

REACH FLOWS IN CFS	ACTUAL DATE	NATURAL FLOW	ACTUAL RMAINING FLOW NAT FLOW	OPERATN FLOW	STORED RESRVOIR FLOW	NATURAL EVAP FLOW DIV	TOTAL RCH DIV	REACH GAIN LAST RIGHT						
1 TWIN SPRINGS	AUG 26	296.	296.	296.	0.	0.	0.	296.						
2 FEATHERVILLE	AUG 26	148.	148.	148.	0.	0.	0.	148.						
3 FTHRVL TO ANDERSN RANCH	AUG 26	204.	599.	204.	0.	395.	12.	56.						
4 ANDSN RANCH TO ARROWROCK	AUG 26	607.	1065.	607.	0.	458.	6.	107.						
5 MORES CREEK	AUG 26	9.	9.	9.	0.	-1.	0.	9.						
6 ARROWROCK TO LUCKY PEAK	AUG 26	627.	3203.	627.	0.	2576.	11.	11.						
7 LUCKY PEAK TO DIVSN DAM	* AUG 26	628.	1459.	600.	0.	858.	0.	1745.						
8 DIVSN DAM TO BOISE	* AUG 26	628.	955.	461.	0.	494.	0.	504.						
9 BOISE TO GLENWOOD BR	AUG 26	626.	684.	348.	0.	336.	0.	269.						
10 GLENWOOD BR TO MIDDLETN	AUG 26	833.	280.	0.	255.	25.	0.	299.						
11 MIDDLETON TO CALDWELL	* AUG 26	1433.	395.	320.	50.	25.	0.	485.						
12 CALDWELL TO NOTUS	* AUG 26	1567.	367.	304.	50.	13.	0.	150.						
13 NOTUS TO PARMA	AUG 26	1991.	636.	673.	0.	-37.	0.	105.						
* - INDICATES FLOW ESTIMATED, NOT MEASURED					TOTALS		1318.	3931.	1991.					
RESERVOIR	PREV CONT (AF)	CURR CONT (AF)	CHNG CONT (CFS)	ACCR STOR (CFS)	TOTL STOR (AF)	TOTL EV (AF)	PRIORITY	RESERVOIR	RIGHT (AF)	STORED (AF)				
1 ANDERSON RANCH	117934.0	117051.0	-445.2	0.0	0.0	4640.3	1	ARROWROCK	260624.0	0.0				
2 ARROWROCK	52254.0	52192.0	-31.3	0.0	0.0	2655.5	2	ARROWROCK	11600.0	0.0				
3 LUCKY PEAK	157632.0	153407.0	-2130.1	0.0	0.0	3556.9	3	ANDERSON RANCH	449530.0	0.0				
4 DIVERSION DAM	818.7	819.6	0.5	0.0	0.0	0.0	4	LUCKY PEAK	213366.0	0.0				
							5	ANDERSON RANCH LTF	500.0	0.0				
TOTAL	328638.7	323469.6	-2606.0	0.0	0.0	10852.7	6	LUCKY PEAK LTF	51004.0	0.0				
							7	ANDERSON RANCH LLTF	0.0	0.0				
	CHANGE IN CONTENT	STORAGE USED	MIDDLETON STORED	TOTAL STORED	UNACCT STORED			TOTAL	986624.0	0.0				
								TOTAL EARLY SEASON FILL -		783333.4				
YEAR-TO-DATE AF	-293112.4	388841.3	24217.9	130750.8	0.0			STEWART DECREE - 60%	BRYAN DECREE - 0%					
								AVERAGING ERROR	-972.0					
DIVERSION	CFS DIVN	CFS STOR	AF USED	AF RMNG	DIVERSION	CFS DIVN	CFS STOR	AF USED	AF RMNG	DIVERSION	CFS DIVN	CFS STOR	AF USED	AF RMNG
1 SPRING SHORES	0	0	0	0	27 FARMERS UNION	95	55	7001	4657	53 OTTER	0	0	0	0
2 GREEN RANCH	0	0	0	0	28 BOISE VALLEY	43	3	85	1085	54 RIVERSIDE	222	0	0	36
3 OSPREY	0	0	38	252	29 CAPITOL VIEW	7	0	0	7	55 SEBREE	242	0	0	1121
4 WILDERNESS RANCH	0	0	20	174	30 RIVERSIDE VIL	0	0	18	18	56 CAMPBELL	15	0	86	-86
5 USFS NURSERY	0	0	3	182	31 NEW DRY CREEK	31	21	2350	1506	57 SIEBENBERG	6	0	0	0
6 SANDY POINT	0	0	0	0	32 NEW UNION	3	0	0	382	58 SHIPLEY	0	0	0	0
7 FISH AND GAME FL	0	0	0	48706	33 WOODS	0	0	3	-3	59 WAGNER	0	0	12	-12
8 USBR FLOW	0	0	0	102295	34 LEMP	3	0	0	0	60 GOLDEN GATE	2	0	0	0
9 DISCOVERY PARK	0	0	0	0	35 WARM SPRINGS	4	0	74	-15	61 SIMPLOT	1	0	0	0
10 PENITENTIARY	5	3	784	0	36 GRAHAM-GILBERT	1	0	0	0	62 EUREKA #2	102	6	3588	-3588
11 NEW YORK	1740	1714286910	128676	37 BALLENTYNE	12	7	706	646	63 UPPER CENTER POI	12	0	0	0	0
12 SURPRIS VY/MICRN	8	4	124	2800	38 CONWAY-HAMMING	0	0	1	0	64 MCMANUS AND TEAT	2	0	82	-82
13 SHAKESPEARE	0	0	0	0	39 EAGLE ISLAND PAR	0	0	5	-5	65 VALE PUMP	0	0	0	0
14 RIDENBAUGH	443	341	40258	6981	40 THOMAS AIKEN	0	0	126	48	66 LOWER CENTER POI	44	6	711	-711
15 WILLIAMS PARK	0	0	34	-19	41 MACE-CATLIN	8	1	29	531	67 BOWMAN AND SWISH	5	0	0	0
16 BUBB	3	0	0	518	42 MACE-MACE	0	0	0	0	68 BAXTER	12	2	318	-318
17 HERRICK	0	0	1	-1	43 NAGY	0	0	0	0	69 ANDREWS	15	0	15	-15
18 MEEVES	0	0	0	0	44 HART-DAVIS	6	0	125	168	70 MCCURRY PUMP	0	0	0	0
19 ROSSI MILL	7	0	74	216	45 MIDDLETON	124	0	355	6874	71 MAMMON	7	4	1002	-1002
20 BOISE CITY	22	0	14	265	46 BARBER	0	0	38	-38	72 HAAS	19	2	71	-71
21 UNITED WATER	21	20	3492	2095	47 SEVEN SUCKERS	0	0	44	98	73 PARMA	21	10	5118	-5118
22 K ALBERTSON	0	0	0	10	48 PHYLLIS	302	281	36073	20388	74 ISLAND HIGHLINE	41	21	5889	-5889
23 SETTLERS	100	90	7938	3667	49 EUREKA #1	20	0	738	1003	75 CRAWFORTH	0	0	3	-3
24 FAIRVIEW ACRES	6	6	616	835	50 LITTLE PIONEER	17	0	117	472	76 MCCONNEL ISLAND	36	13	5307	-5307
25 ANN MORRISON	0	0	0	15	51 CANYON COUNTY	58	0	29	1358	77 STUTHEIT	0	0	0	0
26 THURMAN MILL	18	3	408	217	52 CALDWELL HIGHLIN	22	0	207	0					

Number	Process	Priority	Cfs	Source	Use	Owner	Mitigates
2-10348	WR DECREE	1/19/1949	0.020	SNAKE RIVER	MITIGATION	WARNER	IRRIGATION & DOMESTIC, 57-11714
57-235	WR DECREE	12/10/1907	1.100	CASTLE CREEK	MITIGATION, IRRIGATION, DIV.TO STORAGE	SV RANCH LLC	POND, 57-11794
61-12232	WR DECREE	4/23/1964	0.110	GROUND WATER	MITIGATION, IRRIGATION	NAZARENE CHURCH	DOMESTIC, 61-12211
63-145	WR DECREE	6/1/1865	33.320	BOISE RIVER	MITIGATION, GW RECHARGE, IRRIGATION	EUREKA WATER CO	POND, 63-32811
63-183	WR DECREE	6/1/1870	25.720	BOISE RIVER	MITIGATION, IRRIGATION	PIONEER DITCH CO LTD	POND & IRRIGATION, 63-32602, 63-33031
63-243G	WR DECREE	5/1/1889	1.340	BOISE RIVER	MITIGATION, IRRIGATION	S. BOISE MUTUAL IRRIGATION	PONDS & IRRIGATION, 63-33052, 63-33341, M. WILLIAMS PARK
63-283A	WR DECREE	4/1/1870	0.700	BOISE RIVER	MITIGATION, IRRIGATION	S. BOISE MUTUAL IRRIGATION	PONDS & IRRIGATION, 63-33454, BOISE TRAIN DEPOT
63-365	WR DECREE	7/2/1902	7.100	WARM SPRINGS CREEK	MITIGATION, IRRIGATION	HARRIS FAMILY PRT.	PONDS, HARRIS RANCH, 63-32966
63-2973	WR DECREE	12/28/1953	0.420	GROUND WATER	MITIGATION, IRRIGATION	HARRIS FAMILY PTR.	PONDS, HARRIS RANCH, 63-32966
63-31499	WR DECREE	3/1/1865	0.080	BOISE RIVER	MITIGATION	SUNDANCE INVESTMENT PRT.	IRRIGATION, 63-31258 (mitigation parent 63-270)
63-32397	WR DECREE	2/7/1969	0.050	GROUND WATER	MITIGATION	TUSCANY HOMEOWNERS ASSN	PONDS, 63-32052
63-32401	WR DECREE	2/7/1969	0.030	GROUND WATER	MITIGATION	EAGLE PRECAST CO	INDUSTRIAL & COMMERCIAL, 63-32084
63-32614	WR DECREE	3/1/1865	1.580	BOISE RIVER	MITIGATION	RIVERS END NEIGHBORHOOD ASSN	PONDS & IRRIGATION, 63-31515, 63-33400 (mitigation parent 63-270)
63-32917	WR DECREE	6/1/1865	0.440	BOISE RIVER	MITIGATION, IRRIGATION	NAGY SPRINGCREEK	POND & IRRIGATION, 63-32125, 63-32126 (mitigation parent 63-144C)
65-2256	WR DECREE	8/4/1919	32.900	GOLD FORK RIVER	MITIGATION, IRRIGATION, DIV. TO STORAGE	GOLD FORK IRRIGATING CO	PONDS, 65-23377
65-2590C	WR DECREE	4/19/1954	0.080	PAYETTE RIVER	MITIGATION	SHEPHERD	IRRIGATION, 65-22885
65-11272C	WR DECREE	6/22/1966	0.030	PAYETTE RIVER	MITIGATION	SHEPHERD	IRRIGATION 65-22885
65-23371	WR DECREE	9/9/1936	0.470	MUD CREEK	MITIGATION, IRRIGATION	KDB LLC	PONDS 65-23098
65-23373	WR DECREE	8/18/1919	0.470	LAKE FORK	MITIGATION, IRRIGATION	KDB LLC	PONDS 65-23098
63-127D	SRBA REC'D	6/1/1864	0.410	BOISE RIVER	MITIGATION	OBENDORF	IRRIGATION SAND HOLLOW CK BELOW STAR
63-128D	SRBA REC'D	6/1/1865	0.720	BOISE RIVER	MITIGATION	OBENDORF	IRRIGATION SAND HOLLOW CK BELOW STAR
63-129D	SRBA REC'D	6/1/1870	0.160	BOISE RIVER	MITIGATION	OBENDORF	IRRIGATION SAND HOLLOW CK BELOW STAR
63-130D	SRBA REC'D	6/1/1888	0.110	BOISE RIVER	MITIGATION	OBENDORF	IRRIGATION SAND HOLLOW CK BELOW STAR
63-131D	SRBA REC'D	6/1/1891	0.420	BOISE RIVER	MITIGATION	OBENDORF	IRRIGATION SAND HOLLOW CK BELOW STAR
63-178D	SRBA REC'D	6/1/1869	0.540	BOISE RIVER	MITIGATION	OBENDORF	IRRIGATION SAND HOLLOW CK BELOW STAR
63-180	SRBA REC'D	6/1/1869	3.500	BOISE RIVER	MITIGATION	JOHNSON FARMS	IRRIGATION SAND HOLLOW CK BELOW STAR
63-181	SRBA REC'D	6/1/1874	2.200	BOISE RIVER	MITIGATION	JOHNSON FARMS	IRRIGATION SAND HOLLOW CK BELOW STAR
63-33406	SRBA REC'D	6/1/1865	3.800	BOISE RIVER	MITIGATION, IRRIGATION	JOHNSON FARMS	IRRIGATION SAND HOLLOW CK BELOW STAR
63-33497	SRBA REC'D	3/1/1964	2.790	BOISE RIVER	MITIGATION	OBENDORF	IRRIGATION SAND HOLLOW CK BELOW STAR
63-33511	SRBA REC'D	6/1/1865	3.200	BOISE RIVER	MITIGATION	OBENDORF	IRRIGATION SAND HOLLOW CK BELOW STAR

RIGHTS WITH MITIGATION AS BENEFICIAL USE -- Western Region 8/26/2013. Does not include transfers approved to cover new permits.

5. Boise Mutual Irr right

- 1865-1889 River
- 1927 waste water ("unrentable")

Basin	Sequence	Suffix	Basis	Priority Date	Diversion Rate	Source List	Water Use List	Current Owner
63	242	B	Decreed	5/1/1889	0.860	BOISE RIVER	IRRIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	243	C	Decreed	5/1/1889	0.230	BOISE RIVER	IRRIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	243	F	Decreed	5/1/1889	0.020	BOISE RIVER	IRRIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	243	G	Decreed	5/1/1889	1.340	BOISE RIVER	IRRIGATION, MITIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	280		Decreed	4/1/1865	1.800	BOISE RIVER	IRRIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	281		Decreed	4/1/1865	0.500	BOISE RIVER	IRRIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	282		Decreed	4/1/1870	0.300	BOISE RIVER	IRRIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	283	A	Decreed	4/1/1870	0.700	BOISE RIVER	IRRIGATION, MITIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	284	A	Decreed	3/1/1889	0.840	BOISE RIVER	IRRIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD
63	2392	E	Decreed	9/13/1927	2.250	WASTE WATER	IRRIGATION	SOUTH BOISE MUTUAL IRRIGATION CO LTD

Mitigation "Convenience Record,"  
 Actually proportional among all rights  
 held by company.

## MITIGATE WITH STEWART DECREE RIGHTS

Boise River rights from the Stewart Decree usually can be used to mitigate a new consumptive use to prevent injury to senior river rights. These rights are usually identified by condition #155 used in the SRBA. That condition describes rationed cuts (100, 75, 60%) before any total curtailment of an individual Stewart Decree right can occur.

Priorities for these rights range from 1864 to 1909 and generally, maybe always, provide at least 0.02 cfs and 4.5 af (full diversion volume) per acre.

Generally, Stewart Decree rights with priorities to about mid 1880s are not totally cut off and can successfully mitigate new consumptive uses without further analysis. These rights are available for mitigation unless totally curtailed by the Watermaster. Analysis should distinguish between mitigation from a group of rights vs. from a single right.

### Typical Ditch Company Situation

Ditch company has multiple Stewart Decree rights with a range of priorities, including at least some of the “uncuttable” senior rights (1860s-1880s).

Company chooses 1 right for mitigation to represent mitigation from all of its rights – so a mixture of priorities is actually in play.

Even when cut to 60%, the rights provide full volume.

Even if some of the company rights are cut to zero, it would be late enough in the season to not make a noticeable difference in the mitigation effort – those rare events could be covered by an “emergency lease of rental pool water” if necessary.

The chances that most or all of the company rights would be totally curtailed are remote if not impossible.

**Result:** Provided some of the group rights are 1885 or older, they can successfully mitigate new consumptive uses without further analysis. Rights not listed as the mitigation right are associated rights for same total acres reduction.

### Typical Non-Ditch Company Situation

Sometimes a stand-alone right is provided for mitigation.

Priority is the key for this situation.

**Result:** An 1885 or older right can successfully mitigate new consumptive uses without further analysis. Assume a right younger than 1885 needs Watermaster confirmation that it is not totally curtailed in an *average* year. Call/email Watermaster to confirm and document the file.

**References** – see next page.

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<b><u>Owner Type</u></b>	<b><u>Name</u></b>
Current Owner	SOUTH BOISE MUTUAL IRRIGATION CO LTD
<b><u>Priority Date:</u></b> 5/1/1889	
<b><u>Basis:</u></b> Decreed	
<b><u>Status:</u></b> Active	

<u>Source</u>	<u>Tributary</u>
BOISE RIVER	SNAKE RIVER

<b><u>Source and Point(s) of Diversion</u></b>			
BOISE RIVER	SENW	Sec. 30, Twp 03N, Rge 03E,	ADA County

Large POU not displayed  
Total Acres = 195.6

1.	S45	Diversion for irrigation 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 Reservoir 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.
2.	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.
3.	K06	THIS RIGHT IS LIMITED TO THE IRRIGATION OF 195.6 ACRES WITHIN THE BOUNDARY OF SOUTH BOISE MUTUAL IRRIGATION COMPANY.
4.	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

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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.

- |    |     |   |
|----|-----|---|
| 5. | 135 | The boundary encompassing the 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. |
| 6. | F06 | THE FOLLOWING RIGHTS ARE ALSO DIVERTED THROUGH POINT OF DIVERSION DESCRIBED ABOVE: 63-242B, 63-243F, 63-280, 63-281, 63-282, 63-283A, 63-284A & 63-2392E.   |
| 7. | F01 | WATER IS DELIVERED THROUGH BUBB CANAL   |
| 8. | SD1 | This right originated as all or part of right no. 110 in the Stewart Decree and the historic Boise River Water Masters records.   |

**Combined Use Limits**

N/A

**SubCase:**

N/A

**Water Supply Bank:**

N/A

9/3/2013

<b><u>Owner Type</u></b>	<b><u>Name</u></b>
Current Owner	CITY OF BOISE
Representative	SPF WATER ENGINEERING LLC
<b><u>Priority Date:</u></b>	2/18/2010
<b><u>Status:</u></b>	Active

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	03/01	11/15	0.800 CFS	
	<b>Total Diversion</b>		0.800 CFS	

T03N R03E S19	SWSW	11.0
T03N R03E S19 L5	SESW	29.0
T03N R03E S19	SWSE	17.0
T03N R03E S30 L9	NENE	3.0
T03N R03E S30 L9	NWNE	31.0
T03N R03E S30	SWNE	13.0
T03N R03E S30 L8	SENE	2.0
T03N R03E S30	NENW	10.0
T03N R03E S30	SENW	1.0
POU Total Acres:		117.0

1.	26A	Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
2.	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, Boise River.
3.	01J	Prior to diversion of water under this right, the right holder shall install and maintain a measuring device and lockable controlling works of a type acceptable to the Department as part of the diverting works.
4.	X27	This right is limited to the irrigation of 40 acres within the authorized place of use in a single irrigation season.
5.	170	To mitigate for the depletion of water resulting from the use of water under this right and to prevent injury to senior water right holders, the right holder shall cease diverting and using water as authorized by the following water rights for the purposes and amounts specified below. Moreover, the official record for the following water right will be changed to show that diversion and use of water is not authorized because the rights,

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or portion thereof, are being dedicated to mitigation purposes.

Right No.	Use Changed to Mitigation Irrigation	Mitigation Rate (cfs)	Mitigation Volume (AF)	Mitigation Acres
63-243G		0.80	180.0	40

The land that will no longer be irrigated under this right is located within the authorized boundary of the South Boise Mutual Irrigation Company Ltd.

If the specified mitigation right, or portion thereof, is sold, transferred, leased, used on any place of use, or is not deliverable due to a shortage of water or a priority call, then the amount of water authorized for diversion under this right approval shall be reduced by the same proportion as the reduction to the mitigation rights.

6. R65 This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
7. 206 Upon specific notification by the Department, this right shall be limited to the irrigation of a specific 40 acres within the 117 acre place of use authorized by this right in a single irrigation season. If required, the specific 40 acres to be irrigated by the right holder shall be identified prior to use by submittal of a land list and a representative electronic shape file or by submittal of a land list and a map sufficiently detailed to allow creation of an electronic shape file to be associated with this right in the geographic information system component of the water rights database maintained by the department. If required, before changing the 40 acres to be irrigated within the 117 acre place of use, the right holder shall submit a new land list and representative electronic shape file or map to the Department prior to the irrigation season in which the change will occur.
8. 004 This right does not grant any right-of-way or easement across the land of another.
9. X59 This right is diverted through the Walling Ditch.
10. X60 Place of use is Marianne Williams Park.

**Combined Use Limits**

N/A

**SubCase:**

N/A

**Water Supply Bank:**

N/A



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**Water Right 63-33052**

**Owner Type**            **Name**  
Current Owner        CITY OF BOISE  
**Priority Date:** 9/2/2009  
**Basis:** License  
**Status:** Active

<b><u>Source</u></b>	<b><u>Tributary</u></b>
GROUND WATER	BOISE RIVER

<b><u>Beneficial Use</u></b>	<b><u>From</u></b>	<b><u>To</u></b>	<b><u>Diversion Rate</u></b>	<b><u>Volume</u></b>
MUNICIPAL STORAGE	01/01	12/31		64.5 AF
	<b><u>Total Diversion</u></b>			64.5 AF

**Source and Point(s) of Diversion**

GROUND WATER	L5(SESW)	Sec. 19, Twp 03N, Rge 03E, ADA County
GROUND WATER	L9(NWNE)	Sec. 30, Twp 03N, Rge 03E, ADA County

**Place Of Use**

**MUNICIPAL STORAGE within ADA County**

T03N R03E S19	SWSW
T03N R03E S19 L5	SESW
T03N R03E S30 L9	NWNE

**Conditions of Approval:**

1.     X60     Place of use is Marianne Williams Park.
2.     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, Boise River.
3.     170     To mitigate for the depletion of water resulting from the use of water under this right and to prevent injury to senior water right holders, the right holder shall cease diverting and using water as authorized by the following water rights for the purposes and amounts specified below. Moreover, the official record for the following water right will be changed to show that diversion and use of water is not authorized because the rights, or portion thereof, are being dedicated to mitigation purposes.

Right No.	Use Changed to Mitigation	Mitigation Rate (cfs)	Mitigation Volume (AF)	Mitigation Acres
63-243G	Irrigation	0.10	22.5	5.0

The land that will no longer be irrigated under this right is located within the authorized boundary of South Boise Mutual Irrigation Company Ltd.

If the specified mitigation right, or portion thereof, is sold, transferred, leased, used on any place of use, or is not deliverable due to a shortage of water or a priority call, then the amount of water authorized for diversion under this right approval shall be reduced by the same proportion as the reduction to the mitigation rights.

4.     R43     The right holder shall maintain a measuring device and lockable controlling works of a

**IDAHO DEPARTMENT OF WATER RESOURCES**  
**Proof Report**

9/3/2013

- type approved by the Department in a manner that will provide the watermaster suitable control of the diversion(s).
5.       123     Water stored under this right is subject to fluctuations of the water table caused by changes in the flow of local streams and by diversions under prior ground water rights. This right does not guarantee the maintenance of any particular ground water level.
  - 6.
  7.       220     The two (2) ponds established by the storage of water under this right shall not exceed a total capacity of 64.5 acre-feet or a total surface area of 5 acres.

**Combined Use Limits**

N/A

**SubCase:**

N/A

**Water Supply Bank:**

N/A

## IDAHO DEPARTMENT OF WATER RESOURCES

Adjudication Recommendation Report 63-301 V1

WATER RIGHT NUMBER: 63-301 V1

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	UNITED STATES OF AMERICA ACTING THROUGH BUREAU OF RECLAMATION REGIONAL DIRECTOR PN CODE-3100 1150 N CURTIS RD STE 100 BOISE, ID 83706-1234 (208)378-5306

Priority Date: 12/14/1903

Basis: Decreed

Status: Active

<u>Source</u>	<u>Tributary</u>
BOISE RIVER	SNAKE RIVER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION FROM STORAGE	03/01 to 11/15		173,100.00 AF
DIVERSION TO STORAGE	01/01 to 12/31	2,800.000 CFS	
IRRIGATION STORAGE	01/01 to 12/31		173,100.00 AF
IRRIGATION	03/01 to 11/15	1,354.580 CFS	
<u>Total Diversion:</u> 1,354.580 CFS			

Location of Point(s) of Diversion

BOISE RIVER	L7 (SW1/4NE1/4)	Sec. 9,	Twp 03N,	Rge 02E, B.M.
ADA County				
BOISE RIVER	L13 (NW1/4SW1/4)	Sec. 3,	Twp 02N,	Rge 03E, B.M.
ADA County				

Place of UseConditions of Approval:

1. 135 The boundary encompassing the 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.
2. 200 The name of the United States of America acting through the Bureau of Reclamation appears in the Name and Address sections of this partial decree. However, as a matter of Idaho Constitutional and Statutory Law, title to the use of the water is held by the consumers or users of the water. The irrigation organizations act on behalf of the consumers or users to administer the use of the water for the landowners in the quantities and/or percentages specified in the contracts between the Bureau of Reclamation and the irrigation organizations for the benefit of the landowners entitled to receive distribution of this water from the respective irrigation organizations. The interest of the consumers or users of the water is appurtenant to the lands within the boundaries of or served by such irrigation organizations, and that interest is derived from law and is not based exclusively on the contracts between the Bureau of Reclamation and the irrigation organizations.

IDAHO DEPARTMENT OF WATER RESOURCES  
Adjudication Recommendation Report 63-301 V1

SubCase:

SubCase Number: 63-301  
Class: 1  
SF5 Filed Date:  
Special Master Recom Signed Date:  
Attorney Assigned:  
Adjudication Agent: Anita Warntjes  
Basis of Claim: Decreed  
Date Filed: 8/20/2007 Objection Status: Active  
Date Filed: 6/19/2007 Objection Status: Active  
Date Filed: 6/15/2007 Objection Status: Active  
Date Filed: 6/13/2007 Objection Status: Active

Water Supply Bank:



IN REPLY REFER TO.

# United States Department of the Interior

## BUREAU OF RECLAMATION

SNAKE RIVER AREA OFFICE  
214 BROADWAY AVENUE  
BOISE, IDAHO 83702-7298

CONTROL NO. 95-3843

FOLDER ID 8227

SRAO-6415  
WTR-4.10

July 19, 1995

Don Smitchger/President  
Settlers Irrigation District  
PO Box 7571  
Boise ID 83707-1571

Subject: Delivery of Project Water to Government Lands within the  
Settlers Irrigation District.

Dear Don:

Sometime ago your district, the Boise Project Board of Control, and the water district #63 Watermaster requested that this office assist in resolving an Arrowrock Division storage and natural flow allocation question dating back to the 1920's. After lengthy research into our files and the district records and contracts, as well as discussions with all parties concerned we have determined that a reallocation of storage space and natural flow rights is in order.

The following will give you some background information into the situation and our method of resolution. By contract of February 18, 1919, Reclamation established 420 acres of government lands within the Settlers Irrigation District. According to the contract, "the United States will provide both storage capacity in the Arrowrock Reservoir and carrying capacity in the canal system constructed by the United States...and [that the United States] will deliver to the District for distribution to the [these] lands...as nearly as practical the same proportionate share per acre of water actually available for...as is provided for similar project lands of the Boise Project outside of [Settlers], but not more however, that is needed for beneficial use on said lands."

On September 19, 1921, the Settlers Irrigation District and Anna Noble, with concurrence from Reclamation, entered into an agreement to allow 98.13 acres of Anna Noble's land to have a full government water right from the Boise Project under the provisions of the 1919 contract.

On June 12, 1931, Reclamation and Settlers Irrigation District executed Adjustment Contract B-12-4 which required Settlers Irrigation District to pay all past due construction, operation, and maintenance charges due from the district to the United States for the total 518.13 acres of project lands.

301

BUREAU OF RECLAMATION OFFICIAL FILE COPY		
JUL 24 1995		
TO	INIT	DATE
3300	WMP	7/25
FILE		

cy to 3317

Originally the 420 acres were to receive water from a lateral off the Boise Project System as recognized in the 1919 and 1921 agreements to deliver water to the "project lands" located in Settlers Irrigation District from the Main Canal. However, the supply lateral from the Main Canal to the land in question was never constructed. Consequently, Settlers Irrigation District has transmitted the water to these lands through their diversion dam and canal system. However, the storage capacity for these project lands was retained in the Boise Project district accounts and the carrying capacity remains in the New York Canal.

We have determined that the most expeditious and direct method to correct the records and to honor previously executed contracts will be to reallocate storage amounts of the parties involved (the five irrigation districts within the Boise Project to Settlers Irrigation District Account), and to implement the new allocations through the water master. The permanent transfer of storage and natural flow water will be for the 518.13 acres of "project lands." Enclosed are two lists, one reflecting the current allocation amounts and one reflecting the amounts after the reallocations.

Reclamation will reallocate a total of 803 acre-feet of Arrowrock Reservoir storage space and 8.79 cubic feet per second of project flow rights. The apportionment of storage space will be based on the irrigable acres recognized in the 1990 Deer Flat Safety of Dams Repayment Contract number 0-07-10-W0801. Calculations for re-allocations is attached and the re-allocations are as follows:

Big Bend	8 acre feet
Boise-Kuna	238 acre feet
Nampa and Meridian	193 acre feet
New York	87 acre feet
Wilder	277 acre feet

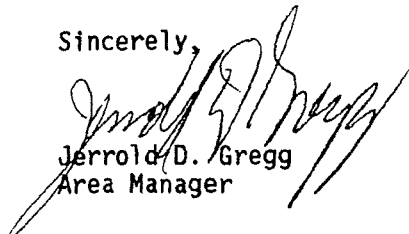
Reclamation will add the Settlers Canal as an alternate point of diversion for 803 acre feet of Arrowrock Reservoir storage and 8.79 cubic feet per second of project flow rights for the 518.13 acres of project lands. The attached chart will indicate storage allocations after the changes have been made.

An additional condition that will require adjustments to the diversion point and the storage allocations is the delivery to 126.59 acres of Boise-Kuna lands that lie within the Settlers external boundaries. The lands continue to be Boise-Kuna lands, however, the delivery of water to these lands will be diverted through the Settlers Canal. A total of 196 acre-feet and 2.15 cubic feet per second will be taken from the Boise-Kuna account for delivery to these lands.

We will instruct the water master to make the storage reallocations as of this date and the Regional Water Rights Officer will make the necessary filings to amend the natural flow rights and points of diversion in the Snake River Basin Adjudication.

If you have further questions regarding this matter please contact Ruth Page at 334-9168.

Sincerely,

  
Jerrold D. Gregg  
Area Manager

Enclosures

Mr. Pedro Sillonis  
President  
Big Bend Irrigation District  
747 Red Top Road  
Adrian ID 07901

Mr. Carl German  
Chairman  
Boise-Kuna Irrigation District  
129 North School Street  
Kuna ID 83634

Mr. Henry Weick  
President  
Nampa & Meridian Irrigation District  
1503 First Street South  
Nampa ID 83651

Mr. Richard Murgoitio  
President  
New York Irrigation District  
6616 Overland Road  
Boise ID 83709

Mr. Doug Norris  
President  
Wilder Irrigation District  
PO Box 416  
Caldwell ID 83605

Mr. Lee Cisco  
Boise River Water Master  
6616 Overland Road  
Boise ID 83709

Boise Project Board of Control

Boise Field Solicitor's Office/ attn: Kathleen Carr  
SRA0-6410, PN-3300, PN-3317

1. ARROWROCK SPACE 255,064 AF
2. ACREAGE TOTAL FOR BOISE PROJECT (ARROWROCK DIVISION) 164,572.28 ACRES
3. ARROWROCK RE-ALLOCATION:  
 $(255,064\text{AF} \div 164,572.28\text{AC}) = 1.55\text{AF/AC}$   
 $1.55\text{AF/AC} \times 518.13\text{AC} = 803.02 (803 \text{ AF})$

4. ARROWROCK PROJECT NATURAL FLOWS:

	Government Natural Flows:	
Right:	63-0301	1354.58 CFS
	63-0302	634.00CFS
	63-2388	300.00CFS
	63-0373	292.50CFS
	63-0251	<u>219.10CFS</u>
	total:	2800.18CFS

5. AMOUNT TO BE MOVED TO SETTLERS CANAL

$$2800.18\text{CFS} \div 164,572.28\text{AC} = .0170\text{CFS/AC}$$

$$.0170\text{CFS} \times 518.13\text{AC} = 8.81\text{CFS}$$

6. DEER FLAT SAFETY OF DAMS (SOD) REPAYMENT

-----  
DISTRIBUTION OF REIMBURSABLE COST (\$4,350,000)

DISTRICT	ACRES	ACREAGE* PERCENT	SHARE OF COSTS
BIG BEND	1,716.56	1.05	45,675
BOISE-KUNA	48,628.72	29.64	1,289,340
NAMPA & MERIDIAN	39,476.03	24.06	1,046,610
NEW YORK	17,699.21	10.79	469,365
WILDER	56,532.63	34.46	1,499,010
TOTAL	164,053.15	100.00	4,350,000

\* Acreages used to distribute SOD costs furnished in June 21, 1990 letter from Don Olowinski as adjusted by USBR and BPBOC on June 29, 1990 for Nampa & Meridian and New York irrigation districts.



7. APPORTIONMENT BY DISTRICT PER DEER FLAT SOD PERCENTAGES:

Big Bend       $803 \times .0105 = 8.43$  (8 AF)  
                  $8.81 \times .0105 = 0.11$  cfs

Boise-Kuna     $803 \times .2964 = 238$  (238AF)  
                  $8.81 \times .2964 = 2.61$  cfs

Nampa/Meridian  $803 \times .2406 = 193.20$  (193 AF)  
                  $8.81 \times .2406 = 2.11$  cfs

New York       $803 \times .1079 = 86.64$  (86 AF)  
                  $8.81 \times .1079 = .95$  cfs

Wilder          $803 \times .3446 = 276.71$  (277 AF)  
                  $8.81 \times .3446 = 3.03$  cfs

---

SETTLERS DELIVERY TO BOISE-KUNA LANDS RECEIVING ARROWROCK STORAGE  
AND PROJECT NATURAL FLOWS:

$1.55\text{AF/AC} \times 126.59 \text{ AC} = 196.21$  (196 AF)

$.0170\text{CFS/AC} \times 126.59 \text{ AC} = 2.15 \text{ CFS}$

Revised February 1994

# BOISE PROJECT ARROWROCK DIVISION RESERVOIR SPACEHOLDINGS

(Acre-Feet)

<u>Spaceholders</u>	<u>Anderson Ranch</u>	<u>Arrowrock <sup>1/</sup> Reservoir</u>	<u>Lucky Peak</u>	<u>Total Space</u>
Ballentyne Ditch Co.	376		1,300	1,676
Boise City Canal Co.			1,000	1,000
Boise Project B.O.C.		232,264		232,264
Big Bend I.D.	3,887	236		4,123
Boise-Kuna I.D.	112,149	6,747		118,896
Nampa & Meridian I.D.	77,784	5,584		83,368
New York I.D.	41,006	2,414		43,420
Wilder I.D.	125,108	7,819		132,927
Ridenbaugh Canal (N&M I.D.)	15,137	3,994	35,000	54,131
Boise Valley Irr. Ditch Co.	961		2,500	3,461
South Boise Mutual Irr. Co.	543		500	1,043
Canyon County Water Co.			6,000	6,000
Capitol View I.D.	460		300	760
Fairview Acres Lateral Assoc.			1,500	1,500
Eagle Island Water Users			7,650	7,650
Eureka Water Co.			2,800	2,800
Farmers Union Ditch Co.	5,727	2,926	10,000	18,653
Farmers' Coop. Ditch Co.		1,207		1,207
Middleton Irr. Assoc.			6,380	6,380
Middleton Mill Ditch Co.			4,620	4,620
New Dry Creek Ditch Co.	1,296		3,000	4,296
New Union Ditch Co.			1,400	1,400
Pioneer Ditch Co.	2,174		500	2,674
Pioneer I.D.	25,582	21,399	16,000	62,981
South Boise Water Co.			700	700
Settlers I.D.	5,810	1,810	10,000	17,620
Thurman Mill Ditch Co.			800	800
U.S. Forest Service		200		200
Boise Water Corp.	1,000			1,000
Idaho Dept. of Fish & Game			50,000	50,000
Trinity Springs, Ltd.	800			800
Uncontracted	3,400			3,400
Uncontracted Streamflow Maint.			102,420	102,420
TOTAL ACTIVE CAPACITY (a.f.)	423,200	286,600	264,370	974,170

1/ Pending review of contract entitlements.

Revised July 1995

# **BOISE PROJECT ARROWROCK DIVISION RESERVOIR SPACEHOLDINGS**

(Acre-Feet)

<u>Spaceholders</u>	<u>Anderson Ranch</u>	<u>Arrowrock Reservoir</u>	<u>Lucky Peak</u>	<u>Total Space</u>
Ballentyne Ditch Co.	376		1,300	1,676
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Boise Project B.O.C.		232,264		232,264
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Boise-Kuna I.D.	112,149	6,313*		118,896
Nampa & Meridian I.D.	77,784	5,391		83,368
New York I.D.	41,006	2,327		43,420
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Fairview Acres Lateral Assoc.			1,500	1,500
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Farmers Union Ditch Co.	5,727	2,926	10,000	18,653
Farmers' Coop. Ditch Co.		1,207		1,207
Middleton Irr. Assoc.			6,380	6,380
Middleton Mill Ditch Co.			4,620	4,620
New Dry Creek Ditch Co.	1,296		3,000	4,296
New Union Ditch Co.			1,400	1,400
Pioneer Ditch Co.	2,174		500	2,674
Pioneer I.D.	25,582	21,399	16,000	62,981
South Boise Water Co.			700	700
Settlers I.D.	5,810	2,809*	10,000	17,620
Thurman Mill Ditch Co.			800	800
U.S. Forest Service		200		200
Boise Water Corp.	1,000			1,000
Idaho Dept. of Fish & Game			50,000	50,000
Trinity Springs, Ltd.	800			800
Uncontracted	3,000			3,000
Uncontracted (reserved for Lake Lowell and ESA)	400			400
<u>Uncontracted Streamflow Maint.</u>			<u>102,420</u>	<u>102,420</u>
TOTAL ACTIVE CAPACITY (a.f.)	423,200	286,600	264,370	974,170

\* Includes water for delivery to 126.59 acres of Boise-Kuna lands served by Settlers Irrigation District 1.55 AF/AC X 129.59 AC = 196.21 (196)

SETTLERS' IRRIGATION DISTRICT

P.O. BOX 7571 • BOISE, IDAHO 83707

PHONE 344-2471

DEC 23 1991

100	
420	
420	
DEC 11-22	

December 20, 1991

Class	WTM-4.10
Project	198-302
Ctrl #	07088477
FLDR #	1048055

Mr. Jerry Gregg  
Project Superintendent  
Bureau of Reclamation  
Central Snake Projects Office  
214 Broadway  
Boise, Idaho 83702

Re: Settlers Irrigation District and Nampa & Meridian  
Irrigation District Water Exchange / Project acres

Dear Jerry,

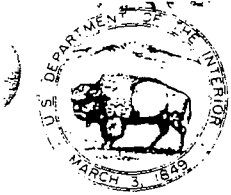
Per our telephone conversation last week and the information  
you requested, I have determined that Settlers delivers  
329.40 acres of Project water for Nampa & Meridian  
Irrigation District.

If you have any questions regarding this, please phone.

Sincerely,

*Vicki R. Keen*

Vicki R. Keen, Secretary/Treasurer  
Settlers Irrigation District



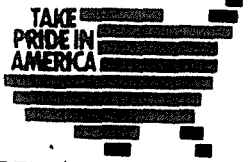
# United States Department of the Interior

BUREAU OF RECLAMATION  
CENTRAL SNAKE PROJECTS OFFICE  
214 BROADWAY AVENUE  
BOISE, IDAHO 83702-7298

September 20, 1991

IN REPLY  
REFER TO:

100



BUREAU OF RECLAMATION OFFICIAL FILE COPY SEP 24 1991			ACTION MADE BY
TO	INIT	DATE	
420	MWH	9/24/91	*
420			
		10/16	
FILE			

## Memorandum

To: Regional Director, Boise ID  
Attention: PN-400

From: Project Superintendent, Boise ID

Subject: Delivery of Project Water to Government Lands within the  
Settlers Irrigation District (Water Rights).

By contract of February 18, 1919, Reclamation established 420 acres of government lands within the Settlers Irrigation District. According to the contract, these lands were to receive -- "as practical the same proportionate share per acre of the water actually available from said works of the United States, both flood water and stored water, as is provided for similar project lands of the Boise Project outside of the District."

On September 19, 1921, a Ms. Anna Noble petitioned Reclamation to add an additional 98.13 acres to the government lands within the Settlers Irrigation District. This petition was accepted by Reclamation with the provision that these lands be given a full water right from the Boise Project under the provisions of the 1919 contract.

Originally the 420 acres were to receive water from a lateral off of the Boise Project system and the Boise Project Board of Control (contract dated June 12, 1931) was to deliver the water. Apparently, the lateral was never constructed and the water has been diverted at Settler's Diversion Dam and transmitted through their canal system to the lands. However, the storage rights and natural flow rights for these lands have remained with the New York Canal, requiring the Boise Board of Control (see attached letter) to make a temporary water transfer each year.

In light of the ongoing Snake River Adjudication, I believe it would be in the best interests of all parties to permanently transfer the appropriate amount of storage and natural flow water (the natural flow right would remain in the name of the United States, but the point of diversion would be changed, the storage right or permit would also remain in the name of the United States, but the allocation amounts for each district would be changed) to Settlers Irrigation District. Also, I believe we should transfer the appropriate storage and natural flow water for the 135.79 acres of Boise-Kuna lands that are located within the Settlers Irrigation District boundaries.

Relying on the concept that all government acres should receive an equal water supply, I have calculated the storage and natural flow rights as follows:

1. Total amount of Government Acres<sup>1</sup>

$$164,920 \text{ (BPOC)}^2 + 420 + 98.13 = 165,438.13 \text{ ac.}$$

2. Arrowrock Storage allocated to Board of Control -

$$= 255,871 \text{ ac-ft } 255,000$$

3. Arrowrock storage space to be reallocated from BPOC account to Settlers Irrigation District for the 420 acres, plus 135.79 acres of Boise-Kuna lands -

$$\frac{255,871 \text{ ac-ft.}}{165,438.13 \text{ ac}} = 1.5466 \text{ ac-ft/ac} \times (420 + 135.79) \text{ ac} = 860 \text{ ac-ft}$$

→ SETTLERS ID.

4. Anderson Ranch storage<sup>3</sup> to be reallocated from BPOC account to Settlers Irrigation District for the Boise-Kuna Lands -

$$135.79 \text{ acres} \times 2.0 \text{ ac-ft./ac} = 272 \text{ ac-ft}$$

5. Amount of Project Natural Flow to be moved from New York Canal Headworks to the Settlers Canal Headworks: (point of diversion change)

- a. Government Natural Flow Rights

	<u>Right</u>	<u>Amount</u>	<u>Percent</u>
2/14/83 16	63-0301	1354.58cfs	48%
7/1/87 19	63-0302	634.00cfs	23%
9/12/24 18	63-2388	300.00cfs	11%
4/1/89 1	63-0373	292.50cfs	10%
1/3/1900 17	63-0251	219.10cfs	8%
		<u>2800.18cfs</u>	<u>100%</u>

- b. Amount to be moved to Settler's Canal Headworks:

$$\frac{2800.18 \text{ cfs}}{165,438.13 \text{ ac}} = .0169 \text{ cfs/ac}$$

$$.0169 \text{ cfs/ac} \times (420 + 135.79) \text{ ac} = 9.39 \text{ cfs}$$

The water for the 98.13 acres is delivered by the Nampa and Meridian Irrigation District. Since the Nampa and Meridian Irrigation District is part of the Board of Control it is not necessary to reallocate storage space for these lands.

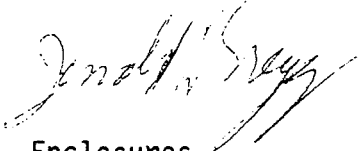
Note: <sup>1</sup>Storage and acreage figures were obtained from 1990 Watermasters Report.

<sup>2</sup> The 135.79 acres is included in the 164,920 acres.

<sup>3</sup> The Anderson Ranch Storage for the 420 acres is provided by Settlers Irrigation District's Anderson Ranch Contract.

However, should change the point of diversion in the amount of 1.66cfs (98.13 acres x .0169cfs/ac) for the 98.13 acres, from the New York Canal to the headworks of the Ridenbaugh Canal. I would propose that we amend permit number 63-0301 and change the point of diversion for 9.39cfs to Settlers Canal and 1.66cfs to the Ridenbaugh Canal.

If you agree with the above analysis, we will instruct the watermaster to make the storage reallocations and this office will make the necessary filings to amend the natural flow rights. If you have any questions, please call me.



Enclosures

cc: Settlers Irrigation District  
Boise-Kuna Irrigation District  
Boise Board of Control  
Nampa and Meridian Irrigation District  
District 63 Watermaster

*Note: Kuna & Settlers prop. found of delivery of 15 c.f.s. per acre - but the amount of water is taken from the B.O.P.*

BOISE PROJECT BOARD OF CONTROL

March 26, 1970 *2*

Mr. Daniel L. Musselman, Watermaster  
Water District 12-A  
214 Broadway  
Boise, Idaho 83706

Dear Mr. Musselman:

It was determined at our meeting with representatives of the Nampa and Meridian Irrigation District and the Settlers Irrigation District on March 23 that further adjustment of water supply available to the Settlers is necessary.

In addition to the water specifically defined in a letter of March 9 from this office, it was determined that the Settlers and not the Nampa and Meridian serve 135.79 acres in and being assessed by the Boise-Kuna Irrigation District.

During flood stage operation, you will allow 3 c.f.s. per day at the head of the Settlers Canal for the Boise-Kuna lands mentioned above, which will be deducted from the project's diversion right at the head of the New York Canal.

Beginning with the first day of use of allotted water by the project, 317 acre feet of Arrowrock storage based on a full reservoir will be credited to the Settlers for diversion to the same lands. Supplemental storage water in the amount of 272 acre feet from Anderson Ranch storage is also to be credited to the Settlers, contingent upon that full reservoir. The project will advise you annually on the percentage of fill of both Arrowrock and Anderson Ranch.

All amounts of water listed above have been adjusted to allow 25% for conveyance and delivery loss to provide a water supply to government rights lands comparable to all other lands of the Arrowrock Division of the Boise Project.

Should you have any questions, please contact this office.

(signed Royse Van Curen  
Project Manager)

*this amount every year credit settlers, debit Boise project  
the days we go on storage regardless  
if there is a allotment  
Anderson*

	587	
	+ 196	
Letter 3-9-1970	783	acre feet
Letter 3-26-1970	+ 317	"
	1100	acre feet
	+ 272	
Total	1372	ac ft.

*Letter 3-26-70 - 272 acre feet*



JOHN J. HOCKBERGER  
CHAIRMAN OF THE BOARD  
ALBERT HUNTSINGER  
VICE CHAIRMAN OF THE BOARD  
JOHN CUREN  
MANAGER  
JOHN ARRELL  
SECRETARY-TREASURER

REFERENCE—FIRST SECURITY BANK OF IDAHO—BOISE  
THE IDAHO FIRST NATIONAL BANK—BOISE  
BUREAU OF RECLAMATION—BOISE, IDAHO; WASHINGTON, D. C.

OPERATING AGENCY FOR 167,000  
ACRES FOR THE FOLLOWING  
IRRIGATION DISTRICTS:  
Nampa & Meridian District  
Boise-Kuna District  
Wildier District  
New York District  
Big Bend District

## BOISE PROJECT BOARD OF CONTROL

(FORMERLY BOISE U. S. RECLAMATION PROJECT)

214 BROADWAY

BOX 2298  
BOISE, IDAHO 83701

March 9, 1970

Class	WTN-4.10
Project	K78- BSI
Ctrl #	07086467
FLDR #	1048055

Mr. Daniel L. Musselman, Watermaster  
Water District 12-A  
214 Broadway  
Boise, Idaho 83706

Dear Mr. Musselman:

Following our discussion the other day with the group from the Settlers Irrigation District, it seems advisable that an updated confirmation of water supply for the 420 acres of Government Rights lands within and served by the district be made a matter of record. Until further notice, this letter will serve as instruction to you as to what amounts of water are to be credited by you at the head of the Settlers Canal and subtracted from the various rights of the Arrowrock Division subject.

During flood stage operation, you will allow 12 c.f.s. per day at the head of the Settlers Canal for the government lands which in turn will be deducted from the project's diversion right at the head of the New York Canal. This amount allows 25% for conveyance and delivery loss.

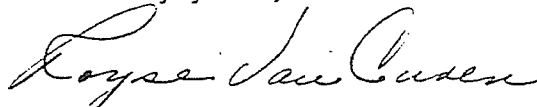
Beginning with the first day of use of allotted water by the project, 587 acre feet of Arrowrock storage plus 196 for conveyance and delivery will be credited to the Settlers for diversion to the same lands. At this time the 12 c.f.s. per day credit is dropped and 783 acre feet of storage is added or .02252% plus 25% for loss of Arrowrock accrued project's storage if the reservoir doesn't fill.

After some discussion with Mr. Walter Joy, Secretary-Treasurer of the Settlers Irrigation District, I find that the government rights lands are participating in the cost of the Anderson Ranch Reservoir contract between the District and The United States. This then means that their Anderson storage is already properly credited.

Mr. Daniel L. Musselman  
March 9, 1970  
Page 2

Should there be any question on the computations provided in this letter, please feel free to contact this office.

Sincerely yours,

A handwritten signature in cursive script that reads "Royse Van Curen".

Royse Van Curen  
Project Manager

RVC:jb

cc: Mr. Walter Joy, Secretary-Treasurer  
Settlers Irrigation District

CHESTER EGGERS, JR.  
CHAIRMAN OF THE BOARD  
M. B. SCHLOTTMAN  
VICE CHAIRMAN OF THE BOARD  
ROYSE VAN CUREN  
PROJECT MANAGER  
W. J. FARRELL  
SECRETARY-TREASURER

REFERENCE—FIRST SECURITY BANK OF IDAHO—BOISE  
THE IDAHO FIRST NATIONAL BANK—BOISE  
BUREAU OF RECLAMATION—BOISE, IDAHO; WASHINGTON, D. C.

OPERATING AGENCY FOR 167,000  
ACRES FOR THE FOLLOWING  
IRRIGATION DISTRICTS:  
NAMPA & MERIDIAN DISTRICT  
BOISE-KUNA DISTRICT  
WILDER DISTRICT  
NEW YORK DISTRICT  
BIG BEND DISTRICT

## BOISE PROJECT BOARD OF CONTROL

(FORMERLY BOISE U. S. RECLAMATION PROJECT)

214 BROADWAY

BOX 2298  
BOISE, IDAHO 83701

August 1, 1969

Class	WTR-4.10
Project	1976-005
Ctrl #	07088461
LDA #	1046055

#	DR
#	1
Project	
Ass	

Mr. W. J. Joy, Secretary  
Settlers' Irrigation District  
Box 7571  
Boise, Idaho 83707

Dear Mr. Joy:

Please accept my apology for being so tardy with my reply to your letter of June 30.

While facts may have changed in the last 48 or 50 years, let me point out that originally of the 518.13 acres of Settlers' government water only 420.00 acres were actually served by the Settlers' Canal. The 98.13 acres was under the Nampa-Meridian Irrigation District's service area.

On this basis then the Settlers' District collects for the 518.13 acres. This amount is then transmitted to the Boise Project Board of Control less a credit equal to the annual O. & M. assessment per acre for 420.00 acres. The balance then is credited to the Nampa-Meridian District for O. & M. operation for 98.13 acres.

Should this land be served differently today than in the past, I suggest that representatives of the two districts and the Board of Control get together and come to some agreement on an adjustment.

Should you have any further question, please feel free to contact this office.

Sincerely, yours,

*Royse Van Curen*  
Royse Van Curen  
Project Manager

RVC:jb



Date: 3/21/12  
 Accounting Begin Date: 11/1/11  
 Accounting End Date: \_\_\_\_\_

**Check List:**

Download USBR Data  
 Review USBR for Missing Data  
 Get ID Power Data and Enter on Website (check for shift changes)  
 Download Water Master Data  
 Download USGS Data  
 Load NAL  
 Post Report To Websites (including ALC and HST)  
 Update Fish Flows

**Notes:**

2/13/12 - last day of USBR winter flow.

Lucky Peak last to fill: AF  
 37,551.0 BOR space ✓  
 1000 New Dry Creek ✓  
 500 Ballentyne ✓  
 500 Little Pioneer\* ✓  
 1000 Eureka #1 ✓  
 200 New Union ✓  
 600 Eagle Island Users ✓

Total: 41,351 AF

Anderson LTF  
 500 Little Pioneer\*

500 AF

\* Little Pioneer only has 500 AF of space in Lucky Peak. They put 1000 AF into the rental pool for flow augmentation. 500 AF is Lucky Peak LTF (b/c it is easier to fill than Anderson). The remaining 500 AF comes from Anderson.

New DPL: 82 lines } update # of lines in BORWA.IND  
 New RTS: 892 lines }

Missing USGS Data  
 13185000 missing 12/6/11 - 12/28/11  
 13260000 missing 12/4/11 - 1/21/12, 1/24/12 - 2/19/12  
 13206400 missing 3/21/12 - 3/23/12

## **Changes Made to 2012 Boise River Accounting**

1. Added Spring Shores Diversion 13194502. Water right 63-31077, 0.075cfs, 5/15/1955.
2. Added Riverside Village 13205984. Water right 63-9751, 3.21cfs, 6/23/1981.
3. Added Gold Gate Irrigation 13211394. Water right 63-232, 4cfs, 1/23/1877. This right was removed from the Riverside diversion and a new POD was created in the accounting. Added Vale Pump 13211791. Water right 63-9698, 3 cfs, 3/27/1981. The right was on the McManus Teater. I moved it from the McManus Teater to the new Vale pump location.
4. Added McCurry Pump 13212887. Water rights 63-3585, 0.56 cfs, 2/21/1967(was on Mammon 13212896) and 63-33406, .56cfs, 6/1/1985 (Was on Andrews 13212832)
5. Changed Mammon 13212896 water rights. New water right is 63-5179. 4/1/1946 3.19cfs.
6. Added Stutheit 13213002. Water rights 63-12113, 0.12cfs, 4/25/1994 and 63-276C, 0.2cfs, 5/1/1889.
7. 63-243G is a South Boise Mutual Right. Part of the right now provides mitigation water for the Williams Park (13203781). I updated the rights on both the Bubb Canal and the Williams Park.
8. 63-283A is a South Boise Mutual Right. Part of the right provides mitigation water for the Boise Depot. I reduced the right by the 0.1cfs in accordance with the water right.
9. Simplot Pumps (13211603). Added right 63-33515. The right is now a recommendation in the SRBA.
10. MCMANUS AND TEATER CANAL (13211745). Added right 63-33516. This right is now a recommendation in the SRBA.
11. Arrowrock. 63-303. Updated the right to match the decree. Formerly the right had a rate limit of 8,000cfs and the typical Bryan Decree step down. The new decree only has a volume limit and no step down. Updated the rights file to reflect those changes. I do not think it will impact how and when the reservoir fills.

## Schulte, Mel

---

**From:** Tuthill, Dave  
**Sent:** Wednesday, February 27, 2002 5:39 PM  
**To:** Spencer, Nick  
**Cc:** Hamlin Nygard, Susan; Schulte, Mel; Shaff, Don; Shurte, Jan  
**Subject:** RE: Arrowrock Reservoir water right

Nick,

Rather than to come and talk with you about this, I will reply by email so that we can include all in the loop.

Since you have raised several good questions, I will address each in turn.

1. How do we know that this instantaneous flow rate, with a relatively junior priority date, when delivered in priority, will produce a volumetric quantity precisely sufficient to fill the reservoir to its original capacity one time per season?

The flow rate of 8,000 cfs includes contributions from the North, South and Middle Forks of the Boise River. To place this flow in perspective, consider that the 100 year flood flow of the Boise River through Boise is about 16,700 cfs. This flow includes all of the outflow from Arrowrock, plus Mores Creek. The normal high flow of the Boise River through town is about 6,500 cfs. My guess is that the 8,000 cfs was computed at the time the reservoir was designed as the average annual high flow in the unregulated river.

Whether the water right is shown as a flow rate or as a storage volume does not make a difference from my perspective, relative to delivery and protection of senior rights. Regardless of the rate of flow at which water is stored, if a 1911 water right is on, storage can occur (at 8,000 cfs the reservoir would fill in less than 3 weeks). If the water is needed to fill pre-1911 water rights, the storage is off.

Regarding the fills per season, we have used the policy throughout the state for these large reservoirs that they get one fill per their priority -- more can be stored if water is available to fill all priorities. This prevents a senior reservoir from continuing to fill and release all season long.

2. Or in fact do we know if this flow rate typically produces less than that quantity, or typically produces enough to fill the reservoir more than once? It seems to me that the total deliverable volume of this right would have to fluctuate from year to year depending on the weather.

Because this is the senior storage right on a basin that produces about 2,000,000 af each year (on average), most of which (all but Mores Creek) flows through the reservoir, Arrowrock can be expected to fill most (if not all) years. The limitation on this storage -- the true measure of the right-- is the storage volume, not the rate of flow.

3. While it is indeed odd to have a storage right without a volumetric limitation on it, we have one here that has been decreed for 70 years; can we convert the instantaneous diversion rate into a volumetric quantity without either enlarging or shrinking its historical quantity?

Back when this water right was first recorded, IDWR's predecessor agency routinely recorded storage water rights with flow rates -- they really did not have a good mechanism for showing diversions volumetrically. I see this conversion as merely updating the way that we describe the right -- the right is not really changing. Don says that we used this same technique on Mackay Reservoir in the Big Lost. (As I recall, Carter has also mentioned this).

Do these responses help?

Dave

*286,600 AF @ 8000 cfs = 18.06 days  
271,600 AF @ 8000 cfs = 17.12*

-----Original Message-----

**From:** Spencer, Nick  
**Sent:** Wednesday, February 27, 2002 9:59 AM  
**To:** Tuthill, Dave  
**Cc:** Hamlin Nygard, Susan; Schulte, Mel; Shaff, Don; Shurte, Jan  
**Subject:** RE: Arrowrock Reservoir water right

Dave, my initial concern may be based on no more than my lack of knowledge of the operation of the Boise system and typical flows on the Middle Fork and South Fork above Arrowrock. But my concern is this: how do we know that

this instantaneous flow rate, with a relatively junior priority date, when delivered in priority, will produce a volumetric quantity precisely sufficient to fill the reservoir to its original capacity one time per season? Or in fact do we know if this flow rate typically produces less than that quantity, or typically produces enough to fill the reservoir more than once? It seems to me that the total deliverable volume of this right would have to fluctuate from year to year depending on the weather. While it is indeed odd to have a storage right without a volumetric limitation on it, we have one here that has been decreed for 70 years; can we convert the instantaneous diversion rate into a volumetric quantity without either enlarging or shrinking its historical quantity? NBS

-----Original Message-----

**From:** Tuthill, Dave  
**Sent:** Wednesday, February 27, 2002 8:48 AM  
**To:** Shurte, Jan; Spencer, Nick; Shaff, Don; Hamlin Nygard, Susan; Schulte, Mel  
**Subject:** RE: Arrowrock Reservoir water right

Jan and others,

I am thinking that perhaps now is the time to *convert* the 8000 cfs water right in Arrowrock to a volume amount. The priority language in the decree amounts to nothing different from simply a 1/13/1911 priority water right. How would the recipients of this email feel about our converting the 8000 cfs to the volume of storage built at that time? We should discuss this with our contact at BOR -- Gail McGarry, Manager of Water Rights and Acquisitions, ~~378-5306~~ 378-5306. I called and spoke to Mel briefly about this -- he is planning to call Gail and investigate. We could show in explanatory provisions the genesis of the conversion, but this provides an opportunity to clear up this issue (which has always been a lingering question). Any concerns about this perspective?

378-5306

Dave

-----Original Message-----

**From:** Shurte, Jan  
**Sent:** Tuesday, February 26, 2002 5:46 PM  
**To:** Spencer, Nick; Tuthill, Dave; Shaff, Don; Hamlin Nygard, Susan  
**Cc:** Shurte, Jan  
**Subject:** Arrowrock Reservoir water right

In looking through the Boise River decree I did find a water right for Arrowrock. It is 63-303 and it is for 8000 cfs (no af amount) for use on lands in the Boise Valley. It is the only water right with a diversion point above the New York canal. I don't know if this makes a difference in all of our research, however, I had said I didn't believe there were any above the diversion dam and had to let you know I was wrong. Nick mentioned Arrowrock and I thought ah-oh. If you look at 63-F and in the Judge Sutton decree dated 1-30-1932 the Arrowrock right also states, "8000 second feet, with date of priority January 13, 1911, for storage in Arrow Rock Reservoir, provided that the Arrow Rock reservoir right of the United States under date of priority of January 13, 1911, shall not be subject to cut until the flow of Boise River is insufficient to supply the said right and all rights prior thereto, and that after the flow of the Boise River becomes insufficient to supply the said right, and all rights prior thereto, then the said Arrow Rock right shall be cut in its entirety before any right prior thereto shall be cut". This received the 63-303 number in the decree, but it is based on an old license 63-2158 that was superceded by the decree. Whether all of this makes a difference or not, I don't know. Just thought I'd clarify it. Thanks for working through all of this!

Jan



Date: 5/29/12 6/5/12

Accounting Begin Date: 4/1/2012

Accounting End Date: 5/21/12

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST) ✓

Update Fish Flows N/A

**Notes:**

Updated Arrowrock right 63-303 to match decree. see previous pages  
missing diversion dam 5/11 - 5/13 - interpolated <sup>missing</sup> data

Date: 6/6/12

Accounting Begin Date: 5/21/12

Accounting End Date: 6/4/12

**Check List:**

Download USBR Data

Review USBR for Missing Data

Get ID Power Data and Enter on Website (check for shift changes)

Download Water Master Data

Download USGS Data

Load NAL

Post Report To Websites (including ALC and HST) ODBC connection Failed

Update Fish Flows N/A

**Notes:**

Missing: Will rerun when we get the data in  
Wilderness Ranch - 5/31  
Micron - 5/31  
United Water - 6/3

# LOWER 5-MILE DRAIN

## RATING TABLE

Based on  
Demossed Condition - 2012



Gage ft	Q cfs	Gage ft	Q cfs	Gage ft	Q cfs	Gage ft	Q cfs	Gage ft	Q cfs
0.25		0.75	45	1.25	82	1.75	125	2.25	<u>176</u>
0.26		0.76	46	1.26	82	1.76	126	2.26	177
0.27		0.77	46	1.27	83	1.77	127	2.27	178
0.28		0.78	47	1.28	84	1.78	128	2.28	179
0.29		0.79	48	1.29	85	1.79	129	2.29	180
0.30		0.80	48	1.30	86	1.80	130	2.30	181
0.31		0.81	49	1.31	86	1.81	131	2.31	183
0.32		0.82	50	1.32	87	1.82	132	2.32	184
0.33		0.83	50	1.33	88	1.83	133	2.33	185
0.34		0.84	51	1.34	89	1.84	134	2.34	186
0.35		0.85	52	1.35	90	1.85	135	2.35	187
0.36		0.86	52	1.36	91	1.86	136	2.36	188
0.37		0.87	53	1.37	91	1.87	137	2.37	189
0.38		0.88	54	1.38	92	1.88	138	2.38	190
0.39		0.89	54	1.39	93	1.89	139	2.39	192
0.40		0.90	55	1.40	94	1.90	140	2.40	193
0.41		0.91	56	1.41	95	1.91	141	2.41	194
0.42		0.92	57	1.42	96	1.92	142	2.42	195
0.43		0.93	57	1.43	96	1.93	143	2.43	196
0.44		0.94	58	1.44	97	1.94	144	2.44	197
0.45		0.95	59	1.45	98	1.95	145	2.45	198
0.46		0.96	59	1.46	99	1.96	146	2.46	199
0.47		0.97	60	1.47	100	1.97	147	2.47	201
0.48	<u>28</u>	0.98	61	1.48	101	1.98	148	2.48	202
0.49	29	0.99	62	1.49	102	1.99	149	2.49	203
0.50	29	1.00	62	1.50	102	2.00	150	2.50	<u>204</u>
0.51	30	1.01	63	1.51	103	2.01	151	2.51	
0.52	30	1.02	64	1.52	104	2.02	152	2.52	
0.53	31	1.03	65	1.53	105	2.03	153	2.53	
0.54	32	1.04	65	1.54	106	2.04	154	2.54	
0.55	32	1.05	66	1.55	107	2.05	155	2.55	
0.56	33	1.06	67	1.56	108	2.06	156	2.56	
0.57	33	1.07	68	1.57	109	2.07	157	2.57	
0.58	34	1.08	68	1.58	110	2.08	158	2.58	
0.59	35	1.09	69	1.59	110	2.09	159	2.59	
0.60	35	1.10	70	1.60	111	2.10	160	2.60	
0.61	36	1.11	71	1.61	112	2.11	161	2.61	
0.62	37	1.12	71	1.62	113	2.12	162	2.62	
0.63	37	1.13	72	1.63	114	2.13	163	2.63	
0.64	38	1.14	73	1.64	115	2.14	164	2.64	
0.65	38	1.15	74	1.65	116	2.15	165	2.65	
0.66	39	1.16	74	1.66	117	2.16	166	2.66	
0.67	40	1.17	75	1.67	118	2.17	167	2.67	
0.68	40	1.18	76	1.68	119	2.18	168	2.68	
0.69	41	1.19	77	1.69	120	2.19	170	2.69	
0.70	42	1.20	78	1.70	121	2.20	171	2.70	
0.71	42	1.21	78	1.71	121	2.21	172	2.71	
0.72	43	1.22	79	1.72	122	2.22	173	2.72	
0.73	44	1.23	80	1.73	123	2.23	174	2.73	
0.74	44	1.24	81	1.74	124	2.24	175	2.74	
0.75	45	1.25	82	1.75	125	2.25	<u>176</u>	2.75	

### NOTES:

1. Bolded & underlined figures indicate actual field measurement points.  
Calculated flows vary between 0.6% and 1.4% from actual measurements.  
The average variance between measured and calculated flows is 0.0%.
2. Shaded figures are data points extrapolated outside of actual measurements.
3. This table is based on five flow measurements taken between March 29 and June 7, 2012.
4. Stage-Discharge relationship:  $Q_{cfs} = 14.164 * \text{GageReading}^2 + 44.945 * \text{GageReading} + 3.1949$  (R=0.9995), based on five readings through June 7, 2012.



Date	Staff Gage (ft)	Measured Q (cfs)	Calculated Q (cfs)	$\Delta$ Measured vs. Calculated	Comments
March 29, 2012	0.48	27.7	27.7	0.0%	QCI, AA Meter
April 5, 2012	1.40	95.2	95.2	0.0%	QCI, AA Meter
April 20, 2012	2.25	175.0	174.5	0.3%	Liz, IDWR & Rex
May 31, 2012	2.23	172.0	172.5	0.3%	Liz, IDWR & Rex
		469.9	469.9		

Stage-Discharge relationship:

$Q_{cfs} = 11.583 * \text{GageReading}^2 + 51.604 * \text{GageReading} + 0.2512$  (R=1.0),  
based on four readings through May 31, 2012.

Date: 6/15/12  
Accounting Begin Date: 6/5/12  
Accounting End Date: 6/11/12

**Check List:**

Download USBR Data

Review USBR for Missing Data

Get ID Power Data and Enter on Website (check for shift changes)

Download Water Master Data

Download USGS Data

Load NAL

Post Report To Websites (including ALC and HST)

Update Fish Flows

**Notes:**

13190500 6/4/12 - no usgs data

Date: 6/29/12  
Accounting Begin Date: 6/25/12  
Accounting End Date: 6/25/12

**Check List:**

Download USBR Data

Review USBR for Missing Data

Get ID Power Data and Enter on Website (check for shift changes)

Download Water Master Data

Download USGS Data

Load NAL

Post Report To Websites (including ALC and HST)

Update Fish Flows

**Notes:**

## Cresto, Liz

From: Rex Barrie [waterdistrict63@qwestoffice.net]  
To: Friday, June 29, 2012 6:50 AM  
Subject: Cresto, Liz  
Rental Pool

Liz,

Here is a list of those leasing water to BOR for flow aug.  
Also I will review my info and get back to you on Graham Gilbert.

### 2012 Rental Pool to BOR

Eureka #1	1000 AF ✓
Settlers	3500 AF ✓
Canyon County Ditch	2000 AF ✓
Middleton Canal	2500 AF ✓ (1250 each between Middleton Mill and Middleton Irrigation)
Eagle Island H2O Users	600 AF ✓
New Union Ditch	300 AF ✓
South Boise (Rossi Mill)	400 AF ✓
Little Pioneer	1000 AF ✓ (500 AF each from Lucky Peak and Anderson)
Total	11,300 AF

R. Barrie  
Boise River Watermaster

Assumed same split as 2011 for Eagle Island

Mace Catlin	<del>539.29</del>	310.9
Hart Davis	<del>303.81</del>	162.8
Seven Sickers	<del>147.29</del>	79.1
Warm Springs	<del>61.49</del>	33
Conway Hamming	<del>26.72</del>	14.4
<hr/>		600.1

Total Flow Aug:  
51,504  

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11,300  

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40,204

20120702

TABLE 1. 2012 BOISE RIVER STORED WATER BY RESERVOIR

(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	4172.0	268052.0
ANDERSON RANCH	448830.0	448830.0	2103.0	446727.0
LUCKY PEAK	207475.0	207475.0	2419.0	205056.0
ANDERSON LST FIL	1200.0	1200.0	0.0	1200.0
LUCKY PEAK LST FIL	56895.0	56895.0	0.0	56895.0
TOTAL	986624.0	986624.0	8694.0	977930.0

20120702

TABLE 2. 2012 BOISE RIVER RESERVOIR SPACE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	ANDERSON	LUCKY PEAK	TOTAL
13189600	TRINITY SPRINGS	0.0	800.0	0.0	0.0	0.0	800.0
13199804	OSPREY	0.0	0.0	300.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	200.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	190.0
13201990	F&G INSTREAM	0.0	0.0	50000.0	0.0	0.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	102357.0	0.0	40995.0	143352.0
13203000	NEW YORK	241321.0	351554.0	0.0	0.0	0.0	592875.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	0.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	0.0	0.0	18579.0
13204005	BUBB	0.0	531.0	0.0	0.0	0.0	531.0
13204060	ROSSI MILL	0.0	0.0	500.0	0.0	200.0	700.0
13204190	BOISE CITY	0.0	0.0	700.0	0.0	0.0	700.0
13204200	UNITED WATER	0.0	1000.0	1100.0	0.0	0.0	2100.0
13205515	SETTLERS	2668.0	5675.0	4000.0	0.0	6000.0	18343.0
13205517	FAIRVIEW ACRES	0.0	0.0	1500.0	0.0	0.0	1500.0
13205622	THURMAN MILL	0.0	0.0	800.0	0.0	0.0	800.0
13205640	FARMERS UNION	2779.0	5593.0	7000.0	0.0	3000.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	1300.0	0.0	1200.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	0.0	0.0	0.0	449.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	900.0	0.0	0.0	900.0
13206220	WARM SPRINGS	0.0	0.0	94.5	0.0	0.0	94.5
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13206270	CONWAY-HAMMING	0.0	0.0	41.1	0.0	0.0	41.1
13206292	MACE-CATLIN	0.0	0.0	890.1	0.0	0.0	890.1
13208450	HART-DAVIS	0.0	0.0	466.1	0.0	0.0	466.1
13208710	MIDDLETON	0.0	0.0	8500.0	0.0	2500.0	11000.0
13208740	SEVEN SUCKERS	0.0	0.0	226.3	0.0	0.0	226.3
13209480	PHYLLIS	20326.0	24986.0	16000.0	0.0	0.0	61312.0
13209482	EUREKA #1	0.0	0.0	2800.0	0.0	0.0	2800.0
13209630	LITTLE PIONEER	0.0	2123.0	0.0	0.0	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	3500.0	0.0	2500.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	0.0	0.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	35756.0	0.0	1200.0	0.0	36956.0
TOTAL		272224.0	448830.0	207475.1	1200.0	56895.0	986624.1

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TABLE 3. 2012 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK *-----ANDERSON RANCH-----*			*-----LUCKY PEAK-----*		
		STORAGE	CARRYOVER	NEW FILL STORAGE	CARRYOVER	NEW FILL STORAGE	
13189600	TRINITY SPRINGS	0.0	781.5	18.5	800.0	0.0	0.0
13199804	OSPNEY	0.0	0.0	0.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	0.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	0.0
13201990	F&G INSTREAM	0.0	0.0	0.0	0.0	49105.9	894.1
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	101230.0	1127.0
13203000	NEW YORK	241321.0	200401.4	151152.6	351554.0	0.0	0.0
13203527	SURPRIS VY/MICRON	0.0	2924.5	75.5	3000.0	0.0	0.0
13203760	RIDENBAUGH	3794.0	0.0	14785.0	14785.0	0.0	0.0
13204005	BUBB	0.0	440.9	90.1	531.0	0.0	0.0
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	0.0	500.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	540.4	159.6
13204200	UNITED WATER	0.0	97.6	902.4	1000.0	1085.8	14.2
13205515	SETTLERS	2668.0	303.0	5372.0	5675.0	4000.0	0.0
13205517	FAIRVIEW ACRES	0.0	0.0	0.0	0.0	1281.5	218.5
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	779.4	20.6
13205640	FARMERS UNION	2779.0	0.0	5593.0	5593.0	1712.9	5287.1
13205641	BOISE VALLEY	0.0	0.0	939.0	939.0	2366.0	-1066.0
13205643	CAPITOL VIEW	0.0	4.3	444.7	449.0	0.0	0.0
13206090	NEW DRY CREEK	0.0	1153.9	112.1	1266.0	2000.0	1000.0
13206092	NEW UNION	0.0	0.0	0.0	0.0	700.0	200.0
13206220	WARM SPRINGS	0.0	0.0	0.0	0.0	0.0	94.5
13206265	BALLENTYNE	0.0	0.0	367.0	367.0	519.1	780.9
13206270	CONWAY-HAMMING	0.0	0.0	0.0	0.0	0.0	41.1
13206292	MACE-CATLIN	0.0	0.0	0.0	0.0	0.0	890.1
13208450	HART-DAVIS	0.0	0.0	0.0	0.0	0.0	466.1
13208710	MIDDLETON	0.0	0.0	0.0	0.0	5137.4	3362.6
13208740	SEVEN SUCKERS	0.0	0.0	0.0	0.0	0.0	226.3
13209480	PHYLLIS	20326.0	4315.8	20670.2	24986.0	15793.8	206.2
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1715.6	1084.4
13209630	LITTLE PIONEER	0.0	1764.9	358.1	2123.0	493.6	-493.6
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	1643.0	1857.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0
99999050	ANDERSON DAM POWER	0.0	0.0	6.0	6.0	0.0	0.0
99999080	ANDSN UNCONTRACTED	0.0	20652.3	15103.7	35756.0	0.0	0.0
TOTAL		272224.0	232840.1	215989.9	448830.0	191095.7	16379.3



TABLE 3 (CONTINUED). 2012 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	*ANDERSON RANCH LAST FILL *			*-- LUCKY PEAK LAST FILL --*			*----- TOTAL -----*		
		CARRYOVER	NEW FILL	STORAGE	CARRYOVER	NEW FILL	STORAGE	CARRYOVER	NEW FILL	STORAGE
13189600	TRINITY SPRINGS	0.0	0.0	0.0	0.0	0.0	0.0	781.5	18.5	800.0
13199804	OSPREY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	200.0	200.0
13201050	LUCKY PEAK NURSERY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190.0	190.0
13201990	F&G INSTREAM	0.0	0.0	0.0	0.0	0.0	0.0	49105.9	894.1	50000.0
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	40995.0	40995.0	101230.0	42122.0	143352.0
13203000	NEW YORK	0.0	0.0	0.0	0.0	0.0	0.0	200401.4	392473.6	592875.0
13203527	SURPRIS VY/MICRON	0.0	0.0	0.0	0.0	0.0	0.0	2924.5	75.5	3000.0
13203760	RIDENBAUGH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18579.0	18579.0
13204005	BUBB	0.0	0.0	0.0	0.0	0.0	0.0	440.9	90.1	531.0
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	200.0	200.0	0.0	700.0	700.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	0.0	0.0	540.4	159.6	700.0
13204200	UNITED WATER	0.0	0.0	0.0	0.0	0.0	0.0	1183.4	916.6	2100.0
13205515	SETTLERS	0.0	0.0	0.0	0.0	6000.0	6000.0	4303.0	14040.0	18343.0
13205517	FAIRVIEW ACRES	0.0	0.0	0.0	0.0	0.0	0.0	1281.5	218.5	1500.0
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	0.0	0.0	779.4	20.6	800.0
13205640	FARMERS UNION	0.0	0.0	0.0	0.0	3000.0	3000.0	1712.9	16659.1	18372.0
13205641	BOISE VALLEY	0.0	0.0	0.0	0.0	1200.0	1200.0	2366.0	1073.0	3439.0
13205643	CAPITOL VIEW	0.0	0.0	0.0	0.0	0.0	0.0	4.3	444.7	449.0
13206090	NEW DRY CREEK	0.0	0.0	0.0	0.0	0.0	0.0	3153.9	1112.1	4266.0
13206092	NEW UNION	0.0	0.0	0.0	0.0	0.0	0.0	700.0	200.0	900.0
13206220	WARM SPRINGS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.5	94.5
13206265	BALLENTYNE	0.0	0.0	0.0	0.0	0.0	0.0	519.1	1147.9	1667.0
13206270	CONWAY-HAMMING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.1	41.1
13206292	MACE-CATLIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	890.1	890.1
13208450	HART-DAVIS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	466.1	466.1
13208710	MIDDLETON	0.0	0.0	0.0	0.0	2500.0	2500.0	5137.4	5862.6	11000.0
13208740	SEVEN SUCKERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	226.3	226.3
13209480	PHYLLIS	0.0	0.0	0.0	0.0	0.0	0.0	20109.6	41202.4	61312.0
13209482	EUREKA #1	0.0	0.0	0.0	0.0	0.0	0.0	1715.6	1084.4	2800.0
13209630	LITTLE PIONEER	0.0	0.0	0.0	0.0	500.0	500.0	2258.5	364.5	2623.0
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	2500.0	2500.0	1643.0	4357.0	6000.0
13210992	SEBREE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1146.0	1146.0
99999050	ANDERSON DAM POWER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	1200.0	1200.0	0.0	0.0	0.0	20652.3	16303.7	36956.0
TOTAL		0.0	1200.0	1200.0	0.0	56895.0	56895.0	423935.9	562688.1	986624.0

20120702

TABLE 4. 2012 BOISE RIVER RESERVOIR NET STORAGE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	SUBTOTAL	TRANSFERS	RNT POOL	TOTAL AFTER LOSS
13189600	TRINITY SPRINGS	0.0	796.3	0.0	796.3	0.0	0.0	796.3 790.7
13199804	OSPREY	0.0	0.0	296.5	296.5	0.0	0.0	296.5 294.4
13199924	WILDERNESS RANCH	0.0	0.0	197.7	197.7	0.0	0.0	197.7 196.3
13201050	LUCKY PEAK NURSERY	187.1	0.0	0.0	187.1	0.0	0.0	187.1 185.8
13201990	F&G INSTREAM	0.0	0.0	49417.0	49417.0	0.0	0.0	49417.0 49417.0
13201991	USBR INSTREAM	0.0	0.0	142158.6	142158.6	0.0	-40204.0	101954.6 101954.6
13203000	NEW YORK	237622.6	349906.8	0.0	587529.4	0.0	0.0	587529.4 583416.7
13203527	SURPRIS VY/MICRON	0.0	2985.9	0.0	2985.9	0.0	0.0	2985.9 2965.0
13203760	RIDENBAUGH	3735.9	14715.7	0.0	18451.6	0.0	0.0	18451.6 18322.4
13204005	BUBB	0.0	528.5	0.0	528.5	0.0	0.0	528.5 524.8
13204060	ROSSI MILL	0.0	0.0	694.2	694.2	0.0	-400.0	294.2 292.1
13204190	BOISE CITY	0.0	0.0	691.8	691.8	0.0	0.0	691.8 687.0
13204200	UNITED WATER	0.0	995.3	1087.2	2082.5	0.0	<del>2500</del> -0.0	2082.5 2067.9
13205515	SETTLERS	2627.1	5648.4	9953.4	18228.9	0.0	-3500.0	14728.9 14625.8
13205517	FAIRVIEW ACRES	0.0	0.0	1482.5	1482.5	0.0	0.0	1482.5 1472.1
13205622	THURMAN MILL	0.0	0.0	790.7	790.7	0.0	0.0	790.7 785.1
13205640	FARMERS UNION	2736.4	5566.8	9918.4	18221.6	0.0	0.0	18221.6 18094.0
13205641	BOISE VALLEY	0.0	934.6	2484.8	3419.4	0.0	<del>500</del> -0.0	3419.4 3395.5
13205643	CAPITOL VIEW	0.0	446.9	0.0	446.9	0.0	0.0	446.9 443.8
13206090	NEW DRY CREEK	0.0	1260.1	2965.0	4225.1	0.0	0.0	4225.1 4195.5
13206092	NEW UNION	0.0	0.0	889.5	889.5	0.0	-300.0	589.5 585.4
13206220	WARM SPRINGS	0.0	0.0	93.4	93.4	0.0	-33.0	60.4 60.0
13206265	BALLENTYNE	0.0	365.3	1284.8	1650.1	0.0	0.0	1650.1 1638.6
13206270	CONWAY-HAMMING	0.0	0.0	40.6	40.6	0.0	-14.4	26.2 26.0
13206292	MACE-CATLIN	0.0	0.0	879.7	879.7	0.0	-310.9	568.8 564.8
13208450	HART-DAVIS	0.0	0.0	460.6	460.6	0.0	-162.8	297.8 295.8
13208710	MIDDLETON	0.0	0.0	10900.9	10900.9	0.0	-2500.0	8400.9 8342.1
13208740	SEVEN SUCKERS	0.0	0.0	223.7	223.7	0.0	-79.1	144.6 143.5
13209480	PHYLLIS	20014.5	24868.9	15813.5	60696.9	0.0	0.0	60696.9 60272.0
13209482	EUREKA #1	0.0	0.0	2767.4	2767.4	0.0	-1000.0	1767.4 1755.0
13209630	LITTLE PIONEER	0.0	2113.1	500.0	2613.1	0.0	-1000.0	1613.1 1601.8
13209990	CANYON COUNTY	0.0	0.0	5959.2	5959.2	0.0	-2000.0	3959.2 3931.5
13210992	SEBREE	1128.4	0.0	0.0	1128.4	0.0	0.0	1128.4 1120.5
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	6.0	0.0	0.0	6.0 6.0
99999080	ANDSN UNCONTRACTED	0.0	36788.5	0.0	36788.5	0.0	0.0	36788.5 36788.5
99999200	ENDANGERED SPECIES	0.0	0.0	0.0	0.0	0.0	51504.0	51504.0 51504.0
TOTAL		268052.0	447927.0	261951.0	977930.0	0.0	-0.2	977929.8 972762.1

Date: 7/3/12  
Accounting Begin Date: \_\_\_\_\_  
Accounting End Date: \_\_\_\_\_

**Check List:**

Download USBR Data ✓  
Review USBR for Missing Data ✓  
Get ID Power Data and Enter on Website (check for shift changes) ✓  
Download Water Master Data ✓  
Download USGS Data ✓  
Load NAL ✓  
Post Report To Websites (including ALC and HST) ✓  
Update Fish Flows

**Notes:**

Bomi Shift to 6/27/12.

June 27<sup>th</sup> Day of Allocation.

F + G = 16,661

USBR = 33,323

Date: 7/12/12  
Accounting Begin Date: 6/1/12  
Accounting End Date: 7/9/12

**Check List:**

Download USBR Data ✓  
Review USBR for Missing Data ✓  
Get ID Power Data and Enter on Website (check for shift changes) ✓  
Download Water Master Data ✓  
Download USGS Data ✓  
Load NAL  
Post Report To Websites (including ALC and HST)  
Update Fish Flows

**Notes:**

Bomi Shift to 6/1 reran. DOR did not change

**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**nt:** Friday, July 06, 2012 8:50 AM  
**to:** Cresto, Liz  
**Subject:** Rental Pool

Liz,

Last week Farmers Union placed 2000 AF in the pool for the Bureau.  
I could not remember if I sent you that info or not. Anyway.....

Rex R. Barrie  
Boise River Watermaster

20120718

TABLE 1. 2012 BOISE RIVER STORED WATER BY RESERVOIR

(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	4172.0	268052.0
ANDERSON RANCH	448830.0	448830.0	2103.0	446727.0
LUCKY PEAK	207475.0	207475.0	2419.0	205056.0
ANDERSON LST FIL	1200.0	1200.0	0.0	1200.0
LUCKY PEAK LST FIL	56895.0	56895.0	0.0	56895.0
TOTAL	986624.0	986624.0	8694.0	977930.0

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TABLE 2. 2012 BOISE RIVER RESERVOIR SPACE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	ANDERSON	LUCKY PEAK	TOTAL
13189600	TRINITY SPRINGS	0.0	800.0	0.0	0.0	0.0	800.0
13199804	OSPREY	0.0	0.0	300.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	200.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	190.0
13201990	F&G INSTREAM	0.0	0.0	50000.0	0.0	0.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	102357.0	0.0	40995.0	143352.0
13203000	NEW YORK	241321.0	351554.0	0.0	0.0	0.0	592875.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	0.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	0.0	0.0	18579.0
13204005	BUBB	0.0	531.0	0.0	0.0	0.0	531.0
13204060	ROSSI MILL	0.0	0.0	500.0	0.0	200.0	700.0
13204190	BOISE CITY	0.0	0.0	700.0	0.0	0.0	700.0
13204200	UNITED WATER	0.0	1000.0	1100.0	0.0	0.0	2100.0
13205515	SETTLERS	2668.0	5675.0	4000.0	0.0	6000.0	18343.0
13205517	FAIRVIEW ACRES	0.0	0.0	1500.0	0.0	0.0	1500.0
13205622	THURMAN MILL	0.0	0.0	800.0	0.0	0.0	800.0
13205640	FARMERS UNION	2779.0	5593.0	7000.0	0.0	3000.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	1300.0	0.0	1200.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	0.0	0.0	0.0	449.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	900.0	0.0	0.0	900.0
13206220	WARM SPRINGS	0.0	0.0	94.5	0.0	0.0	94.5
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13206270	CONWAY-HAMMING	0.0	0.0	41.1	0.0	0.0	41.1
13206292	MACE-CATLIN	0.0	0.0	890.1	0.0	0.0	890.1
13208450	HART-DAVIS	0.0	0.0	466.1	0.0	0.0	466.1
13208710	MIDDLETON	0.0	0.0	8500.0	0.0	2500.0	11000.0
13208740	SEVEN SUCKERS	0.0	0.0	226.3	0.0	0.0	226.3
13209480	PHYLLIS	20326.0	24986.0	16000.0	0.0	0.0	61312.0
13209482	EUREKA #1	0.0	0.0	2800.0	0.0	0.0	2800.0
13209630	LITTLE PIONEER	0.0	2123.0	0.0	0.0	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	3500.0	0.0	2500.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	0.0	0.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	35756.0	0.0	1200.0	0.0	36956.0
TOTAL		272224.0	448830.0	207475.1	1200.0	56895.0	986624.1

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TABLE 3. 2012 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK STORAGE	*-----ANDERSON RANCH-----* CARRYOVER	NEW FILL	STORAGE	*-----LUCKY PEAK-----* CARRYOVER	NEW FILL	STORAGE
13189600	TRINITY SPRINGS	0.0	781.5	18.5	800.0	0.0	0.0	0.0
13199804	OSPREY	0.0	0.0	0.0	0.0	0.0	300.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	0.0	0.0	0.0	200.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	0.0	0.0
13201990	F&G INSTREAM	0.0	0.0	0.0	0.0	49105.9	894.1	50000.0
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	101230.0	1127.0	102357.0
13203000	NEW YORK	241321.0	200401.4	151152.6	351554.0	0.0	0.0	0.0
13203527	SURPRIS VY/MICRON	0.0	2924.5	75.5	3000.0	0.0	0.0	0.0
13203760	RIDENBAUGH	3794.0	0.0	14785.0	14785.0	0.0	0.0	0.0
13204005	BUBB	0.0	440.9	90.1	531.0	0.0	0.0	0.0
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	0.0	500.0	500.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	540.4	159.6	700.0
13204200	UNITED WATER	0.0	97.6	902.4	1000.0	1085.8	14.2	1100.0
13205515	SETTLERS	2668.0	303.0	5372.0	5675.0	4000.0	0.0	4000.0
13205517	FAIRVIEW ACRES	0.0	0.0	0.0	0.0	1281.5	218.5	1500.0
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	779.4	20.6	800.0
13205640	FARMERS UNION	2779.0	0.0	5593.0	5593.0	1712.9	5287.1	7000.0
13205641	BOISE VALLEY	0.0	0.0	939.0	939.0	2366.0	-1066.0	1300.0
13205643	CAPITOL VIEW	0.0	4.3	444.7	449.0	0.0	0.0	0.0
13206090	NEW DRY CREEK	0.0	1153.9	112.1	1266.0	2000.0	1000.0	3000.0
13206092	NEW UNION	0.0	0.0	0.0	0.0	700.0	200.0	900.0
13206220	WARM SPRINGS	0.0	0.0	0.0	0.0	0.0	94.5	94.5
13206265	BALLENTYNE	0.0	0.0	367.0	367.0	519.1	780.9	1300.0
13206270	CONWAY-HAMMING	0.0	0.0	0.0	0.0	0.0	41.1	41.1
13206292	MACE-CATLIN	0.0	0.0	0.0	0.0	0.0	890.1	890.1
13208450	HART-DAVIS	0.0	0.0	0.0	0.0	0.0	466.1	466.1
13208710	MIDDLETON	0.0	0.0	0.0	0.0	5137.4	3362.6	8500.0
13208740	SEVEN SUCKERS	0.0	0.0	0.0	0.0	0.0	226.3	226.3
13209480	PHYLLIS	20326.0	4315.8	20670.2	24986.0	15793.8	206.2	16000.0
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1715.6	1084.4	2800.0
13209630	LITTLE PIONEER	0.0	1764.9	358.1	2123.0	493.6	-493.6	0.0
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	1643.0	1857.0	3500.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0	0.0
99999050	ANDERSON DAM POWER	0.0	0.0	6.0	6.0	0.0	0.0	0.0
99999080	ANDSN UNCONTRACTED	0.0	20652.3	15103.7	35756.0	0.0	0.0	0.0
TOTAL		272224.0	232840.1	215989.9	448830.0	191095.7	16379.3	207475.0

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TABLE 3 (CONTINUED). 2012 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	*ANDERSON RANCH LAST FILL * CARRYOVER NEW FILL STORAGE	*-- LUCKY PEAK LAST FILL - * CARRYOVER NEW FILL STORAGE	*----- TOTAL -----* CARRYOVER NEW FILL STORAGE
13189600	TRINITY SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	781.5 18.5 800.0
13199804	OSPREY	0.0 0.0 0.0	0.0 0.0 0.0	0.0 300.0 300.0
13199924	WILDERNESS RANCH	0.0 0.0 0.0	0.0 0.0 0.0	0.0 200.0 200.0
13201050	LUCKY PEAK NURSERY	0.0 0.0 0.0	0.0 0.0 0.0	0.0 190.0 190.0
13201990	F&G INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	49105.9 894.1 50000.0
13201991	USBR INSTREAM	0.0 0.0 0.0	0.0 40995.0 40995.0	101230.0 42122.0 143352.0
13203000	NEW YORK	0.0 0.0 0.0	0.0 0.0 0.0	200401.4 392473.6 592875.0
13203527	SURPRIS VY/MICRON	0.0 0.0 0.0	0.0 0.0 0.0	2924.5 75.5 3000.0
13203760	RIDENBAUGH	0.0 0.0 0.0	0.0 0.0 0.0	0.0 18579.0 18579.0
13204005	BUBB	0.0 0.0 0.0	0.0 0.0 0.0	440.9 90.1 531.0
13204060	ROSSI MILL	0.0 0.0 0.0	0.0 200.0 200.0	0.0 700.0 700.0
13204190	BOISE CITY	0.0 0.0 0.0	0.0 0.0 0.0	540.4 159.6 700.0
13204200	UNITED WATER	0.0 0.0 0.0	0.0 0.0 0.0	1183.4 916.6 2100.0
13205515	SETTLERS	0.0 0.0 0.0	0.0 6000.0 6000.0	4303.0 14040.0 18343.0
13205517	FAIRVIEW ACRES	0.0 0.0 0.0	0.0 0.0 0.0	1281.5 218.5 1500.0
13205622	THURMAN MILL	0.0 0.0 0.0	0.0 0.0 0.0	779.4 20.6 800.0
13205640	FARMERS UNION	0.0 0.0 0.0	0.0 3000.0 3000.0	1712.9 16659.1 18372.0
13205641	BOISE VALLEY	0.0 0.0 0.0	0.0 1200.0 1200.0	2366.0 1073.0 3439.0
13205643	CAPITOL VIEW	0.0 0.0 0.0	0.0 0.0 0.0	4.3 444.7 449.0
13206090	NEW DRY CREEK	0.0 0.0 0.0	0.0 0.0 0.0	3153.9 1112.1 4266.0
13206092	NEW UNION	0.0 0.0 0.0	0.0 0.0 0.0	700.0 200.0 900.0
13206220	WARM SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	0.0 94.5 94.5
13206265	BALLENTYNE	0.0 0.0 0.0	0.0 0.0 0.0	519.1 1147.9 1667.0
13206270	CONWAY-HAMMING	0.0 0.0 0.0	0.0 0.0 0.0	0.0 41.1 41.1
13206292	MACE-CATLIN	0.0 0.0 0.0	0.0 0.0 0.0	0.0 890.1 890.1
13208450	HART-DAVIS	0.0 0.0 0.0	0.0 0.0 0.0	0.0 466.1 466.1
13208710	MIDDLETON	0.0 0.0 0.0	0.0 2500.0 2500.0	5137.4 5862.6 11000.0
13208740	SEVEN SUCKERS	0.0 0.0 0.0	0.0 0.0 0.0	0.0 226.3 226.3
13209480	PHYLLIS	0.0 0.0 0.0	0.0 0.0 0.0	20109.6 41202.4 61312.0
13209482	EUREKA #1	0.0 0.0 0.0	0.0 0.0 0.0	1715.6 1084.4 2800.0
13209630	LITTLE PIONEER	0.0 0.0 0.0	0.0 500.0 500.0	2258.5 364.5 2623.0
13209990	CANYON COUNTY	0.0 0.0 0.0	0.0 2500.0 2500.0	1643.0 4357.0 6000.0
13210992	SEBREE	0.0 0.0 0.0	0.0 0.0 0.0	0.0 1146.0 1146.0
99999050	ANDERSON DAM POWER	0.0 0.0 0.0	0.0 0.0 0.0	0.0 6.0 6.0
99999080	ANDSN UNCONTRACTED	0.0 1200.0 1200.0	0.0 0.0 0.0	20652.3 16303.7 36956.0
TOTAL		0.0 1200.0 1200.0	0.0 56895.0 56895.0	423935.9 562688.1 986624.0



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TABLE 4. 2012 BOISE RIVER RESERVOIR NET STORAGE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	SUBTOTAL	TRANSFERS	RNT POOL	TOTAL AFTER LOSS
13189600	TRINITY SPRINGS	0.0	796.3	0.0	796.3	0.0	0.0	796.3 790.7
13199804	OSPREY	0.0	0.0	296.5	296.5	0.0	0.0	296.5 294.4
13199924	WILDERNESS RANCH	0.0	0.0	197.7	197.7	0.0	0.0	197.7 196.3
13201050	LUCKY PEAK NURSERY	187.1	0.0	0.0	187.1	0.0	0.0	187.1 185.8
13201990	F&G INSTREAM	0.0	0.0	49417.0	49417.0	0.0	0.0	49417.0 49417.0
13201991	USBR INSTREAM	0.0	0.0	142158.6	142158.6	0.0	-38204.0	103954.6 103954.6
13203000	NEW YORK	237622.6	349906.8	0.0	587529.4	0.0	0.0	587529.4 583416.7
13203527	SURPRIS VY/MICRON	0.0	2985.9	0.0	2985.9	0.0	0.0	2985.9 2965.0
13203760	RIDENBAUGH	3735.9	14715.7	0.0	18451.6	0.0	0.0	18451.6 18322.4
13204005	BUBB	0.0	528.5	0.0	528.5	0.0	0.0	528.5 524.8
13204060	ROSSI MILL	0.0	0.0	694.2	694.2	0.0	-400.0	294.2 292.1
13204190	BOISE CITY	0.0	0.0	691.8	691.8	0.0	0.0	691.8 687.0
13204200	UNITED WATER	0.0	995.3	1087.2	2082.5	0.0	2500 0.0	2082.5 2067.9
13205515	SETTLERS	2627.1	5648.4	9953.4	18228.9	0.0	-3500.0	14728.9 14625.8
13205517	FAIRVIEW ACRES	0.0	0.0	1482.5	1482.5	0.0	0.0	1482.5 1472.1
13205622	THURMAN MILL	0.0	0.0	790.7	790.7	0.0	0.0	790.7 785.1
13205640	FARMERS UNION	2736.4	5566.8	9918.4	18221.6	0.0	-2000.0	16221.6 16108.0
13205641	BOISE VALLEY	0.0	934.6	2484.8	3419.4	0.0	-1500 0.0	3419.4 3395.5
13205643	CAPITOL VIEW	0.0	446.9	0.0	446.9	0.0	0.0	446.9 443.8
13206090	NEW DRY CREEK	0.0	1260.1	2965.0	4225.1	0.0	0.0	4225.1 4195.5
13206092	NEW UNION	0.0	0.0	889.5	889.5	0.0	-300.0	589.5 585.4
13206220	WARM SPRINGS	0.0	0.0	93.4	93.4	0.0	-33.0	60.4 60.0
13206265	BALLENTYNE	0.0	365.3	1284.8	1650.1	0.0	0.0	1650.1 1638.6
13206270	CONWAY-HAMMING	0.0	0.0	40.6	40.6	0.0	-14.4	26.2 26.0
13206292	MACE-CATLIN	0.0	0.0	879.7	879.7	0.0	-310.9	568.8 564.8
13208450	HART-DAVIS	0.0	0.0	460.6	460.6	0.0	-162.8	297.8 295.8
13208710	MIDDLETON	0.0	0.0	10900.9	10900.9	0.0	-2500.0	8400.9 8342.1
13208740	SEVEN SUCKERS	0.0	0.0	223.7	223.7	0.0	-79.1	144.6 143.5
13209480	PHYLLIS	20014.5	24868.9	15813.5	60696.9	0.0	0.0	60696.9 60272.0
13209482	EUREKA #1	0.0	0.0	2767.4	2767.4	0.0	-1000.0	1767.4 1755.0
13209630	LITTLE PIONEER	0.0	2113.1	500.0	2613.1	0.0	-1000.0	1613.1 1601.8
13209990	CANYON COUNTY	0.0	0.0	5959.2	5959.2	0.0	-2100-2000-0	3959.2 3931.5
13210992	SEBREE	1128.4	0.0	0.0	1128.4	0.0	-1000 0.0	1128.4 1120.5
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	6.0	0.0	0.0	6.0 6.0
99999080	ANDSN UNCONTRACTED	0.0	36788.5	0.0	36788.5	0.0	0.0	36788.5 36788.5
99999200	ENDANGERED SPECIES	0.0	0.0	0.0	0.0	0.0	51504.0	51504.0 51504.0
TOTAL		268052.0	447927.0	261951.0	977930.0	0.0	-0.2	977929.8 972776.1

Date: 7/18/2012  
Accounting Begin Date: 7/9/12  
Accounting End Date: 7/16/12

**Check List:**

Download USBR Data ✓  
Review USBR for Missing Data ✓  
Get ID Power Data and Enter on Website (check for shift changes) ✓  
Download Water Master Data  
Download USGS Data  
Load NAL  
Post Report To Websites (including ALC and HST)  
Update Fish Flows ✓

**Notes:**

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Date: 7/18/12  
Accounting Begin Date: 6/27/12  
Accounting End Date: 7/16/12

**Check List:**

Download USBR Data  
Review USBR for Missing Data  
Get ID Power Data and Enter on Website (check for shift changes)  
Download Water Master Data  
Download USGS Data  
Load NAL ✓  
Post Report To Websites (including ALC and HST)  
Update Fish Flows

**Notes:**

Updated Farmers Union rental pool and veran accounting.

Date: 7/25/12  
Accounting Begin Date: 6/27/12  
Accounting End Date: 7/23/12

**Check List:**

Download USBR Data

Review USBR for Missing Data

Get ID Power Data and Enter on Website (check for shift changes)

Download Water Master Data

Download USGS Data

Load NAL

Post Report To Websites (including ALC and HST)

Update Fish Flows

**Notes:**

NY Canal Shift to 6/17/12

Reran from day of allocation b/c of the NYC shift.

Date: 8/1/12  
Accounting Begin Date: 7/23/12 6/27/12  
Accounting End Date: 7/30/12

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST)

Update Fish Flows ~~NK~~

**Notes:**

**Cresto, Liz**

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**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**nt:** Monday, August 06, 2012 7:39 AM  
**o:** Cresto, Liz  
**Subject:** Rental Pool

Liz,

I have some rental pool lease's that I may not have passed on to you for accounting.

United Water	1500 af from Boise Valley Irrigation Co. and 1000 from Farmers Co-op.	2500 af total.
Marianne Williams Park	160 af from Canyon County Water Co.	160 af
Two Rivers HOA (Graham Gilbert)	80 af from the pool. ***	
Riverside Village	13 af from the pool. ***	

\*\*\* These are from the general pool and I will break it down after water.

Rex R. Barrie  
Boise River Watermaster

**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**nt:** Thursday, August 09, 2012 6:46 AM  
**to:** Cresto, Liz  
**Subject:** Thomas Aiken

Liz,

Here is another late Rental Pool update.  
The Two Rivers HOA leased 80 AF for the Thomas Aiken.



Rex R. Barrie  
Boise River Watermaster



Date: 8/8/12  
Accounting Begin Date: 6/27/12  
Accounting End Date: 8/6/12

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data

Load NAL

Post Report To Websites (including ALC and HST)

Update Fish Flows

**Notes:**

Bomi shift to 7/7

Added rental pool adjustments

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Date: 8/14/12  
Accounting Begin Date: 6/27/12  
Accounting End Date: 8/13/12

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST) ✓

Update Fish Flows ~~NX~~

**Notes:**

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TABLE 1. 2012 BOISE RIVER STORED WATER BY RESERVOIR

(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	4172.0	268052.0
ANDERSON RANCH	448830.0	448830.0	2103.0	446727.0
LUCKY PEAK	207475.0	207475.0	2419.0	205056.0
ANDERSON LST FIL	1200.0	1200.0	0.0	1200.0
LUCKY PEAK LST FIL	56895.0	56895.0	0.0	56895.0
TOTAL	986624.0	986624.0	8694.0	977930.0

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TABLE 2. 2012 BOISE RIVER RESERVOIR SPACE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	ANDERSON	LUCKY PEAK	TOTAL
13189600	TRINITY SPRINGS	0.0	800.0	0.0	0.0	0.0	800.0
13199804	OSPREY	0.0	0.0	300.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	200.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	190.0
13201990	F&G INSTREAM	0.0	0.0	50000.0	0.0	0.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	102357.0	0.0	40995.0	143352.0
13203000	NEW YORK	241321.0	351554.0	0.0	0.0	0.0	592875.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	0.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	0.0	0.0	18579.0
13204005	BUBB	0.0	531.0	0.0	0.0	0.0	531.0
13204060	ROSSI MILL	0.0	0.0	500.0	0.0	200.0	700.0
13204190	BOISE CITY	0.0	0.0	700.0	0.0	0.0	700.0
13204200	UNITED WATER	0.0	1000.0	1100.0	0.0	0.0	2100.0
13205515	SETTLERS	2668.0	5675.0	4000.0	0.0	6000.0	18343.0
13205517	FAIRVIEW ACRES	0.0	0.0	1500.0	0.0	0.0	1500.0
13205622	THURMAN MILL	0.0	0.0	800.0	0.0	0.0	800.0
13205640	FARMERS UNION	2779.0	5593.0	7000.0	0.0	3000.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	1300.0	0.0	1200.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	0.0	0.0	0.0	449.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	900.0	0.0	0.0	900.0
13206220	WARM SPRINGS	0.0	0.0	94.5	0.0	0.0	94.5
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13206270	CONWAY-HAMMING	0.0	0.0	41.1	0.0	0.0	41.1
13206292	MACE-CATLIN	0.0	0.0	890.1	0.0	0.0	890.1
13208450	HART-DAVIS	0.0	0.0	466.1	0.0	0.0	466.1
13208710	MIDDLETON	0.0	0.0	8500.0	0.0	2500.0	11000.0
13208740	SEVEN SUCKERS	0.0	0.0	226.3	0.0	0.0	226.3
13209480	PHYLLIS	20326.0	24986.0	16000.0	0.0	0.0	61312.0
13209482	EUREKA #1	0.0	0.0	2800.0	0.0	0.0	2800.0
13209630	LITTLE PIONEER	0.0	2123.0	0.0	0.0	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	3500.0	0.0	2500.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	0.0	0.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	35756.0	0.0	1200.0	0.0	36956.0
TOTAL		272224.0	448830.0	207475.1	1200.0	56895.0	986624.1



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TABLE 3. 2012 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK *-----ANDERSON RANCH-----*			*-----LUCKY PEAK-----*		
		STORAGE	CARRYOVER	NEW FLL STORAGE	CARRYOVER	NEW FILL STORAGE	
13189600	TRINITY SPRINGS	0.0	781.5	18.5	800.0	0.0	0.0
13199804	OSPREY	0.0	0.0	0.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	0.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	0.0
13201990	F&G INSTREAM	0.0	0.0	0.0	0.0	49105.9	894.1
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	101230.0	1127.0
13203000	NEW YORK	241321.0	200401.4	151152.6	351554.0	0.0	0.0
13203527	SURPRIS VY/MICRON	0.0	2924.5	75.5	3000.0	0.0	0.0
13203760	RIDENBAUGH	3794.0	0.0	14785.0	14785.0	0.0	0.0
13204005	BUBB	0.0	440.9	90.1	531.0	0.0	0.0
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	0.0	500.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	540.4	159.6
13204200	UNITED WATER	0.0	97.6	902.4	1000.0	1085.8	14.2
13205515	SETTLERS	2668.0	303.0	5372.0	5675.0	4000.0	0.0
13205517	FAIRVIEW ACRES	0.0	0.0	0.0	0.0	1281.5	218.5
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	779.4	20.6
13205640	FARMERS UNION	2779.0	0.0	5593.0	5593.0	1712.9	5287.1
13205641	BOISE VALLEY	0.0	0.0	939.0	939.0	2366.0	-1066.0
13205643	CAPITOL VIEW	0.0	4.3	444.7	449.0	0.0	0.0
13206090	NEW DRY CREEK	0.0	1153.9	112.1	1266.0	2000.0	1000.0
13206092	NEW UNION	0.0	0.0	0.0	0.0	700.0	200.0
13206220	WARM SPRINGS	0.0	0.0	0.0	0.0	0.0	94.5
13206265	BALLENTYNE	0.0	0.0	367.0	367.0	519.1	780.9
13206270	CONWAY-HAMMING	0.0	0.0	0.0	0.0	0.0	41.1
13206292	MACE-CATLIN	0.0	0.0	0.0	0.0	0.0	890.1
13208450	HART-DAVIS	0.0	0.0	0.0	0.0	0.0	466.1
13208710	MIDDLETON	0.0	0.0	0.0	0.0	5137.4	3362.6
13208740	SEVEN SUCKERS	0.0	0.0	0.0	0.0	0.0	226.3
13209480	PHYLLIS	20326.0	4315.8	20670.2	24986.0	15793.8	206.2
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1715.6	1084.4
13209630	LITTLE PIONEER	0.0	1764.9	358.1	2123.0	493.6	-493.6
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	1643.0	1857.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0
99999050	ANDERSON DAM POWER	0.0	0.0	6.0	6.0	0.0	0.0
99999080	ANDSN UNCONTRACTED	0.0	20652.3	15103.7	35756.0	0.0	0.0

TOTAL	272224.0	232840.1	215989.9	448830.0	191095.7	16379.3	207475.0
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20120809

TABLE 3 (CONTINUED). 2012 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	*ANDERSON RANCH LAST FILL * CARRYOVER NEW FILL STORAGE	*-- LUCKY PEAK LAST FILL --* CARRYOVER NEW FILL STORAGE	*----- TOTAL -----*
13189600	TRINITY SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	781.5 18.5 800.0
13199804	OSPREY	0.0 0.0 0.0	0.0 0.0 0.0	0.0 300.0 300.0
13199924	WILDERNESS RANCH	0.0 0.0 0.0	0.0 0.0 0.0	0.0 200.0 200.0
13201050	LUCKY PEAK NURSERY	0.0 0.0 0.0	0.0 0.0 0.0	0.0 190.0 190.0
13201990	F&G INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	49105.9 894.1 50000.0
13201991	USBR INSTREAM	0.0 0.0 0.0	0.0 40995.0 40995.0	101230.0 42122.0 143352.0
13203000	NEW YORK	0.0 0.0 0.0	0.0 0.0 0.0	200401.4 392473.6 592875.0
13203527	SURPRIS VY/MICRON	0.0 0.0 0.0	0.0 0.0 0.0	2924.5 75.5 3000.0
13203760	RIDENBAUGH	0.0 0.0 0.0	0.0 0.0 0.0	0.0 18579.0 18579.0
13204005	BUBB	0.0 0.0 0.0	0.0 0.0 0.0	440.9 90.1 531.0
13204060	ROSSI MILL	0.0 0.0 0.0	0.0 200.0 200.0	0.0 700.0 700.0
13204190	BOISE CITY	0.0 0.0 0.0	0.0 0.0 0.0	540.4 159.6 700.0
13204200	UNITED WATER	0.0 0.0 0.0	0.0 0.0 0.0	1183.4 916.6 2100.0
13205515	SETTLERS	0.0 0.0 0.0	0.0 6000.0 6000.0	4303.0 14040.0 18343.0
13205517	FAIRVIEW ACRES	0.0 0.0 0.0	0.0 0.0 0.0	1281.5 218.5 1500.0
13205622	THURMAN MILL	0.0 0.0 0.0	0.0 0.0 0.0	779.4 20.6 800.0
13205640	FARMERS UNION	0.0 0.0 0.0	0.0 3000.0 3000.0	1712.9 16659.1 18372.0
13205641	BOISE VALLEY	0.0 0.0 0.0	0.0 1200.0 1200.0	2366.0 1073.0 3439.0
13205643	CAPITOL VIEW	0.0 0.0 0.0	0.0 0.0 0.0	4.3 444.7 449.0
13206090	NEW DRY CREEK	0.0 0.0 0.0	0.0 0.0 0.0	3153.9 1112.1 4266.0
13206092	NEW UNION	0.0 0.0 0.0	0.0 0.0 0.0	700.0 200.0 900.0
13206220	WARM SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	0.0 94.5 94.5
13206265	BALLENTYNE	0.0 0.0 0.0	0.0 0.0 0.0	519.1 1147.9 1667.0
13206270	CONWAY-HAMMING	0.0 0.0 0.0	0.0 0.0 0.0	0.0 41.1 41.1
13206292	MACE-CATLIN	0.0 0.0 0.0	0.0 0.0 0.0	0.0 890.1 890.1
13208450	HART-DAVIS	0.0 0.0 0.0	0.0 0.0 0.0	0.0 466.1 466.1
13208710	MIDDLETON	0.0 0.0 0.0	0.0 2500.0 2500.0	5137.4 5862.6 11000.0
13208740	SEVEN SUCKERS	0.0 0.0 0.0	0.0 0.0 0.0	0.0 226.3 226.3
13209480	PHYLLIS	0.0 0.0 0.0	0.0 0.0 0.0	20109.6 41202.4 61312.0
13209482	EUREKA #1	0.0 0.0 0.0	0.0 0.0 0.0	1715.6 1084.4 2800.0
13209630	LITTLE PIONEER	0.0 0.0 0.0	0.0 500.0 500.0	2258.5 364.5 2623.0
13209990	CANYON COUNTY	0.0 0.0 0.0	0.0 2500.0 2500.0	1643.0 4357.0 6000.0
13210992	SEBREE	0.0 0.0 0.0	0.0 0.0 0.0	0.0 1146.0 1146.0
99999050	ANDERSON DAM POWER	0.0 0.0 0.0	0.0 0.0 0.0	0.0 6.0 6.0
99999080	ANDSN UNCONTRACTED	0.0 1200.0 1200.0	0.0 0.0 0.0	20652.3 16303.7 36956.0
TOTAL		0.0 1200.0 1200.0	0.0 56895.0 56895.0	423935.9 562688.1 986624.0

20120809

TABLE 4. 2012 BOISE RIVER RESERVOIR NET STORAGE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	SUBTOTAL	TRANSFERS	RNT POOL	TOTAL AFTER LOSS
13189600	TRINITY SPRINGS	0.0	796.3	0.0	796.3	0.0	0.0	796.3
13199804	OSPREY	0.0	0.0	296.5	296.5	0.0	0.0	296.5
13199924	WILDERNESS RANCH	0.0	0.0	197.7	197.7	0.0	0.0	197.7
13201050	LUCKY PEAK NURSERY	187.1	0.0	0.0	187.1	0.0	0.0	187.1
13201990	F&G INSTREAM	0.0	0.0	49417.0	49417.0	0.0	0.0	49417.0
13201991	USBR INSTREAM	0.0	0.0	142158.6	142158.6	0.0	-38204.0	103954.6
13203000	NEW YORK	237622.6	349906.8	0.0	587529.4	0.0	0.0	587529.4
13203527	SURPRIS VY/MICRON	0.0	2985.9	0.0	2985.9	0.0	0.0	2985.9
13203760	RIDENBAUGH	3735.9	14715.7	0.0	18451.6	0.0	0.0	18451.6
13203781	WILLIAMS PARK	0.0	0.0	0.0	0.0	0.0	160.0	160.0
13204005	BUBB	0.0	528.5	0.0	528.5	0.0	0.0	528.5
13204060	ROSSI MILL	0.0	0.0	694.2	694.2	0.0	-400.0	294.2
13204190	BOISE CITY	0.0	0.0	691.8	691.8	0.0	0.0	691.8
13204200	UNITED WATER	0.0	995.3	1087.2	2082.5	0.0	2500.0	4582.5
13205515	SETTLERS	2627.1	5648.4	9953.4	18228.9	0.0	-3500.0	14728.9
13205517	FAIRVIEW ACRES	0.0	0.0	1482.5	1482.5	0.0	0.0	1482.5
13205622	THURMAN MILL	0.0	0.0	790.7	790.7	0.0	0.0	790.7
13205640	FARMERS UNION	2736.4	5566.8	9918.4	18221.6	0.0	-2000.0	16221.6
13205641	BOISE VALLEY	0.0	934.6	2484.8	3419.4	0.0	-1500.0	1919.4
13205643	CAPITOL VIEW	0.0	446.9	0.0	446.9	0.0	0.0	446.9
13205984	RIVERSIDE VILL	0.0	0.0	0.0	0.0	0.0	13.0	13.0
13206090	NEW DRY CREEK	0.0	1260.1	2965.0	4225.1	0.0	0.0	4225.1
13206092	NEW UNION	0.0	0.0	889.5	889.5	0.0	-300.0	589.5
13206220	WARM SPRINGS	0.0	0.0	93.4	93.4	0.0	-33.0	60.4
13206265	BALLENTYNE	0.0	365.3	1284.8	1650.1	0.0	0.0	1650.1
13206270	CONWAY-HAMMING	0.0	0.0	40.6	40.6	0.0	-14.4	26.2
13206290	THOMAS AIKEN	0.0	0.0	0.0	0.0	0.0	80.0	80.0
13206292	MACE-CATLIN	0.0	0.0	879.7	879.7	0.0	-310.9	568.8
13208450	HART-DAVIS	0.0	0.0	460.6	460.6	0.0	-162.8	297.8
13208710	MIDDLETON	0.0	0.0	10900.9	10900.9	0.0	-2500.0	8400.9
13208740	SEVEN SUCKERS	0.0	0.0	223.7	223.7	0.0	-79.1	144.6
13209480	PHYLLIS	20014.5	24868.9	15813.5	60696.9	0.0	0.0	60696.9
13209482	EUREKA #1	0.0	0.0	2767.4	2767.4	0.0	-1000.0	1767.4
13209630	LITTLE PIONEER	0.0	2113.1	500.0	2613.1	0.0	-1000.0	1613.1
13209990	CANYON COUNTY	0.0	0.0	5959.2	5959.2	0.0	-2160.0	3799.2
13210992	SEBREE	1128.4	0.0	0.0	1128.4	0.0	1000.0	2128.4
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	6.0	0.0	0.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	36788.5	0.0	36788.5	0.0	0.0	36788.5
99999200	ENDANGERED SPECIES	0.0	0.0	0.0	0.0	0.0	51504.0	51504.0
TOTAL		268052.0	447927.0	261951.0	977930.0	0.0	2092.8	980022.8
								974854.5

**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**At:** Thursday, August 16, 2012 7:10 AM  
**To:** Cresto, Liz  
**Subject:** FW: May 31 2011 Ltr to Rex Barrie (2).pdf - Adobe Acrobat Standard  
**Attachments:** May 31 2011 Ltr to Rex Barrie (2).pdf

Liz,

Here is some info to adjust the accounting.  
Let me know if this is a problem.

Thanks,

Rex R. Barrie  
Boise River Watermaster

---

**From:** Dan Torfin [<mailto:dtorfin@baker-properties.net>]  
**Sent:** Wednesday, August 15, 2012 5:03 PM  
**To:** 'Rex Barrie'  
**Cc:** 'Gary Shelley'; 'William Rode'; 'Dennis Baker'; [melcisland@gmail.com](mailto:melcisland@gmail.com)  
**Subject:** May 31 2011 Ltr to Rex Barrie (2).pdf - Adobe Acrobat Standard

Hi Rex,

We've attached the EIWUA Allocation amounts for the 2012 Irrigation Season; these will be the same as for 2011 with the exception of moving approximately 100 AF from the Mace-Catlin Irrigation Ditch to the Conway- Hamming Ditch for the use of the Mace Family and their tenant farmer. We also made an adjustment for the Mace Family last year with the idea that we would have a final designation for their property before this season; however, we will need some additional time to review their records with regard to the EIWUA Storage water. It appears that they hold 200 shares and they would like to move the majority of the shares from the Mace-Catlin to the Conway-Hamming and Mace-Mace Ditches. I would like to have this clarified before the end of this season.

Jerry and Mary will likely be meeting with you separately to provide records for the natural flow rights/transfers from the Warm Springs to the Mace-Mace ditch.

I am only focused on the EIWUA Storage Water and reconciling the methods of how the storage water is allocated. In the interim period please make this adjustment.

Thank you,

Dan Torfin  
President, Eagle Island Water Users Association



Laura E. Burri  
Adam S. Christenson  
Jeffrey R. Christenson  
David P. Claiborne  
S. Bryce Farris  
Jon C. Gould  
David Hammerquist  
Charles L. Honsinger \*\*  
James P. Kaufman  
Jennifer Reid Mahoney  
James G. Reid \*  
Daniel V. Steenson

May 31, 2011

Via Electronic and Regular Mail

Rex Barrie  
Water District 63 - Watermaster  
P.O. Box 767  
Star, ID 83669  
waterdistrict63@qwestoffice.net

Re: Eagle Island Water Users Association's ("Association") Storage Water.

Dear Rex:

This letter is to follow-up our prior discussions regarding the "division" and use of the Association's Lucky Peak Storage Water, amounting to 1,718 acre feet, for the 2011 irrigation season. As you know, the Association has placed 600 acre feet in the Rental Pool which leaves 1,118 remaining to be allocated to the ditch companies. The Association has determined to allocate the storage water to the following ditch companies and in the following amounts:

-Mace Catlin Ditch Company -	579.24 Acre Feet ✓
-Hart Davis Ditch Company-	303.31 Acre Feet ✓
-Seven Suckers Ditch Company-	147.24 Acre Feet ✓
-Warm Springs Ditch Company-	61.49 Acre Feet ✓
-Conway Hamming Ditch-	<u>26.72 Acre Feet</u> ✓
	1,118 Acre Feet

Again, these amounts are for the 2011 Irrigation Season. I am providing a copy of this letter to the representatives of these ditch companies and requesting/suggesting that they work with you to coordinate the use and delivery of the storage water to their respective diversions. I believe the best phone number to reach you at is 908-5480 and I am providing it in this letter for the benefit of the respective ditch companies in order to help with any communication or questions by the ditch companies.

I would also request that you coordinate with the ditch companies to make sure they fully understand the delivery and use of this storage water including any requirements for ordering and using the storage water.

Date: 8/22/12  
Accounting Begin Date: 8/14/12  
Accounting End Date: 8/20/12

**Check List:**

Download USBR Data

Review USBR for Missing Data

Get ID Power Data and Enter on Website (check for shift changes)

Download Water Master Data

Download USGS Data

Load NAL

Post Report To Websites (including ALG and HST)

Update Fish Flows

NA

**Notes:**

---

Date: 8/29/12  
Accounting Begin Date: 6/27/12  
Accounting End Date: 8/27/12

**Check List:**

Download USBR Data

Review USBR for Missing Data

Get ID Power Data and Enter on Website (check for shift changes)

Download Water Master Data

Download USGS Data

Load NAL

Post Report To Websites (including ALG and HST)

Update Fish Flows

NA

**Notes:**

Transferred 10,000 AF from NY Canal to Ridenbaugh  
NY Canal Shift to 8/10<sup>5</sup>

Date: 9/5/12  
Accounting Begin Date: 8/7/12  
Accounting End Date: 9/3/12

**Check List:**

Download USBR Data	✓
Review USBR for Missing Data	✓
Get ID Power Data and Enter on Website (check for shift changes)	✓ BOM1
Download Water Master Data	✓
Download USGS Data	✓
Load NAL	✓
Post Report To Websites (including ALC and HST)	✓
Update Fish Flows	NA

**Notes:**

BOM1 shift to 8/7/12

Date: 9/13/12  
Accounting Begin Date: 9/1/12  
Accounting End Date: 9/10/12

**Check List:**

Download USBR Data	✓
Review USBR for Missing Data	✓
Get ID Power Data and Enter on Website (check for shift changes)	✓
Download Water Master Data	✓
Download USGS Data	✓
Load NAL	✓
Post Report To Websites (including ALC and HST)	✓
Update Fish Flows	NA

**Notes:**

13206000 - missing 9/5/12 from USGS - used BOR data  
Boise @ Glenwood Bridge

Mason Creek Lease  
IPCO Rented



**Cresto, Liz**

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**From:** Van Bussum, Monica  
**ent:** Wednesday, September 12, 2012 3:57 PM  
**o:** Cresto, Liz  
**Subject:** Mason Creek

Hi Liz,

I checked the Mason Creek Water Supply Bank lease against the right. The right is for 36.2 cfs and they placed 13.92 cfs in the Bank from June 18 to December 31 of this year. Therefore, they are not using 13.92 cfs but we will assume they are using the remainder, or 22.28 cfs. Idaho Power rented a total of 8.4 cfs of the leased amount from September 1 to October 31 of this year. That 8.4 cfs would of course be curtailed at this point.

Let me know if you need more information.

Monica

Accounting Caldwell Highline - 13210005  
63-179C 36.2 3/15 - 6/17  
63-179C 22.28 6/18 - 11/15

1PCO - 13210049 - Middleton Flow (operational flow)  
63-179C 8.4 cfs 9/1 - 10/31

DPL = 85 lines  
RTS = 901 lines

**Cresto, Liz**

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**From:** Van Bussum, Monica  
**Sent:** Thursday, September 06, 2012 10:55 AM  
**To:** Cresto, Liz; Van Dyke, Nick  
**Subject:** RE: Mason Creek Ditch Co. Water Rental Application

Yes, I would assume the right will be subject to the 60% cut.

<onica

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**From:** Cresto, Liz  
**Sent:** Thursday, September 06, 2012 10:17 AM  
**To:** Van Dyke, Nick; Van Bussum, Monica  
**Subject:** RE: Mason Creek Ditch Co. Water Rental Application

Nick,

We can put this right in the accounting model and have it work on paper but being able to say an additional 8.4 cfs made it out of the Boise River is difficult if not impossible. Because the water is to stay in the river and not being diverted down a controlled headgate it is extremely difficult. The point of delivery for this lease would be the Middleton gage. Below Middleton there is enough return flows to satisfy irrigation demands. If the 8.4 cfs makes it to Middleton then we know it will make it out of the Boise drainage. Rex tries to maintain a constant 250cfs at Middleton. If this lease went through the goal would be a constant 258 cfs at Middleton. First off the gage error is approximately 10% or 25cfs so they're asking to deliver additional water within the error of the gage. Although he tries, Rex is not able to maintain a constant 250cfs at Middleton. If you look at the actual gage readings from 8/15 to 9/5 flows have varied from 207 cfs to 299 cfs. Given that the flows have varied by 92 cfs during that time period, we would never really know if an additional 8 cfs was delivered. In theory Rex can call for the additional 8 cfs to be released from Lucky Peak but we won't really know if it made it out of the Boise River.

I talked with Jon Bowling a couple weeks ago. He is well aware of the limitations of being able to actually deliver the right.

I have a question about the 8.4 cfs. I'm assuming the 8.4 cfs is the water right from the Stewart Decree. Right now we are delivering the Stewart Decree rights at 60% of their decreed rate. So the 8.4 cfs would actually be cut to 5.04 cfs. The flow will come back up from now until the end of October so at some point they could receive the full 8.4 cfs. Am I correct in assuming that the right will be subject to the 60% cut?

Liz

---

**From:** Van Dyke, Nick  
**Sent:** Thursday, September 06, 2012 9:51 AM  
**To:** Cresto, Liz  
**Cc:** Van Bussum, Monica  
**Subject:** FW: Mason Creek Ditch Co. Water Rental Application

Liz,

Attached is Idaho Power's application to rent Mason Creek's right that recently was leased into the bank. Monica and I are kind of deferring to you on whether this is doable with the Middleton Gage issue. I believe the last we spoke you said you might be able to make it work on paper, but in actuality this probably can't be administered.

Nick.

---

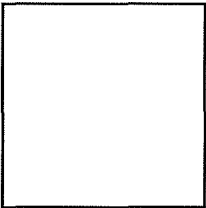
**From:** Bowling, Jon [<mailto:JBowling@idahopower.com>]  
**Sent:** Thursday, August 30, 2012 4:19 PM  
**To:** Van Dyke, Nick  
**Cc:** Patton, Brian; Cresto, Liz  
**Subject:** Mason Creek Ditch Co. Water Rental Application

Attached please find Idaho Power's application to rent Mason Creek Ditch Co. water from the IWRB Water Bank.

Please let me know if you have any questions.

Jon

Jonathon C. Bowling, P.E.  
Engineering Leader  
Water Management  
Idaho Power Company  
PO Box 70, Boise Idaho 83707  
(208) 388-2905 cell: (208) 860-9515  
[jbowling@idahopower.com](mailto:jbowling@idahopower.com)



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Water Supply Bank No. \_\_\_\_\_  
(For Department Use Only)

STATE OF IDAHO  
WATER RESOURCE BOARD

APPLICATION TO RENT WATER  
FROM THE WATER SUPPLY BANK

Name of Renter Idaho Power Phone (208) 388-2905

Mailing address P.O. Box 70 Boise, ID 83707 Email jbowling@idahopower.com

A. DESCRIPTION OF WATER SOUGHT FOR RENT

1. Maximum Flow Rate (cfs) 8.4 Maximum Volume (ac-ft) 1016 Nature of Use Power Generation Period of Use 9-1 to 10-31  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Total: 8.4 1016

2. Source of water Mason Cr. Ditch Co., Boise Basin/Lucky Peak tributary to Snake River

3. Point(s) of Diversion:

Twp	Rge	Sec	Lot	¼	¼	¼	County
17N	5W	2	3	SE	SE		Washington

4. Lands to be 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	
17N	5W	2																X	

If the use is for irrigation, show total number of acres proposed through rental. Total Acres \_\_\_\_\_

B. OWNERSHIP

1. Do you own the land at the proposed point of diversion? Yes ☒ No ☐

If no, list owner, contact information, and provide documentation of the authority to use the proposed point of diversion. \_\_\_\_\_

2. Do you own the land at the proposed place of use? Yes ☒ No ☐

If no, list owner, contact information, and provide documentation of the authority to use the proposed place of use. \_\_\_\_\_

C. MAP

Attach a map identifying the proposed point(s) of diversion, place(s) of use, and water diversion and distribution system details as described by this application in section A. Include legal description labels.

#### D. GENERAL INFORMATION

1. Please provide a description of the proposed diversion system. Brownlee Power Plant  
\_\_\_\_\_  
\_\_\_\_\_
2. Describe any other water rights diverted through the same point(s) of diversion or used for the same purpose(s) as described above.  
Snake River Water  
\_\_\_\_\_
3. Will the proposed place of use receive water from any other source? Yes ☐ No ☒  
If yes, describe. \_\_\_\_\_  
\_\_\_\_\_
4. If the proposed use is not for irrigation, please provide a detailed description of the proposed use and how you determined the amount of water required. Attach additional sheets if needed. Power Generation at Brownlee Power Plant.  
\_\_\_\_\_  
\_\_\_\_\_
5. Are there any other applications pending before the Department, such as an application for permit or transfer, for the same use(s) proposed by this rental? Yes ☐ No ☒  
If yes, describe. \_\_\_\_\_  
\_\_\_\_\_
6. Was this rental application submitted in response to a Notice of Violation or a pending Notice of Violation? Yes ☐ No ☒  
If yes, describe. \_\_\_\_\_  
\_\_\_\_\_

#### E. RENTAL TERM

1. Do you wish to rent water from the Board's bank for more than one (1) year? Yes ☐ No ☒  
If yes, please specify the number of years desired through proposed rental. \_\_\_\_\_

**I hereby assert that 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.**

If this application is approved, the applicant agrees to the following:

1. The use of water under this agreement shall be subject to the provisions of Section 42-1766, Idaho Code.
2. Renter shall comply with all applicable state and federal laws while using water under this agreement.
3. Renter shall hold the Board, the Director, and the state of Idaho harmless from all liability on account of negligent acts of the renter.
4. The Director may terminate diversion of water if the Director determines there is not a sufficient water supply for the priority of the right or portion thereof being rented.
5. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
6. Renter is not authorized to use water proposed by this application until the rental fees are paid in full and the renter receives an executed copy of the agreement signed by the Director.

Jonathon C. Bowling  
Signature of Applicant

Jonathon C Bowling, Engineering Leader  
Printed Name and Title\*

8/30/12  
Date

Roger J. Fuhrman  
Signature of Applicant

Roger J. Fuhrman, Manager, Water Mgmt  
Printed Name and Title\*

8/30/12  
Date

\*Please provide title of signatory if signing on behalf of a company or organization or with power of attorney

**Mail to:** Idaho Department of Water Resources, P.O. Box 83720, Boise, ID 83720-0098

**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Friday, September 14, 2012 7:02 AM  
**Subject:** Cresto, Liz  
FW: Water transfer

Liz,

Here is the second transfer for NMID.

Rex R. Barrie  
Boise River Watermaster

---

**From:** Greg Curtis [mailto:gcurtis@nmid.org]  
**Sent:** Thursday, September 13, 2012 5:14 PM  
**To:** pdeveau@boiseproject.org  
**Cc:** Rex Barrie  
**Subject:** Water transfer

Paul, would you please transfer 10,000 acre feet from the Boise Project Account for NMID to the head of the Ridenbaugh Canal. This will be the 2<sup>nd</sup> transfer this year. Thank you, Greg

Date: 9/21/12  
Accounting Begin Date: 9/27/12  
Accounting End Date: 9/17/12

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST) ✓

Update Fish Flows ~~NX~~

**Notes:**

---

Date: 9/27/12  
Accounting Begin Date: 9/11/12  
Accounting End Date: 9/24/12

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST) ✓

Update Fish Flows ~~NX~~

**Notes:**

13206000 - Glenwood - missing 9/5 - used BOR data

Date: 10/4/12  
Accounting Begin Date: 6/27/12  
Accounting End Date: 10/1/12

**Check List:**

Download USBR Data	✓
Review USBR for Missing Data	✓
Get ID Power Data and Enter on Website (check for shift changes)	✓
Download Water Master Data	✓
Download USGS Data	✓
Load NAL	✓
Post Report To Websites (including ALC and HST)	✓
Update Fish Flows	NR

**Notes:**

BOMI Shift to 8/30/12  
NYC Shift to 8/27/12

---

Date: 10/12/12  
Accounting Begin Date: 10/1/12  
Accounting End Date: 10/8/12

**Check List:**

Download USBR Data	✓
Review USBR for Missing Data	✓
Get ID Power Data and Enter on Website (check for shift changes)	✓
Download Water Master Data	✓
Download USGS Data	✓
Load NAL	
Post Report To Websites (including ALC and HST)	
Update Fish Flows	

**Notes:**



**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Thursday, October 04, 2012 7:54 AM  
**o:** Cresto, Liz  
**Subject:** Boise Data

Hi Liz,

Data is in.

Would you please transfer water from the Conway Hamming to the Mace Mace to cover the excess.  
Also please move Williams Park water to cover Albertsons.

Thanks,,,

Rex R. Barrie  
Boise River Watermaster

Date: 10/22/12

Accounting Begin Date: \_\_\_\_\_

Accounting End Date: \_\_\_\_\_

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST) ✓

Update Fish Flows NA

**Notes:**

13706400 10/1-10/4 missing USGS data.

Date: 11/21/12

Accounting Begin Date: ~~10/06/12~~ 10/27/12

Accounting End Date: 10/31/12

**Check List:**

Download USBR Data

Review USBR for Missing Data

Get ID Power Data and Enter on Website (check for shift changes)

Download Water Master Data

Download USGS Data

Load NAL

Post Report To Websites (including ALC and HST)

Update Fish Flows

**Notes:**

## Cresto, Liz

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**nt:** Friday, November 23, 2012 7:13 AM  
**Subject:** Cresto, Liz  
RE: Accounting

Thanks Liz,

Can you move 4 af from Conway Hamming to Mace-Mace for me?

I am going to get Farmers Union to sign paper work for the 135 af and I will go after the others as well.  
I will let you know when I get signed agreements.

Rex R. Barrie  
Boise River Watermaster

---

**From:** Cresto, Liz [mailto:Liz.Cresto@idwr.idaho.gov]  
**Sent:** Wednesday, November 21, 2012 10:37 AM  
**To:** Rex Barrie  
**Subject:** Accounting

Rex,  
Here's the accounting through 10/31. It is not the final accounting for the year. I'll work through the final accounting in December.

Liz Cresto  
Technical Hydrologist  
Idaho Department of Water Resources  
208-287-4833  
[liz.cresto@idwr.idaho.gov](mailto:liz.cresto@idwr.idaho.gov)

Need to make this<sup>↑</sup>  
adjustment  
11/27/12.

**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**nt:** Wednesday, December 05, 2012 9:32 AM  
**to:** Cresto, Liz  
**Subject:** Accounting

Liz,  
For the Farmers Union adjustment, credit 68 AF from Capital View and 67 AF from Little Pioneer.  
Transfer 4 AF from Conway Hamming to Mace Mace.

Woods and Eagle Island State Park are non- consumptive and were entered as a baseline. Can you adjust them to 0?

For the parks, Springs Shores, Sandy Point and Discovery I just entered some numbers as a baseline until they get their meters installed for 2013. Can you adjust then to 0?

For the others down stream of Caldwell, well you know how that works,

Let me know if you have any questions.

Thanks,  
Rex R. Barrie  
Boise River Watermaster

Date: \_\_\_\_\_  
Accounting Begin Date: \_\_\_\_\_  
Accounting End Date: \_\_\_\_\_

**Check List:**

Download USBR Data  
Review USBR for Missing Data  
Get ID Power Data and Enter on Website (check for shift changes)  
Download Water Master Data  
Download USGS Data  
Load NAL  
Post Report To Websites (including ALC and HST)  
Update Fish Flows

**Notes:**

Missing USGS Sites

13260000 - Mares Creek 12/4 - 1/21 and 1/24 - 2/19  
used USBR data  
13185000 - Twin Springs 12/6 - 12/28  
used USBR data

3/22/12 - last day fish flow

Reset Acct 3/23 for fish flow ending. (instream winter fish flow)

NY Canal USBR - 464 on Oct 29/2012 > IPCO corrected the # + 414 for that day.  
IPCO - 1050

Storage Report Missing

13194502 - Spring Shores ✓✓  
13199901 - Green Ranch ✓✓  
13204015 - Herrick ✓✓  
13206092 - New Union - don't need in Storage Rpt  
13211394 - Golden Gate ✓✓  
13211791 - Vale Pump ✓✓  
13212999 - Stutheit ✓✓  
13212997 - McCumy ✓✓✓

Box Space = 143,352  
37,551 LTF 2012  
105,801

## Cresto, Liz

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**To:** Tuesday, December 18, 2012 7:41 AM  
**Subject:** Cresto, Liz  
RE: Rentals

Liz,

Rental Pool leased for 2012.

Out of Basin: Flow Aug.

Eureka #1	1000 AF ✓
Settlers	3500 AF ✓
Canyon County	2000 AF ✓
Eagle Island H2o users	600 AF ✓
New Union	300 AF ✓
South Boise/Rossi Mill	400 AF ✓
Little Pioneer	1000 AF ✓
Middleton Mill	1250 AF ✓
Middleton Irrigation	1250 AF ✓
Farmers Union	1865 AF (they leased 2000 AF but I deducted the amount they went over for the accounting.)

In Basin: United Water ✓

Farmers Co-op	1000 AF ✓
Boise Valley	1500 AF ✓

✓ Canyon County 160 AF (Boise Parks and Rec.) Williams Park = 139 K Albertsons = 6 AF

Capital View	228 AF (Miss.)
Little Pioneer	228 AF (Miss.)

Does this make sense?

Riverside Village 13 AF

Rex R. Barrie  
Boise River Watermaster

overages - Farmers Union => 278.5

---

**From:** Cresto, Liz [mailto:Liz.Cresto@idwr.idaho.gov]  
**Sent:** Monday, December 17, 2012 3:09 PM  
**To:** Rex Barrie  
**Subject:** Rentals

Rex,

Will you send me a complete list of all the rentals? I have compiled a list from several different emails but would like to make sure I'm not missing any. Thanks.

Liz

Cresto  
Technical Hydrologist  
Idaho Department of Water Resources  
208-287-4833

Mace Catlin 311 ✓  
Hart Dam 163 ✓  
Seven Sockers 79 ✓  
Warm Springs 33 ✓  
Conway Hill 14 ✓  
6000 AF

51,504 → total Flow Aug  
Total = 13,165 → rentals  
38,339 → BOR space





## State of Idaho

# DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

### MEMO

## EVAPORATION CALCULATIONS FOR RESERVOIRS IN THE BOISE RIVER WRA

To: Liz Cresto & Sean Vincent  
From: David Hoekema

Date: February 25, 2013

### Overview

On February 13, 2013 Liz asked me to investigate how reservoir evaporation is being calculated for the "old" water right accounting (WRA) model for the Boise River. The following sections describe what I have found. I start by describing the traditional pan evaporation ( $E_{pan}$ ) equations and the use of reference evapotranspiration ( $ET_{ref}$ ) to estimate pan evaporation. I then describe the Allen and Tasumi (2005) method for determining reservoir evaporation and then the current WRA estimate of evaporation. Finally I conclude this memo by showing that use of historic WRA evaporation estimates, using either  $E_{pan}$  or  $ET_{ref}$ , would increase evaporation predictions by about 150% while the Allen and Tasumi (2005) method would reduce current evaporation estimates by around 60%.

### Traditional Evaporation Calculations

Evaporation from reservoirs is an important part of the WRA model, because evaporation from the reservoirs is charged to those entities with storage rights in the reservoirs. As such it is important to note that we only keep track of reservoir evaporation during the *allocation season* from April 1<sup>st</sup> to October 31<sup>st</sup>. Evaporation from reservoirs on the Boise River was originally estimated based on pan evaporation ( $E_{pan}$ ) measurements taken at Arrowrock Reservoir. The evaporation rate was based on Equation 1 and was a product of the surface area ( $SA$ ) of the reservoirs, seventy percent of the pan evaporation, and precipitation ( $PP$ ) as shown below:

$$Evap = (0.7E_{pan} - PP)SA \quad (\text{Equation 1})$$

If the precipitation rate is greater than  $0.7E_{pan}$ , the WRA sets the evaporation rate to zero. A negative evaporation rate would allow precipitation to create a *gain* in the accounting model. Such a gain would result in double accounting as the increase in reservoir volume is already measured by the reservoir gage and the flow or storage generated by the rain should be considered as a *natural flow* before it becomes storage. The surface area ( $SA$ ) of each reservoir is based on the reservoir content and is hardcoded into the model.

The use of pan evaporation is problematic as such measurements are prone to error and the data is often missing. The attached spreadsheet *ET.calculation.xlsx*, which shows pan evaporation rates measured by the USBR between 1996 and 2006, indicates that well over half the pan evaporation rates are missing or invalid.

### Reference Evapotranspiration Calculations

The problem of pan evaporation has been addressed at least twice by the department. A memo by Bob Sutter dated September 18, 1989 (found at: N:\Hydrology\WRA\Sutter\_Archives) suggests that reference evapotranspiration ( $ET_{ref}$ ) based on the Wright-Penman calculation could be



used instead of pan evaporation to estimate reservoir losses from American Falls Reservoir. Sutter found that  $ET_{ref}$  could be used to approximate PE as described in Equation 2:

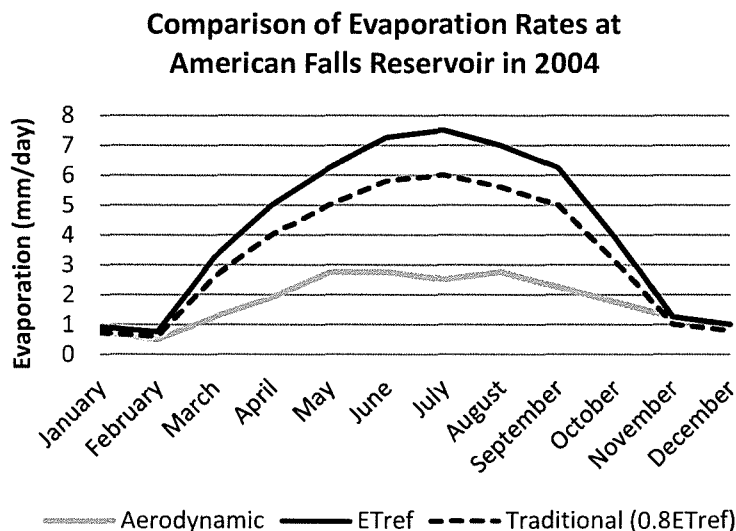
$$0.8ET_{ref} = 0.7E_{pan} \quad (\text{Equation 2})$$

A second memorandum by <sup>1</sup>Sheryl Howe dated January 8, 1997 shows that  $ET_{ref}$  computerd for the Parma Experiment Station correlated ( $r^2 = 0.72$ ) with  $E_{pan}$  measured at Arrowrock Dam and was nearly equal in volume. She suggested the following equation could be used to approximate  $E_{pan}$ :

$$E_{pan} = 1.02ET_{ref} - 0.01 \quad (\text{Equation 3})$$

### Allen and Tasumi (2005) Reservoir Evaporation Calculations

In 2004 <sup>2</sup>Allen and Tasumi (2005) performed an evaporation study on the American Falls Reservoir. They found that reservoir evaporation could be determined at American Falls reservoir based on a modification of the aerodynamic method developed by <sup>3</sup>Kondo (1975) using only the parameters of windspeed and air temperature. <sup>4</sup>Allen and Robison (2007) used the findings of the Allen and Tasumi (2005) to calculate deep, open water evaporation at multiple weather stations across the state of Idaho, including the NWS station located at Arrowrock Reservoir.



**Figure 1.** Comparison of Alfalfa based Reference Evapotranspiration, the Traditional Reservoir Evaporation Equation, and Reservoir Evaporation based on the Aerodynamic Method (Allen & Tasumi, 2005; Allen and Robison, 2007)

Allen and Tasumi's (2005) study indicates that evaporation from the American Falls Reservoir is far less than then would be implied by the traditional method of  $ET_{ref}$  or  $E_{pan}$  methods. Figure 1 compares the evaporation from a well watered crop of alfalfa ( $ET_{ref}$ ), traditional reservoir

<sup>1</sup> 1997-2001 Boise River Accounting

<sup>2</sup> R.G. Allen and M. Tasumi (2005). "Evaporation from American Falls Reservoir in Idaho via a Combination of Bowen Ratio and Eddy Covariance." Proceedings of the EWRI World Water and Environmental Resources Conference, Anchorage, AK, May 15-19.

<sup>3</sup> J. Kondo (1975). "Air-Sea Bulk Transfer Coefficients in Diabetic Conditions. *Boundary-Layer Meteorology* 9:91-112.

<sup>4</sup> R.G. Allen and Robison (2007). Evaporation and Consumptive Water Requirements for Idaho, Appendix 10: Evaporation from deep, open water. University of Idaho Research and Extension Center at Kimberley, ID.

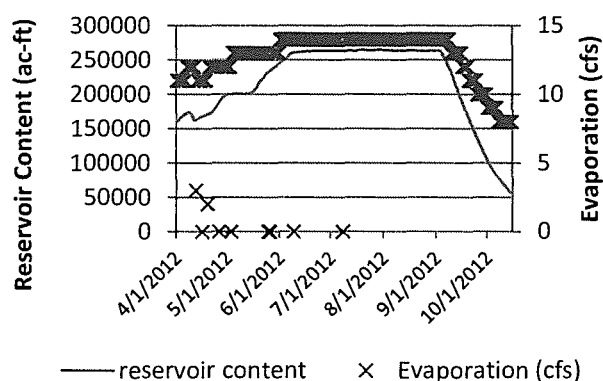
evaporation estimates ( $0.8ET_{ref}$ ), and the aerodynamic method proposed by Allen and Tasumi (2005). The values for the aerodynamic reservoir evaporation method in Figure 1 were estimated from Figure 10.4a on p. 197 of the Allen and Robison (2007) report. Based on Figure 1 reservoir evaporation would be 48% less between April and October when calculated by the modified Kondo method than when calculated by the traditional methods applied in the WRA model.

The lower rate of evaporation estimated by Allen and Tasumi (2005), as compared to the traditional pan evaporation method, is due to the significant difference in the energy partition which occurs at a pan or well watered alfalfa crop and a deep, open water body. Unlike in a shallow pan or crop where a large latent heat flux and minimal ground heat flux exist, in deep, open water incoming radiation penetrates deeply below the surface causing a large portion of the incoming radiation to be converted into water heat storage (equivalent to a ground heat flux on land) rather than into the latent heat flux. The latent heat flux represents the energy absorbed in the evaporation process. In addition, in irrigation reservoirs large irrigation releases allow a significant amount of the incoming radiation converted to water heat storage to be advected from the reservoir.

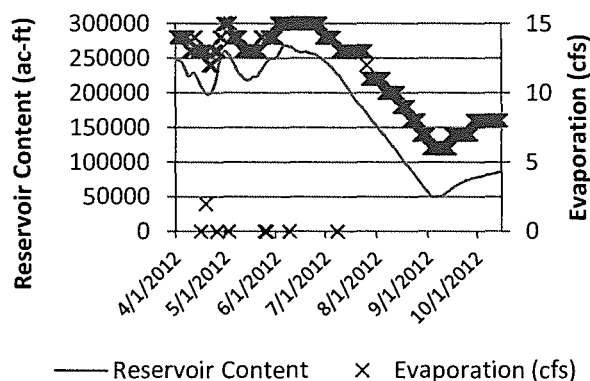
### Current WRA Evaporation Calculations for Boise River Reservoirs

The current method of calculating evaporation from reservoirs on the Boise River uses a constant rate of evaporation multiplied by the surface area of the reservoir. Figure 2 shows the WRA estimated evaporation at Anderson Ranch, Arrowrock, and Lucky Peak Reservoirs during the 2012 allocation season. As can be seen in Figure 1, the rate is constant from April through October and is decreased only by precipitation and reservoir surface area/content. I back calculated the evaporation rate as approximately 0.12 in/day for the Boise River reservoirs.

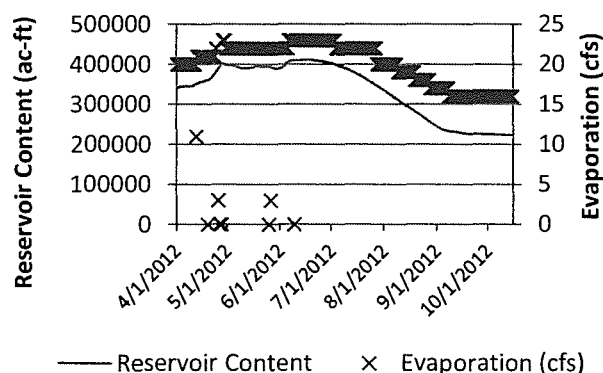
(a) Lucky Peak Reservoir Evaporation vs. Reservoir Content 2012



(b) Arrowrock Reservoir Evaporation vs. Reservoir Content 2012



(c) Anderson Ranch Reservoir Evaporation vs. Reservoir Content 2012



**Figure 2.** Accounted Evaporation from (a) Lucky Peak, (b) Arrowrock, and (c) Anderson Ranch in 2012

While the assumption of a constant evaporation rate from April through October does not follow the assumption implicit in the pan evaporation estimation where evaporation peaks with temperature in July, the constant evaporation rate appears to more closely match the study of reservoir evaporation on American Falls Reservoir conducted by Allen and Tasumi (2005) and discussed by Allen and Robison (2007). Allen and Robison show estimates of a daily evaporation rate between 2-3 mm/day (or 0.12-0.08 in/day) during the months of May-September.

### The Implications of ET Calculation Methods on WRA at Arrowrock

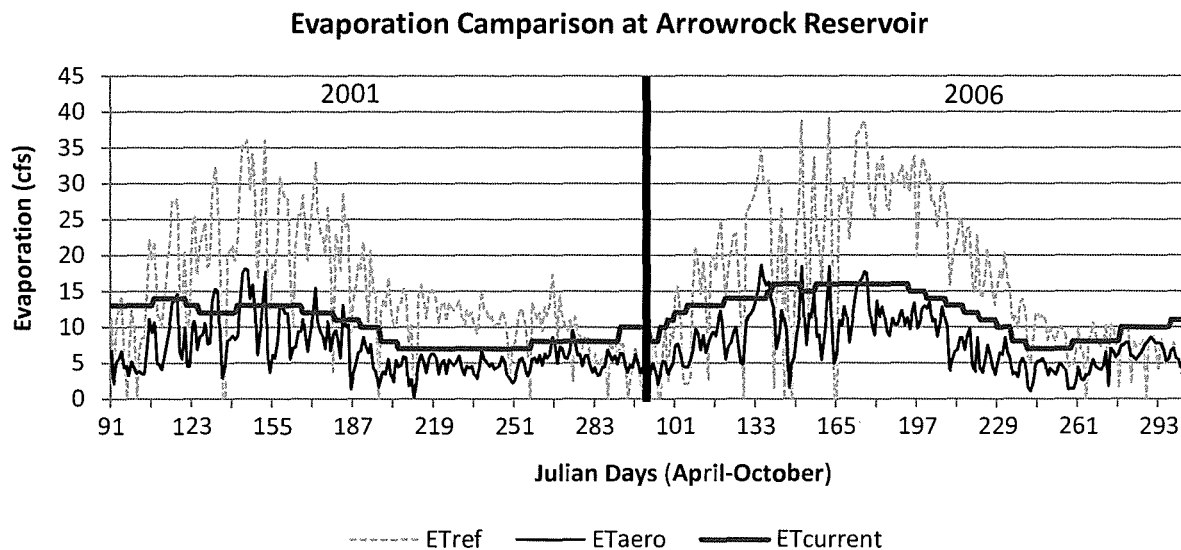
In order to understand the impacts of the various evaporation estimates on WRA calculations for the Boise River reservoirs, I provide in this section a comparison of evaporation estimates at Arrowrock reservoir for the decade from 2000-2009. I provide, in the following paragraphs, a comparison of WRA evaporation calculated using the traditional  $ET_{ref}$  method, the current method, and the Allen and Tasumi (2005) method. The traditional WRA estimate of evaporation at Arrowrock is based on the analysis of Allen and Robison (2007), who calculated  $ET_{ref}$  at Arrowrock based local temperature measurements and wind speed recorded at the Nampa Airport. Although there is a significant difference between the topography and land use at the reservoir and the Nampa Airport, located about 30 miles to west of Arrowrock, the total of the measured and estimated evaporation is very close. The Arrowrock  $ET_{ref}$  estimates provide a surprisingly good match to the pan evaporation rates taken at Arrowrock between 1997 and 2004. Table 1 shows a comparison of pan evaporation to  $ET_{ref}$  calculated by Allen and Robison (2007) and available pan evaporation measurements. The dates in column 1 of Table 1 represent periods of more or less contiguous overlapping records of  $E_{pan}$  and  $ET_{ref}$ . Where data for either  $ET_{ref}$  or  $E_{pan}$  are missing, both values were not included in the total evaporation estimate for the time period represented. Based on this analysis we assume that  $ET_{ref} = ET_{pan}$ . Therefore the traditional evaporation WRA rate at Arrowrock can be estimated using Equation 1, substituting  $ET_{ref}$  for  $ET_{pan}$ .

**Table 1** Comparison of  $E_{pan}$  measured at Arrowrock and  $ET_{ref}$  estimated at Arrowrock (Allen and Robison, 2007).

Year	Dates	$E_{pan}$	$ET_{ref}$
1997	6/5-8/27	34.9	37.4
1998	7/8-8/19	34.2	36.0
1999	5/12-10/25	40.5	39.9
2000	4/13-9/29	36.7	36.2
2003	4/23-10/5	14.4	13.0
2004	5/9-10/7	21.0	20.6
<b>Total</b>		<b>181.6</b>	<b>183.2</b>

Figure 3 compares the evaporation rate for the traditional WRA method of estimating evaporation, the current WRA method, and the Allen and Tasumi (2005) method at Arrowrock during the allocation season for the lowest water supply year (2001) and the highest water supply

year (2006) of the decade. Table 2 provides an annual estimate of evaporation during the allocation season for the decade from 2000-2009.



**Figure 3.** Comparison of Evaporation as Estimated by the Traditional WRA Method ( $ET_{ref}$ ), the Modified Kondo Aerodynamic Method of Allen and Tasumi (2005) ( $ET_{aero}$ ), and the Current Evaporation Estimation in the WRA model ( $ET_{current}$ )

**Table 2.** Comparison of Evaporation as Estimated by the Traditional WRA Method ( $ET_{ref}$ ), the Modified Kondo Aerodynamic Method of Allen and Tasumi (2005) ( $ET_{aero}$ ), and the Current Evaporation Estimation in the WRA model ( $ET_{current}$ ) During the Allocation Season for the Period from 2000 to 2009.

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
$ET_{ref}$	7440	6130	6220	5890	6160	5470	7140	6370	7260	6910
$ET_{current}$	4640	3920	4380	3750	4010	3740	4620	4310	4930	4440
$ET_{aero}$	3067	2618	2640	2480	2560	2220	3010	2700	3000	2780

The current method of accounting reservoir evaporation in the WRA model appears to predict a value about half way between the Allen and Tasumi (2005) value and the traditional WRA method. On average the traditional pan evaporation method predicts about 150% more evaporation than we are currently accounting for. Should we employ the Allen and Tasumi (2005) method we would reduce the evaporation charge to storage users by about 60%.



State of Idaho

## DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

November 16, 2012

FRISBY FARMS INC  
6205 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83607

**RE: RENTAL OF WATER FROM THE WATER SUPPLY BANK  
WATER RIGHT NO(S). 63-33517**

Dear Renter:

Please find enclosed a receipt in the amount of \$ **1,300.50** and a copy of a fully executed Water Supply Bank Rental Agreement in connection with the rental of 76.5 acre-feet of water for irrigation of 17 acres during 2013. Upon receipt of this fully executed agreement, you are authorized to divert water in compliance with the conditions of water use described in the agreement.

If you have any questions, please contact this office.

Sincerely,

Christine Field  
Water Supply Bank Support

Enclosure(s): Receipt No. C096209  
Rental Agreement (copy)

c: John Westra – IDWR Western Regional Office  
Liz Cresto - IDWR State Office

No action necessary. This right was  
not in the water rights accounting  
program because it is a groundwater  
right.

Liz Cresto 2/20/12

RECEIVED

NOV 13 2012

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**WATER SUPPLY BANK RENTAL AGREEMENT**

DEPARTMENT OF  
WATER RESOURCES

This is to certify that: FRISBY FARMS INC  
6205 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83607  
(208) 459-0875

filed an application to rent water from the Water Supply Bank ("Bank"). The Idaho Water Resource Board ("Board") being authorized to operate a Bank and to contract by and through the Director of the Idaho Department of Water Resources ("Director, Department") for rental of water from the Bank agrees to rent water as follows:

**Summary of Water Rights or Portions Rented from the Bank**

	Water Right	Rented Rate	Annual Rented Volume	Total Rented Acres
	63-33517	0.27 CFS	76.5 AF	17.0 AC
<b>COMBINED RENTAL TOTALS:</b>		<b>0.27 CFS</b>	<b>76.5 AF</b>	<b>17.0 AC</b>

**TERM OF RENTAL:** March 15, 2013 to November 15, 2013

**RENTAL FEE:** \$1,300.50

Detailed water right specific limitations and conditions attached.

The undersigned renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described in this agreement:

Dated this 8 day of November, 2012.

By: Frisky Farms Inc  
(Print Name)

Maureen Frisky  
(Signature)

for  
(Title if on behalf of company or organization)

Having determined that this agreement satisfies the provisions of Section 42-1763, Idaho Code, and, IDAPA 37.02.03030 (Water Supply Bank Rule 30), for the rental and use of water under the terms and conditions herein provided, and none other, I hereby execute this Rental Agreement on behalf of the Idaho Water Resource Board this 14<sup>th</sup> day of November, 2012.

for Monica VanBuren  
GARY SPACKMAN, Director  
Department of Water Resources

**WATER RIGHT NO. 63-33517**  
**WATER SUPPLY BANK RENTAL AGREEMENT**

The renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described below:

**Renter:** FRISBY FARMS INC  
 6205 SE 8<sup>TH</sup> AVE  
 CALDWELL ID 83607  
 (208) 459-0875

**Priority Date:** 09/29/1978

**Source:** GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	03/15	to 11/15	0.27 CFS	76.5 AF
	<b>Total:</b>		<b>0.27 CFS</b>	<b>76.5 AF</b>

**LOCATION OF RENTER'S POINT(S) OF DIVERSION:**

GROUND WATER SW¼NW¼ Sec. 20 Twp 06N Rge 03W PAYETTE County

**RENTER'S PLACE OF USE:** IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	03W	17											7.0	10.0					17

Total Acres: 17.0

**CONDITIONS OF WATER USE**

- The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
- Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in the ongoing Snake River Basin Adjudication or any other department application process.
- Use of water under this agreement does not constitute a dedication of the water to renter's place of use and upon expiration of this agreement, the points of diversion and place of use of the water shall revert to those authorized under the water right and/or again be available to rent from the bank.
- This rental does not grant any right-of-way or easement to use the diversion works or conveyance works of another party.
- This rental agreement does not authorize the construction of a well.
- Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
- Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
- Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.
- Renter acknowledges and agrees that the Director may terminate diversion of water if the Director determines there is not a sufficient water supply for the priority of the right or portion thereof being rented.
- Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
- The period of use for the irrigation described in this approval may be extended to a beginning date of 3/1 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 3/15 is subordinated to all water rights having no subordinated early or late irrigation use and a priority date earlier than 04/29/2009.



State of Idaho

## DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C.L. "BUTCH" OTTER

Governor

GARY SPACKMAN

Director

November 1, 2012

FRISBY FARMS INC  
6208 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83605

**RE: APPLICATION TO RENT WATER FROM THE WATER SUPPLY BANK  
WATER RIGHT NO(S). 63-33517**

Dear Renter:

The Department of Water Resources acknowledges receipt of your application to rent water from the Water Supply Bank. I have enclosed a Water Supply Bank Rental Agreement for your review and signature. Upon signature and return of the original agreement, together with the rental fee described below, the Department will also sign the original agreement and return an executed copy to you. Execution of the agreement and compliance with the conditions of approval authorize diversion and use of water as provided in the agreement.

A rental fee of **\$1,300.50** was calculated based on the current rental rate of \$17.00 per acre-foot times a diversion volume of 76.5 acre-feet. We require payment prior to the execution of this agreement.

Please send a check for \$1,300.50 made payable to the Idaho Department of Water Resources, together with the signed rental agreement, to my attention within 14 days so I can complete the processing. Pursuant to the Water Supply Bank Rules, 90% or \$1,170.45 of the rental fee will be paid to the lessor and 10% or \$130.05 will be retained by the Department to offset administrative costs.

If you have any questions, please contact me at (208) 287-4907.

Sincerely,

Monica Van Bussum  
Sr. Water Resource Agent

Enclosure(s)

c: IDWR Front Desk  
John Westra – IDWR Western Regional Office  
Liz Cresto – IDWR State Office



**STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
WATER SUPPLY BANK RENTAL AGREEMENT**

This is to certify that: FRISBY FARMS INC  
6205 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83607  
(208) 459-0875

filed an application to rent water from the Water Supply Bank ("Bank"). The Idaho Water Resource Board ("Board") being authorized to operate a Bank and to contract by and through the Director of the Idaho Department of Water Resources ("Director, Department") for rental of water from the Bank agrees to rent water as follows:

**Summary of Water Rights or Portions Rented from the Bank**

	<u>Water Right</u>	<u>Rented Rate</u>	<u>Annual Rented Volume</u>	<u>Total Rented Acres</u>
	63-33517	0.27 CFS	76.5 AF	17.0 AC
<b>COMBINED RENTAL TOTALS:</b>		<b>0.27 CFS</b>	<b>76.5 AF</b>	<b>17.0 AC</b>

**TERM OF RENTAL:** March 15, 2013 to November 15, 2013

**RENTAL FEE:** \$1,300.50

Detailed water right specific limitations and conditions attached.

-----  
The undersigned renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described in this agreement:

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

By: \_\_\_\_\_  
(Print Name) (Signature)

\_\_\_\_\_  
(Title if on behalf of company or organization)

-----  
Having determined that this agreement satisfies the provisions of Section 42-1763, Idaho Code, and, IDAPA 37.02.03030 (Water Supply Bank Rule 30), for the rental and use of water under the terms and conditions herein provided, and none other, I hereby execute this Rental Agreement on behalf of the Idaho Water Resource Board this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
GARY SPACKMAN, Director  
Department of Water Resources

# WATER RIGHT NO. 63-33517 WATER SUPPLY BANK RENTAL AGREEMENT

The renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described below:

**Renter:** FRISBY FARMS INC  
6205 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83607  
(208) 459-0875

**Priority Date:** 09/29/1978

**Source:** GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	03/15	to 11/15	0.27 CFS	76.5 AF
	<b>Total:</b>		<b>0.27 CFS</b>	<b>76.5 AF</b>

**LOCATION OF RENTER'S POINT(S) OF DIVERSION:**

GROUND WATER      SW $\frac{1}{4}$ NW $\frac{1}{4}$     Sec. 20    Twp 06N    Rge 03W      PAYETTE County

**RENTER'S PLACE OF USE:** IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
06N	03W	17											7.0	10.0					17

Total Acres: 17.0

## CONDITIONS OF WATER USE

1. The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
2. Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in the ongoing Snake River Basin Adjudication or any other department application process.
3. Use of water under this agreement does not constitute a dedication of the water to renter's place of use and upon expiration of this agreement, the points of diversion and place of use of the water shall revert to those authorized under the water right and/or again be available to rent from the bank.
4. This rental does not grant any right-of-way or easement to use the diversion works or conveyance works of another party.
5. This rental agreement does not authorize the construction of a well.
6. Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
7. Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
8. Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.
9. Renter acknowledges and agrees that the Director may terminate diversion of water if the Director determines there is not a sufficient water supply for the priority of the right or portion thereof being rented.
10. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
11. The period of use for the irrigation described in this approval may be extended to a beginning date of 3/1 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 3/15 is subordinated to all water rights having no subordinated early or late irrigation use and a priority date earlier than 04/29/2009.



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C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

**MEMO**

**Water Lease by United Water from Boise Valley**

To: Liz Cresto  
From: David Hoekema

Date: April 17, 2013

The Water Master of the Boise River (Rex Barrie), informed me in a phone conversation that United Water is leasing 1500 acre-feet from Boise Valley this year.



## State of Idaho

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Governor

GARY SPACKMAN  
Director

### MEMO

#### Storage Report April 15<sup>th</sup> 2013

To: Liz Cresto & Sean Vincent  
From: David Hoekema

Date: April 18, 2013

#### Introduction

Low snowpack has many irrigators in the Boise Valley worried about this year's water supply. Presenters from the USBR and NRCS at the April Water Supply Forecast meeting held at IDWR on April, 11<sup>th</sup> indicated that it was unlikely that Anderson Ranch would fill. On April 12<sup>th</sup> cool weather caused accumulation of storage water in Lucky Peak to stop, while irrigation has begun for nearly all canals within the system. At the request of Rex Barrie, Liz Cresto and I ran an early storage report of fill for the reservoirs in the Boise System. Typically a storage report is only run during the day of allocation and at the end of the season. It should be noted that we have not included the impacts of rental contracts and transfers in this report. Some diversions require a special calculation in order to understand their current condition. These diversions have been marked with a double star (e.g. \*\*). *Note these calculations are preliminary and subject to change as better data becomes available.* The calculations for these diversions are explained in the *Special Calculations* section of this memo. As of April 15<sup>th</sup> Arrowrock water storage contracts have filled (see Table 1), Lucky Peak contracts are 94% full (see Table 2), and Anderson Ranch only has 50% of contracted space full (see Table 3).

**Table 1. Arrowrock Storage Contract as of April 15<sup>th</sup>**

	Space	Fill	% Fill
LUCKY PEAK NURSERY	190	190	100%
NEW YORK	241321	241321	100%
RIDENBAUGH	3794	3794	100%
SETTLERS	2668	2668	100%
FARMERS UNION	2779	2779	100%
PHYLLIS	20326	20326	100%
SEBREE	1146	1146	100%
Total	272224	272224	100%

**Table 2. Anderson Ranch Storage Contracts as of April 15<sup>th</sup>**

	Space	Fill	% Fill
TRINITY SPRINGS	800	800	100%
NEW YORK	351554	161179.4	46%
SURPRIS VY/MICRON	3000	3000	100%
RIDENBAUGH	14785	1273.1	9%

BUBB	531	531	100%
UNITED WATER	1000	86.1	9%
SETTLERS	5675	1767	31%
FARMERS UNION	5593	481.5	9%
BOISE VALLEY	939	80.8	9%
CAPITOL VIEW	449	253.7	57%
NEW DRY CREEK	1266	752.9	59%
BALLENTYNE	367	31.6	9%
PHYLLIS	24986	17406.3	70%
LITTLE PIONEER	1623	1420.6	88%
ANDERSON DAM POWER	6	6	100%
ANDSN UNCONTRACTED	36956	36956	100%
Total	449530	226026	50%

**Table 3. Lucky Peak Storage Contract as of April 15<sup>th</sup>**

	Space	Fill	% Fill
OSPREY	300	300	100%
WILDERNESS RANCH	200	200	100%
F&G INSTREAM	50000	46869.1	94%
USBR INSTREAM	105013	100835.6	96%
ROSSI MILL	300	300	100%
BOISE CITY	700	700	100%
UNITED WATER	1100	474	43%
SETTLERS	6500	6500	100%
FAIRVIEW ACRES	1500	1500	100%
THURMAN MILL	800	800	100%
FARMERS UNION	8135	3505.1	43%
BOISE VALLEY	2500	2500	100%
NEW DRY CREEK	3000	3000	100%
NEW UNION	600	600	100%
WARM SPRINGS	61.5	57	93%
BALLENTYNE	1300	1300	100%
CONWAY-HAMMING	27.1	27.1	100%
MACE-CATLIN	579.1	579.1	100%
HART-DAVIS	303.1	169.7	56%
MIDDLETON	8500	8500	100%
SEVEN SUCKERS	147.3	147.3	100%
PHYLLIS	16000	16000	100%
EUREKA #1	1800	1800	100%
CANYON COUNTY	4000	4000	100%
Total	213366.1	200664	94%

## Special Calculations

In order to understand the water supply of United Water, Settlers, Little Pioneer, special calculations are required:

### United Water

United Water's only carryover after the 2012 season was 336.4 acre-feet in Lucky Peak reservoir. Since then, they have withdrawn 2082 acre-feet of storage. Their rental accounts in Anderson Ranch and Lucky Peak have accumulated 86.1 acre-feet and 474 acre-feet respectively for a total fill of 560.1 acre-feet. United Water has also rented of 1500 acre feet from Boise Valley. United Water's total available storage for the remainder of the season is 314.5 acre-feet. Table 4 shows the calculation in detail. It should be noted that they should continue to acquire some fill in Anderson Ranch before the runoff season ends. See the *Anderson Ranch Forecast* section.

**Table 5. Remaining Available Storage for United Water**

336.4	Carryover
560.1	Fill
1500	Rental
-2082	Storage use (Nov. 1-Apr. 15)
<hr/>	
314.5	Available Storage

### Settlers Canal

Settler's Canal according to the 2012 Storage Report had 7778.4 acre-feet of carryover storage in Lucky Peak and no carryover in Anderson Ranch. Because Settlers moved 3500 acre-feet of Lucky Peak storage space to *last to fill* we transferred 1278.4 acre-feet of storage space in Lucky Peak to their Anderson Ranch account, otherwise they would end of with a negative fill.

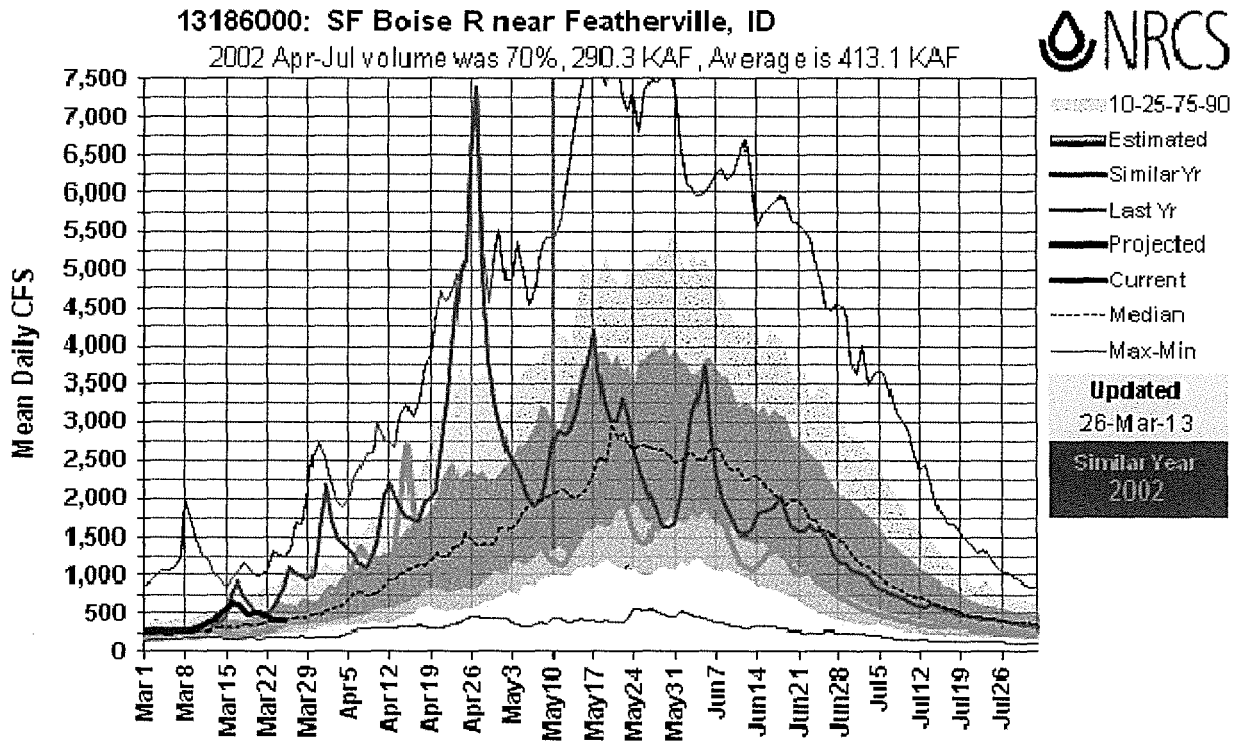
### Little Pioneer Canal

Little Pioneer faces the same issue as Settlers in that they placed 500 acre-feet of storage Lucky Peak last to fill, therefore we needed to transfer 500 acre-feet from their carryover in Lucky Peak reservoir to their Anderson Ranch account.

## Anderson Ranch Inflow Forecast

The NRCS estimates that this year's runoff will be similar to 2002 (see Table 6). In that year 290,000 acre-feet were added to Anderson Ranch Dam while the Northwest River Forecast Center predicts 343,000 acre-feet with a 50% exceedance probability are likely to enter Anderson Ranch. While, forecasters are assuming that water supply will, unless significant spring rains come, be on the lower end of the forecast which would reduce the probability of Anderson Ranch filling, there is still likely to be a significant accumulation of storage in the coming month. A lot depends on how strong irrigation demand will be this year.

Table 6. An NRCS forecast Graph Showing 2002 and 2013 Runoff.



## Conclusions

In reviewing the April 15<sup>th</sup> storage report, users should understand that there is still significant time for storage to accumulate in Anderson Ranch Reservoir. There is little doubt that Lucky Peak will completely fill, but those users with little carryover in Anderson Ranch, may end up with less than full storage space. The greatest difficulty in filling Anderson Ranch would be if irrigation demand rises quickly reducing the amount of flow available for storage.

April 15<sup>th</sup>  
Interim Storage Report

20130418

TABLE 1. 2013 BOISE RIVER STORED WATER BY RESERVOIR

(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	2244.4	269979.6
ANDERSON RANCH	449530.0	226026.0	4526.9	221499.1
LUCKY PEAK	213366.1	200664.0	2949.9	197714.1
ANDERSON LST FIL	500.0	0.0	0.0	0.0
LUCKY PEAK LST FIL	51004.0	0.0	0.0	0.0
TOTAL	986624.1	698914.0	9721.2	689192.8



20130418

TABLE 2. 2013 BOISE RIVER RESERVOIR SPACE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	ANDERSON	LUCKY PEAK	TOTAL
13189600	TRINITY SPRINGS	0.0	800.0	0.0	0.0	0.0	800.0
13199804	OSPREY	0.0	0.0	300.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	200.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	190.0
13201990	F&G INSTREAM	0.0	0.0	50000.0	0.0	0.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	105013.0	0.0	38339.0	143352.0
13203000	NEW YORK	241321.0	351554.0	0.0	0.0	0.0	592875.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	0.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	0.0	0.0	18579.0
13204005	BUBB	0.0	531.0	0.0	0.0	0.0	531.0
13204060	ROSSI MILL	0.0	0.0	300.0	0.0	400.0	700.0
13204190	BOISE CITY	0.0	0.0	700.0	0.0	0.0	700.0
13204200	UNITED WATER	0.0	1000.0	1100.0	0.0	0.0	2100.0
13205515	SETTLERS	2668.0	5675.0	6500.0	0.0	3500.0	18343.0
13205517	FAIRVIEW ACRES	0.0	0.0	1500.0	0.0	0.0	1500.0
13205622	THURMAN MILL	0.0	0.0	800.0	0.0	0.0	800.0
13205640	FARMERS UNION	2779.0	5593.0	8135.0	0.0	1865.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	0.0	0.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	0.0	0.0	0.0	449.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	600.0	0.0	300.0	900.0
13206220	WARM SPRINGS	0.0	0.0	61.5	0.0	33.0	94.5
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13206270	CONWAY-HAMMING	0.0	0.0	27.1	0.0	14.0	41.1
13206292	MACE-CATLIN	0.0	0.0	579.1	0.0	311.0	890.1
13208450	HART-DAVIS	0.0	0.0	303.1	0.0	163.0	466.1
13208710	MIDDLETON	0.0	0.0	8500.0	0.0	2500.0	11000.0
13208740	SEVEN SUCKERS	0.0	0.0	147.3	0.0	79.0	226.3
13209480	PHYLLIS	20326.0	24986.0	16000.0	0.0	0.0	61312.0
13209482	EUREKA #1	0.0	0.0	1800.0	0.0	1000.0	2800.0
13209630	LITTLE PIONEER	0.0	1623.0	0.0	500.0	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	4000.0	0.0	2000.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	0.0	0.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	36956.0	0.0	0.0	0.0	36956.0
TOTAL		272224.0	449530.0	213366.1	500.0	51004.0	986624.1

20130418

TABLE 3. 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK *-----ANDERSON RANCH-----*				*-----LUCKY PEAK-----*			
		STORAGE	CARRYOVER	NEW FLL	STORAGE	CARRYOVER	NEW FILL	STORAGE	
13189600	TRINITY SPRINGS	0.0	786.4	13.6	800.0	0.0	0.0	0.0	
13199804	OSPREY	0.0	0.0	0.0	0.0	251.3	48.7	300.0	
13199924	WILDERNESS RANCH	0.0	0.0	0.0	0.0	177.0	23.0	200.0	
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	0.0	0.0	
13201990	F&G INSTREAM	0.0	0.0	0.0	0.0	25325.6	21543.5	46869.1	
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	55588.6	45247.0	100835.6	
13203000	NEW YORK	241321.0	130913.3	30266.1	161179.4	0.0	0.0	0.0	
13203527	SURPRIS VY/MICRON	0.0	2948.9	51.1	3000.0	0.0	0.0	0.0	
13203760	RIDENBAUGH	3794.0	0.2	1272.9	1273.1	0.0	0.0	0.0	
13204005	BUBB	0.0	522.0	9.0	531.0	0.0	0.0	0.0	
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	280.9	19.1	300.0	
13204190	BOISE CITY	0.0	0.0	0.0	0.0	666.6	33.4	700.0	
13204200	UNITED WATER	0.0	0.0	86.1	86.1	0.0	474.0	474.0	
13205515	SETTLERS	2668.0	1278.4	488.6	1767.0	6500.0	0.0	6500.0	
13205517	FAIRVIEW ACRES	0.0	0.0	0.0	0.0	1159.5	340.5	1500.0	
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	550.4	249.6	800.0	
13205640	FARMERS UNION	2779.0	0.0	481.5	481.5	0.0	3505.1	3505.1	
13205641	BOISE VALLEY	0.0	0.0	80.8	80.8	1883.2	616.8	2500.0	
13205643	CAPITOL VIEW	0.0	215.0	38.7	253.7	0.0	0.0	0.0	
13206090	NEW DRY CREEK	0.0	643.9	109.0	752.9	2973.5	26.5	3000.0	
13206092	NEW UNION	0.0	0.0	0.0	0.0	586.6	13.4	600.0	
13206220	WARM SPRINGS	0.0	0.0	0.0	0.0	30.5	26.5	57.0	
13206265	BALLENTYNE	0.0	0.0	31.6	31.6	786.5	513.5	1300.0	
13206270	CONWAY-HAMMING	0.0	0.0	0.0	0.0	15.7	11.4	27.1	
13206292	MACE-CATLIN	0.0	0.0	0.0	0.0	488.3	90.8	579.1	
13208450	HART-DAVIS	0.0	0.0	0.0	0.0	39.1	130.6	169.7	
13208710	MIDDLETON	0.0	0.0	0.0	0.0	8296.0	204.0	8500.0	
13208740	SEVEN SUCKERS	0.0	0.0	0.0	0.0	126.3	21.0	147.3	
13209480	PHYLLIS	20326.0	15255.2	2151.1	17406.3	15788.4	211.6	16000.0	
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1094.5	705.5	1800.0	
13209630	LITTLE PIONEER	0.0	1280.9	139.7	1420.6	0.0	0.0	0.0	
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	3100.9	899.1	4000.0	
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0	0.0	
99999050	ANDERSON DAM POWER	0.0	5.9	0.1	6.0	0.0	0.0	0.0	
99999080	ANDSN UNCONTRACTED	0.0	36583.8	372.2	36956.0	0.0	0.0	0.0	
TOTAL		272224.0	190433.9	35592.1	226026.0	125709.4	74954.6	200664.0	

20130418

TABLE 3 (CONTINUED). 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	*ANDERSON RANCH LAST FILL * CARRYOVER NEW FILL STORAGE	*-- LUCKY PEAK LAST FILL --* CARRYOVER NEW FILL STORAGE	*----- TOTAL -----*
13189600	TRINITY SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	786.4 13.6 800.0
13199804	OSPREY	0.0 0.0 0.0	0.0 0.0 0.0	251.3 48.7 300.0
13199924	WILDERNESS RANCH	0.0 0.0 0.0	0.0 0.0 0.0	177.0 23.0 200.0
13201050	LUCKY PEAK NURSERY	0.0 0.0 0.0	0.0 0.0 0.0	0.0 190.0 190.0
13201990	F&G INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	25325.6 21543.5 46869.1
13201991	USBR INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	55588.6 45247.0 100835.6
13203000	NEW YORK	0.0 0.0 0.0	0.0 0.0 0.0	130913.3 271587.1 402500.4
13203527	SURPRIS VY/MICRON	0.0 0.0 0.0	0.0 0.0 0.0	2948.9 51.1 3000.0
13203760	RIDENBAUGH	0.0 0.0 0.0	0.0 0.0 0.0	0.2 5066.9 5067.1
13204005	BUBB	0.0 0.0 0.0	0.0 0.0 0.0	522.0 9.0 531.0
13204060	ROSSI MILL	0.0 0.0 0.0	0.0 0.0 0.0	280.9 19.1 300.0
13204190	BOISE CITY	0.0 0.0 0.0	0.0 0.0 0.0	666.6 33.4 700.0
13204200	UNITED WATER	0.0 0.0 0.0	0.0 0.0 0.0	0.0 560.0 560.0
13205515	SETTLERS	0.0 0.0 0.0	0.0 0.0 0.0	7778.4 3156.6 10935.0
13205517	FAIRVIEW ACRES	0.0 0.0 0.0	0.0 0.0 0.0	1159.5 340.5 1500.0
13205622	THURMAN MILL	0.0 0.0 0.0	0.0 0.0 0.0	550.4 249.6 800.0
13205640	FARMERS UNION	0.0 0.0 0.0	0.0 0.0 0.0	0.0 6765.6 6765.6
13205641	BOISE VALLEY	0.0 0.0 0.0	0.0 0.0 0.0	1883.2 697.6 2580.8
13205643	CAPITOL VIEW	0.0 0.0 0.0	0.0 0.0 0.0	215.0 38.7 253.7
13206090	NEW DRY CREEK	0.0 0.0 0.0	0.0 0.0 0.0	3617.4 135.5 3752.9
13206092	NEW UNION	0.0 0.0 0.0	0.0 0.0 0.0	586.6 13.4 600.0
13206220	WARM SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	30.5 26.5 57.0
13206265	BALLENTYNE	0.0 0.0 0.0	0.0 0.0 0.0	786.5 545.1 1331.6
13206270	CONWAY-HAMMING	0.0 0.0 0.0	0.0 0.0 0.0	15.7 11.4 27.1
13206292	MACE-CATLIN	0.0 0.0 0.0	0.0 0.0 0.0	488.3 90.8 579.1
13208450	HART-DAVIS	0.0 0.0 0.0	0.0 0.0 0.0	39.1 130.6 169.7
13208710	MIDDLETON	0.0 0.0 0.0	0.0 0.0 0.0	8296.0 204.0 8500.0
13208740	SEVEN SUCKERS	0.0 0.0 0.0	0.0 0.0 0.0	126.3 21.0 147.3
13209480	PHYLLIS	0.0 0.0 0.0	0.0 0.0 0.0	31043.6 22688.7 53732.3
13209482	EUREKA #1	0.0 0.0 0.0	0.0 0.0 0.0	1094.5 705.5 1800.0
13209630	LITTLE PIONEER	0.0 0.0 0.0	0.0 0.0 0.0	1280.9 139.7 1420.6
13209990	CANYON COUNTY	0.0 0.0 0.0	0.0 0.0 0.0	3100.9 899.1 4000.0
13210992	SEBREE	0.0 0.0 0.0	0.0 0.0 0.0	0.0 1146.0 1146.0
99999050	ANDERSON DAM POWER	0.0 0.0 0.0	0.0 0.0 0.0	5.9 0.1 6.0
99999080	ANDSN UNCONTRACTED	0.0 0.0 0.0	0.0 0.0 0.0	36583.8 372.2 36956.0
TOTAL		0.0 0.0 0.0	0.0 0.0 0.0	316143.3 382770.7 698914.0

20130418

TABLE 4. 2013 BOISE RIVER RESERVOIR NET STORAGE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	SUBTOTAL	TRANSFERS	RNT POOL	TOTAL AFTER LOSS	
13189600	TRINITY SPRINGS	0.0	784.0	0.0	784.0	0.0	0.0	784.0	778.5
13199804	OSPREY	0.0	0.0	295.6	295.6	0.0	0.0	295.6	293.5
13199924	WILDERNESS RANCH	0.0	0.0	197.1	197.1	0.0	0.0	197.1	195.7
13201050	LUCKY PEAK NURSERY	188.4	0.0	0.0	188.4	0.0	0.0	188.4	187.1
13201990	F&G INSTREAM	0.0	0.0	46180.1	46180.1	0.0	0.0	46180.1	46180.1
13201991	USBR INSTREAM	0.0	0.0	99353.2	99353.2	0.0	0.0	99353.2	99353.2
13203000	NEW YORK	239331.4	157951.3	0.0	397282.7	0.0	0.0	397282.7	394501.7
13203527	SURPRIS VY/MICRON	0.0	2939.9	0.0	2939.9	0.0	0.0	2939.9	2919.3
13203760	RIDENBAUGH	3762.7	1247.6	0.0	5010.3	0.0	0.0	5010.3	4975.2
13204005	BUBB	0.0	520.4	0.0	520.4	0.0	0.0	520.4	516.7
13204060	ROSSI MILL	0.0	0.0	295.6	295.6	0.0	0.0	295.6	293.5
13204190	BOISE CITY	0.0	0.0	689.7	689.7	0.0	0.0	689.7	684.9
13204200	UNITED WATER	0.0	84.4	467.0	551.4	0.0	1500.0	2051.4	2037.0
13205515	SETTLERS	2646.0	1731.6	6404.4	10782.0	0.0	0.0	10782.0	10706.6
13205517	FAIRVIEW ACRES	0.0	0.0	1477.9	1477.9	0.0	0.0	1477.9	1467.6
13205622	THURMAN MILL	0.0	0.0	788.2	788.2	0.0	0.0	788.2	782.7
13205640	FARMERS UNION	2756.1	471.9	3453.6	6681.6	0.0	0.0	6681.6	6634.8
13205641	BOISE VALLEY	0.0	79.2	2463.2	2542.5	0.0	-1500.0	1042.5	1035.2
13205643	CAPITOL VIEW	0.0	248.6	0.0	248.6	0.0	0.0	248.6	246.8
13206090	NEW DRY CREEK	0.0	737.8	2955.9	3693.7	0.0	0.0	3693.7	3667.9
13206092	NEW UNION	0.0	0.0	591.2	591.2	0.0	0.0	591.2	587.0
13206220	WARM SPRINGS	0.0	0.0	56.2	56.2	0.0	0.0	56.2	55.8
13206265	BALLENTYNE	0.0	31.0	1280.9	1311.9	0.0	0.0	1311.9	1302.7
13206270	CONWAY-HAMMING	0.0	0.0	26.7	26.7	0.0	0.0	26.7	26.5
13206292	MACE-CATLIN	0.0	0.0	570.6	570.6	0.0	0.0	570.6	566.6
13208450	HART-DAVIS	0.0	0.0	167.2	167.2	0.0	0.0	167.2	166.0
13208710	MIDDLETON	0.0	0.0	8375.0	8375.0	0.0	0.0	8375.0	8316.4
13208740	SEVEN SUCKERS	0.0	0.0	145.1	145.1	0.0	0.0	145.1	144.1
13209480	PHYLLIS	20158.4	17057.7	15764.8	52980.9	0.0	0.0	52980.9	52610.0
13209482	EUREKA #1	0.0	0.0	1773.5	1773.5	0.0	0.0	1773.5	1761.1
13209630	LITTLE PIONEER	0.0	1392.2	0.0	1392.2	0.0	0.0	1392.2	1382.4
13209990	CANYON COUNTY	0.0	0.0	3941.2	3941.2	0.0	0.0	3941.2	3913.6
13210992	SEBREE	1136.6	0.0	0.0	1136.6	0.0	0.0	1136.6	1128.6
99999050	ANDERSON DAM POWER	0.0	5.9	0.0	5.9	0.0	0.0	5.9	5.9
99999080	ANDSN UNCONTRACTED	0.0	36215.8	0.0	36215.8	0.0	0.0	36215.8	36215.8
TOTAL		269979.6	221499.1	197714.1	689192.8	0.0	0.0	689192.8	685640.9

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60		60

(email sent 5/21/2013 8:11 AM) to Liz Cresto and David Hoekema

Liz,

Yesterday UWI was able to lease 2000 af from the following space holders.

Canyon County Water Company (Canyon County Ditch) 1000 af

Middleton Irrigation Assoc. 500 af

Middleton Mill Ditch Company 500 af.

Both Middleton's are thru the Middleton Canal.

This is all from Lucky Peak.

Thanks,

Rex R. Barrie

Boise River Watermaster



## State of Idaho

# DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

### MEMO

## EVAPORATION CALCULATIONS FOR RESERVOIRS IN THE BOISE RIVER WRA

To: Liz Cresto & Sean Vincent  
From: David Hoekema

Date: February 25, 2013

### Overview

On February 13, 2013 Liz asked me to investigate how reservoir evaporation is being calculated for the "old" water right accounting (WRA) model for the Boise River. The following sections describe what I have found. I start by describing the traditional pan evaporation ( $E_{pan}$ ) equations and the use of reference evapotranspiration ( $ET_{ref}$ ) to estimate pan evaporation. I then describe the Allen and Tasumi (2005) method for determining reservoir evaporation and then the current WRA estimate of evaporation. Finally I conclude this memo by showing that use of historic WRA evaporation estimates, using either  $E_{pan}$  or  $ET_{ref}$ , would increase evaporation predictions by about 150% while the Allen and Tasumi (2005) method would reduce current evaporation estimates by around 60%.

### Traditional Evaporation Calculations

Evaporation from reservoirs is an important part of the WRA model, because evaporation from the reservoirs is charged to those entities with storage rights in the reservoirs. As such it is important to note that we only keep track of reservoir evaporation during the *allocation season* from April 1<sup>st</sup> to October 31<sup>st</sup>. Evaporation from reservoirs on the Boise River was originally estimated based on pan evaporation ( $E_{pan}$ ) measurements taken at Arrowrock Reservoir. The evaporation rate was based on Equation 1 and was a product of the surface area ( $SA$ ) of the reservoirs, seventy percent of the pan evaporation, and precipitation ( $PP$ ) as shown below:

$$Evap = (0.7E_{pan} - PP)SA \quad (\text{Equation 1})$$

If the precipitation rate is greater than  $0.7E_{pan}$ , the WRA sets the evaporation rate to zero. A negative evaporation rate would allow precipitation to create a *gain* in the accounting model. Such a gain would result in double accounting as the increase in reservoir volume is already measured by the reservoir gage and the flow or storage generated by the rain should be considered as a *natural flow* before it becomes storage. The surface area ( $SA$ ) of each reservoir is based on the reservoir content and is hardcoded into the model.

The use of pan evaporation is problematic as such measurements are prone to error and the data is often missing. The attached spreadsheet *ET.calculation.xlsx*, which shows pan evaporation rates measured by the USBR between 1996 and 2006, indicates that well over half the pan evaporation rates are missing or invalid.

### Reference Evapotranspiration Calculations

The problem of pan evaporation has been addressed at least twice by the department. A memo by Bob Sutter dated September 18, 1989 (found at: N:\Hydrology\WRA\Sutter\_Archives) suggests that reference evapotranspiration ( $ET_{ref}$ ) based on the Wright-Penman calculation could be

used instead of pan evaporation to estimate reservoir losses from American Falls Reservoir. Sutter found that  $ET_{ref}$  could be used to approximate PE as described in Equation 2:

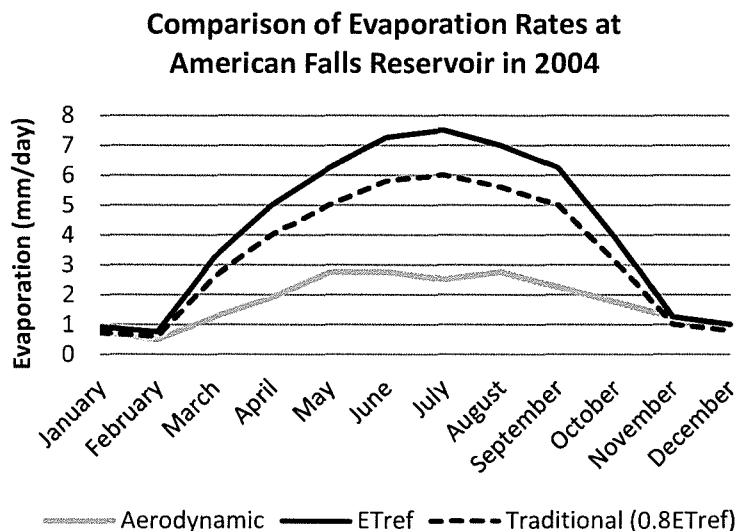
$$0.8ET_{ref} = 0.7E_{pan} \quad (\text{Equation 2})$$

A second memorandum by <sup>1</sup>Sheryl Howe dated January 8, 1997 shows that  $ET_{ref}$  computerd for the Parma Experiment Station correlated ( $r^2 = 0.72$ ) with  $E_{pan}$  measured at Arrowrock Dam and was nearly equal in volume. She suggested the following equation could be used to approximate  $E_{pan}$ :

$$E_{pan} = 1.02ET_{ref} - 0.01 \quad (\text{Equation 3})$$

### Allen and Tasumi (2005) Reservoir Evaporation Calculations

In 2004 <sup>2</sup>Allen and Tasumi (2005) performed an evaporation study on the American Falls Reservoir. They found that reservoir evaporation could be determined at American Falls reservoir based on a modification of the aerodynamic method developed by <sup>3</sup>Kondo (1975) using only the parameters of windspeed and air temperature. <sup>4</sup>Allen and Robison (2007) used the findings of the Allen and Tasumi (2005) to calculate deep, open water evaporation at multiple weather stations across the state of Idaho, including the NWS station located at Arrowrock Reservoir.



**Figure 1.** Comparison of Alfalfa based Reference Evapotranspiration, the Traditional Reservoir Evaporation Equation, and Reservoir Evaporation based on the Aerodynamic Method (Allen & Tasumi, 2005; Allen and Robison, 2007)

Allen and Tasumi's (2005) study indicates that evaporation from the American Falls Reservoir is far less than then would be implied by the traditional method of  $ET_{ref}$  or  $E_{pan}$  methods. Figure 1 compares the evaporation from a well watered crop of alfalfa ( $ET_{ref}$ ), traditional reservoir

<sup>1</sup> 1997-2001 Boise River Accounting

<sup>2</sup> R.G. Allen and M. Tasumi (2005). "Evaporation from American Falls Reservoir in Idaho via a Combination of Bowen Ratio and Eddy Covariance." Proceedings of the EWRI World Water and Environmental Resources Conference, Anchorage, AK, May 15-19.

<sup>3</sup> J. Kondo (1975). "Air-Sea Bulk Transfer Coefficients in Diabetic Conditions. *Boundary-Layer Meteorology* 9:91-112.

<sup>4</sup> R.G. Allen and Robison (2007). Evaporation and Consumptive Water Requirements for Idaho, Appendix 10: Evaporation from deep, open water. University of Idaho Research and Extension Center at Kimberley, ID.



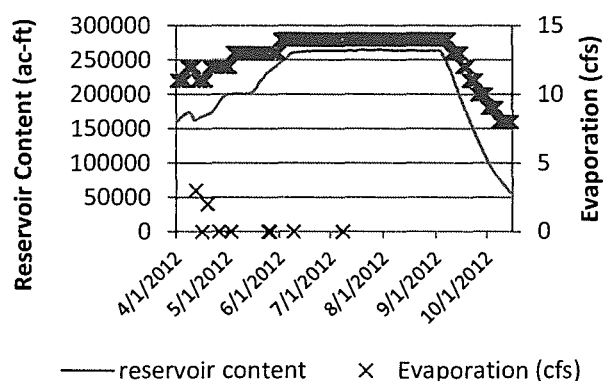
evaporation estimates ( $0.8ET_{ref}$ ), and the aerodynamic method proposed by Allen and Tasumi (2005). The values for the aerodynamic reservoir evaporation method in Figure 1 were estimated from Figure 10.4a on p. 197 of the Allen and Robison (2007) report. Based on Figure 1 reservoir evaporation would be 48% less between April and October when calculated by the modified Kondo method than when calculated by the traditional methods applied in the WRA model.

The lower rate of evaporation estimated by Allen and Tasumi (2005), as compared to the traditional pan evaporation method, is due to the significant difference in the energy partition which occurs at a pan or well watered alfalfa crop and a deep, open water body. Unlike in a shallow pan or crop where a large latent heat flux and minimal ground heat flux exist, in deep, open water incoming radiation penetrates deeply below the surface causing a large portion of the incoming radiation to be converted into water heat storage (equivalent to a ground heat flux on land) rather than into the latent heat flux. The latent heat flux represents the energy absorbed in the evaporation process. In addition, in irrigation reservoirs large irrigation releases allow a significant amount of the incoming radiation converted to water heat storage to be advected from the reservoir.

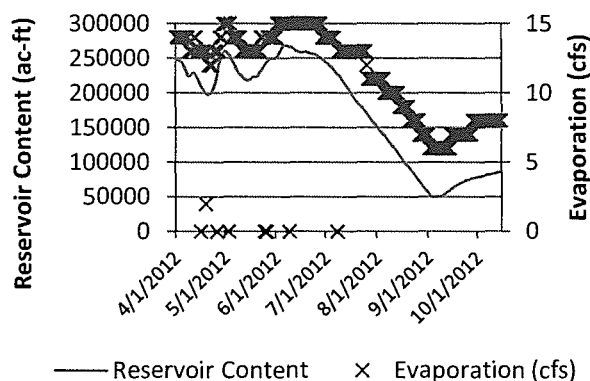
### Current WRA Evaporation Calculations for Boise River Reservoirs

The current method of calculating evaporation from reservoirs on the Boise River uses a constant rate of evaporation multiplied by the surface area of the reservoir. Figure 2 shows the WRA estimated evaporation at Anderson Ranch, Arrowrock, and Lucky Peak Reservoirs during the 2012 allocation season. As can be seen in Figure 1, the rate is constant from April through October and is decreased only by precipitation and reservoir surface area/content. I back calculated the evaporation rate as approximately 0.12 in/day for the Boise River reservoirs.

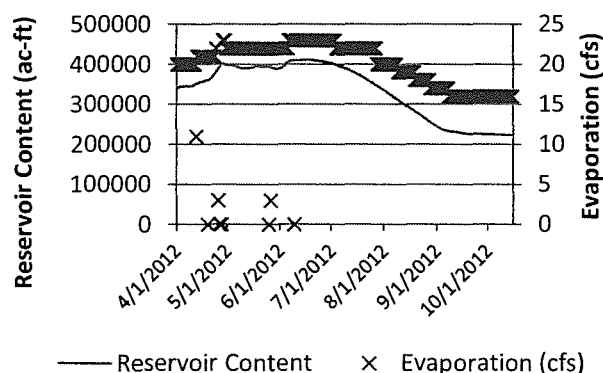
(a) Lucky Peak Reservoir Evaporation vs. Reservoir Content 2012



(b) Arrowrock Reservoir Evaporation vs. Reservoir Content 2012



(c) Anderson Ranch Reservoir Evaporation vs. Reservoir Content 2012



**Figure 2.** Accounted Evaporation from (a) Lucky Peak, (b) Arrowrock, and (c) Anderson Ranch in 2012

While the assumption of a constant evaporation rate from April through October does not follow the assumption implicit in the pan evaporation estimation where evaporation peaks with temperature in July, the constant evaporation rate appears to more closely match the study of reservoir evaporation on American Falls Reservoir conducted by Allen and Tasumi (2005) and discussed by Allen and Robison (2007). Allen and Robison show estimates of a daily evaporation rate between 2-3 mm/day (or 0.12-0.08 in/day) during the months of May-September.

### The Implications of ET Calculation Methods on WRA at Arrowrock

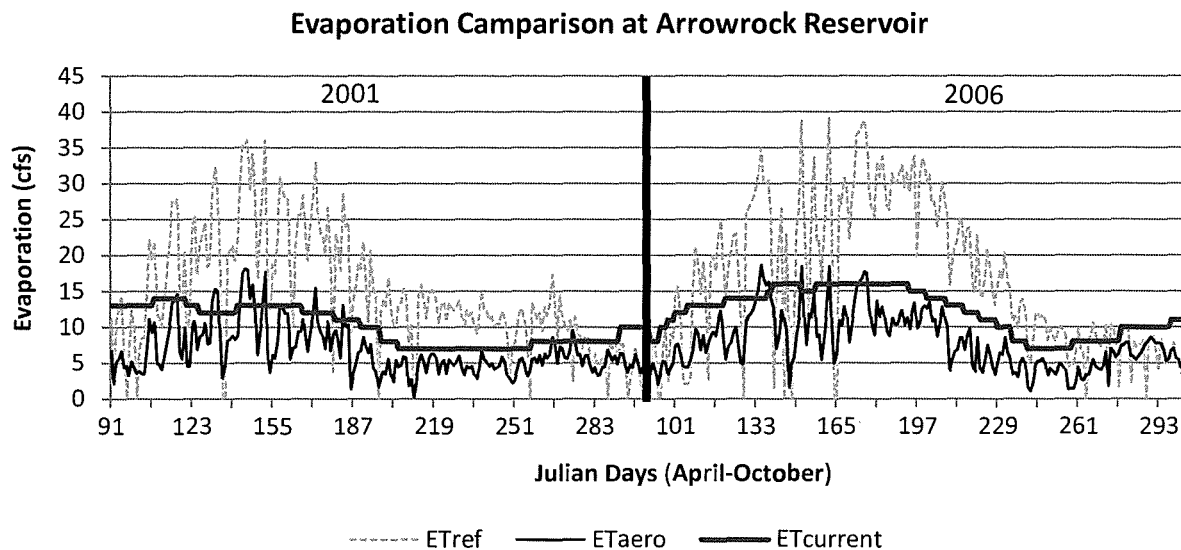
In order to understand the impacts of the various evaporation estimates on WRA calculations for the Boise River reservoirs, I provide in this section a comparison of evaporation estimates at Arrowrock reservoir for the decade from 2000-2009. I provide, in the following paragraphs, a comparison of WRA evaporation calculated using the traditional  $ET_{ref}$  method, the current method, and the Allen and Tasumi (2005) method. The traditional WRA estimate of evaporation at Arrowrock is based on the analysis of Allen and Robison (2007), who calculated  $ET_{ref}$  at Arrowrock based local temperature measurements and wind speed recorded at the Nampa Airport. Although there is a significant difference between the topography and land use at the reservoir and the Nampa Airport, located about 30 miles to west of Arrowrock, the total of the measured and estimated evaporation is very close. The Arrowrock  $ET_{ref}$  estimates provide a surprisingly good match to the pan evaporation rates taken at Arrowrock between 1997 and 2004. Table 1 shows a comparison of pan evaporation to  $ET_{ref}$  calculated by Allen and Robison (2007) and available pan evaporation measurements. The dates in column 1 of Table 1 represent periods of more or less contiguous overlapping records of  $E_{pan}$  and  $ET_{ref}$ . Where data for either  $ET_{ref}$  or  $E_{pan}$  are missing, both values were not included in the total evaporation estimate for the time period represented. Based on this analysis we assume that  $ET_{ref} = ET_{pan}$ . Therefore the traditional evaporation WRA rate at Arrowrock can be estimated using Equation 1, substituting  $ET_{ref}$  for  $ET_{pan}$ .

**Table 1** Comparison of  $E_{pan}$  measured at Arrowrock and  $ET_{ref}$  estimated at Arrowrock (Allen and Robison, 2007).

Year	Dates	$E_{pan}$	$ET_{ref}$
1997	6/5-8/27	34.9	37.4
1998	7/8-8/19	34.2	36.0
1999	5/12-10/25	40.5	39.9
2000	4/13-9/29	36.7	36.2
2003	4/23-10/5	14.4	13.0
2004	5/9-10/7	21.0	20.6
<b>Total</b>		<b>181.6</b>	<b>183.2</b>

Figure 3 compares the evaporation rate for the traditional WRA method of estimating evaporation, the current WRA method, and the Allen and Tasumi (2005) method at Arrowrock during the allocation season for the lowest water supply year (2001) and the highest water supply

year (2006) of the decade. Table 2 provides an annual estimate of evaporation during the allocation season for the decade from 2000-2009.



**Figure 3.** Comparison of Evaporation as Estimated by the Traditional WRA Method ( $ET_{ref}$ ), the Modified Kondo Aerodynamic Method of Allen and Tasumi (2005) ( $ET_{aero}$ ), and the Current Evaporation Estimation in the WRA model ( $ET_{current}$ )

**Table 2.** Comparison of Evaporation as Estimated by the Traditional WRA Method ( $ET_{ref}$ ), the Modified Kondo Aerodynamic Method of Allen and Tasumi (2005) ( $ET_{aero}$ ), and the Current Evaporation Estimation in the WRA model ( $ET_{current}$ ) During the Allocation Season for the Period from 2000 to 2009.

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
$ET_{ref}$	7440	6130	6220	5890	6160	5470	7140	6370	7260	6910
$ET_{current}$	4640	3920	4380	3750	4010	3740	4620	4310	4930	4440
$ET_{aero}$	3067	2618	2640	2480	2560	2220	3010	2700	3000	2780

The current method of accounting reservoir evaporation in the WRA model appears to predict a value about half way between the Allen and Tasumi (2005) value and the traditional WRA method. On average the traditional pan evaporation method predicts about 150% more evaporation than we are currently accounting for. Should we employ the Allen and Tasumi (2005) method we would reduce the evaporation charge to storage users by about 60%.



State of Idaho

## DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

November 16, 2012

FRISBY FARMS INC  
6205 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83607

**RE: RENTAL OF WATER FROM THE WATER SUPPLY BANK  
WATER RIGHT NO(S). 63-33517**

Dear Renter:

Please find enclosed a receipt in the amount of \$ **1,300.50** and a copy of a fully executed Water Supply Bank Rental Agreement in connection with the rental of 76.5 acre-feet of water for irrigation of 17 acres during 2013. Upon receipt of this fully executed agreement, you are authorized to divert water in compliance with the conditions of water use described in the agreement.

If you have any questions, please contact this office.

Sincerely,

Christine Field  
Water Supply Bank Support

Enclosure(s): Receipt No. C096209  
Rental Agreement (copy)

c: John Westra – IDWR Western Regional Office  
Liz Cresto - IDWR State Office

No action necessary. This right was  
not in the water rights accounting  
program because it is a groundwater  
right.

Liz Cresto 2/20/12

RECEIVED

NOV 13 2012

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**WATER SUPPLY BANK RENTAL AGREEMENT**

DEPARTMENT OF  
WATER RESOURCES

This is to certify that: FRISBY FARMS INC  
6205 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83607  
(208) 459-0875

filed an application to rent water from the Water Supply Bank ("Bank"). The Idaho Water Resource Board ("Board") being authorized to operate a Bank and to contract by and through the Director of the Idaho Department of Water Resources ("Director, Department") for rental of water from the Bank agrees to rent water as follows:

**Summary of Water Rights or Portions Rented from the Bank**

	Water Right	Rented Rate	Annual Rented Volume	Total Rented Acres
	63-33517	0.27 CFS	76.5 AF	17.0 AC
<b>COMBINED RENTAL TOTALS:</b>		<b>0.27 CFS</b>	<b>76.5 AF</b>	<b>17.0 AC</b>

**TERM OF RENTAL:** March 15, 2013 to November 15, 2013

**RENTAL FEE:** \$1,300.50

Detailed water right specific limitations and conditions attached.

The undersigned renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described in this agreement:

Dated this 8 day of November, 2012.

By: Frisky Farms Inc  
(Print Name)

Maureen Frisky  
(Signature)

for  
(Title if on behalf of company or organization)

Having determined that this agreement satisfies the provisions of Section 42-1763, Idaho Code, and, IDAPA 37.02.03030 (Water Supply Bank Rule 30), for the rental and use of water under the terms and conditions herein provided, and none other, I hereby execute this Rental Agreement on behalf of the Idaho Water Resource Board this 14<sup>th</sup> day of November, 2012.

for Monica Van Buren  
GARY SPACKMAN, Director  
Department of Water Resources

**WATER RIGHT NO. 63-33517**  
**WATER SUPPLY BANK RENTAL AGREEMENT**

The renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described below:

**Renter:** FRISBY FARMS INC  
 6205 SE 8<sup>TH</sup> AVE  
 CALDWELL ID 83607  
 (208) 459-0875

**Priority Date:** 09/29/1978

**Source:** GROUND WATER

<b><u>BENEFICIAL USE</u></b>	<b><u>From</u></b>	<b><u>To</u></b>	<b><u>Diversion Rate</u></b>	<b><u>Volume</u></b>
IRRIGATION	03/15 to	11/15	0.27 CFS	76.5 AF
	<b>Total:</b>		<b>0.27 CFS</b>	<b>76.5 AF</b>

**LOCATION OF RENTER'S POINT(S) OF DIVERSION:**

GROUND WATER      SW¼NW¼    Sec. 20    Twp 06N    Rge 03W      PAYETTE County

**RENTER'S PLACE OF USE:** IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	03W	17											7.0	10.0					17

Total Acres: 17.0

**CONDITIONS OF WATER USE**

1. The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
2. Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in the ongoing Snake River Basin Adjudication or any other department application process.
3. Use of water under this agreement does not constitute a dedication of the water to renter's place of use and upon expiration of this agreement, the points of diversion and place of use of the water shall revert to those authorized under the water right and/or again be available to rent from the bank.
4. This rental does not grant any right-of-way or easement to use the diversion works or conveyance works of another party.
5. This rental agreement does not authorize the construction of a well.
6. Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
7. Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
8. Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.
9. Renter acknowledges and agrees that the Director may terminate diversion of water if the Director determines there is not a sufficient water supply for the priority of the right or portion thereof being rented.
10. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
11. The period of use for the irrigation described in this approval may be extended to a beginning date of 3/1 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 3/15 is subordinated to all water rights having no subordinated early or late irrigation use and a priority date earlier than 04/29/2009.



State of Idaho

## DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

C.L. "BUTCH" OTTER

Governor

GARY SPACKMAN

Director

November 1, 2012

FRISBY FARMS INC  
6208 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83605

**RE: APPLICATION TO RENT WATER FROM THE WATER SUPPLY BANK  
WATER RIGHT NO(S). 63-33517**

Dear Renter:

The Department of Water Resources acknowledges receipt of your application to rent water from the Water Supply Bank. I have enclosed a Water Supply Bank Rental Agreement for your review and signature. Upon signature and return of the original agreement, together with the rental fee described below, the Department will also sign the original agreement and return an executed copy to you. Execution of the agreement and compliance with the conditions of approval authorize diversion and use of water as provided in the agreement.

A rental fee of **\$1,300.50** was calculated based on the current rental rate of \$17.00 per acre-foot times a diversion volume of 76.5 acre-feet. We require payment prior to the execution of this agreement.

Please send a check for \$1,300.50 made payable to the Idaho Department of Water Resources, together with the signed rental agreement, to my attention within 14 days so I can complete the processing. Pursuant to the Water Supply Bank Rules, 90% or \$1,170.45 of the rental fee will be paid to the lessor and 10% or \$130.05 will be retained by the Department to offset administrative costs.

If you have any questions, please contact me at (208) 287-4907.

Sincerely,

Monica Van Bussum  
Sr. Water Resource Agent

Enclosure(s)

c: IDWR Front Desk  
John Westra – IDWR Western Regional Office  
Liz Cresto – IDWR State Office

**STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
WATER SUPPLY BANK RENTAL AGREEMENT**

This is to certify that: FRISBY FARMS INC  
6205 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83607  
(208) 459-0875

filed an application to rent water from the Water Supply Bank ("Bank"). The Idaho Water Resource Board ("Board") being authorized to operate a Bank and to contract by and through the Director of the Idaho Department of Water Resources ("Director, Department") for rental of water from the Bank agrees to rent water as follows:

**Summary of Water Rights or Portions Rented from the Bank**

	<u>Water Right</u>	<u>Rented Rate</u>	<u>Annual Rented Volume</u>	<u>Total Rented Acres</u>
	63-33517	0.27 CFS	76.5 AF	17.0 AC
<b>COMBINED RENTAL TOTALS:</b>		<b>0.27 CFS</b>	<b>76.5 AF</b>	<b>17.0 AC</b>

**TERM OF RENTAL:** March 15, 2013 to November 15, 2013

**RENTAL FEE:** \$1,300.50

Detailed water right specific limitations and conditions attached.

-----  
The undersigned renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described in this agreement:

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

By: \_\_\_\_\_  
(Print Name) (Signature)

\_\_\_\_\_  
(Title if on behalf of company or organization)

-----  
Having determined that this agreement satisfies the provisions of Section 42-1763, Idaho Code, and, IDAPA 37.02.03030 (Water Supply Bank Rule 30), for the rental and use of water under the terms and conditions herein provided, and none other, I hereby execute this Rental Agreement on behalf of the Idaho Water Resource Board this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
GARY SPACKMAN, Director  
Department of Water Resources



# WATER RIGHT NO. 63-33517

## WATER SUPPLY BANK RENTAL AGREEMENT

The renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described below:

**Renter:** FRISBY FARMS INC  
6205 SE 8<sup>TH</sup> AVE  
CALDWELL ID 83607  
(208) 459-0875

**Priority Date:** 09/29/1978

**Source:** GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	03/15 to	11/15	0.27 CFS	76.5 AF
	<b>Total:</b>		<b>0.27 CFS</b>	<b>76.5 AF</b>

**LOCATION OF RENTER'S POINT(S) OF DIVERSION:**

GROUND WATER      SW $\frac{1}{4}$ NW $\frac{1}{4}$     Sec. 20    Twp 06N    Rge 03W      PAYETTE County

**RENTER'S PLACE OF USE:** IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
06N	03W	17											7.0	10.0					17

Total Acres: 17.0

### CONDITIONS OF WATER USE

1. The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
2. Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in the ongoing Snake River Basin Adjudication or any other department application process.
3. Use of water under this agreement does not constitute a dedication of the water to renter's place of use and upon expiration of this agreement, the points of diversion and place of use of the water shall revert to those authorized under the water right and/or again be available to rent from the bank.
4. This rental does not grant any right-of-way or easement to use the diversion works or conveyance works of another party.
5. This rental agreement does not authorize the construction of a well.
6. Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
7. Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
8. Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.
9. Renter acknowledges and agrees that the Director may terminate diversion of water if the Director determines there is not a sufficient water supply for the priority of the right or portion thereof being rented.
10. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
11. The period of use for the irrigation described in this approval may be extended to a beginning date of 3/1 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 3/15 is subordinated to all water rights having no subordinated early or late irrigation use and a priority date earlier than 04/29/2009.



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C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

**MEMO**

**Water Lease by United Water from Boise Valley**

To: Liz Cresto  
From: David Hoekema

Date: April 17, 2013

The Water Master of the Boise River (Rex Barrie), informed me in a phone conversation that United Water is leasing 1500 acre-feet from Boise Valley this year.



## State of Idaho

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C.L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

### MEMO

#### Storage Report April 15<sup>th</sup> 2013

To: Liz Cresto & Sean Vincent  
From: David Hoekema

Date: April 18, 2013

#### Introduction

Low snowpack has many irrigators in the Boise Valley worried about this year's water supply. Presenters from the USBR and NRCS at the April Water Supply Forecast meeting held at IDWR on April, 11<sup>th</sup> indicated that it was unlikely that Anderson Ranch would fill. On April 12<sup>th</sup> cool weather caused accumulation of storage water in Lucky Peak to stop, while irrigation has begun for nearly all canals within the system. At the request of Rex Barrie, Liz Cresto and I ran an early storage report of fill for the reservoirs in the Boise System. Typically a storage report is only run during the day of allocation and at the end of the season. It should be noted that we have not included the impacts of rental contracts and transfers in this report. Some diversions require a special calculation in order to understand their current condition. These diversions have been marked with a double star (e.g. \*\*). *Note these calculations are preliminary and subject to change as better data becomes available.* The calculations for these diversions are explained in the *Special Calculations* section of this memo. As of April 15<sup>th</sup> Arrowrock water storage contracts have filled (see Table 1), Lucky Peak contracts are 94% full (see Table 2), and Anderson Ranch only has 50% of contracted space full (see Table 3).

**Table 1. Arrowrock Storage Contract as of April 15<sup>th</sup>**

	Space	Fill	% Fill
LUCKY PEAK NURSERY	190	190	100%
NEW YORK	241321	241321	100%
RIDENBAUGH	3794	3794	100%
SETTLERS	2668	2668	100%
FARMERS UNION	2779	2779	100%
PHYLLIS	20326	20326	100%
SEBREE	1146	1146	100%
Total	272224	272224	100%

**Table 2. Anderson Ranch Storage Contracts as of April 15<sup>th</sup>**

	Space	Fill	% Fill
TRINITY SPRINGS	800	800	100%
NEW YORK	351554	161179.4	46%
SURPRIS VY/MICRON	3000	3000	100%
RIDENBAUGH	14785	1273.1	9%

BUBB	531	531	100%
UNITED WATER	1000	86.1	9%
SETTLERS	5675	1767	31%
FARMERS UNION	5593	481.5	9%
BOISE VALLEY	939	80.8	9%
CAPITOL VIEW	449	253.7	57%
NEW DRY CREEK	1266	752.9	59%
BALLENTYNE	367	31.6	9%
PHYLLIS	24986	17406.3	70%
LITTLE PIONEER	1623	1420.6	88%
ANDERSON DAM POWER	6	6	100%
ANDSN UNCONTRACTED	36956	36956	100%
Total	449530	226026	50%

**Table 3. Lucky Peak Storage Contract as of April 15<sup>th</sup>**

	Space	Fill	% Fill
OSPREY	300	300	100%
WILDERNESS RANCH	200	200	100%
F&G INSTREAM	50000	46869.1	94%
USBR INSTREAM	105013	100835.6	96%
ROSSI MILL	300	300	100%
BOISE CITY	700	700	100%
UNITED WATER	1100	474	43%
SETTLERS	6500	6500	100%
FAIRVIEW ACRES	1500	1500	100%
THURMAN MILL	800	800	100%
FARMERS UNION	8135	3505.1	43%
BOISE VALLEY	2500	2500	100%
NEW DRY CREEK	3000	3000	100%
NEW UNION	600	600	100%
WARM SPRINGS	61.5	57	93%
BALLENTYNE	1300	1300	100%
CONWAY-HAMMING	27.1	27.1	100%
MACE-CATLIN	579.1	579.1	100%
HART-DAVIS	303.1	169.7	56%
MIDDLETON	8500	8500	100%
SEVEN SUCKERS	147.3	147.3	100%
PHYLLIS	16000	16000	100%
EUREKA #1	1800	1800	100%
CANYON COUNTY	4000	4000	100%
Total	213366.1	200664	94%

## Special Calculations

In order to understand the water supply of United Water, Settlers, Little Pioneer, special calculations are required:

### United Water

United Water's only carryover after the 2012 season was 336.4 acre-feet in Lucky Peak reservoir. Since then, they have withdrawn 2082 acre-feet of storage. Their rental accounts in Anderson Ranch and Lucky Peak have accumulated 86.1 acre-feet and 474 acre-feet respectively for a total fill of 560.1 acre-feet. United Water has also rented of 1500 acre feet from Boise Valley. United Water's total available storage for the remainder of the season is 314.5 acre-feet. Table 4 shows the calculation in detail. It should be noted that they should continue to acquire some fill in Anderson Ranch before the runoff season ends. See the *Anderson Ranch Forecast* section.

**Table 5. Remaining Available Storage for United Water**

336.4	Carryover
560.1	Fill
1500	Rental
-2082	Storage use (Nov. 1-Apr. 15)
314.5	Available Storage

### Settlers Canal

Settler's Canal according to the 2012 Storage Report had 7778.4 acre-feet of carryover storage in Lucky Peak and no carryover in Anderson Ranch. Because Settlers moved 3500 acre-feet of Lucky Peak storage space to *last to fill* we transferred 1278.4 acre-feet of storage space in Lucky Peak to their Anderson Ranch account, otherwise they would end of with a negative fill.

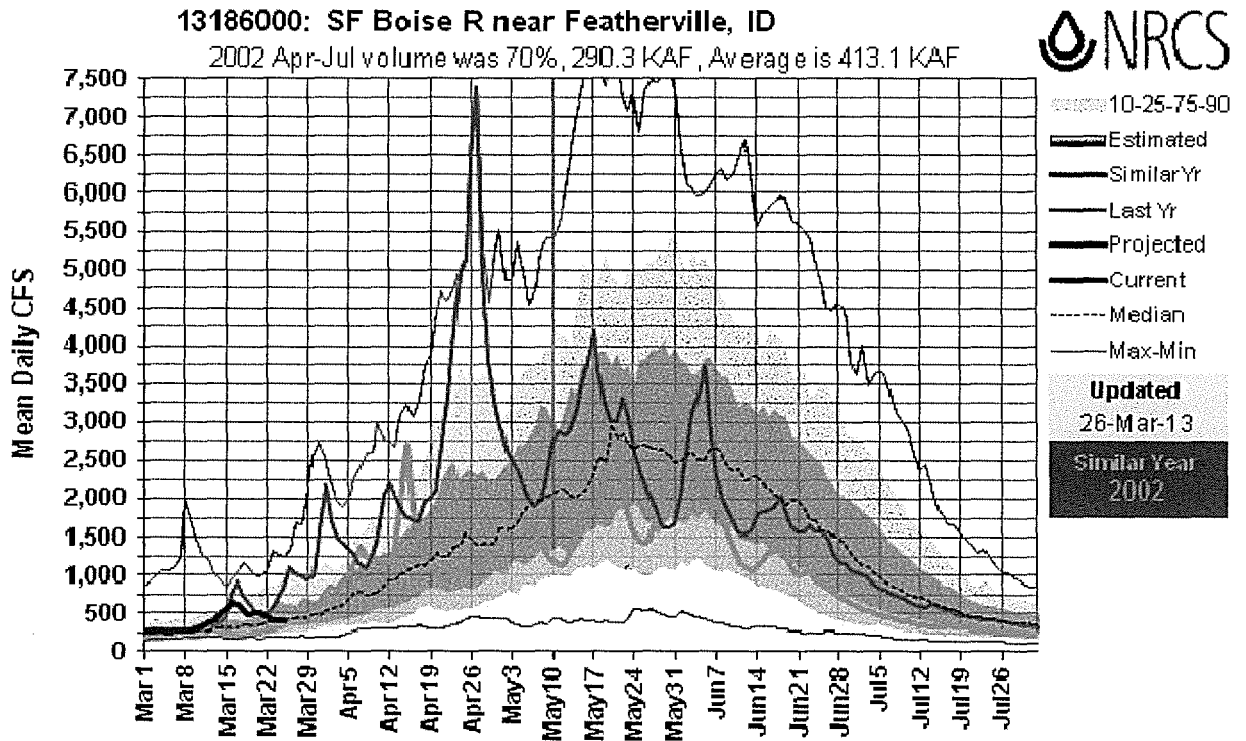
### Little Pioneer Canal

Little Pioneer faces the same issue as Settlers in that they placed 500 acre-feet of storage Lucky Peak last to fill, therefore we needed to transfer 500 acre-feet from their carryover in Lucky Peak reservoir to their Anderson Ranch account.

## Anderson Ranch Inflow Forecast

The NRCS estimates that this year's runoff will be similar to 2002 (see Table 6). In that year 290,000 acre-feet were added to Anderson Ranch Dam while the Northwest River Forecast Center predicts 343,000 acre-feet with a 50% exceedance probability are likely to enter Anderson Ranch. While, forecasters are assuming that water supply will, unless significant spring rains come, be on the lower end of the forecast which would reduce the probability of Anderson Ranch filling, there is still likely to be a significant accumulation of storage in the coming month. A lot depends on how strong irrigation demand will be this year.

Table 6. An NRCS forecast Graph Showing 2002 and 2013 Runoff.



## Conclusions

In reviewing the April 15<sup>th</sup> storage report, users should understand that there is still significant time for storage to accumulate in Anderson Ranch Reservoir. There is little doubt that Lucky Peak will completely fill, but those users with little carryover in Anderson Ranch, may end up with less than full storage space. The greatest difficulty in filling Anderson Ranch would be if irrigation demand rises quickly reducing the amount of flow available for storage.

April 15<sup>th</sup>  
Interim Storage Report

20130418

TABLE 1. 2013 BOISE RIVER STORED WATER BY RESERVOIR

(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	2244.4	269979.6
ANDERSON RANCH	449530.0	226026.0	4526.9	221499.1
LUCKY PEAK	213366.1	200664.0	2949.9	197714.1
ANDERSON LST FIL	500.0	0.0	0.0	0.0
LUCKY PEAK LST FIL	51004.0	0.0	0.0	0.0
TOTAL	986624.1	698914.0	9721.2	689192.8

20130418

TABLE 2. 2013 BOISE RIVER RESERVOIR SPACE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	ANDERSON	LUCKY PEAK	TOTAL
13189600	TRINITY SPRINGS	0.0	800.0	0.0	0.0	0.0	800.0
13199804	OSPREY	0.0	0.0	300.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	200.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	190.0
13201990	F&G INSTREAM	0.0	0.0	50000.0	0.0	0.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	105013.0	0.0	38339.0	143352.0
13203000	NEW YORK	241321.0	351554.0	0.0	0.0	0.0	592875.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	0.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	0.0	0.0	18579.0
13204005	BUBB	0.0	531.0	0.0	0.0	0.0	531.0
13204060	ROSSI MILL	0.0	0.0	300.0	0.0	400.0	700.0
13204190	BOISE CITY	0.0	0.0	700.0	0.0	0.0	700.0
13204200	UNITED WATER	0.0	1000.0	1100.0	0.0	0.0	2100.0
13205515	SETTLERS	2668.0	5675.0	6500.0	0.0	3500.0	18343.0
13205517	FAIRVIEW ACRES	0.0	0.0	1500.0	0.0	0.0	1500.0
13205622	THURMAN MILL	0.0	0.0	800.0	0.0	0.0	800.0
13205640	FARMERS UNION	2779.0	5593.0	8135.0	0.0	1865.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	0.0	0.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	0.0	0.0	0.0	449.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	600.0	0.0	300.0	900.0
13206220	WARM SPRINGS	0.0	0.0	61.5	0.0	33.0	94.5
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13206270	CONWAY-HAMMING	0.0	0.0	27.1	0.0	14.0	41.1
13206292	MACE-CATLIN	0.0	0.0	579.1	0.0	311.0	890.1
13208450	HART-DAVIS	0.0	0.0	303.1	0.0	163.0	466.1
13208710	MIDDLETON	0.0	0.0	8500.0	0.0	2500.0	11000.0
13208740	SEVEN SUCKERS	0.0	0.0	147.3	0.0	79.0	226.3
13209480	PHYLLIS	20326.0	24986.0	16000.0	0.0	0.0	61312.0
13209482	EUREKA #1	0.0	0.0	1800.0	0.0	1000.0	2800.0
13209630	LITTLE PIONEER	0.0	1623.0	0.0	500.0	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	4000.0	0.0	2000.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	0.0	0.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	36956.0	0.0	0.0	0.0	36956.0
TOTAL		272224.0	449530.0	213366.1	500.0	51004.0	986624.1



20130418

TABLE 3. 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK *-----ANDERSON RANCH-----*				*-----LUCKY PEAK-----*			
		STORAGE	CARRYOVER	NEW FLL	STORAGE	CARRYOVER	NEW FILL	STORAGE	
13189600	TRINITY SPRINGS	0.0	786.4	13.6	800.0	0.0	0.0	0.0	
13199804	OSPREY	0.0	0.0	0.0	0.0	251.3	48.7	300.0	
13199924	WILDERNESS RANCH	0.0	0.0	0.0	0.0	177.0	23.0	200.0	
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	0.0	0.0	
13201990	F&G INSTREAM	0.0	0.0	0.0	0.0	25325.6	21543.5	46869.1	
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	55588.6	45247.0	100835.6	
13203000	NEW YORK	241321.0	130913.3	30266.1	161179.4	0.0	0.0	0.0	
13203527	SURPRIS VY/MICRON	0.0	2948.9	51.1	3000.0	0.0	0.0	0.0	
13203760	RIDENBAUGH	3794.0	0.2	1272.9	1273.1	0.0	0.0	0.0	
13204005	BUBB	0.0	522.0	9.0	531.0	0.0	0.0	0.0	
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	280.9	19.1	300.0	
13204190	BOISE CITY	0.0	0.0	0.0	0.0	666.6	33.4	700.0	
13204200	UNITED WATER	0.0	0.0	86.1	86.1	0.0	474.0	474.0	
13205515	SETTLERS	2668.0	1278.4	488.6	1767.0	6500.0	0.0	6500.0	
13205517	FAIRVIEW ACRES	0.0	0.0	0.0	0.0	1159.5	340.5	1500.0	
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	550.4	249.6	800.0	
13205640	FARMERS UNION	2779.0	0.0	481.5	481.5	0.0	3505.1	3505.1	
13205641	BOISE VALLEY	0.0	0.0	80.8	80.8	1883.2	616.8	2500.0	
13205643	CAPITOL VIEW	0.0	215.0	38.7	253.7	0.0	0.0	0.0	
13206090	NEW DRY CREEK	0.0	643.9	109.0	752.9	2973.5	26.5	3000.0	
13206092	NEW UNION	0.0	0.0	0.0	0.0	586.6	13.4	600.0	
13206220	WARM SPRINGS	0.0	0.0	0.0	0.0	30.5	26.5	57.0	
13206265	BALLENTYNE	0.0	0.0	31.6	31.6	786.5	513.5	1300.0	
13206270	CONWAY-HAMMING	0.0	0.0	0.0	0.0	15.7	11.4	27.1	
13206292	MACE-CATLIN	0.0	0.0	0.0	0.0	488.3	90.8	579.1	
13208450	HART-DAVIS	0.0	0.0	0.0	0.0	39.1	130.6	169.7	
13208710	MIDDLETON	0.0	0.0	0.0	0.0	8296.0	204.0	8500.0	
13208740	SEVEN SUCKERS	0.0	0.0	0.0	0.0	126.3	21.0	147.3	
13209480	PHYLLIS	20326.0	15255.2	2151.1	17406.3	15788.4	211.6	16000.0	
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1094.5	705.5	1800.0	
13209630	LITTLE PIONEER	0.0	1280.9	139.7	1420.6	0.0	0.0	0.0	
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	3100.9	899.1	4000.0	
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0	0.0	
99999050	ANDERSON DAM POWER	0.0	5.9	0.1	6.0	0.0	0.0	0.0	
99999080	ANDSN UNCONTRACTED	0.0	36583.8	372.2	36956.0	0.0	0.0	0.0	
TOTAL		272224.0	190433.9	35592.1	226026.0	125709.4	74954.6	200664.0	

20130418

TABLE 3 (CONTINUED). 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	*ANDERSON RANCH LAST FILL * CARRYOVER NEW FILL STORAGE	*-- LUCKY PEAK LAST FILL --* CARRYOVER NEW FILL STORAGE	*----- TOTAL -----*
13189600	TRINITY SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	786.4 13.6 800.0
13199804	OSPREY	0.0 0.0 0.0	0.0 0.0 0.0	251.3 48.7 300.0
13199924	WILDERNESS RANCH	0.0 0.0 0.0	0.0 0.0 0.0	177.0 23.0 200.0
13201050	LUCKY PEAK NURSERY	0.0 0.0 0.0	0.0 0.0 0.0	0.0 190.0 190.0
13201990	F&G INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	25325.6 21543.5 46869.1
13201991	USBR INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	55588.6 45247.0 100835.6
13203000	NEW YORK	0.0 0.0 0.0	0.0 0.0 0.0	130913.3 271587.1 402500.4
13203527	SURPRIS VY/MICRON	0.0 0.0 0.0	0.0 0.0 0.0	2948.9 51.1 3000.0
13203760	RIDENBAUGH	0.0 0.0 0.0	0.0 0.0 0.0	0.2 5066.9 5067.1
13204005	BUBB	0.0 0.0 0.0	0.0 0.0 0.0	522.0 9.0 531.0
13204060	ROSSI MILL	0.0 0.0 0.0	0.0 0.0 0.0	280.9 19.1 300.0
13204190	BOISE CITY	0.0 0.0 0.0	0.0 0.0 0.0	666.6 33.4 700.0
13204200	UNITED WATER	0.0 0.0 0.0	0.0 0.0 0.0	0.0 560.0 560.0
13205515	SETTLERS	0.0 0.0 0.0	0.0 0.0 0.0	7778.4 3156.6 10935.0
13205517	FAIRVIEW ACRES	0.0 0.0 0.0	0.0 0.0 0.0	1159.5 340.5 1500.0
13205622	THURMAN MILL	0.0 0.0 0.0	0.0 0.0 0.0	550.4 249.6 800.0
13205640	FARMERS UNION	0.0 0.0 0.0	0.0 0.0 0.0	0.0 6765.6 6765.6
13205641	BOISE VALLEY	0.0 0.0 0.0	0.0 0.0 0.0	1883.2 697.6 2580.8
13205643	CAPITOL VIEW	0.0 0.0 0.0	0.0 0.0 0.0	215.0 38.7 253.7
13206090	NEW DRY CREEK	0.0 0.0 0.0	0.0 0.0 0.0	3617.4 135.5 3752.9
13206092	NEW UNION	0.0 0.0 0.0	0.0 0.0 0.0	586.6 13.4 600.0
13206220	WARM SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	30.5 26.5 57.0
13206265	BALLENTYNE	0.0 0.0 0.0	0.0 0.0 0.0	786.5 545.1 1331.6
13206270	CONWAY-HAMMING	0.0 0.0 0.0	0.0 0.0 0.0	15.7 11.4 27.1
13206292	MACE-CATLIN	0.0 0.0 0.0	0.0 0.0 0.0	488.3 90.8 579.1
13208450	HART-DAVIS	0.0 0.0 0.0	0.0 0.0 0.0	39.1 130.6 169.7
13208710	MIDDLETON	0.0 0.0 0.0	0.0 0.0 0.0	8296.0 204.0 8500.0
13208740	SEVEN SUCKERS	0.0 0.0 0.0	0.0 0.0 0.0	126.3 21.0 147.3
13209480	PHYLLIS	0.0 0.0 0.0	0.0 0.0 0.0	31043.6 22688.7 53732.3
13209482	EUREKA #1	0.0 0.0 0.0	0.0 0.0 0.0	1094.5 705.5 1800.0
13209630	LITTLE PIONEER	0.0 0.0 0.0	0.0 0.0 0.0	1280.9 139.7 1420.6
13209990	CANYON COUNTY	0.0 0.0 0.0	0.0 0.0 0.0	3100.9 899.1 4000.0
13210992	SEBREE	0.0 0.0 0.0	0.0 0.0 0.0	0.0 1146.0 1146.0
99999050	ANDERSON DAM POWER	0.0 0.0 0.0	0.0 0.0 0.0	5.9 0.1 6.0
99999080	ANDSN UNCONTRACTED	0.0 0.0 0.0	0.0 0.0 0.0	36583.8 372.2 36956.0
TOTAL		0.0 0.0 0.0	0.0 0.0 0.0	316143.3 382770.7 698914.0

20130418

TABLE 4. 2013 BOISE RIVER RESERVOIR NET STORAGE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	SUBTOTAL	TRANSFERS	RNT POOL	TOTAL AFTER LOSS	
13189600	TRINITY SPRINGS	0.0	784.0	0.0	784.0	0.0	0.0	784.0	778.5
13199804	OSPREY	0.0	0.0	295.6	295.6	0.0	0.0	295.6	293.5
13199924	WILDERNESS RANCH	0.0	0.0	197.1	197.1	0.0	0.0	197.1	195.7
13201050	LUCKY PEAK NURSERY	188.4	0.0	0.0	188.4	0.0	0.0	188.4	187.1
13201990	F&G INSTREAM	0.0	0.0	46180.1	46180.1	0.0	0.0	46180.1	46180.1
13201991	USBR INSTREAM	0.0	0.0	99353.2	99353.2	0.0	0.0	99353.2	99353.2
13203000	NEW YORK	239331.4	157951.3	0.0	397282.7	0.0	0.0	397282.7	394501.7
13203527	SURPRIS VY/MICRON	0.0	2939.9	0.0	2939.9	0.0	0.0	2939.9	2919.3
13203760	RIDENBAUGH	3762.7	1247.6	0.0	5010.3	0.0	0.0	5010.3	4975.2
13204005	BUBB	0.0	520.4	0.0	520.4	0.0	0.0	520.4	516.7
13204060	ROSSI MILL	0.0	0.0	295.6	295.6	0.0	0.0	295.6	293.5
13204190	BOISE CITY	0.0	0.0	689.7	689.7	0.0	0.0	689.7	684.9
13204200	UNITED WATER	0.0	84.4	467.0	551.4	0.0	1500.0	2051.4	2037.0
13205515	SETTLERS	2646.0	1731.6	6404.4	10782.0	0.0	0.0	10782.0	10706.6
13205517	FAIRVIEW ACRES	0.0	0.0	1477.9	1477.9	0.0	0.0	1477.9	1467.6
13205622	THURMAN MILL	0.0	0.0	788.2	788.2	0.0	0.0	788.2	782.7
13205640	FARMERS UNION	2756.1	471.9	3453.6	6681.6	0.0	0.0	6681.6	6634.8
13205641	BOISE VALLEY	0.0	79.2	2463.2	2542.5	0.0	-1500.0	1042.5	1035.2
13205643	CAPITOL VIEW	0.0	248.6	0.0	248.6	0.0	0.0	248.6	246.8
13206090	NEW DRY CREEK	0.0	737.8	2955.9	3693.7	0.0	0.0	3693.7	3667.9
13206092	NEW UNION	0.0	0.0	591.2	591.2	0.0	0.0	591.2	587.0
13206220	WARM SPRINGS	0.0	0.0	56.2	56.2	0.0	0.0	56.2	55.8
13206265	BALLENTYNE	0.0	31.0	1280.9	1311.9	0.0	0.0	1311.9	1302.7
13206270	CONWAY-HAMMING	0.0	0.0	26.7	26.7	0.0	0.0	26.7	26.5
13206292	MACE-CATLIN	0.0	0.0	570.6	570.6	0.0	0.0	570.6	566.6
13208450	HART-DAVIS	0.0	0.0	167.2	167.2	0.0	0.0	167.2	166.0
13208710	MIDDLETON	0.0	0.0	8375.0	8375.0	0.0	0.0	8375.0	8316.4
13208740	SEVEN SUCKERS	0.0	0.0	145.1	145.1	0.0	0.0	145.1	144.1
13209480	PHYLLIS	20158.4	17057.7	15764.8	52980.9	0.0	0.0	52980.9	52610.0
13209482	EUREKA #1	0.0	0.0	1773.5	1773.5	0.0	0.0	1773.5	1761.1
13209630	LITTLE PIONEER	0.0	1392.2	0.0	1392.2	0.0	0.0	1392.2	1382.4
13209990	CANYON COUNTY	0.0	0.0	3941.2	3941.2	0.0	0.0	3941.2	3913.6
13210992	SEBREE	1136.6	0.0	0.0	1136.6	0.0	0.0	1136.6	1128.6
99999050	ANDERSON DAM POWER	0.0	5.9	0.0	5.9	0.0	0.0	5.9	5.9
99999080	ANDSN UNCONTRACTED	0.0	36215.8	0.0	36215.8	0.0	0.0	36215.8	36215.8
TOTAL		269979.6	221499.1	197714.1	689192.8	0.0	0.0	689192.8	685640.9

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57		57
58		58
59		59
60		60

(email sent 5/21/2013 8:11 AM) to Liz Cresto and David Hoekema

Liz,

Yesterday UWI was able to lease 2000 af from the following space holders.

Canyon County Water Company (Canyon County Ditch) 1000 af

Middleton Irrigation Assoc. 500 af

Middleton Mill Ditch Company 500 af.

Both Middleton's are thru the Middleton Canal.

This is all from Lucky Peak.

Thanks,

Rex R. Barrie

Boise River Watermaster

Nov 1 Restart

Date: \_\_\_\_\_  
Accounting Begin Date: \_\_\_\_\_  
Accounting End Date: \_\_\_\_\_

**Check List:**

Download USBR Data	✓
Review USBR for Missing Data	✓
Get ID Power Data and Enter on Website (check for shift changes)	✓
Download Water Master Data	✓
Download USGS Data	✓
Load NAL	
Post Report To Websites (including ALC and HST)	
Update Fish Flows	

**Notes:**

USG missing  
13185000 1/8 - 12/9  
13186000 11/19 - 11/27, 1/12 - 1/24 } Used hydromet  
1320000 12/19 - 2/18  
13213000 1/18 - 1/23

- Added USBR fish (140 cfs) 11/1 - 3/15 + F+G fish (80 cfs) 11/1 - 3/15
- Thurman Drain interpolated data 11/1 - 12/31 0 cfs - It probably wasn't 0 cfs but no measurements and the data doesn't impact accounting this time of year.
- Drainage District #3 - same as Thurman drain - added 0 cfs 11/1 - 12/31

Untitled

C----SECTION 2-1, PART 5

C\*\*\*\*SET MAXIMUM STORAGE POSSIBLE FOR EACH RESERVOIR STORAGE RIGHT,

C\*\*\*\*UNITS ARE ACRE-FEET.

C

DATA RST/260624.,11600.,449530.,223019.,500,41351.,0.0/ !v1.8PC

C DATA RST/260624.,11600.,448830.,207475.,0,56895.,1200.0/ !v1.7PC

C DATA RST/260624.,11600.,449590.,207298.,440.,57072.,0./ !v1.6PC

C DATA RST/260624.,11600.,441147.1,219317.9,2879.9,45052.1,6003.0/ !v1.4PC

C DATA RST/260624.,11600.,413770.4,223071.0,36259.6,41299.0/

C THE OLD ONE IS THE FOLLOWING.

C DATA RST/260624.,11600.,413770.4,220366.0,36259.6,44004.0/

C WEIMIN LI 6/20/2006

C DATA RST/260624.,11600.,453030.,264370./

C WEIMIN LI 6/26/2002

→ Data RST/260<sup>624</sup>~~264~~.,11600.,449530.,213366.,500.,51004.,0.0/

Lucky Peak LTF	Anderson LTF
- USBR 38,339	- Little Pioneer 500
- Eureka 1,000	
- Settlers 3,500	
- Canyon County 2,000	
- Eagle Island 600	
- New Union 300	
- Rossi 400	
- Little Pioneer 500	
- Middleton 2500	
- Farmers Union 1865	
Total 51,004 AF	500 AF

Total Content

986624



Changes made by DJH  
2/26

Untitled

120 FORMAT(24X,47HCONTENT USED STORED STORED STORED,

1 15X,25HTOTAL EARLY SEASON FILL -,8X,F12.1)

WRITE(OUT,121) GT(1),TT(9),(GT(L),L=2,4),ISTP(ISTEW),IBRP(IBRYAN)

121 FORMAT(/21H YEAR-TO-DATE AF ,5F10.1,15X,16HSTEWART DECREE -,

1 I4,1H%,5X,14HBRYAN DECREE -,I4,1H%)

C ADDING THE DEAD STORAGE

TT(12)=TT(12)+~~39960~~ 36,924

C ADDING THE DEAD STORAGE

Date: 2/28/2013  
Accounting Begin Date: February 16 Nov 1<sup>st</sup>  
Accounting End Date: February 27

**Check List:**

Download USBR Data ✓  
Review USBR for Missing Data ✓  
Get ID Power Data and Enter on Website (check for shift changes) ✓ (I checked that last value was still the same, as during the previous run)  
Download Water Master Data ✓  
Download USGS Data ✓ (NWIS = USGS)  
Load NAL ✓  
Post Report To Websites (including ALC and HST) ✓  
Update Fish Flows

**Notes:**

1320000 USGS missing 2/1 - 2/19 - used hydromet  
2/4 & 2/5 missing hydromet - interpolated

Date: 3/21/2013  
Accounting Begin Date: Nov 1<sup>st</sup> Feb 28<sup>th</sup>  
Accounting End Date: 3/18/2013  
18

**Check List:**

Download USBR Data ✓  
Review USBR for Missing Data ✓  
Get ID Power Data and Enter on Website (check for shift changes) ✓ (need to check for shift)  
Download Water Master Data ✓  
Download USGS Data ✓  
Load NAL ✓  
Post Report To Websites (including ALC and HST) ✓  
Update Fish Flows n/a

**Notes:**

Date: 4/01/2013  
Accounting Begin Date: 3/19/2013  
Accounting End Date: 3/31/2013

David Hoekema

**Check List:**

Download USBR Data ☒

Review USBR for Missing Data ☒

Get ID Power Data and Enter on Website (check for shift changes) ☒ no shift change

Download Water Master Data ☒

Download USGS Data ☒

Load NAL ☒

Post Report To Websites (including ALC and HST) Liz completed this portion

Update Fish Flows n/a

**Notes:**

Date: 4/18/2013  
Accounting Begin Date: 4/1/2013  
Accounting End Date: 4/18/2013  
4/8/2013

David Hoekema

VOID  
(see next page)

**Check List:**

Download USBR Data ☒

Review USBR for Missing Data ☒

Get ID Power Data and Enter on Website (check for shift changes) ☒ no shift change (N.Y. Middleton)

Download Water Master Data ☒ " (missing some data)

Download USGS Data ☒ "

Load NAL

Post Report To Websites (including ALC and HST)

Update Fish Flows

**Notes:**

All input data is labelled with a 4.

DJH

Date: 4/11/2013  
 Accounting Begin Date: 1/11/2012  
 Accounting End Date: 4/08/2012

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website (check for shift changes) ✓ (no shift changes)  
 Download Water Master Data ✓  
 Download USGS Data ~~file~~ (reloaded & ran all USGS data)  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST)  
 Update Fish Flows ✓ (zeroed out fish flows from 4/1 - 4/8)

**Notes:**

Rex updated some missing diversions, I updated missing New York Canal Data

Date: 4/17/2013  
 Accounting Begin Date: 4/09/2013 3/25/2013  
 Accounting End Date: 4/15/2013  
 15

DJH

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website (check for shift changes) Middleton + New York Canal  
 Download Water Master Data ✓  
 Download USGS Data ✓  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) (Need to talk to Tuttle) ✓✓  
 Update Fish Flows USBR fish flow 0 F+G (0)

**Notes:**

Appears to be a shift change on the New York Canal. Emailed Carl @ Idaho Power to verify. Rerun accounting to 3/25.

- ☒ verified 4/17 email date (a notice was sent out 4/10, that I missed)
- ☐ We are seeing a strange decline of 0.5 ac-ft of accumulated storage in Lucky Peak, since ~~the~~ April 11<sup>th</sup>. This needs to be tracked in the ~~coming~~ next ~~after~~ accounting run.

Date: 4/19/2013  
 Accounting Begin Date: 4/18/2013  
 Accounting End Date: 4/18/2013

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) Middleton, New York, USBR, F&G

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓ Publish ALC HST

Post Report To Websites (including ALC and HST)

Update Fish Flows ✓ (0) USBR (0) F&amp;G

**Notes:**

Meeves + United Water + Microm + WR + K Albertson (missing)

Date: 4/23/13  
 Accounting Begin Date: 4/18/13  
 Accounting End Date: 4/22/13

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST) ✓

Update Fish Flows N/A**Notes:**

USGS: 13190500 4/23/13 missing, used USBR data (SF Anderson Ranch)

Run #8

Date: 4/30/2013  
 Accounting Begin Date: 4/15/2013  
 Accounting End Date: 4/29/2013

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) NY, Middleton, USBR, F+G

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST) ALC ✓ HST ✓ WRA.pdf

Update Fish Flows ✓ 0

**Notes:**

missing data: Wilderness Ranch, Shakespeare, Herrick, Surprise/Micron, United Water

Date: ~~4/11/2013~~ 5/7/2013  
 Accounting Begin Date: 4-11-2013  
 Accounting End Date: 5/6/2013

Run #9

**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website (check for shift changes) ✓

Download Water Master Data ✓

Download USGS Data ✓

Load NAL ✓

Post Report To Websites (including ALC and HST) ALC ✓ HST ✓

Update Fish Flows ✓ 0,0

**Notes:**

Born1 Shift to 3/22/13.

NYC zero 4/29 - 4/30.

Code changed so that Pioneer Dixie is taken out of accounting. Since Pioneer Dixie diverts from Riverside. Riverside & Pioneer Dixie RTS are combined.

**Cresto, Liz**

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**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Tuesday, May 21, 2013 8:11 AM  
**To:** Cresto, Liz; Hoekema, David  
**Subject:** United Water

Liz,

Yesterday UWI was able to lease 2000 af from the following space holders.  
Canyon County Water Company (Canyon County Ditch) 1000 af  
Middleton Irrigation Assoc. 500 af  
Middleton Mill Ditch Company 500 af.  
Both Middleton's are thru the Middleton Canal.

This is all from Lucky Peak.

Thanks,

Rex R. Barrie  
Boise River Watermaster

Run #10  
David H

Date: 5/14/2013  
Accounting Begin Date: ~~4/2~~ 1/11/2013  
Accounting End Date: 5/13/2013

**Check List:**

Download USBR Data ✓  
Review USBR for Missing Data ✓  
Get ID Power Data and Enter on Website ✓  
New York Canal ✓  
Middleton (check for shift change) ✓  
Download Watermaster Data ✓  
Download USGS Data ✓  
Load NAL ✓  
Post Report To Websites (including ALC and HST) ✓  
Update Fish Flows 0.0

**Notes:**

Errors were found in the way the data is transferred from water master records into the database. This error impact New Dry Creek & New Union

Date: 5/21/2013  
Accounting Begin Date: ~~5/01/2013~~ 4/15/2013  
Accounting End Date: 5/20/2013

Run #11  
David H

**Check List:**

Download USBR Data ✓  
Review USBR for Missing Data ✓  
Get ID Power Data and Enter on Website ✓  
New York Canal ✓  
Middleton (check for shift change) ✓ no shift change noted  
Download Watermaster Data ✓  
Download USGS Data ✓  
Load NAL ✓  
Post Report To Websites (including ALC and HST) ALC ✓ HST ✓  
Update Fish Flows N/A

**Notes:** May 13 AND 258,228.8 May 20 AND 289,717.3 ΔS AND 31,488.5 ac-ft  
LUC 205,158.7 LUC 211,778.3 6,619.6 ac-ft

The model was run from 4/15 to correct database errors.



Date: 5/23/13  
 Accounting Begin Date: 5/18/13  
 Accounting End Date: 5/20/13

**Check List:**

Download USBR Data	
Review USBR for Missing Data	X
Get ID Power Data and Enter on Website	✓
New York Canal	✓
Middleton (check for shift change)	✓
Download Watermaster Data	X
Download USGS Data	X
Load NAL	✓
Post Report To Websites (including ALC and HST)	✓
Update Fish Flows	✓

Notes: Bomi Shift to 5/19/13

Date: 5/28/2013  
 Accounting Begin Date: 5/01/2013  
 Accounting End Date: 5/27/2013

**Check List:**

Download USBR Data	✓
Review USBR for Missing Data	✓
Get ID Power Data and Enter on Website	
New York Canal	✓
Middleton (check for shift change)	✓ updated from 5/1/2013
Download Watermaster Data	✓
Download USGS Data	✓
Load NAL	✓
Post Report To Websites (including ALC and HST)	✓
Update Fish Flows	N/A

Notes: Middleton flows updated from 5/01. The Middleton shift was applied back to 5/1

Date: 6/3/2013Accounting Begin Date: 5-15-2013Accounting End Date: 6-02-2013**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website

New York Canal ✓

Middleton (check for shift change) ✓

Download Watermaster Data ✓

Download USGS Data ✓

Load NAL

Post Report To Websites (including ALC and HST)

Update Fish Flows

**Notes:**

Shift changed appeared to be corrected to mid-week

✓ check shift change tomorrow  
shift change occurredDate: 6/4/2013Accounting Begin Date: 11-01-2013Accounting End Date: 6-02-2013**Check List:**

Download USBR Data ✓

Review USBR for Missing Data ✓

Get ID Power Data and Enter on Website

New York Canal ✓

Middleton (check for shift change) ✓

Download Watermaster Data ✓

Download USGS Data

Load NAL

Post Report To Websites (including ALC and HST) ✓✓ ☐ Hold off on post until Liz reviews

Update Fish Flows

**Notes:** Reviewed Hydromet + USGS data

Two runs

11-01-2013 [BOICAN11-1-2012.IND] [~~BOISYS\_4-01-2013~~] [BOISYS11-01-12.IND]

to

3-31-2013

11-01-2013 [BOICAN\_5-30-2013.IND] [BOISYS\_4-01-2013.IND]

6-02-2013

## Hoekema, David

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**From:** Cresto, Liz  
**Sent:** Tuesday, June 04, 2013 8:31 AM  
**To:** Hoekema, David  
**Subject:** Boise Restart

David,

I put some more thought into the Boise restart and how it should be done. The restart should occur on April 1 (not Nov 1 as I said yesterday). United Water's allocation will be last year's unused rental pool (336.4 AF) plus their 2013 allocation (4696.6 AF) less their storage use on March 31 (1983 AF). That equates to an allocation of 3050 AF and that's what should go into the CAN.IND. Surprise Valley/Micron also used storage water over the winter. Their allocation on April 1 is the 2013 allocation (2933.8 AF) less the use (433 AF) for a total of 2500.8 AF.

The SYS.IND will have to be reset to match the paper fill volumes on March 31.

The Boise Parks rented 40A from Capitol View. I'd split the that up between Williams, K Albertson, and Ann Morrison. We can make adjustments to the exact distribution of the 40 AF later in the year if need be.

Liz

Liz Cresto  
Technical Hydrologist  
Idaho Department of Water Resources  
208-287-4833  
[liz.cresto@idwr.idaho.gov](mailto:liz.cresto@idwr.idaho.gov)

	<div style="border: 1px solid black; padding: 2px; display: inline-block;">40</div>
29.8 K Albertsons 2012	8
129.1 Williams Park 2012	32
0 Ann Morrison 2012	0
158.9	(2013)

Capital View  
276.5

**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Wednesday, June 05, 2013 6:50 AM  
**To:** Cresto, Liz  
**Subject:** Tim Page; Bob Carter  
Transfer of Water

Liz,

Yesterday, 06/04/2013 Canyon County Water Company officially transferred 1000 acre feet to the New York Canal for Kelly and Vicky Kramer.

Tim is aware of this and will adjust on his end.

Can you please credit Boise Project (New York Canal) with 1000 AF.

Rex R. Barrie  
Boise River Watermaster

**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Wednesday, June 05, 2013 7:06 AM  
**To:** Cresto, Liz  
**Subject:** Rental pool

Liz,

Here is my breakdown for the 2013 Rental Pool so far.

United Water has leased:

1500 af from Boise Valley Irrigation Ditch Co.

1000 af from Canyon County Water Co. (Canyon County Ditch)

1000 af from Middleton Canal, (1/2 from Middleton Mill and 1/2 from Middleton Irrigation)

Capital View has placed all of their water in the pool again. (depending on how much they get) and the following have leased from them.

Parks and Rec. 40 af

Mining 37 af

Miss. User's 138 af

Canyon County Landfill 28 af. ( this is diverted at the New York Canal so they should get another 28 af credit.)  
(243 af total)

*in Sb Report under Boise R water bank*  
*Capital View Allocation 325.2*  
*To Rental Pool - 279*  
*46.2*

I have others who will lease if water comes available. I will let you know if and when!

Call me if this is not clear as mud!! :-)

Rex R. Barrie  
Boise River Watermaster

**Cresto, Liz**

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Wednesday, June 05, 2013 7:26 AM  
**To:** Cresto, Liz  
**Subject:** Rental Pool

Liz,

I forgot to add Riverside Village. They leased 36 af from Capital View.

This should be 279 af from CVID. I see they have 325.7 so I will not lease anymore from them unless they fill to cover any loss at the end of the season.

Rex R. Barrie  
Boise River Watermaster

Date: 6/10/13  
Accounting Begin Date: 5/1/2013  
Accounting End Date: 6/2/2013

**Check List:**

Download USBR Data	x
Review USBR for Missing Data	x
Get ID Power Data and Enter on Website	x
New York Canal	x
Middleton (check for shift change)	✓
Download Watermaster Data	✓
Download USGS Data	x
Load NAL	✓
Post Report To Websites (including ALC and HST)	
Update Fish Flows	

**Notes:**

BOMI - Shift to 5/1/13 - this change the storage rights accrual.

Reran the Storage report to update transfers. Also increased evaporation estimates. Decided on 15,000AF as a good estimate.

Date: 6/11/2013  
Accounting Begin Date: 4/01/2013  
Accounting End Date: 6/10/2013

#18

**Check List:**

Download USBR Data	✓
Review USBR for Missing Data	✓
Get ID Power Data and Enter on Website	
New York Canal	✓
Middleton (check for shift change)	✓
Download Watermaster Data	✓
Download USGS Data	✓
Load NAL	✓
Post Report To Websites (including ALC and HST)	Placed sheets 6/1-6/10 online
Update Fish Flows	N/A

**Notes:**

4/28/2013 Corrected flows in Mores Creek back to April 28<sup>th</sup> by redownloading all USGS to that point. Appears a shift was applied

**From:** Rex Barrie [<mailto:waterdistrict63@qwestoffice.net>]

**Sent:** Wednesday, June 12, 2013 10:24 AM

**To:** Cresto, Liz

**Subject:** RE: Rental Pool

I will give the best break down I can.

Little Pioneer assigned 1000 af to the pool. ✓

Capital View 320 af.

New Union 200 af.

From Little Pioneer, 1000 to Boise Project.

From New Union, 50 to Boise Project,, 36 to Riverside Village, 40 to Boise Parks and Rec., & 74 miss. Users. (mining and etc.) total 200 af.

From Capital View, 124 for miss. users. ( Thomas Aiken will be in tomorrow to lease 100 af from Capital View. I will let you know when it is official))

Canyon County Ditch, 1000 af to Boise Project. ✓

Canyon County Ditch, 1000 af to United Water. ✓

Middleton, 1000 af to United Water. ✓

Boise Valley, 1500 to United Water. ✓

That should be the current activity to date.

Rex R. Barrie

Boise River Watermaster

Little Pioneer - 2000  
Capital View ~~320~~ - 444  
New Union - 400  
~~Users~~ - 200





State of Idaho

## DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

GARY SPACKMAN  
Director

C.L. "BUTCH" OTTER  
Governor

June 13, 2013

IDAHO POWER  
PO BOX 70  
BOISE ID 83707

**RE: RENTAL OF WATER FROM THE WATER SUPPLY BANK  
WATER RIGHT NO. 63-179C**

Dear Renter:

Please find enclosed a receipt in the amount of **\$ 33,000.00** and a copy of a fully executed Water Supply Bank Rental Agreement in connection with the rental of 2500.0 acre-feet of water for power use during year 2013. Upon receipt of this fully executed agreement, you are authorized to divert water in compliance with the conditions of water use described in the agreement.

Pursuant to the Water Supply Bank Rules, 90% or \$29,700.00 of the rental fee will be paid to the lessor and 10% or \$3,300.00 will be retained by the Department for administrative costs.

If you have any questions, please feel free to contact me at (208) 287-4949.

Sincerely,

Nicholas Van Dyke  
Sr. Water Resource Agent

Enclosure(s):      Receipt No. C097297  
                         Rental Agreement (copy)

c:      Sascha Marston – Fiscal  
         John Westra – IDWR Western Regional Office  
         Rex Barrie – Watermaster, State Water District No. 63  
         Martin Galvin – Mason Creek Ditch Co.  
         Liz Cresto – IDWR State Office

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**WATER SUPPLY BANK RENTAL AGREEMENT**

**RECEIVED****JUN 12 2013****DEPT OF WATER RESOURCES**

This is to certify that: IDAHO POWER  
PO BOX 70  
BOISE ID 83707  
(208) 388-2905

filed an application to rent water from the Water Supply Bank ("Bank"). The Idaho Water Resource Board ("Board") being authorized to operate a Bank and to contract by and through the Director of the Idaho Department of Water Resources ("Director, Department") for rental of water from the Bank agrees to rent water as follows:

**Summary of Water Rights or Portions Rented from the Bank**

Water Right	Rented Rate	Annual Rented Volume	Total Rented Acres
63-179C	8.40 CFS	2500.0 AF	NA

**COMBINED****RENTAL TOTALS:****8.40 CFS****2500.0 AF****NA****TERM OF RENTAL:**June 7, 2013, to October 31, 2013**RENTAL FEE:****\$33,000.00**

The fee for rental of the above-described water is \$33,000.00 \$3,300.00 will go to the Department for administrative costs and the remainder will be paid to the lessor. An annual payment shall be received by the Department prior to April 1, the beginning of the irrigation season, each year for the duration of the rental period. The agreement will be void if payment is not received prior to the due date in a given year. To terminate the agreement prior to the end of the rental period, written notice must be received by the Department at least 30 days prior to the rental fee due date.

Detailed water right specific limitations and conditions attached.

The undersigned renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described in this agreement:

Dated this 12 day of June, 2013.

By: Jonathon C. Bowling  
(Print Name)

(Signature)

ENGINEERING Leader  
(Title if on behalf of company or organization)

Having determined that this agreement satisfies the provisions of Idaho Code § 42-1763 and IDAPA 37.02.03.030 (Water Supply Bank Rule 30), for the rental and use of water under the terms and conditions herein provided, and none other, I hereby execute this Rental Agreement on behalf of the Idaho Water Resource Board this 13<sup>th</sup> day of June, 2013.

Brian Patton  
BRIAN PATTON, Acting Administrator  
Idaho Water Resource Board

**WATER RIGHT NO. 63-179C**  
**WATER SUPPLY BANK RENTAL AGREEMENT**

The renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described below:

**Renter:** IDAHO POWER  
 PO BOX 70  
 BOISE ID 83707  
 (208) 388-2905

**Priority Date:** 06/01/1869

**Source:** BOISE RIVER

**Tributary to:** SNAKE RIVER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
POWER	06/07	to 10/31	8.40 CFS	2500.0 AF
	<b>Total:</b>		<b>8.40 CFS</b>	<b>2500.0 AF</b>

**LOCATION OF RENTER'S POINT(S) OF DIVERSION:**

SNAKE RIVER SE¼SE¼ Gov Lt.3 Sec. 2 Twp 17N Rge 5W WASHINGTON County

**RENTER'S PLACE OF USE:** POWER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
17N	05W	2																X	
																		L3	

**CONDITIONS OF WATER USE**

1. The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
2. The water rented under this agreement is appurtenant to irrigation of 580 acres.
3. Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in any other department application process.
4. Use of water under this agreement does not constitute a dedication of the water to renter's place of use and upon expiration of this agreement, the points of diversion and place of use of the water shall revert to those authorized under the water right and/or again be available to rent from the bank.
5. This rental does not grant any right-of-way or easement to use the diversion works or conveyance works of another party.
6. Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
7. Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
8. Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.

**WATER RIGHT NO. 63-179C  
WATER SUPPLY BANK RENTAL AGREEMENT**

**CONDITIONS OF WATER USE**

9. Renter acknowledges and agrees that the Director may terminate diversion of water if the Director determines there is not a sufficient water supply for the priority of the right or portion thereof being rented.
10. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
11. Use of water under this agreement 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.



State of Idaho

## DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

GARY SPACKMAN  
Director

C.L. "BUTCH" OTTER  
Governor

June 10, 2013

IDAHO POWER  
PO BOX 70  
BOISE ID 83707

**RE: APPLICATION TO RENT WATER FROM THE WATER SUPPLY BANK  
WATER RIGHT NO. 63-179C**

Dear Renter:

The Department of Water Resources acknowledges receipt of your application to rent water from the Water Supply Bank. I have enclosed a Water Supply Bank Rental Agreement for your review and signature. Upon signature and return of the original agreement the Department will also sign the original agreement and return an executed copy to you. Execution of the agreement and compliance with the conditions of approval authorize diversion and use of water as provided in the agreement.

A rental fee of **\$33,000.00** was calculated based on the negotiated rental rate \$13.20 per acre-foot times a diversion volume of 2500.0 acre-feet. An annual payment was received by the Department prior to the execution of this agreement. If you would like to terminate the agreement prior to the end of the rental period, you must submit written notice of your intent to the Department at least 30 days prior to the rental fee due date.

Pursuant to the Water Supply Bank Rules, 90% or \$29,700.00 of the rental fee will be paid to the lessor and 10% or \$3,300.00 will be retained by the Department to offset administrative costs. If you have any questions, please contact me at (208) 287-4949.

Sincerely,

Nicholas Van Dyke  
Sr. Water Resource Agent

Enclosure(s)  
Receipt Number: C097297

c: IDWR Front Desk  
John Westra – IDWR Western Regional Office  
Rex Barrie – Watermaster, Water District No. 63  
Liz Cresto – IDWR State Office

BRIAN PATTON, Acting Administrator  
Idaho Water Resource Board

## WATER RIGHT NO. 63-179C WATER SUPPLY BANK RENTAL AGREEMENT

The renter agrees to use the water rented under this agreement in accordance with the Water Supply Bank rules and in compliance with the limitations and conditions of use described below:

**Renter:** IDAHO POWER  
PO BOX 70  
BOISE ID 83707  
(208) 388-2905

**Priority Date:** 06/01/1869

**Source:** BOISE RIVER

**Tributary to:** SNAKE RIVER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
POWER	06/07 to	10/31	8.40 CFS	2500.0 AF
	<b>Total:</b>		<b>8.40 CFS</b>	<b>2500.0 AF</b>

**LOCATION OF RENTER'S POINT(S) OF DIVERSION:**

SNAKE RIVER SE¼SE¼ Gov Lt.3 Sec. 2 Twp 17N Rge 5W WASHINGTON County

**RENTER'S PLACE OF USE:** POWER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
17N	05W	2																	X
																			L3

### CONDITIONS OF WATER USE

1. The use of water under this agreement shall be subject to the provisions of Idaho Code § 42-1766.
2. The water rented under this agreement is appurtenant to irrigation of 580 acres.
3. Rental of the specified right from the bank does not, in itself, confirm the validity of the right or any elements of the water right, or improve the status of the right including the notion of resumption of use. It does not preclude the opportunity for review of the validity of this water right in any other department application process.
4. Use of water under this agreement does not constitute a dedication of the water to renter's place of use and upon expiration of this agreement, the points of diversion and place of use of the water shall revert to those authorized under the water right and/or again be available to rent from the bank.
5. This rental does not grant any right-of-way or easement to use the diversion works or conveyance works of another party.
6. Use of water under this agreement shall not prejudice any action of the Department in its consideration of an application for transfer or permit filed by the applicant for this same use.
7. Renter agrees to comply with all applicable state and federal laws while using water under this agreement.
8. Renter agrees to hold the Board, the Director and the state of Idaho harmless from all liability on account of negligent acts of the renter while using water.

**WATER RIGHT NO. 63-179C  
WATER SUPPLY BANK RENTAL AGREEMENT**

**CONDITIONS OF WATER USE**

9. Renter acknowledges and agrees that the Director may terminate diversion of water if the Director determines there is not a sufficient water supply for the priority of the right or portion thereof being rented.
10. Failure of the renter to comply with the conditions of this agreement is cause for the Director to rescind approval of the rental agreement.
11. Use of water under this agreement 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.



Date: 6/17/2013  
 Accounting Begin Date: 4/01/2013  
 Accounting End Date: 6/14/2013

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website  
 New York Canal (Shift change back to 5/06)  
 Middleton (check for shift change)  
 Download Watermaster Data ✓  
 Download USGS Data ✓  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓ ✓  
 Update Fish Flows

**Notes:**


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Date: 6/20/13  
 Accounting Begin Date: 6/14/13  
 Accounting End Date: 6/19/13

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website  
 New York Canal ✓  
 Middleton (check for shift change) ✓ None  
 Download Watermaster Data ✓  
 Download USGS Data ✓  
 Load NAL  
 Post Report To Websites (including ALC and HST) ✓  
 Update Fish Flows NA

**Notes:**

A measurement was made today at Boise River Middleton. Aquatic vegetation at this location continues to grow.

6/20/2013 13:00 MDT

Q = 247 cfs

Stage = 0.69ft

Shift = -0.19ft

The previous shift found on 6/3/2013 was -0.05 ft

Please update the Hydromet with this information.

Thank you,

Carl

**Carl Rundberg**

HYDROLOGIST

Idaho Power | Water and Resources Planning

Work 208.388.5935

Mobile 208.921.4372

Email [crundberg@idahopower.com](mailto:crundberg@idahopower.com)

Date: 6/25  
 Accounting Begin Date: 4/01  
 Accounting End Date: 6/24

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website  
 New York Canal ✓  
 Middleton (check for shift change) *Adjust by shift change 6/04* ✓  
 Download Watermaster Data ✓  
 Download USGS Data  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓✓ *Load WRA RPT*  
 Update Fish Flows

**Notes:**


---

Date: 7/2/2013  
 Accounting Begin Date: \_\_\_\_\_  
 Accounting End Date: \_\_\_\_\_

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website  
 New York Canal ✓  
 Middleton (check for shift change) ✓  
 Download Watermaster Data ✓  
 Download USGS Data ✓  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓✓  
 Update Fish Flows

**Notes:**

## Hoekema, David

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Wednesday, July 10, 2013 10:23 AM  
**To:** Hoekema, David  
**Subject:** Thomas Aiken,

David,

FYI Thomas Aiken leased 100 af from the pool.  
The WRA show them with -49 can you adjust this next time around?

I will try and get you an updated Rental Pool list this week.

Rex R. Barrie  
Boise River Watermaster

Date: 7/09/13  
 Accounting Begin Date: 6/16/2013  
 Accounting End Date: 7/08/2013

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website  
 New York Canal ✓  
 Middleton (check for shift change) ✓ (no shift)  
 Download Watermaster Data ✓  
 Download USGS Data ✓  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓✓  
 Update Fish Flows N/A

**Notes:** Bruce is still trying to correct the Boise Valley + Capital View ~~storage~~ WRA calcs.  
 Those numbers are incorrect.  
 The WRA was rerun on 7/10 starting at 4/1 and resetting reservoirs. This  
 fixed the problem of not loading BV & CV reservoir ~~content~~ accounts.

Date: 7/09/13 7/15/13  
 Accounting Begin Date: 4/1/2013  
 Accounting End Date: 7/14/2013

# 24

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website ✓  
 New York Canal ✓  
 Middleton (check for shift change) ✓  
 Download Watermaster Data ✓  
 Download USGS Data ✓  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓  
 Update Fish Flows N/A

**Notes:**

NYC shift to 6/12/13  
 Transferred 10,000 AF from NYC to Ridenbaugh

## Hoekema, David

---

**From:** Cresto, Liz  
**Sent:** Thursday, July 25, 2013 8:25 AM  
**To:** Hoekema, David  
**Subject:** FW: 2nd Water transfer

FYI-

---

**From:** Rex Barrie [<mailto:waterdistrict63@qwestoffice.net>]  
**Sent:** Wednesday, July 24, 2013 7:19 AM  
**To:** Cresto, Liz  
**Subject:** FW: 2nd Water transfer

Liz,

Here is another one.

Rex R. Barrie  
Boise River Watermaster

---

**From:** Greg Curtis [<mailto:gcurtis@nmid.org>]  
**Sent:** Wednesday, July 24, 2013 7:06 AM  
**To:** Rex Barrie; [tpage@boiseproject.org](mailto:tpage@boiseproject.org)  
**Cc:** Andy Madsen  
**Subject:** 2nd Water transfer

Please execute a paper transfer of 10,000 acre feet from the Boise Project account for NMID to the head of the Ridenbaugh Canal. I have sent a fax over to the Boise Project office requesting this change also. Thanks, Greg

## Hoekema, David

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Wednesday, July 17, 2013 1:46 PM  
**To:** Cresto, Liz; Hoekema, David  
**Subject:** Rental Pool

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

O.K. Here is how I want to break down the Rental Pool activity.

Assigned To	AF	Leased From	AF
Boise Valley Ditch	1500	United Water	1500
Canyon County	1000	United Water	1000
Middleton Mill	500	United Water	500
Middleton Irr.	500	United Water	500
Canyon County	1000	New York Canal	1000
Little Pioneer	1000	Farmers Union	400
		Boise Schools	100
		New York Canal	500
New Union	200	Thomas Aiken	100
		Boise Parks	40
		Riverside Village	36
		Miss.	24
Thurman Mill	100	Mining	37
		New York Canal	42
		Miss.	21
Capital View	320	New York Canal	318
Total	6120		6118

If this does not add up give me a call.

Rex R. Barrie  
Boise River Watermaster

We are going to wait on Eagle Island to determine storage split.

Date: 7/23/13  
 Accounting Begin Date: 7/14/13  
 Accounting End Date: 7/22/13

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website ✓  
 New York Canal ✓  
 Middleton (check for shift change) ✓  
 Download Watermaster Data ✓  
 Download USGS Data ✓  
 Load NAL  
 Post Report To Websites (including ALC and HST)  
 Update Fish Flows N/A

**Notes:**

USGS missing Mores Creek 7/17-7/22 - used hydromet data but that looks low compared to previous USGS #s.

Date: 7/30/2013  
 Accounting Begin Date: 4/01/2013  
 Accounting End Date: 7/30/2013

#26

**Check List:**

Download USBR Data 30 days ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website  
 New York Canal ✓ shift was missed starting 7/08  
 Middleton (check for shift change) ✓  
 Download Watermaster Data ✓  
 Download USGS Data ✓ 30 days (USGS data filled in 7/19-7/22)  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓  
 Update Fish Flows

**Notes:**

Transfer 10,000 acre-feet from NY to Ridenbaugh  
 Completed Storage Report  
 Alex corrected data on Settler's Canal

NY 1860  
 UW 3,500  
 Eagle Island  
 MC 579.24  
 FID 303.31  
 BS 147.24  
 WS 61.49  
 H 27.72  
 26.72



## Hoekema, David

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Friday, August 02, 2013 8:20 AM  
**To:** Cresto, Liz; Hoekema, David  
**Subject:** Rental Pool

Liz & David,

Thurman Mill has leased 50 af to the Two Rivers HOA.  
This is delivered thru the Thomas Aiken diversion.

Rex R. Barrie  
Boise River Watermaster

## Hoekema, David

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Wednesday, August 07, 2013 9:20 AM  
**To:** Cresto, Liz; Hoekema, David  
**Subject:** FW: Water Transfer

Here it is!!!

Rex R. Barrie  
Boise River Watermaster

---

**From:** Greg Curtis [mailto:gcurtis@nmid.org]  
**Sent:** Wednesday, August 07, 2013 7:43 AM  
**To:** Rex Barrie; tpage@boiseproject.org  
**Subject:** Water Transfer

Please transfer 10,000 acre feet from the Boise Project account for NMID to the head of the Ridenbaugh Canal. I have also sent over a fax requesting this transfer to the Boise Project office. This is NMID's 3<sup>rd</sup> transfer of 10,000 acre feet.  
Thank You, Greg Curtis

Date: 8/6/2013  
 Accounting Begin Date: 4/01/2013  
 Accounting End Date: 8/05/2013

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website  
 New York Canal ✓  
 Middleton (check for shift change) ✓ (no shift)  
 Download Watermaster Data ✓  
 Download USGS Data ✓ (back to 7/13)  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓✓  
 Update Fish Flows

**Notes:** Update Storage report, CAN file for Two Rivers HOA

Date: 8/12/2013  
 Accounting Begin Date: 7/07/2013 (ran from 4/01/2013)  
 Accounting End Date: 8/11/2013

#28

**Check List:**

Download USBR Data ✓ (15-days)  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website (apply shift @ Middleton and @ New York)  
 New York Canal ✓ (back to 7/13)  
 Middleton (check for shift change) ✓  
 Download Watermaster Data ✓  
 Download USGS Data ✓ 13190500 8/8-9 SF Boise River at And. Ranch  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓✓✓  
 Update Fish Flows

**Notes:** transfer 10,000 acre-feet to Ridenbaugh

## Hoekema, David

---

**From:** Campbell, Mike D [MCampbell3@idahopower.com]  
**Sent:** Wednesday, August 14, 2013 9:14 AM  
**To:** 'tpage@boiseproject.org'  
**Cc:** Cresto, Liz; Hoekema, David; Vidmar, Pete; Rundberg, Carl  
**Subject:** RE: NY Canal Shift Update

Tim,

Thanks for bringing the shift to my attention yesterday. We have reviewed last week's measurement and it is very good. By the trend of the gage heights, it appears the aquatic growth is dying off. I made two separate measurements this morning using different sensors and the results were almost identical.

Let us know if the shifts appear to be decreasing more throughout the next couple weeks.

I will be in Salmon next week but you can call Pete Vidmar (388-2939).

Mike

---

**From:** Campbell, Mike D  
**Sent:** Wednesday, August 14, 2013 09:07  
**To:** 'HydroMet Shifts ([HydroMetShifts@usbr.gov](mailto:HydroMetShifts@usbr.gov))'  
**Cc:** 'tpage@boiseproject.org'; 'Liz.Cresto@idwr.idaho.gov'; 'Hoekema, David'; Campbell, Mike D; Hulme, Jim; Kolowith, Mark; Pierce, Stan; Rundberg, Carl; Thometz, Richard; Vidmar, Pete  
**Subject:** NY Canal Shift Update

A measurement was made Aug. 14 at 0715 MDT. The discharge was 1770 cfs; GH 8.12; shift -0.54. The previous shift on Aug. 8 was -0.80.

Let me know if you have questions.

Mike

Mike Campbell  
Water and Resource Planning Department  
Idaho Power Co.  
Boise, Idaho  
(208) 388-2473  
(208) 870-5126 - Cell  
(208) 388-6495 - Fax



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## Hoekema, David

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**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Friday, August 16, 2013 6:52 AM  
**To:** Cresto, Liz; Hoekema, David  
**Cc:** Greg Curtis  
**Subject:** FW: Water Transfer

NMID needs to transfer another 10 kafI  
See text below.

Thanks,

Rex R. Barrie  
Boise River Watermaster

---

**From:** Greg Curtis [mailto:gcurtis@nmid.org]  
**Sent:** Wednesday, August 14, 2013 12:24 PM  
**To:** Rex Barrie; tpage@boiseproject.org  
**Cc:** Andy Madsen; Dave Duvall  
**Subject:** Water Transfer

Rex and Tim, please execute a paper transfer of 10,000 acre feet from the Boise Project account for NMID to the head of the Ridenbaugh Canal. I have sent over a fax to the Boise Project office also requesting this change also. This is NMID's 4<sup>th</sup> transfer of 10,000 acre feet. This should carry the Ridenbaugh through the month of August. Thanks, Greg

## Hoekema, David

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**From:** Cresto, Liz  
**Sent:** Friday, August 16, 2013 8:55 AM  
**To:** Rex Barrie  
**Cc:** Hoekema, David  
**Subject:** RE: 25 acre feet from Conway hamming to Thomas Aiken

Rex,

Since they are both in the Eagle Island Water Users we can just transfer their storage water within their organization. There's no need for paperwork. It is the same as the NY and Ridenbaugh transfers.

Liz

-----Original Message-----

From: Rex Barrie [<mailto:waterdistrict63@qwestoffice.net>]  
Sent: Friday, August 16, 2013 6:55 AM  
To: Cresto, Liz  
Subject: FW: 25 acre feet from Conway hamming to Thomas Aiken

Liz,

Here is a request to move water from the Conway Hamming to Thomas Aiken. As I remember, we can do this in house without any paper work, correct?

Thanks,

Rex R. Barrie  
Boise River Watermaster

-----Original Message-----

From: Weston Arnell [<mailto:weston@gardnercompany.net>]  
Sent: Thursday, August 15, 2013 10:24 PM  
To: Rex Barrie  
Cc: Clark Benson  
Subject: 25 acre feet from Conway hamming to Thomas Aiken

Hi Rex,

Please transfer the remaining 25 acre feet in the Conway hamming ditch to the Thomas Aiken ditch.

Thank you,

Weston Arnell  
801-201-2853

## Hoekema, David

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Thursday, August 22, 2013 10:05 AM  
**To:** Cresto, Liz; Hoekema, David  
**Subject:** Rental Pool

Liz & David,

I have two Rental Pool transfers for you.

✓  
Canyon County Ditch Co. 500 AF to United Water.  
Boise City Canal Co. 400 AF to United Water.

Thanks,

Rex R. Barrie  
Boise River Watermaster

Date: 8/19/2013  
 Accounting Begin Date: 8/1/2013 (ran from 4/1/2013)  
 Accounting End Date: 8/18/2013

**Check List:**

Download USBR Data ✓ (last 15-days) ~~110~~  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website ✓  
 New York Canal ✓  
 Middleton (check for shift change) (Data was in a strange format that appeared to include gage height)  
 Download Watermaster Data ✓  
 Download USGS Data ✓ (last 15-days) 13190500 (missing 8/7-8)  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓✓✓  
 Update Fish Flows

**Notes:** Today a new storage report was run and CAN file created to account for the Ridenbaugh transfer. Also a shift was carried out on the New York canal back to Aug. 8.  
 Thomas-Aiken + Conway-Hanning transfer  
 Rerun from beginning.

Date: 8/27/2013  
 Accounting Begin Date: 4/01/2013  
 Accounting End Date: 8/26/2013

# 30

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website ✓  
 New York Canal ✓  
 Middleton (check for shift change) ✓  
 Download Watermaster Data ✓  
 Download USGS Data ✓  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ✓✓  
 Update Fish Flows

**Notes:** New "can" file created + storage report created based on Rex's email from 8/22/2013  
 Water transferred to United Water

13210050



Date: 9/03/2013  
 Accounting Begin Date: 8/18/2013  
 Accounting End Date: 9/02/2013

**Check List:**

Download USBR Data ✓ (15-days)  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website  
 New York Canal ✓  
 Middleton (check for shift change) ✓  
 Download Watermaster Data ✓  
 Download USGS Data ✓  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) HST ✓ ALC ✓ Website ✓  
 Update Fish Flows (N/A)

**Notes:**

Date: 9/10/2013  
 Accounting Begin Date: 8/28/2013  
 Accounting End Date: 9/09/2013

**Check List:**

Download USBR Data ✓ (15 days)  
 Review USBR for Missing Data ✓ no missing data  
 Get ID Power Data and Enter on Website  
 New York Canal ✓ (used USBR for 8/5 and zeroed values from 8/6-8/9)  
 Middleton (check for shift change) ✓ (no shift identified)  
 Download Watermaster Data ✓  
 Download USGS Data ✓ (15 days)  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) Post Report ✓ HST ✓ ALC  
 Update Fish Flows (N/A)

**Notes:**

## Hoekema, David

---

**From:** Rex Barrie [waterdistrict63@qwestoffice.net]  
**Sent:** Wednesday, September 11, 2013 6:43 AM  
**To:** Cresto, Liz; Hoekema, David  
**Cc:** Mark Zirschky; Greg Curtis; Tim Page; Bob Carter  
**Subject:** FW: 2013 Fivemile Feeder - Transfer

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Liz and David,

Here is the request to transfer 3000 af from Pioneer Irrigation District storage to Boise Project Board of Control. This should be the only transfer related to this agreement this year.

Rex R. Barrie  
Boise River Watermaster

---

**From:** gcurtis@nmid.org [mailto:gcurtis@nmid.org]  
**Sent:** Tuesday, September 10, 2013 2:12 PM  
**To:** Mark Zirschky Pioneer Irrigation District; 'Rex Email'  
**Cc:** 'Tim Page'; 'Andy Waldera'; 'Erica Slayton'  
**Subject:** Re: 2013 Fivemile Feeder - Transfer

NMID agrees with this request. Thanks Greg  
Thanks Greg® Now Network from my BlackBerry®

---

**From:** "Mark Zirschky" <mark@pioneerirrigation.com>  
**Date:** Tue, 10 Sep 2013 13:32:53 -0600  
**To:** 'Rex Email' <waterdistrict63@qwestoffice.net>  
**Cc:** 'Greg Curtis' <gcurtis@nmid.org>; 'Tim Page' <tpage@boiseproject.org>; 'Andy Waldera' <AJW@moffatt.com>; 'Erica Slayton' <erica@pioneerirrigation.com>  
**Subject:** 2013 Fivemile Feeder - Transfer

Rex,

Please transfer the amount of 3000 a/f of water from Pioneer Irrigation Districts current storage, to satisfy the 2013 Fivemile Agreement (see attached). This transfer pertains to water used by Pioneer Irrigation District during the 2013 irrigation season.

I have been in contact with Greg Curtis, and we would like the water transferred to the Boise Project Board of Control account. The split (per the 2013 Agreement), will be conducted between BPBOC and NMID.

Greg Curtis will respond to this email, to verify his approval of the transfer.

If you should have any questions, please do not hesitate to contact me.

Mark Zirschky – Superintendent  
Pioneer Irrigation District  
Office: 208-459-3617  
Cell: 208-250-8481

## Hoekema, David

---

**From:** Sauer, Brian [bsauer@usbr.gov]  
**Sent:** Tuesday, September 24, 2013 8:02 PM  
**To:** Hoekema, David  
**Cc:** tday@usbr.gov  
**Subject:** Re: Flows out of Anderson Ranch?

Dave,

We went to 300 cfs at 01:00 on 9/16 and have held it there since.

Brian

On Tue, Sep 24, 2013 at 4:43 PM, Hoekema, David <[David.Hoekema@idwr.idaho.gov](mailto:David.Hoekema@idwr.idaho.gov)> wrote:

Brian or Ted,

What is the flow coming out of Anderson Ranch? The gage has malfunctioned. Could you guys give me an estimate of what flow should be coming of the Anderson Ranch from the 16<sup>th</sup> to the 23<sup>rd</sup>?

David Hoekema

*Hydrologist, Technical*

*Technical Services Bureau*

*Idaho Department of Water Resources*

*322 E. Front Street*

*Boise, ID 83702*

*office: (208) 287-4830*

*mobile: (714) 697-3203*

Date: 9/17/2013  
 Accounting Begin Date: 9/01/2013  
 Accounting End Date: 9/16/2013

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data ✓  
 Get ID Power Data and Enter on Website ✓  
 New York Canal ✓  
 Middleton (check for shift change) ✓ (no shift)  
 Download Watermaster Data ✓  
 Download USGS Data ✓ (missing NY) (filled in S.F. blw Anderson from Hydromet)  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) ALC ✓ HST  
 Update Fish Flows N/A

**Notes:**

I updated the "CAN" file with the PID transfer to the BPBC using a Sept. 17 storage. RPT.  
 email from Rex 9/11/2013 @ 6:43 AM

Date: 9/24/2013  
 Accounting Begin Date: 9/08/2013  
 Accounting End Date: 9/23/2013

**Check List:**

Download USBR Data ✓  
 Review USBR for Missing Data (15 days) ✓  
 Get ID Power Data and Enter on Website  
 New York Canal  
 Middleton (check for shift change) shift from 8/13 onward  
 Download Watermaster Data ✓  
 Download USGS Data ✓ (guess that Anderson Ranch is releasing 300 cfs since 9/17) guess Parma is 800 (9/13-9/17)  
 Load NAL ✓  
 Post Report To Websites (including ALC and HST) HST ✓ ALC website  
 Update Fish Flows

**Notes:**

Parma + blw Anderson Ranch gages out of operation for a considerable # of days. Brian Sauer emailed confirmation on South Fork flows. Parma needs to be investigated later.

Date: 10/16/2013

Accounting Begin Date: \_\_\_\_\_

Accounting End Date: \_\_\_\_\_

**Check List:**Download USBR Data ☒ (15 days)Review USBR for Missing Data ☒

Get ID Power Data and Enter on Website

New York Canal N/A (I requested data for entire year, but haven't heard back)

Middleton (check for shift change) ☒Download Watermaster Data (since Oct 1) ☒Download USGS Data ☒ (15 days)

Load NAL

Post Report To Websites (including ALC and HST)

Update Fish Flows

Notes: Thoroughly reviewed numbers &amp; reran from 1/11/2012 - 10/15/2013

Date: 11/4/2013Accounting Begin Date: 8/15/2013Accounting End Date: 10/31/2013**Check List:**Download USBR Data ☒ (20 days from Oct. 31)Review USBR for Missing Data ☒ none missing

Get ID Power Data and Enter on Website

New York Canal ☒

Middleton (check for shift change) (shift back to 8/15)

Download Watermaster Data ☒ (30 days)Download USGS Data ☒Load NAL ☒Post Report To Websites (including ALC and HST) ALC ☒ HST ☒

Update Fish Flows

Notes: Had to fill by hand Lucky Point outflow + Boise River at Arrowrock = ~~Bo~~ LLC inflow - Mores Creek

## Hoekema, David

---

**To:** Rex Barrie; Greg Curtis; Cresto, Liz  
**Subject:** RE: Review of Ridenbaugh's Account

Greg, Rex, & Liz,

Sorry for the previously confusing email. I goofed the math when I transferred from the spreadsheet to email. Below I'll break down the differences between the two accounting runs. We are currently working on the final run, and I would be happy to step back through these calculations for any differences which will occur.

At the beginning of the year there are two assumptions we have to make: evaporation loss and operational losses, both of which are charged to storage. Because the reservoirs did not fill and the USBR did not cancel early season storage use (which is usually done when reservoirs fill) evaporation and operational losses were charge for the whole season, rather than from the day of allocation. The result is that losses were about twice what we originally guessed. Another factor in the difference in the two runs is that we corrected the inputs into the water right accounting model to include USGS and Idaho Power Company's correction of their streamflow records.

The difference between the two runs was 536.3 ac-ft and can be broken down as such (note a small rounding error occurs because I ran the numbers backward starting from the WRA output which was rounded). The table below describes the amount of storage used by the Ridenbaugh, the quantity stored in each storage account, and the storage loss charged to each account. All units are in acre-feet.

	WRA Run 1	WRA Run 2	difference
<b>Storage Used</b>	46818	47137	-319
<b>Arrowrock</b>	3738.3	3710.6	-27.7
<b>Arrowrock Loss</b>	-26.2	-46.1	-19.9
<b>Anderson Ranch</b>	3834.4	3882.9	48.5
<b>Anderson Loss</b>	-26.9	-46.6	-19.7
<b>Transfer</b>	40000	40000	0.0
<b>Transfer Loss</b>	-280.1	-480.1	-199.9
	Total		<b>-537.8</b>

David Hoekema

*Hydrologist, Technical  
Technical Services Bureau  
Idaho Department of Water Resources  
322 E. Front Street  
Boise, ID 83702*

*office: (208) 287-4830  
mobile: (714) 697-3203*

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**From:** Rex Barrie [mailto:waterdistrict63@qwestoffice.net]  
**Sent:** Monday, December 09, 2013 7:12 AM  
**To:** Cresto, Liz; Hoekema, David  
**Subject:** FW: Review of Ridenbaugh's Account

Hi Guys,

Any comment on this question?

Rex R. Barrie  
Boise River Watermaster

---

**From:** Greg Curtis [<mailto:gcurtis@nmid.org>]  
**Sent:** Friday, December 06, 2013 12:22 PM  
**To:** Rex Barrie  
**Subject:** RE: Review of Ridenbaugh's Account

Rex,  
Did this ever get settled? I don't have a problem with the adjustments so much as I do with the math. If we lost 28 acre feet in Arrow Rock, gained 48.5 acre feet in Anderson, the total change would be a +20.5, we loose 200 acre feet for operational loss, and they say we used an additional 319 acre feet. So by the way I add it up,  $20.5 - 519 = -498.5$  not  $-536.3$  as they show. They added them all as a negative and I don't know where they come up with 21.3 ( $-28 + 48.5 = 20.5$ ).  
I know you said they were still working on this and you were going to check with them but I'd thought I'd check as I have not heard anything. I know I'm splitting hairs here but that's what they pay me for, 37.8 acre feet is 37.8 acre feet.  
Thanks,

Greg G Curtis  
Water Superintendant  
Nampa & Meridian Irrigation District  
(208) 466-0663

-----Original Message-----

**From:** Rex Barrie [<mailto:waterdistrict63@qwestoffice.net>]  
**Sent:** Friday, October 25, 2013 7:46 AM  
**To:** Greg Curtis  
**Subject:** FW: Review of Ridenbaugh's Account

Greg,

When you look at the latest accounting you may have some questions so.....

I looked into this issue with Liz and I hope this helps explain why you ran out. It is not much and we can do a transfer from the New York. I would suggest we wait for the final run to make sure we are at 114 af.

Give me a call when you get back from VaCa.

I will out Tuesday and Wednesday helping rebuild the Dollarhide Snotel site.

Rex R. Barrie  
Boise River Watermaster

---

**From:** Hoekema, David [<mailto:David.Hoekema@idwr.idaho.gov>]  
**Sent:** Thursday, October 24, 2013 10:18 AM  
**To:** Rex Barrie  
**Cc:** Cresto, Liz  
**Subject:** Review of Ridenbaugh's Account

Rex,

Liz told me that you called looking for an explanation in the change in Ridenbaugh's account.

The previous accounting run on October 17 indicated that they had 422 acre-feet of carryover remaining. The most recent run indicates that the Ridenbaugh has a deficit of 114 acre-feet. The total difference between the two runs is a decrease of 536 acre-feet or 1.1% of the storage use.

When we reran the accounting and updated all the numbers in the system, we found that the finalized USGS numbers increased reservoir fill. However, since we underestimated operational loss, we had to lessen the accrual in the storage accounts. On Arrowrock (which filled), this resulted in a decrease from 3738.3 ac-ft to 3710.3 ac-feet in the Ridenbaugh account. However the increased fill in Anderson Ranch was greater than the additional operational loss from Anderson Ranch resulting in a slight increase in Ridenbaughs account from 3834.4 ac-ft to 3882.9 ac-ft. The total change in the Ridenbaugh reservoir accrual was therefore 21.3 ac-ft. The additional operational loss resulted in 40,000 ac-ft transfer being charged an additional 200 ac-ft.

A review of USGS monitored summer flows resulted in a decrease in flow. The decrease in flow resulted in more storage use. Whereas Ridenbaugh had used 46,818 ac-ft in the previous accounting run, the new accounting run shows that they have used 47,137 ac-ft. The difference is 319 ac-ft.

We can therefore summarize the change as:

Total Change = Change in reservoir accumulation + Change in operational loss charged to transfers + change in use

$$-536 \text{ acre-ft} = \underline{21.3 \text{ ac-ft}} - 200 \text{ ac-ft} - 319 \text{ ac-ft} = -536.3 \text{ ac-ft}$$

If you or any of the other account holders want their accounts reviewed, please let me know I would be happy to help.

These numbers may change slightly due to:

1. Idaho Power's review of the Middleton gage & New York Canal Diversions,
2. USGS flow revisions for the later part of the summer.

David Hoekema

*Hydrologist, Technical  
Technical Services Bureau  
Idaho Department of Water Resources  
322 E. Front Street  
Boise, ID 83702*

*office: (208) 287-4830  
mobile: (714) 697-3203*



## Cresto, Liz

---

**From:** Hoekema, David  
**Sent:** Thursday, December 26, 2013 9:57 AM  
**To:** Cresto, Liz  
**Subject:** RE: Boise WRA

Liz,

I've can't figure out what to do with the F&G and USBR diversion rates. I've tried the numbers as you suggested, but something I'm doing is just not working out. I'll need to go over this with you when you get back.

David Hoekema

*Hydrologist, Technical  
Technical Services Bureau  
Idaho Department of Water Resources  
322 E. Front Street  
Boise, ID 83702*

*office: (208) 287-4830  
mobile: (714) 697-3203*

---

**From:** Cresto, Liz  
**Sent:** Thursday, December 19, 2013 11:11 AM  
**To:** Hoekema, David  
**Subject:** RE: Boise WRA

Here are my comments.

1. F&G and USBR
  - a. Nov – March 31. Update the F&G and USBR diversion rate to the actual. Take the stored flow passing Middleton give 2/3 to USBR and 1/3 to F&G. Update diversion rates on the water master data entry page.
  - b. October 15 – October 31. There are some wildly high numbers in there. I went ahead and recalculated the values in BOIFlowAug2013(4).xls. I took the outflow from Lucky Peak and subtracted the United Water and Micron diversion. That's what is being released for the winter flows. The winter flow is then divided 2/3 to USBR and 1/3 to F&G. Re-enter these numbers into the accounting and rerun it.
2. United Water Storage allocation April 1 (CAN.IND). United Water's 2013 storage allocation should be reduced by the excess volume used over the winter (-785.6 AF). Their allocation should be 5487.5 not 6273.1. See step 3 of the United Water Adjustments write up.
3. Table 5 Storage Report. The "storage used" values appear to be from last year. Update those values in the BOISTO.USE file. The easiest way to do this is in the accounting data base, choose start date of 11/1/2013 and end date of 11/1/2013 and then click build input files. Copy the .alc file into the .use file. Hand enter the storage used value for flow augmentation.
4. Storage Report Table 4 - Transfers. Anderson Uncontracted -248. Flow Augmentation 0 AF. The flow augmentation water runs through the rental pool. Only the United water portion is a transfer.
5. Storage Report Table 4 - Rental pool. Anderson Uncontracted -18566. Flow Augmentation 18566.
6. After you do all of the above changes, the Storage Report Table 5 column, "Balance October 31" should match the AF Remaining column for October 31 in the accounting model.

Liz

Date: 12/36/13  
Accounting Begin Date: \_\_\_\_\_  
Accounting End Date: \_\_\_\_\_

**Check List:**

Download USBR Data  
Review USBR for Missing Data  
Get ID Power Data and Enter on Website  
New York Canal  
Middleton (check for shift change)  
Download Watermaster Data  
Download USGS Data  
Load NAL  
Post Report To Websites (including ALC and HST)  
Update Fish Flows

**Notes:**

May 30<sup>th</sup> - last day of reservoir accrual  
Arrowrock - full  
Anderson - 299,197.9  
Ducky Peak - 213,073.6

Arrowrock outflow 1<sup>st</sup> Oct - interpolated

microm Carryover  
~~##2~~ 10/31/12 - 2918.9  
3/31/12 - 433 (use)  
2515.9  
United Allocation 6240.3  
Winterage: - 769  
5471.3

Date: \_\_\_\_\_  
Accounting Begin Date: \_\_\_\_\_  
Accounting End Date: \_\_\_\_\_

Boise Parks - take water from  
K Albertsons

Ann Morrison to cover  
average at Williams. Extra  
AF average ~ IAF to come from  
Bobby.

**Check List:**

Download USBR Data  
Review USBR for Missing Data  
Get ID Power Data and Enter on Website  
New York Canal  
Middleton (check for shift change)  
Download Watermaster Data  
Download USGS Data  
Load NAL  
Post Report To Websites (including ALC and HST)  
Update Fish Flows

**Notes:**

Ridenbaugh 40,000 - 22.8 = 39,977.2  
37,000 - 22.8 =

Herrick - Barba coa - ignore  
Riverside village - ignore

## Storage Reallocated to Anderson Ranch

NUMBER	USER	ARROWROCK		Anderson Ranch		Lucky Peak			LTF		Total		Fill	Stor			
		Stor	Carry	Fill	Stor	Carry	Fill	Stor	Carry	Fill	Stor	Carry					
13189600	TRINITY SPRINGS	0	786.4	13.6	800	0	0	0	0	0	0	786.4	13.6	800	=	0	0%
13199804	OSPREY	0	0	0	0	251.3	48.7	300	0	0	0	251.3	48.7	300	=	0	0%
13199924	WILDERNESS RANCH	0	0	0	0	177	23	200	0	0	0	177	23	200	=	0	0%
13201050	LUCKY PEAK NURSERY	190	0	0	0	0	0	0	0	0	0	0	190	190	=	0	0%
13201990	F&G INSTREAM	0	0	0	0	25325.6	24674	50000	0	0	0	25326	24674.4	50000	+	1321.5	3%
13201991	USBR INSTREAM	0	0	0	0	55588.6	49424	105013	0	0	0	55589	49424.4	105013	+	377.2	0%
13203000	NEW YORK	241321	130913.3	49316.4	180230	0	0	0	0	0	0	130913	290637	421551	--	-9811.6	-2%
13203527	SURPRIS VY/MICRON	0	2948.9	51.1	3000	0	0	0	0	0	0	2948.9	51.1	3000	=	0	0%
13203760	RIDENBAUGH	3794	0.2	2074.1	2074.3	0	0	0	0	0	0	0.2	5868.1	5868.3	--	-412.6	-7%
13204005	BUBB	0	522	9	531	0	0	0	0	0	0	522	9	531	=	0	0%
13204060	ROSSI MILL	0	0	0	0	280.9	19.1	300	0	0	0	280.9	19.1	300	=	0	0%
13204190	BOISE CITY	0	0	0	0	666.6	33.4	700	0	0	0	666.6	33.4	700	=	0	0%
13204200	<u>UNITED WATER</u>	0	0	140.3	140.3	0	599.4	599.4	0	0	0	0	739.7	739.7	+	57.7	8%
13205515	<u>SETTLERS</u>	2668	5675	0	5675	2103.4	3542	5645.4	0	0	0	7778.4	6210	13988.4	+	2587.5	18%
13205517	FAIRVIEW ACRES	0	0	0	0	1159.5	340.5	1500	0	0	0	1159.5	340.5	1500	=	0	0%
13205622	THURMAN MILL	0	0	0	0	550.4	249.6	800	0	0	0	550.4	249.6	800	=	0	0%
13205640	<u>FARMERS UNION</u>	2779	0	784.6	784.6	0	4433	4433	0	0	0	0	7996.6	7996.6	+	477.4	6%
13205641	<u>BOISE VALLEY</u>	0	939	0	939	944.2	1362.3	2306.5	0	0	0	1883.2	1362.3	3245.5	+	587.6	18%
13205643	CAPITOL VIEW	0	215	63	278	0	0	0	0	0	0	215	63	278	--	-12.5	-4%
13206090	<u>NEW DRY CREEK</u>	0	1266	0	1266	2351.4	648.6	3000	0	0	0	3617.4	648.6	4266	+	409.2	10%
13206092	NEW UNION	0	0	0	0	586.6	13.4	600	0	0	0	586.6	13.4	600	=	0	0%
13206220	WARM SPRINGS	0	0	0	0	30.5	31	61.5	0	0	0	30.5	31	61.5	+	2.3	4%
13206265	<u>BALLENTYNE</u>	0	367	0	367	419.5	708.4	1127.9	0	0	0	786.5	708.4	1494.9	+	133.2	9%
13206270	CONWAY-HAMMING	0	0	0	0	15.7	11.4	27.1	0	0	0	15.7	11.4	27.1	=	0	0%
13206292	MACE-CATLIN	0	0	0	0	488.3	90.8	579.1	0	0	0	488.3	90.8	579.1	=	0	0%
13208450	HART-DAVIS	0	0	0	0	39.1	165.2	204.3	0	0	0	39.1	165.2	204.3	+	23.6	12%
13208710	MIDDLETON	0	0	0	0	8296	204	8500	0	0	0	8296	204	8500	=	0	0%
13208740	SEVEN SUCKERS	0	0	0	0	126.3	21	147.3	0	0	0	126.3	21	147.3	=	0	0%
13209480	<u>PHYLLIS</u>	20326	24986	0	24986	6057.6	8718.9	14777	0	0	0	31044	29044.9	60088.5	+	4304.9	7%
13209482	EUREKA #1	0	0	0	0	1094.5	705.5	1800	0	0	0	1094.5	705.5	1800	=	0	0%
13209630	LITTLE PIONEER	0	1280.9	227.7	1508.6	0	0	0	0	0	0	1280.9	227.7	1508.6	--	-45.3	-3%
13209990	CANYON COUNTY	0	0	0	0	3100.9	899.1	4000	0	0	0	3100.9	899.1	4000	=	0	0%
13210992	SEBREE	1146	0	0	0	0	0	0	0	0	0	0	1146	1146	=	0	0%
99999050	ANDERSON DAM POWER	0	5.9	0.1	6	0	0	0	0	0	0	5.9	0.1	6	=	0	0%
99999080	ANDSN UNCONTRACTED	0	36583.8	372.2	36956	0	0	0	0	0	0	36584	372.2	36956	=	0	0%
TOTAL		272224	206489.4	53052.1	259542	109653.9	96967	206621	0	0	0	316143	422243	738387		0.1	0%

Carryover Transfer

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TABLE 1. 2013 BOISE RIVER STORED WATER BY RESERVOIR

(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	2244.4	269979.6
ANDERSON RANCH	449530.0	259541.4	4526.9	255014.5
LUCKY PEAK	213366.1	206621.0	2949.9	203671.1
ANDERSON LST FIL	500.0	0.0	0.0	0.0
LUCKY PEAK LST FIL	51004.0	0.0	0.0	0.0
TOTAL	986624.1	738386.4	9721.2	728665.2

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TABLE 2. 2013 BOISE RIVER RESERVOIR SPACE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	ANDERSON	LUCKY PEAK	TOTAL
13189600	TRINITY SPRINGS	0.0	800.0	0.0	0.0	0.0	800.0
13199804	OSPREY	0.0	0.0	300.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	200.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	190.0
13201990	F&G INSTREAM	0.0	0.0	50000.0	0.0	0.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	105013.0	0.0	38339.0	143352.0
13203000	NEW YORK	241321.0	351554.0	0.0	0.0	0.0	592875.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	0.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	0.0	0.0	18579.0
13204005	BUBB	0.0	531.0	0.0	0.0	0.0	531.0
13204060	ROSSI MILL	0.0	0.0	300.0	0.0	400.0	700.0
13204190	BOISE CITY	0.0	0.0	700.0	0.0	0.0	700.0
13204200	UNITED WATER	0.0	1000.0	1100.0	0.0	0.0	2100.0
13205515	SETTLERS	2668.0	5675.0	6500.0	0.0	3500.0	18343.0
13205517	FAIRVIEW ACRES	0.0	0.0	1500.0	0.0	0.0	1500.0
13205622	THURMAN MILL	0.0	0.0	800.0	0.0	0.0	800.0
13205640	FARMERS UNION	2779.0	5593.0	8135.0	0.0	1865.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	0.0	0.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	0.0	0.0	0.0	449.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	600.0	0.0	300.0	900.0
13206220	WARM SPRINGS	0.0	0.0	61.5	0.0	33.0	94.5
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13206270	CONWAY-HAMMING	0.0	0.0	27.1	0.0	14.0	41.1
13206292	MACE-CATLIN	0.0	0.0	579.1	0.0	311.0	890.1
13208450	HART-DAVIS	0.0	0.0	303.1	0.0	163.0	466.1
13208710	MIDDLETON	0.0	0.0	8500.0	0.0	2500.0	11000.0
13208740	SEVEN SUCKERS	0.0	0.0	147.3	0.0	79.0	226.3
13209480	PHYLLIS	20326.0	24986.0	16000.0	0.0	0.0	61312.0
13209482	EUREKA #1	0.0	0.0	1800.0	0.0	1000.0	2800.0
13209630	LITTLE PIONEER	0.0	1623.0	0.0	500.0	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	4000.0	0.0	2000.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	0.0	0.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	36956.0	0.0	0.0	0.0	36956.0
TOTAL		272224.0	449530.0	213366.1	500.0	51004.0	986624.1

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TABLE 3. 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK *-----ANDERSON RANCH-----*				*-----LUCKY PEAK-----*		
		STORAGE	CARRYOVER	NEW FLL	STORAGE	CARRYOVER	NEW FILL	STORAGE
13189600	TRINITY SPRINGS	0.0	786.4	13.6	800.0	0.0	0.0	0.0
13199804	OSPREY	0.0	0.0	0.0	0.0	251.3	48.7	300.0
13199924	WILDERNESS RANCH	0.0	0.0	0.0	0.0	177.0	23.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	0.0	0.0
13201990	F&G INSTREAM	0.0	0.0	0.0	0.0	25325.6	24674.4	50000.0
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	55588.6	49424.4	105013.0
13203000	NEW YORK	241321.0	130913.3	49316.4	180229.7	0.0	0.0	0.0
13203527	SURPRIS VY/MICRON	0.0	2948.9	51.1	3000.0	0.0	0.0	0.0
13203760	RIDENBAUGH	3794.0	0.2	2074.1	2074.3	0.0	0.0	0.0
13204005	BUBB	0.0	522.0	9.0	531.0	0.0	0.0	0.0
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	280.9	19.1	300.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	666.6	33.4	700.0
13204200	UNITED WATER	0.0	0.0	140.3	140.3	0.0	599.4	599.4
13205515	SETTLERS	2668.0	5675.0	0.0	5675.0	2103.4	3542.0	5645.4
13205517	FAIRVIEW ACRES	0.0	0.0	0.0	0.0	1159.5	340.5	1500.0
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	550.4	249.6	800.0
13205640	FARMERS UNION	2779.0	0.0	784.6	784.6	0.0	4433.0	4433.0
13205641	BOISE VALLEY	0.0	939.0	0.0	939.0	944.2	1362.3	2306.5
13205643	CAPITOL VIEW	0.0	215.0	63.0	278.0	0.0	0.0	0.0
13206090	NEW DRY CREEK	0.0	1266.0	0.0	1266.0	2351.4	648.6	3000.0
13206092	NEW UNION	0.0	0.0	0.0	0.0	586.6	13.4	600.0
13206220	WARM SPRINGS	0.0	0.0	0.0	0.0	30.5	31.0	61.5
13206265	BALLENTYNE	0.0	367.0	0.0	367.0	419.5	708.4	1127.9
13206270	CONWAY-HAMMING	0.0	0.0	0.0	0.0	15.7	11.4	27.1
13206292	MACE-CATLIN	0.0	0.0	0.0	0.0	488.3	90.8	579.1
13208450	HART-DAVIS	0.0	0.0	0.0	0.0	39.1	165.2	204.3
13208710	MIDDLETON	0.0	0.0	0.0	0.0	8296.0	204.0	8500.0
13208740	SEVEN SUCKERS	0.0	0.0	0.0	0.0	126.3	21.0	147.3
13209480	PHYLLIS	20326.0	24986.0	0.0	24986.0	6057.6	8718.9	14776.5
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1094.5	705.5	1800.0
13209630	LITTLE PIONEER	0.0	1280.9	227.7	1508.6	0.0	0.0	0.0
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	3100.9	899.1	4000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0	0.0
99999050	ANDERSON DAM POWER	0.0	5.9	0.1	6.0	0.0	0.0	0.0
99999080	ANDSN UNCONTRACTED	0.0	36583.8	372.2	36956.0	0.0	0.0	0.0
TOTAL		272224.0	206489.4	53052.0	259541.4	109653.9	96967.1	206621.0

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TABLE 3 (CONTINUED). 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	*ANDERSON RANCH LAST FILL * CARRYOVER NEW FILL STORAGE	*--- LUCKY PEAK LAST FILL ---* CARRYOVER NEW FILL STORAGE	*----- TOTAL -----*
13189600	TRINITY SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	786.4 13.6 800.0
13199804	OSPREY	0.0 0.0 0.0	0.0 0.0 0.0	251.3 48.7 300.0
13199924	WILDERNESS RANCH	0.0 0.0 0.0	0.0 0.0 0.0	177.0 23.0 200.0
13201050	LUCKY PEAK NURSERY	0.0 0.0 0.0	0.0 0.0 0.0	0.0 190.0 190.0
13201990	F&G INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	25325.6 24674.4 50000.0
13201991	USBR INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	55588.6 49424.4 105013.0
13203000	NEW YORK	0.0 0.0 0.0	0.0 0.0 0.0	130913.3 290637.4 421550.7
13203527	SURPRIS VY/MICRON	0.0 0.0 0.0	0.0 0.0 0.0	2948.9 51.1 3000.0
13203760	RIDENBAUGH	0.0 0.0 0.0	0.0 0.0 0.0	0.2 5868.1 5868.3
13204005	BUBB	0.0 0.0 0.0	0.0 0.0 0.0	522.0 9.0 531.0
13204060	ROSSI MILL	0.0 0.0 0.0	0.0 0.0 0.0	280.9 19.1 300.0
13204190	BOISE CITY	0.0 0.0 0.0	0.0 0.0 0.0	666.6 33.4 700.0
13204200	UNITED WATER	0.0 0.0 0.0	0.0 0.0 0.0	0.0 739.7 739.7
13205515	SETTLERS	0.0 0.0 0.0	0.0 0.0 0.0	7778.4 6210.0 13988.4
13205517	FAIRVIEW ACRES	0.0 0.0 0.0	0.0 0.0 0.0	1159.5 340.5 1500.0
13205622	THURMAN MILL	0.0 0.0 0.0	0.0 0.0 0.0	550.4 249.6 800.0
13205640	FARMERS UNION	0.0 0.0 0.0	0.0 0.0 0.0	0.0 7996.6 7996.6
13205641	BOISE VALLEY	0.0 0.0 0.0	0.0 0.0 0.0	1883.2 1362.3 3245.5
13205643	CAPITOL VIEW	0.0 0.0 0.0	0.0 0.0 0.0	215.0 63.0 278.0
13206090	NEW DRY CREEK	0.0 0.0 0.0	0.0 0.0 0.0	3617.4 648.6 4266.0
13206092	NEW UNION	0.0 0.0 0.0	0.0 0.0 0.0	586.6 13.4 600.0
13206220	WARM SPRINGS	0.0 0.0 0.0	0.0 0.0 0.0	30.5 31.0 61.5
13206265	BALLENTYNE	0.0 0.0 0.0	0.0 0.0 0.0	786.5 708.4 1494.9
13206270	CONWAY-HAMMING	0.0 0.0 0.0	0.0 0.0 0.0	15.7 11.4 27.1
13206292	MACE-CATLIN	0.0 0.0 0.0	0.0 0.0 0.0	488.3 90.8 579.1
13208450	HART-DAVIS	0.0 0.0 0.0	0.0 0.0 0.0	39.1 165.2 204.3
13208710	MIDDLETON	0.0 0.0 0.0	0.0 0.0 0.0	8296.0 204.0 8500.0
13208740	SEVEN SUCKERS	0.0 0.0 0.0	0.0 0.0 0.0	126.3 21.0 147.3
13209480	PHYLLIS	0.0 0.0 0.0	0.0 0.0 0.0	31043.6 29044.9 60088.5
13209482	EUREKA #1	0.0 0.0 0.0	0.0 0.0 0.0	1094.5 705.5 1800.0
13209630	LITTLE PIONEER	0.0 0.0 0.0	0.0 0.0 0.0	1280.9 227.7 1508.6
13209990	CANYON COUNTY	0.0 0.0 0.0	0.0 0.0 0.0	3100.9 899.1 4000.0
13210992	SEBREE	0.0 0.0 0.0	0.0 0.0 0.0	0.0 1146.0 1146.0
99999050	ANDERSON DAM POWER	0.0 0.0 0.0	0.0 0.0 0.0	5.9 0.1 6.0
99999080	ANDSN UNCONTRACTED	0.0 0.0 0.0	0.0 0.0 0.0	36583.8 372.2 36956.0
TOTAL		0.0 0.0 0.0	0.0 0.0 0.0	316143.3 422243.1 738386.4

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TABLE 4. 2013 BOISE RIVER RESERVOIR NET STORAGE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	SUBTOTAL	TRANSFERS	RNT POOL	TOTAL AFTER LOSS
13189600	TRINITY SPRINGS	0.0	786.0	0.0	786.0	0.0	0.0	786.0
13199804	OSPREY	0.0	0.0	295.7	295.7	0.0	0.0	295.7
13199924	WILDERNESS RANCH	0.0	0.0	197.1	197.1	0.0	0.0	197.1
13201050	LUCKY PEAK NURSERY	188.4	0.0	0.0	188.4	0.0	0.0	188.4
13201990	F&G INSTREAM	0.0	0.0	49286.2	49286.2	0.0	0.0	49286.2
13201991	USBR INSTREAM	0.0	0.0	103513.7	103513.7	0.0	0.0	103513.7
13203000	NEW YORK	239331.4	177086.1	0.0	416417.5	0.0	0.0	416417.5
13203527	SURPRIS VY/MICRON	0.0	2947.7	0.0	2947.7	0.0	0.0	2947.7
13203760	RIDENBAUGH	3762.7	2038.1	0.0	5800.8	0.0	0.0	5800.8
13204005	BUBB	0.0	521.7	0.0	521.7	0.0	0.0	521.7
13204060	ROSSI MILL	0.0	0.0	295.7	295.7	0.0	0.0	295.7
13204190	BOISE CITY	0.0	0.0	690.0	690.0	0.0	0.0	690.0
13204200	UNITED WATER	0.0	137.8	590.9	728.7	0.0	1500.0	2228.7
13205515	SETTLERS	2646.0	5576.0	5564.8	13786.9	0.0	0.0	13786.9
13205517	FAIRVIEW ACRES	0.0	0.0	1478.6	1478.6	0.0	0.0	1478.6
13205622	THURMAN MILL	0.0	0.0	788.6	788.6	0.0	0.0	788.6
13205640	FARMERS UNION	2756.1	770.9	4369.7	7896.7	0.0	0.0	7896.7
13205641	BOISE VALLEY	0.0	922.6	2273.6	3196.2	0.0	-1500.0	1696.2
13205643	CAPITOL VIEW	0.0	273.1	0.0	273.1	0.0	0.0	273.1
13206090	NEW DRY CREEK	0.0	1243.9	2957.2	4201.1	0.0	0.0	4201.1
13206092	NEW UNION	0.0	0.0	591.4	591.4	0.0	0.0	591.4
13206220	WARM SPRINGS	0.0	0.0	60.6	60.6	0.0	0.0	60.6
13206265	BALLENTYNE	0.0	360.6	1111.8	1472.4	0.0	0.0	1472.4
13206270	CONWAY-HAMMING	0.0	0.0	26.7	26.7	0.0	0.0	26.7
13206292	MACE-CATLIN	0.0	0.0	570.8	570.8	0.0	0.0	570.8
13208450	HART-DAVIS	0.0	0.0	201.4	201.4	0.0	0.0	201.4
13208710	MIDDLETON	0.0	0.0	8378.6	8378.6	0.0	0.0	8378.6
13208740	SEVEN SUCKERS	0.0	0.0	145.2	145.2	0.0	0.0	145.2
13209480	PHYLLIS	20158.4	24550.2	14565.5	59274.1	0.0	0.0	59274.1
13209482	EUREKA #1	0.0	0.0	1774.3	1774.3	0.0	0.0	1774.3
13209630	LITTLE PIONEER	0.0	1482.3	0.0	1482.3	0.0	0.0	1482.3
13209990	CANYON COUNTY	0.0	0.0	3942.9	3942.9	0.0	0.0	3942.9
13210992	SEBREE	1136.6	0.0	0.0	1136.6	0.0	0.0	1136.6
99999050	ANDERSON DAM POWER	0.0	5.9	0.0	5.9	0.0	0.0	5.9
99999080	ANDSN UNCONTRACTED	0.0	36311.4	0.0	36311.4	0.0	0.0	36311.4
TOTAL		269979.6	255014.5	203671.1	728665.2	0.0	0.0	728665.2



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TABLE 5. 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS - OCTOBER 31. (ACRE-FEET)

NUMBER	USER	BEGINNING STORAGE	STORAGE USED	BALANCE OCT 31	UNUSED TRANSFERS	UNUSED BANK	EXCESS USED	ARROWROCK UNUSED	ANDERSON CARRYOVER	LUCKY PEAK CARRYOVER
13189600	TRINITY SPRINGS	780.5	0.0	780.5	0.0	0.0	0.0	0.0	780.5	0.0
13199804	OSPREY	293.6	42.7	250.9	0.0	0.0	0.0	0.0	0.0	250.9
13199924	WILDERNESS RANCH	195.8	19.0	176.8	0.0	0.0	0.0	0.0	0.0	176.8
13201050	LUCKY PEAK NURSERY	187.1	3.7	183.4	0.0	0.0	0.0	183.4	0.0	0.0
13201990	F&G INSTREAM	49286.2	52.0	49234.2	0.0	0.0	0.0	0.0	0.0	49234.2
13201991	USBR INSTREAM	103513.7	104.0	103409.7	0.0	0.0	0.0	0.0	0.0	103409.7
13203000	NEW YORK	413502.6	434474.0	-20971.4	0.0	0.0	21119.2	0.0	0.0	0.0
13203527	SURPRIS VY/MICRON	2927.0	0.1	2926.9	0.0	0.0	0.0	0.0	2926.9	0.0
13203760	RIDENBAUGH	5760.2	36116.2	-30356.0	0.0	0.0	30570.0	0.0	0.0	0.0
13203781	WILLIAMS PARK	0.0	14.4	-14.4	0.0	0.0	14.5	0.0	0.0	0.0
13204005	BUBB	518.1	0.0	518.1	0.0	0.0	0.0	0.0	518.1	0.0
13204060	ROSSI MILL	293.6	7.8	285.8	0.0	0.0	0.0	0.0	0.0	285.8
13204190	BOISE CITY	685.2	19.3	665.9	0.0	0.0	0.0	0.0	0.0	665.9
13204200	UNITED WATER	2213.1	4207.0	-1993.9	0.0	0.0	2008.0	0.0	0.0	0.0
13205514	K ALBERTSON	0.0	5.9	-5.9	0.0	0.0	5.9	0.0	0.0	0.0
13205515	SETTLERS	13690.3	6750.8	6939.5	0.0	0.0	0.0	0.0	1374.7	5564.8
13205517	FAIRVIEW ACRES	1468.2	310.3	1157.9	0.0	0.0	0.0	0.0	0.0	1157.9
13205622	THURMAN MILL	783.1	233.5	549.6	0.0	0.0	0.0	0.0	0.0	549.6
13205640	FARMERS UNION	7841.4	16356.3	-8514.9	0.0	0.0	8574.9	0.0	0.0	0.0
13205641	BOISE VALLEY	1684.3	0.0	1684.3	0.0	0.0	0.0	0.0	0.0	1684.3
13205643	CAPITOL VIEW	271.2	0.0	271.2	0.0	0.0	0.0	0.0	271.2	0.0
13205984	RIVERSIDE VILL	0.0	18.9	-18.9	0.0	0.0	19.0	0.0	0.0	0.0
13206090	NEW DRY CREEK	4171.7	579.8	3591.9	0.0	0.0	0.0	0.0	634.7	2957.2
13206092	NEW UNION	587.3	0.0	587.3	0.0	0.0	0.0	0.0	0.0	587.3
13206220	WARM SPRINGS	60.2	29.8	30.4	0.0	0.0	0.0	0.0	0.0	30.4
13206260	GRAHAM-GILBERT	0.0	18.5	-18.5	0.0	0.0	18.6	0.0	0.0	0.0
13206265	BALLENTYNE	1462.1	854.7	607.4	0.0	0.0	0.0	0.0	0.0	607.4
13206270	CONWAY-HAMMING	26.5	10.9	15.6	0.0	0.0	0.0	0.0	0.0	15.6
13206290	THOMAS AIKEN	0.0	32.4	-32.4	0.0	0.0	32.6	0.0	0.0	0.0
13206292	MACE-CATLIN	566.8	1.0	565.8	0.0	0.0	0.0	0.0	0.0	565.8
13206295	MACE-MACE	0.0	27.3	-27.3	0.0	0.0	27.5	0.0	0.0	0.0
13208450	HART-DAVIS	199.9	257.9	-58.0	0.0	0.0	58.4	0.0	0.0	0.0
13208710	MIDDLETON	8320.0	0.0	8320.0	0.0	0.0	0.0	0.0	0.0	8320.0
13208740	SEVEN SUCKERS	144.2	18.0	126.2	0.0	0.0	0.0	0.0	0.0	126.2
13209480	PHYLIS	58859.2	29212.8	29646.4	0.0	0.0	0.0	0.0	15080.9	14565.5
13209482	EUREKA #1	1761.9	669.3	1092.6	0.0	0.0	0.0	0.0	0.0	1092.6
13209630	LITTLE PIONEER	1471.9	88.1	1383.8	0.0	0.0	0.0	0.0	1383.8	0.0
13209990	CANYON COUNTY	3915.3	633.4	3281.9	0.0	0.0	0.0	0.0	0.0	3281.9
13210992	SEBREE	1128.6	135.5	993.1	0.0	0.0	0.0	993.1	0.0	0.0
99999050	ANDERSON DAM POWER	5.9	0.0	5.9	0.0	0.0	0.0	0.0	5.9	0.0
99999080	ANDSN UNCONTRACTED	36311.4	0.0	36311.4	0.0	0.0	0.0	0.0	36311.4	0.0
99999200	FLOW AUGMENTATION	0.0	51504.0	-51504.0	0.0	0.0	51867.1	0.0	0.0	0.0
TOTAL		724888.3	582809.3	142079.0	0.0	0.0	114315.8	1176.5	59288.2	195129.9

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**TABLE 6. 2013 WATER DISTRICT 63 RESERVOIR TOTAL STORAGE - OCTOBER 31 (ACRE-FEET)**

RESERVOIR	CARRYOVER	LATE FILL	TOTAL
ARROWROCK	1176.5	0.0	1176.5
ANDERSON RANCH	59288.2	0.0	59288.2
LUCKY PEAK	195129.9	0.0	195129.9
ANDERSON LST FIL	0.0	0.0	0.0
LUCKY PEAK LST FIL	0.0	0.0	0.0
<b>TOTAL</b>	<b>255594.6</b>	<b>0.0</b>	<b>255594.6</b>

Regular Accounting

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TABLE 1. 2013 BOISE RIVER STORED WATER BY RESERVOIR  
(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	2244.4	269979.6
ANDERSON RANCH	449530.0	259541.4	4526.9	255014.5
LUCKY PEAK	213366.1	206621.0	2949.9	203671.1
ANDERSON LST FIL	500.0	0.0	0.0	0.0
LUCKY PEAK LST FIL	51004.0	0.0	0.0	0.0
TOTAL	986624.1	738386.4	9721.2	728665.2

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TABLE 2. 2013 BOISE RIVER RESERVOIR SPACE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	ANDERSON	LUCKY PEAK	TOTAL
13189600	TRINITY SPRINGS	0.0	800.0	0.0	0.0	0.0	800.0
13199804	OSPREY	0.0	0.0	300.0	0.0	0.0	300.0
13199924	WILDERNESS RANCH	0.0	0.0	200.0	0.0	0.0	200.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	190.0
13201990	F&G INSTREAM	0.0	0.0	50000.0	0.0	0.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	105013.0	0.0	38339.0	143352.0
13203000	NEW YORK	241321.0	351554.0	0.0	0.0	0.0	592875.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	0.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	0.0	0.0	18579.0
13204005	BUBB	0.0	531.0	0.0	0.0	0.0	531.0
13204060	ROSSI MILL	0.0	0.0	300.0	0.0	400.0	700.0
13204190	BOISE CITY	0.0	0.0	700.0	0.0	0.0	700.0
13204200	UNITED WATER	0.0	1000.0	1100.0	0.0	0.0	2100.0
13205515	SETTLERS	2668.0	5675.0	6500.0	0.0	3500.0	18343.0
13205517	FAIRVIEW ACRES	0.0	0.0	1500.0	0.0	0.0	1500.0
13205622	THURMAN MILL	0.0	0.0	800.0	0.0	0.0	800.0
13205640	FARMERS UNION	2779.0	5593.0	8135.0	0.0	1865.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	0.0	0.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	0.0	0.0	0.0	449.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	600.0	0.0	300.0	900.0
13206220	WARM SPRINGS	0.0	0.0	61.5	0.0	33.0	94.5
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13206270	CONWAY-HAMMING	0.0	0.0	27.1	0.0	14.0	41.1
13206292	MACE-CATLIN	0.0	0.0	579.1	0.0	311.0	890.1
13208450	HART-DAVIS	0.0	0.0	303.1	0.0	163.0	466.1
13208710	MIDDLETON	0.0	0.0	8500.0	0.0	2500.0	11000.0
13208740	SEVEN SUCKERS	0.0	0.0	147.3	0.0	79.0	226.3
13209480	PHYLLIS	20326.0	24986.0	16000.0	0.0	0.0	61312.0
13209482	EUREKA #1	0.0	0.0	1800.0	0.0	1000.0	2800.0
13209630	LITTLE PIONEER	0.0	1623.0	0.0	500.0	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	4000.0	0.0	2000.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	0.0	0.0	6.0
99999080	ANDSN UNCONTRACTED	0.0	36956.0	0.0	0.0	0.0	36956.0
TOTAL		272224.0	449530.0	213366.1	500.0	51004.0	986624.1

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TABLE 3. 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK STORAGE	*-----ANDERSON RANCH-----* CARRYOVER NEW FLL STORAGE	*-----LUCKY PEAK-----* CARRYOVER NEW FILL STORAGE
13189600	TRINITY SPRINGS	0.0	786.4	13.6
13199804	OSPREY	0.0	0.0	0.0
13199924	WILDERNESS RANCH	0.0	0.0	0.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0
13201990	F&G INSTREAM	0.0	0.0	0.0
13201991	USBR INSTREAM	0.0	0.0	0.0
13203000	NEW YORK	241321.0	130913.3	59128.0
13203527	SURPRIS VY/MICRON	0.0	2948.9	51.1
13203760	RIDENBAUGH	3794.0	0.2	2486.7
13204005	BUBB	0.0	522.0	9.0
13204060	ROSSI MILL	0.0	0.0	0.0
13204190	BOISE CITY	0.0	0.0	0.0
13204200	UNITED WATER	0.0	0.0	168.2
13205515	SETTLERS	2668.0	1278.4	954.5
13205517	FAIRVIEW ACRES	0.0	0.0	0.0
13205622	THURMAN MILL	0.0	0.0	0.0
13205640	FARMERS UNION	2779.0	0.0	940.7
13205641	BOISE VALLEY	0.0	0.0	157.9
13205643	CAPITOL VIEW	0.0	215.0	75.5
13206090	NEW DRY CREEK	0.0	643.9	212.9
13206092	NEW UNION	0.0	0.0	0.0
13206220	WARM SPRINGS	0.0	0.0	0.0
13206265	BALLENTYNE	0.0	0.0	61.7
13206270	CONWAY-HAMMING	0.0	0.0	0.0
13206292	MACE-CATLIN	0.0	0.0	0.0
13208450	HART-DAVIS	0.0	0.0	0.0
13208710	MIDDLETON	0.0	0.0	0.0
13208740	SEVEN SUCKERS	0.0	0.0	0.0
13209480	PHYLLIS	20326.0	15255.2	4202.4
13209482	EUREKA #1	0.0	0.0	0.0
13209630	LITTLE PIONEER	0.0	1280.9	273.0
13209990	CANYON COUNTY	0.0	0.0	0.0
13210992	SEBREE	1146.0	0.0	0.0
99999050	ANDERSON DAM POWER	0.0	5.9	0.1
99999080	ANDSN UNCONTRACTED	0.0	36583.8	372.2
TOTAL		272224.0	190433.9	69107.5

259541.4 125709.4 80911.6 206621.0

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TABLE 3 (CONTINUED). 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	*ANDERSON RANCH LAST FILL *			*--- LUCKY PEAK LAST FILL --			*----- TOTAL -----*		
		CARRYOVER	NEW FILL	STORAGE	CARRYOVER	NEW FILL	STORAGE	CARRYOVER	NEW FILL	STORAGE
13189600	TRINITY SPRINGS	0.0	0.0	0.0	0.0	0.0	0.0	786.4	13.6	800.0
13199804	OSPREY	0.0	0.0	0.0	0.0	0.0	0.0	251.3	48.7	300.0
13199924	WILDERNESS RANCH	0.0	0.0	0.0	0.0	0.0	0.0	177.0	23.0	200.0
13201050	LUCKY PEAK NURSERY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190.0	190.0
13201990	F&G INSTREAM	0.0	0.0	0.0	0.0	0.0	0.0	25325.6	23352.9	48678.5
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	0.0	0.0	55588.6	49047.2	104635.8
13203000	NEW YORK	0.0	0.0	0.0	0.0	0.0	0.0	130913.3	300449.0	431362.3
13203527	SURPRIS VY/MICRON	0.0	0.0	0.0	0.0	0.0	0.0	2948.9	51.1	3000.0
13203760	RIDENBAUGH	0.0	0.0	0.0	0.0	0.0	0.0	0.2	6280.7	6280.9
13204005	BUBB	0.0	0.0	0.0	0.0	0.0	0.0	522.0	9.0	531.0
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	0.0	0.0	280.9	19.1	300.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	0.0	0.0	666.6	33.4	700.0
13204200	UNITED WATER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	682.0	682.0
13205515	SETTLERS	0.0	0.0	0.0	0.0	0.0	0.0	7778.4	3622.5	11400.9
13205517	FAIRVIEW ACRES	0.0	0.0	0.0	0.0	0.0	0.0	1159.5	340.5	1500.0
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	0.0	0.0	550.4	249.6	800.0
13205640	FARMERS UNION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7519.2	7519.2
13205641	BOISE VALLEY	0.0	0.0	0.0	0.0	0.0	0.0	1883.2	774.7	2657.9
13205643	CAPITOL VIEW	0.0	0.0	0.0	0.0	0.0	0.0	215.0	75.5	290.5
13206090	NEW DRY CREEK	0.0	0.0	0.0	0.0	0.0	0.0	3617.4	239.4	3856.8
13206092	NEW UNION	0.0	0.0	0.0	0.0	0.0	0.0	586.6	13.4	600.0
13206220	WARM SPRINGS	0.0	0.0	0.0	0.0	0.0	0.0	30.5	28.7	59.2
13206265	BALLENTYNE	0.0	0.0	0.0	0.0	0.0	0.0	786.5	575.2	1361.7
13206270	CONWAY-HAMMING	0.0	0.0	0.0	0.0	0.0	0.0	15.7	11.4	27.1
13206292	MACE-CATLIN	0.0	0.0	0.0	0.0	0.0	0.0	488.3	90.8	579.1
13208450	HART-DAVIS	0.0	0.0	0.0	0.0	0.0	0.0	39.1	141.6	180.7
13208710	MIDDLETON	0.0	0.0	0.0	0.0	0.0	0.0	8296.0	204.0	8500.0
13208740	SEVEN SUCKERS	0.0	0.0	0.0	0.0	0.0	0.0	126.3	21.0	147.3
13209480	PHYLLIS	0.0	0.0	0.0	0.0	0.0	0.0	31043.6	24740.0	55783.6
13209482	EUREKA #1	0.0	0.0	0.0	0.0	0.0	0.0	1094.5	705.5	1800.0
13209630	LITTLE PIONEER	0.0	0.0	0.0	0.0	0.0	0.0	1280.9	273.0	1553.9
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	0.0	0.0	3100.9	899.1	4000.0
13210992	SEBREE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1146.0	1146.0
99999050	ANDERSON DAM POWER	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.1	6.0
99999080	ANDSN UNCONTRACTED	0.0	0.0	0.0	0.0	0.0	0.0	36583.8	372.2	36956.0
TOTAL		0.0	0.0	0.0	0.0	0.0	0.0	316143.3	422243.1	738386.4

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TABLE 4. 2013 BOISE RIVER RESERVOIR NET STORAGE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	SUBTOTAL	TRANSFERS	RNT POOL	TOTAL AFTER LOSS
13189600	TRINITY SPRINGS	0.0	786.0	0.0	786.0	0.0	0.0	786.0 780.5
13199804	OSPREY	0.0	0.0	295.7	295.7	0.0	0.0	295.7 293.6
13199924	WILDERNESS RANCH	0.0	0.0	197.1	197.1	0.0	0.0	197.1 195.8
13201050	LUCKY PEAK NURSERY	188.4	0.0	0.0	188.4	0.0	0.0	188.4 187.1
13201990	F&G INSTREAM	0.0	0.0	47983.5	47983.5	0.0	0.0	47983.5 47983.5
13201991	USBR INSTREAM	0.0	0.0	103141.9	103141.9	0.0	0.0	103141.9 103141.9
13203000	NEW YORK	239331.4	186726.6	0.0	426058.0	0.0	0.0	426058.0 423075.5
13203527	SURPRIS VY/MICRON	0.0	2947.7	0.0	2947.7	0.0	0.0	2947.7 2927.0
13203760	RIDENBAUGH	3762.7	2443.5	0.0	6206.2	0.0	0.0	6206.2 6162.8
13204005	BUBB	0.0	521.7	0.0	521.7	0.0	0.0	521.7 518.1
13204060	ROSSI MILL	0.0	0.0	295.7	295.7	0.0	0.0	295.7 293.6
13204190	BOISE CITY	0.0	0.0	690.0	690.0	0.0	0.0	690.0 685.2
13204200	UNITED WATER	0.0	165.3	506.4	671.7	0.0	1500.0	2171.7 2156.5
13205515	SETTLERS	2646.0	2193.9	6407.2	11247.1	0.0	0.0	11247.1 11168.4
13205517	FAIRVIEW ACRES	0.0	0.0	1478.6	1478.6	0.0	0.0	1478.6 1468.2
13205622	THURMAN MILL	0.0	0.0	788.6	788.6	0.0	0.0	788.6 783.1
13205640	FARMERS UNION	2756.1	924.3	3745.3	7425.6	0.0	0.0	7425.6 7373.7
13205641	BOISE VALLEY	0.0	155.2	2464.3	2619.5	0.0	-1500.0	1119.5 1111.6
13205643	CAPITOL VIEW	0.0	285.5	0.0	285.5	0.0	0.0	285.5 283.5
13206090	NEW DRY CREEK	0.0	841.9	2957.2	3799.1	0.0	0.0	3799.1 3772.5
13206092	NEW UNION	0.0	0.0	591.4	591.4	0.0	0.0	591.4 587.3
13206220	WARM SPRINGS	0.0	0.0	58.4	58.4	0.0	0.0	58.4 58.0
13206265	BALLENTYNE	0.0	60.6	1281.4	1342.1	0.0	0.0	1342.1 1332.7
13206270	CONWAY-HAMMING	0.0	0.0	26.7	26.7	0.0	0.0	26.7 26.5
13206292	MACE-CATLIN	0.0	0.0	570.8	570.8	0.0	0.0	570.8 566.8
13208450	HART-DAVIS	0.0	0.0	178.1	178.1	0.0	0.0	178.1 176.8
13208710	MIDDLETON	0.0	0.0	8378.6	8378.6	0.0	0.0	8378.6 8320.0
13208740	SEVEN SUCKERS	0.0	0.0	145.2	145.2	0.0	0.0	145.2 144.2
13209480	PHYLLIS	20158.4	19118.2	15771.6	55048.2	0.0	0.0	55048.2 54662.9
13209482	EUREKA #1	0.0	0.0	1774.3	1774.3	0.0	0.0	1774.3 1761.9
13209630	LITTLE PIONEER	0.0	1526.8	0.0	1526.8	0.0	0.0	1526.8 1516.1
13209990	CANYON COUNTY	0.0	0.0	3942.9	3942.9	0.0	0.0	3942.9 3915.3
13210992	SEBREE	1136.6	0.0	0.0	1136.6	0.0	0.0	1136.6 1128.6
99999050	ANDERSON DAM POWER	0.0	5.9	0.0	5.9	0.0	0.0	5.9 5.9
99999080	ANDSN UNCONTRACTED	0.0	36311.4	0.0	36311.4	0.0	0.0	36311.4 36311.4
TOTAL		269979.6	255014.5	203671.1	728665.2	0.0	0.0	728665.2 724876.6

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TABLE 5. 2013 BOISE RIVER RESERVOIR STORAGE ACCOUNTS - OCTOBER 31. (ACRE-FEET)

NUMBER	USER	BEGINNING STORAGE	STORAGE USED	BALANCE OCT 31	UNUSED TRANSFERS	UNUSED BANK	EXCESS USED	ARROWROCK UNUSED	ANDERSON CARRYOVER	LUCKY PEAK CARRYOVER
13189600	TRINITY SPRINGS	780.5	0.0	780.5	0.0	0.0	0.0	0.0	780.5	0.0
13199804	OSPREY	293.6	42.7	250.9	0.0	0.0	0.0	0.0	0.0	250.9
13199924	WILDERNESS RANCH	195.8	19.0	176.8	0.0	0.0	0.0	0.0	0.0	176.8
13201050	LUCKY PEAK NURSERY	187.1	3.7	183.4	0.0	0.0	0.0	183.4	0.0	0.0
13201990	F&G INSTREAM	47983.5	52.0	47931.5	0.0	0.0	0.0	0.0	0.0	47931.5
13201991	USBR INSTREAM	103141.9	104.0	103037.9	0.0	0.0	0.0	0.0	0.0	103037.9
13203000	NEW YORK	423075.5	434474.0	-11398.5	0.0	0.0	11478.8	0.0	0.0	0.0
13203527	SURPRIS VY/MICRON	2927.0	0.1	2926.9	0.0	0.0	0.0	0.0	2926.9	0.0
13203760	RIDENBAUGH	6162.8	36116.2	-29953.4	0.0	0.0	30164.6	0.0	0.0	0.0
13203781	WILLIAMS PARK	0.0	14.4	-14.4	0.0	0.0	14.5	0.0	0.0	0.0
13204005	BUBB	518.1	0.0	518.1	0.0	0.0	0.0	0.0	518.1	0.0
13204060	ROSSI MILL	293.6	7.8	285.8	0.0	0.0	0.0	0.0	0.0	285.8
13204190	BOISE CITY	685.2	19.3	665.9	0.0	0.0	0.0	0.0	0.0	665.9
13204200	UNITED WATER	2156.5	4207.0	-2050.5	0.0	0.0	2065.0	0.0	0.0	0.0
13205514	K ALBERTSON	0.0	5.9	-5.9	0.0	0.0	5.9	0.0	0.0	0.0
13205515	SETTLERS	11168.4	6750.8	4417.6	0.0	0.0	0.0	0.0	0.0	4417.6
13205517	FAIRVIEW ACRES	1468.2	310.3	1157.9	0.0	0.0	0.0	0.0	0.0	1157.9
13205622	THURMAN MILL	783.1	233.5	549.6	0.0	0.0	0.0	0.0	0.0	549.6
13205640	FARMERS UNION	7373.7	16356.3	-8982.6	0.0	0.0	9046.0	0.0	0.0	0.0
13205641	BOISE VALLEY	1111.6	0.0	1111.6	0.0	0.0	0.0	0.0	0.0	1111.6
13205643	CAPITOL VIEW	283.5	0.0	283.5	0.0	0.0	0.0	0.0	283.5	0.0
13205984	RIVERSIDE VILL	0.0	18.9	-18.9	0.0	0.0	19.0	0.0	0.0	0.0
13206090	NEW DRY CREEK	3772.5	579.8	3192.7	0.0	0.0	0.0	0.0	235.5	2957.2
13206092	NEW UNION	587.3	0.0	587.3	0.0	0.0	0.0	0.0	0.0	587.3
13206220	WARM SPRINGS	58.0	29.8	28.2	0.0	0.0	0.0	0.0	0.0	28.2
13206260	GRAHAM-GILBERT	0.0	18.5	-18.5	0.0	0.0	18.6	0.0	0.0	0.0
13206265	BALLENTYNE	1332.7	854.7	478.0	0.0	0.0	0.0	0.0	0.0	478.0
13206270	CONWAY-HAMMING	26.5	10.9	15.6	0.0	0.0	0.0	0.0	0.0	15.6
13206290	THOMAS AIKEN	0.0	32.4	-32.4	0.0	0.0	32.6	0.0	0.0	0.0
13206292	MACE-CATLIN	566.8	1.0	565.8	0.0	0.0	0.0	0.0	0.0	565.8
13206295	MACE-MACE	0.0	27.3	-27.3	0.0	0.0	27.5	0.0	0.0	0.0
13208450	HART-DAVIS	176.8	257.9	-81.1	0.0	0.0	81.6	0.0	0.0	0.0
13208710	MIDDLETON	8320.0	0.0	8320.0	0.0	0.0	0.0	0.0	0.0	8320.0
13208740	SEVEN SUCKERS	144.2	18.0	126.2	0.0	0.0	0.0	0.0	0.0	126.2
13209480	PHYLLIS	54662.9	29212.8	25450.1	0.0	0.0	0.0	0.0	9678.5	15771.6
13209482	EUREKA #1	1761.9	669.3	1092.6	0.0	0.0	0.0	0.0	0.0	1092.6
13209630	LITTLE PIONEER	1516.1	88.1	1428.0	0.0	0.0	0.0	0.0	1428.0	0.0
13209990	CANYON COUNTY	3915.3	633.4	3281.9	0.0	0.0	0.0	0.0	0.0	3281.9
13210992	SEBREE	1128.6	135.5	993.1	0.0	0.0	0.0	993.1	0.0	0.0
99999050	ANDERSON DAM POWER	5.9	0.0	5.9	0.0	0.0	0.0	0.0	5.9	0.0
99999080	ANDSN UNCONTRACTED	36311.4	0.0	36311.4	0.0	0.0	0.0	0.0	36311.4	0.0
99999200	FLOW AUGMENTATION	0.0	51504.0	-51504.0	0.0	0.0	51867.1	0.0	0.0	0.0
TOTAL		724876.6	582809.3	142067.3	0.0	0.0104821.3	1176.5	52168.3	192810.0	



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**TABLE 6. 2013 WATER DISTRICT 63 RESERVOIR TOTAL STORAGE - OCTOBER 31 (ACRE-FEET)**

RESERVOIR	CARRYOVER	LATE FILL	TOTAL
ARROWROCK	1176.5	0.0	1176.5
ANDERSON RANCH	52168.3	0.0	52168.3
LUCKY PEAK	192810.0	0.0	192810.0
ANDERSON LST FIL	0.0	0.0	0.0
LUCKY PEAK LST FIL	0.0	0.0	0.0
<b>TOTAL</b>	<b>246154.8</b>	<b>0.0</b>	<b>246154.8</b>