RANGER STATION	.45	.42	.42	.42	.27	.32	.39	.29
NEZPERCE	.28	.36	.40	.37	.29	.38	.42	.23
OAKLEY	.37	.49	.54	.51	.32	.34	.39	.39
OLA 4 S	.35	.38	.41	.42	.27	.38	.43	.27
OROFINO	.24	.32	.36	.35	.25	.29	.31	.20
PALISADES DAM	.42	.52	.46	.47	.31	.34	.40	.37
PARMA EXP. STATION	.29	.42	.46	.48	.33	.34	.34	.26
PAUL 1 ENE	.36	.45	.47	.47	.27	.36	.42	.35
PAYETTE	.29	.36	.41	.40	.27	.31	.34	.25
PICABO	.53	.51	.53	.54	.33	.45	.56	.41
POCATELLO WSO AP	.41	.47	.48	.48	.28	.35	.45	.39
PORTHILL	.27	.28	.30	.31	.27	.30	.31	.17
POTLATCH 3 NNE	.28	.40	.39	.37	.35	.32	.39	.26
PRESTON SUGAR FACTORY	.48	.50	.44	.46	.25	.30	.34	.30
REYNOLDS	.31	.45	.43	.43	.30	.44	.46	.32
RICHFIELD	.54	.48	.50	.51	.31	.37	.40	.34
RIGGINS	.29	.43	.40	.40	.27	.37	.39	.26
RUPERT	.39	.45	.58	.53	.32	.31	.35	.37
ST ANTHONY 1 WNW	.47	.52	.52	.41	.26	.31	.40	.37
SAINT MARIES	.26	.37	.37	.33	.30	.33	.35	.20
SALMON	.40	.37	.48	.43	.27	.27	.35	.28
SALMON 1 N	.33	.50	.36	.42	.27	.35	.38	.30
SANDPOINT EXP. STATION	.26	.33	.33	.30	.25	.28	.30	.17
SHOSHONE 1 WNW	.46	.51	.54	.58	.36	.46	.46	.37
STANLEY	.57	.47	.40	.49	.20	.34	.53	.32
STREVELL	.39	.54	.53	.64	.31	.34	.49	.41
SWAN FALLS POWER HOUSE	.29	.41	.44	.53	.29	.32	.39	.29
SWAN VALLEY	.45	.53	.38	.35	.32	.33	.45	.34
TENSED	.19	.30	.27	.29	.22	.32	.40	.17
TETONIA EXP. STATION	.46	.55	.49	.41	.31	.34	.49	.37
THREE CREEK	.35	.55	.45	.45	.31	.37	.50	.49
TWIN FALLS 2 NNE	.32	.47	.48	.45	.27	.32	.41	.35
TWIN FALLS 3 SE	.36	.48	.51	.52	.28	.30	.39	.37
TWIN FALLS WSO	.35	.43	.42	.36	.24	.36	.47	.34
WEISER 2 SE	.31	.42	.42	.42	.34	.34	.37	.31

Table C-5. Alfalfa reference evapotranspiration, mm/day.
Not adjusted for station aridity.

	Mar	Apr	May	June	July	Aug	Sept	Oct	Mar-Oct
ABERDEEN EXP. STATION	1.56	4.50	6.21	8.24	8.83	7.27	5.33	3.20	1381
AMERICAN FALLS 1 SW	1.74	4.68	6.35	8.40	9.06	7.56	5.65	3.47	1435
ANDERSON DAM	1.81	4.64	6.41	8.33	9.16	7.77	5.81	3.77	1460
ARBON 2 NW	1.38	4.10	5.97	8.10	8.77	7.28	5.40	3.24	1354
ARCO 3 SW	1.07	4.31	6.31	7.83	8.67	7.06	5.16	2.93	1326
ASHTON	.80	4.08	6.16	7.53	8.17	6.68	4.95	2.84	1261
BAYVIEW MODEL BASIN	.98	3.23	4.58	5.67	7.30	5.81	3.92	1.63	1014
BLACKFOOT 2 SSW	1.62	4.86	6.62	8.09	8.97	7.35	5.48	3.26	1415
BLISS	2.14	5.38	6.94	8.62	8.88	7.58	5.86	3.73	1503
BOISE WSO AP	2.17	4.48	6.22	8.08	9.01	7.55	5.77	3.38	1428
BONNERS FERRY 1 SW	1.11	3.69	5.05	6.05	7.76	6.12	4.18	1.71	1092
BRUNEAU	2.52	5.07	6.73	8.51	8.97	7.57	5.68	3.76	1494
BURLEY FAA AP	1.90	4.56	6.19	7.91	8.58	7.17	5.43	3.32	1379
CABINET GORGE	1.08	3.49	4.91	5.99	7.72	6.16	4.21	1.80	1083
CALDWELL	2.34	4.83	6.44	8.09	8.88	7.37	5.58	3.26	1432
CAMBRIDGE	1.81	4.47	6.13	7.84	8.83	7.29	5.38	3.02	1370
CASCADE 1 NW	.99	3.39	5.18	6.89	7.82	6.49	4.77	2.56	1166
CASTLEFORD 2 N	2.14	5.02	6.72	8.42	8.51	7.33	5.67	3.54	1448
CHALLIS	1.27	4.54	6.16	7.81	8.73	7.10	5.14	3.00	1339
CHILLY BARTON FLAT	.55	3.62	5.34	6.97	7.79	6.28	4.40	2.41	1143
COEUR D'ALENE 1 E	1.18	3.69	5.10	6.12	8.05	6.47	4.51	2.03	1137
COTTONWOOD	1.33	3.41	4.77	5.93	7.43	6.19	4.28	2.04	1083
COUNCIL	1.79	4.45	6.17	7.89	8.89	7.45	5.57	3.17	1389
DEER FLAT DAM	2.26	4.73	6.30	7.93	8.71	7.28	5.56	3.26	1409
DRIGGS	.74	3.74	5.73	7.28	8.28	6.77	4.92	2.74	1230
DUBOIS EXP. STATION	.66	4.10	5.99	7.69	8.88	7.27	5.19	2.89	1306
EMMETT 2 E	2.34	4.83	6.41	8.03	8.78	7.33	5.65	3.34	1429
FAIRFIELD RANGER STATION	.80	4.14	6.06	7.73	8.01	6.86	5.16	3.07	1279
FORT HALL INDIAN AGNCY	1.71	4.67	6.43	8.47	9.03	7.44	5.55	3.44	1430
GARDEN VALLEY RS	1.77	4.23	5.91	7.61	8.51	7.14	5.42	3.05	1336
GLENNS FERRY	2.47	5.16	6.76	8.58	9.08	7.54	5.65	3.71	1498
GRACE	1.11	4.11	5.91	7.95	8.60	7.13	5.28	3.13	1322
GRAND VIEW 2 W	2.49	5.18	6.76	8.64	9.07	7.58	5.61	3.60	1497
GRANGEVILLE	1.42	3.44	4.80	6.01	7.51	6.27	4.27	2.02	1094
HAILEY RANGER STATION	1.15	4.52	6.35	7.98	8.40	7.21	5.45	3.31	1358
HAMER 4 NW	.86	4.25	6.01	7.74	8.58	6.93	4.91	2.72	1285
HAZELTON	2.04	4.80	6.48	8.24	8.90	7.47	5.68	3.54	1443
HILL CITY	.74	4.13	6.01	7.56	8.03	6.87	5.08	2.97	1266
HOLLISTER	1.88	4.52	6.11	7.85	8.72	7.30	5.53	3.45	1388
HOWE	1.12	4.58	6.23	7.89	8.65	7.00	4.91	2.78	1321
IDAHO CITY	1.46	3.88	5.55	7.18	8.06	6.76	5.08	2.91	1251
IDAHO FALLS 2 ESE	1.44	4.54	6.47	8.10	8.84	7.28	5.34	3.11	1381
IDAHO FALLS 16 SE	.95	3.79	5.70	7.32	8.13	6.66	4.83	2.72	1227
IDAHO FALLS FAA AP	1.32	4.58	6.41	7.89	8.77	7.20	5.29	3.03	1362
IDAHO FALLS 46 W	1.03	4.10	6.12	7.83	8.71	7.12	5.04	2.70	1305
ISLAND PARK DAM	0.00	2.93	5.02	6.73	7.70	6.28	4.35	2.27	1080
JEROME	2.03	4.86	6.56	8.31	9.01	7.55	5.78	3.59	1460
KELLOGG	1.20	3.69	5.06	6.04	7.89	6.25	4.37	1.94	1115

Table C-5. Continued.

	Mar	Apr	May	June	July	Aug	Sept	Oct	Mar-Oct
KILGORE	-.05	2.73	4.96	6.64	7.44	6.10	4.15	2.09	1043
KOOSKIA	1.86	4.01	5.38	6.51	7.79	6.44	4.52	2.19	1185
KUNA 2 NNE	2.21	4.61	6.14	7.74	8.47	7.12	5.44	3.29	1378
LEWISTON WSO AP	1.88	4.02	5.44	6.77	8.17	6.79	4.74	2.28	1227
LIFTON PUMPING STATION	.40	3.29	5.11	7.04	8.03	6.82	4.86	2.48	1164
MACKAY RANGER STATION	.81	4.14	5.83	7.56	8.56	6.98	5.08	2.90	1281
MALAD	1.27	4.05	5.42	7.28	8.32	7.20	5.27	2.89	1276
MALAD CITY	1.19	3.89	5.33	7.14	8.18	7.09	5.15	2.79	1247
MALTA 2 E	1.87	4.32	5.95	7.85	8.50	7.08	5.27	3.26	1350
MAY	1.15	4.28	5.89	7.42	8.28	6.79	4.86	2.79	1268
MC CALL	.82	3.08	5.03	6.80	7.74	6.40	4.66	2.49	1133
MINIDOKA DAM	1.83	4.54	6.31	8.19	8.88	7.49	5.72	3.48	1421
MONTPELIER RANGER STATION	.51	3.36	4.97	6.87	7.96	6.82	4.83	2.48	1156
MOSCOW-UNIV. OF IDAHO	1.28	3.69	4.94	5.88	7.73	6.22	4.47	2.07	1110
MOUNTAIN HOME	2.23	4.82	6.41	8.35	8.97	7.55	5.61	3.64	1456
NEW MEADOWS RANGER STATION	1.07	3.53	5.20	6.86	7.58	6.24	4.54	2.40	1145
NEZPERCE	1.36	3.31	4.72	5.97	7.28	6.13	4.18	1.94	1068
OAKLEY	2.01	4.64	6.24	7.98	8.69	7.34	5.64	3.61	1413
OLA 4 S	1.94	4.27	5.98	7.74	8.51	7.09	5.38	3.00	1344
OROFINO	1.89	4.13	5.51	6.69	8.02	6.65	4.63	2.24	1217
PALISADES DAM	1.01	4.13	6.20	7.80	8.64	7.15	5.35	3.14	1329
PARMA EXP. STATION	2.23	4.70	6.28	7.92	8.67	7.25	5.46	3.17	1398
PAUL 1 ENE	1.83	4.42	6.17	7.86	8.52	7.14	5.39	3.28	1366
PAYETTE	2.29	4.82	6.44	8.09	8.92	7.44	5.58	3.21	1432
PICABO	1.07	4.21	6.11	7.92	8.22	7.02	5.19	3.06	1309
POCATELLO WSO AP	1.64	4.51	6.30	8.48	9.16	7.58	5.58	3.36	1427
POROTHILL	1.00	3.62	5.01	5.97	7.66	6.02	4.06	1.65	1071
POTLATCH 3 NNE	1.21	3.56	4.78	5.72	7.41	5.91	4.17	1.92	1062
PRESTON SUGAR FACTORY	1.17	4.06	5.39	7.23	8.26	7.13	5.23	2.88	1265
REYNOLDS	1.84	3.89	5.66	7.47	8.37	7.07	5.26	3.00	1303
RICHFIELD	1.52	4.76	6.44	8.09	8.40	7.14	5.43	3.34	1380
RIGGINS	2.11	4.36	5.69	6.89	8.49	7.18	5.08	2.60	1298
RUPERT	1.90	4.76	6.38	8.15	8.87	7.37	5.58	3.43	1421
ST ANTHONY 1 WNW	.98	4.25	6.23	7.62	8.33	6.87	5.05	2.94	1294
SAINT MARIES	1.24	3.71	5.04	6.01	7.81	6.20	4.37	1.97	1113
SALMON	1.31	4.61	6.12	7.59	8.42	6.82	4.87	2.75	1300
SALMON 1 N	1.48	4.56	6.15	8.00	8.73	7.06	4.97	2.69	1335
SANDPOINT EXP. STATION	1.05	3.55	4.90	5.85	7.48	5.91	4.06	1.73	1057
SHOSHONE 1 WNW	1.82	5.14	6.82	8.62	9.01	7.66	5.80	3.57	1482
STANLEY	.35	3.09	5.07	6.86	6.95	5.87	4.23	2.40	1065
STREVELL	1.65	4.24	5.93	7.80	8.68	7.33	5.54	3.29	1361
SWAN FALLS POWER HOUSE	2.58	5.19	6.91	8.66	9.69	8.14	6.28	3.79	1569
SWAN VALLEY	1.08	3.91	5.82	7.35	8.16	6.67	4.90	2.74	1243
TENSED	1.18	3.40	4.54	5.65	7.33	5.93	4.09	1.84	1039
TETONIA EXP. STATION	.62	3.47	5.60	7.25	8.10	6.65	4.77	2.55	1193
THREE CREEK	1.53	3.85	5.36	7.15	7.89	6.64	4.76	2.97	1229
TWIN FALLS 2 NNE	2.13	4.90	6.58	8.25	8.86	7.40	5.61	3.52	1446
TWIN FALLS 3 SE	2.03	4.76	6.42	8.12	8.75	7.26	5.54	3.45	1418
TWIN FALLS WSO	1.95	4.18	6.23	7.49	8.10	6.82	5.21	3.34	1326
WEISER 2 SE	2.27	4.78	6.41	8.10	8.86	7.35	5.54	3.20	1423

Table C-6. Standard deviation of Alfalfa Reference Evapotranspiration, mm/day. Not adjusted for station aridity.

	Mar	Apr	May	June	July	Aug	Sept	Oct
ABERDEEN EXP. STATION	.47	.54	.51	.48	.32	.31	.40	.36
AMERICAN FALLS 1 SW	.42	.44	.46	.52	.28	.29	.37	.35
ANDERSON DAM	.38	.45	.47	.54	.29	.36	.44	.40
ARBON 2 NW	.44	.49	.40	.47	.22	.37	.44	.38
ARCO 3 SW	.54	.56	.53	.47	.37	.38	.40	.36
ASHTON	.47	.60	.52	.49	.32	.31	.41	.38
BAYVIEW MODEL BASIN	.18	.23	.33	.29	.27	.32	.29	.18
BLACKFOOT 2 SSW	.46	.58	.47	.43	.34	.34	.44	.38
BLISS	.35	.47	.49	.47	.26	.33	.41	.35
BOISE WSO AP	.31	.38	.46	.47	.32	.40	.44	.32
BONNERS FERRY 1 SW	.26	.32	.30	.33	.29	.30	.34	.16
BRUNEAU	.30	.48	.43	.50	.35	.33	.42	.30
BURLEY FAA AP	.34	.45	.46	.46	.24	.31	.40	.34
CABINET GORGE	.22	.28	.35	.32	.29	.37	.38	.16
CALDWELL	.28	.37	.47	.51	.37	.39	.38	.26
CAMBRIDGE	.47	.44	.45	.51	.43	.39	.39	.29
CASCADE 1 NW	.36	.42	.43	.46	.30	.33	.44	.31
CASTLEFORD 2 N	.36	.52	.39	.45	.22	.38	.41	.33
CHALLIS	.39	.48	.52	.52	.33	.37	.37	.34
CHILLY BARTON FLAT	.48	.53	.49	.52	.42	.42	.41	.35
COEUR D'ALENE 1 E	.25	.34	.35	.33	.28	.32	.35	.19
COTTONWOOD	.33	.37	.43	.41	.38	.34	.36	.25
COUNCIL	.46	.43	.46	.49	.30	.38	.42	.28
DEER FLAT DAM	.28	.37	.43	.39	.26	.28	.34	.23
DRIGGS	.47	.57	.52	.53	.32	.30	.44	.38
DUBOIS EXP. STATION	.48	.60	.56	.54	.35	.33	.45	.39
EMMETT 2 E	.30	.41	.47	.46	.32	.34	.37	.27
FAIRFIELD RANGER STATION	.47	.52	.44	.43	.28	.43	.48	.39
FORT HALL INDIAN AGENCY	.40	.49	.52	.48	.29	.32	.34	.34
GARDEN VALLEY RS	.30	.43	.39	.47	.32	.36	.41	.27
GLENNS FERRY	.35	.44	.49	.48	.30	.36	.35	.33
GRACE	.54	.64	.48	.55	.35	.32	.40	.39
GRAND VIEW 2 W	.28	.42	.46	.49	.35	.36	.38	.28
GRANGEVILLE	.30	.38	.42	.37	.32	.36	.41	.26
HAILEY RANGER STATION	.45	.62	.55	.50	.34	.39	.44	.41
HAMER 4 NW	.48	.49	.49	.42	.30	.35	.40	.34
HAZELTON	.37	.49	.55	.51	.39	.36	.41	.38
HILL CITY	.52	.54	.50	.49	.29	.35	.40	.35
HOLLISTER	.38	.54	.57	.59	.32	.37	.44	.40
HOWE	.48	.46	.37	.45	.31	.33	.48	.36
IDAHO CITY	.39	.41	.46	.41	.32	.35	.40	.31
IDAHO FALLS 2 ESE	.44	.50	.48	.44	.26	.36	.42	.32
IDAHO FALLS 16 SE	.43	.48	.35	.41	.31	.43	.51	.40
IDAHO FALLS FAA AP	.54	.54	.53	.49	.26	.30	.41	.35
IDAHO FALLS 46 W	.51	.48	.48	.50	.27	.36	.45	.32
ISLAND PARK DAM	.46	.54	.49	.46	.30	.35	.43	.39
JEROME	.37	.48	.55	.53	.31	.36	.40	.34
KELLOGG	.26	.38	.38	.35	.31	.34	.35	.20

Table C-6. Continued.

	Mar	Apr	May	June	July	Aug	Sept	Oct
KILGORE	.39	.55	.43	.38	.25	.36	.52	.41
KOOSKIA	.25	.33	.36	.34	.26	.30	.32	.20
KUNA 2 NNE	.29	.42	.45	.41	.32	.34	.36	.30
LEWISTON WSO AP	.23	.32	.35	.41	.31	.40	.36	.20
LIFTON PUMPING STATION	.51	.58	.44	.43	.23	.27	.36	.32
MACKAY RANGER STATION	.46	.59	.53	.53	.34	.36	.37	.38
MALAD	.38	.49	.45	.45	.31	.36	.40	.35
MALAD CITY	.42	.39	.41	.42	.21	.34	.34	.30
MALTA 2 E	.41	.50	.40	.52	.29	.49	.44	.29
MAY	.41	.46	.47	.48	.32	.34	.41	.31
MC CALL	.45	.52	.50	.49	.27	.36	.40	.30
MINIDOKA DAM	.41	.45	.47	.47	.28	.36	.41	.35
MONTPELIER RANGER STATION	.50	.62	.48	.52	.27	.31	.36	.37
MOSCOW-UNIV. OF IDAHO	.27	.40	.39	.36	.30	.34	.35	.23
MOUNTAIN HOME	.32	.46	.50	.51	.34	.38	.40	.40
NEW MEADOWS RANGER STATION	.45	.42	.42	.42	.27	.32	.39	.29
NEZPERCE	.28	.36	.40	.37	.29	.38	.42	.23
OAKLEY	.37	.49	.54	.51	.32	.34	.39	.39
OLA 4 S	.35	.38	.41	.42	.27	.38	.43	.27
OROFINO	.24	.32	.36	.35	.25	.29	.31	.20
PALISADES DAM	.42	.52	.46	.47	.31	.34	.40	.37
PARMA EXP. STATION	.29	.42	.46	.48	.33	.34	.34	.26
PAUL 1 ENE	.36	.45	.47	.47	.27	.36	.42	.35
PAYETTE	.29	.36	.41	.40	.27	.31	.34	.25
PICABO	.53	.51	.53	.54	.33	.45	.56	.41
POCATELLO WSO AP	.41	.47	.48	.48	.28	.35	.45	.39
PORTHILL	.27	.28	.30	.31	.27	.30	.31	.17
POTLATCH 3 NNE	.28	.40	.39	.37	.35	.32	.39	.26
PRESTON SUGAR FACTORY	.48	.50	.44	.46	.25	.30	.34	.30
REYNOLDS	.31	.45	.43	.43	.30	.44	.46	.32
RICHFIELD	.54	.48	.50	.51	.31	.37	.40	.34
RIGGINS	.29	.43	.40	.40	.27	.37	.39	.26
RUPERT	.39	.45	.58	.53	.32	.31	.35	.37
ST ANTHONY 1 WNW	.47	.52	.52	.41	.26	.31	.40	.37
SAINT MARIES	.26	.37	.37	.33	.30	.33	.35	.20
SALMON	.40	.37	.48	.43	.27	.27	.35	.28
SALMON 1 N	.33	.50	.36	.42	.27	.35	.38	.30
SANDPOINT EXP. STATION	.26	.33	.33	.30	.25	.28	.30	.17
SHOSHONE 1 WNW	.46	.51	.54	.58	.36	.46	.46	.37
STANLEY	.57	.47	.40	.49	.20	.34	.53	.32
STREVELL	.39	.54	.53	.64	.31	.34	.49	.41
SWAN FALLS POWER HOUSE	.29	.41	.44	.53	.29	.32	.39	.29
SWAN VALLEY	.45	.53	.38	.35	.32	.33	.45	.34
TENSED	.19	.30	.27	.29	.22	.32	.40	.17
TETONIA EXP. STATION	.46	.55	.49	.41	.31	.34	.49	.37
THREE CREEK	.35	.55	.45	.45	.31	.37	.50	.49
TWIN FALLS 2 NNE	.32	.47	.48	.45	.27	.32	.41	.35
TWIN FALLS 3 SE	.36	.48	.51	.52	.28	.30	.39	.37
TWIN FALLS WSO	.35	.43	.42	.36	.24	.36	.47	.34
WEISER 2 SE	.31	.42	.42	.42	.34	.34	.37	.31

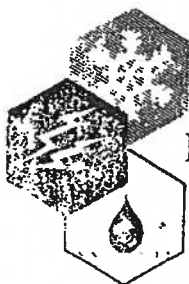
RESEARCH TECHNICAL COMPLETION REPORT

**Estimating Consumptive Irrigation Requirements
for Crops in Idaho**

by

R.G. Allen
C.E. Brockway
University of Idaho
College of Engineering
College of Agriculture

Submitted to
Idaho Department of Water Resources
Boise, Idaho



**Idaho Water and Energy Resources Research Institute
University of Idaho
Moscow, Idaho**

August 1983

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 73-12036

NAME AND ADDRESS: VIRGINIA H CHEWNING
139 PAHSIMEROI RD
ELLIS ID 83235

ROBERT W CHEWNING
139 PAHSIMEROI RD
ELLIS ID 83235

SOURCE: SPRINGS

TRIBUTARY: PAHSIMEROI RIVER

QUANTITY: 0.240 CFS

The quantity of water under this right for stockwater use shall not exceed 13,000 gallons per day.

PRIORITY DATE: 04/01/1945

POINT OF

DIVERSION: T16N R20E S36 NENENE Within LEMHI County
T16N R20E S36 NESENE Within LEMHI County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	04/01 10/31	0.210 CFS
STOCKWATER	01/01 12/31	0.030 CFS

PLACE OF USE: IRRIGATION in LEMHI County

T16N R20E S25	SESE	2.10	T16N R20E S36	NENE	8.10
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STOCKWATER in LEMHI County

T16N R20E S25	SESE	T16N R20E S36	NENE
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10.2 ACRES TOTAL

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

The quantity of water decreed for this water right for stockwater use is not a determination of historical beneficial use.

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.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Beneficial Use