

BOISE RIVER STORED WATER SUPPLY (ACRE-FEET)

	Date:	16-Jun-04 Restart
Supply:		
Accounted for storage		898657.6
Unaccounted for storage		0.0
Late season fill		
Total Storage Available		898657.6
Use:		
Canals and pumps		1464.2
Stored flow passing Middleton		
Endangered species		
Flood Release		
Operational Flow		11715.0
Release due to Arrowrock Construction		
Total Passing Middleton		11715.0
Evaporation		7176.2
Fish and Game		
USBR Streamflow		
Total Storage Used		20355.4
Net Storage		878302.2
Actual Storage	(840137+39,960)	880097.0
Averaging Error		-1794.8

Unaccounted for storage is flood control water without a right. This is added to Anderson Ranch for the restart.
19,963 Acre-Feet is stored flow released due to Arrowrock valve construction.
Reservoir storage is reset as follows:
Arrowrock - 252,261 Acre-Feet (full - 19,963)
Anderson Ranch - 382026.6 Acre-Feet (Fill + Unaccounted)
Lucky Peak - 264,370 AF (full)

BOISE RIVER STORED WATER SUPPLY (ACRE-FEET)

	Date:	16-Jun-04
Supply:		
Accounted for storage		890935.2
Unaccounted for storage		27685.4
Late season fill		
Total Storage Available		918620.6
Use:		
Canals and pumps		1464.2
Stored flow passing Middleton		
Endangered species		
Flood Release		
Operational Flow		11715.0
Release due to Arrowrock Construction		19963.0
Total Passing Middleton	(107235.0-24754-50803)	31678.0
Evaporation		7176.2
Fish and Game		
USBR Streamflow		
Total Storage Used		40318.4
Net Storage		878302.2
Actual Storage	(840137+39,960)	880097.0
Averaging Error		-1794.8

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BOISE RIVER STORED WATER SUPPLY (ACRE-FEET)

	Date:	22-Apr-02 (RESTART)
Supply:		
Accounted for storage		637988.7
Unaccounted for storage		
Late season fill		
Total Storage Available		637988.7
Use:		
Canals and pumps		64.0
Endangered species		
Evaporation		1292.3
Fish and Game		
USBR Streamflow		
Flood Release*		11285.0 **
Total Storage Used		12641.3
Net Storage		625347.4
Actual Storage	(591,317+39,960)	631277.0
Averaging Error		(5929.6)

Middleton Stored April 22 = 60756.8 AF

Middleton Stored April 9 = 49471.4 AF

Flow Stored from April 9 to April 22 = 11285 AF

Total stored flow in Anderson from Nov. 1 to Apr. 22 = 12,656 AF, so all of 11285 AF is stored water from Anderson Ranch. The USBR released 300cfs from Anderson Ranch during the winter for fish.

Until Jan 21, the natural flow is less than 300cfs, so this is stored flow in Arrowrock. Arrowrock fills April 4. On April 10, flow increased because of problems with a late reported shift at the Middleton Gage and problems with the Eagle Island Split. USBR orders a flood release from April 19 to April 22 due to rain on snow event. Flood release would have been greater if April 10 - April 19 flows were less. Therefore, 11285 AF will be taken out of new fill for USBR. USBR carryover will be unchanged at 39079 AF.

*Anderson storage in Arrowrock/Lucky Peak that was exchanged to maintain minimum flood space in Arrowrock/Lucky Peak.

**Differs from 10,528.8 because of fish release in winter that was lost before reaching Middleton (25,071 + 25,157) > 49,471.1.

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Supply:		
Accounted for storage		637988.7
Unaccounted for storage		
Late season fill		
Total Storage Available		637988.7
Use:		
Canals and pumps		64.0
Endangered species		
Evaporation		1292.3
Fish and Game		
USBR Streamflow		
Passing Middleton	(60756.8-25071-25157)	10528.8
Total Storage Used		11885.1
Net Storage		626103.6
Actual Storage	(591,317+39,960)	631277.0
Averaging Error		(5173.4)

BOI WRA.ALC

13204200D2004200	17.9	14.0	1120.9	612.0	1074.5	0.0
13204200D2004201	17.6	13.7	1148.1	584.8	1109.4	0.0
13204200D2004202	17.6	13.7	1175.3	557.6	1144.3	0.0
13204200D2004203	17.7	13.8	1202.6	530.3	1179.4	0.0
13204200D2004204	17.8	13.9	1230.2	502.7	1214.7	0.0
13204200D2004205	17.9	16.5	1263.0	469.9	1250.2	0.0
13204200D2004206	18.0	16.6	1296.0	436.9	1285.9	0.0
13204200D2004207	18.1	16.7	1329.2	403.7	35.9	0.0
13204200D2004208	18.2	16.8	1362.6	370.3	72.0	0.0
13204200D2004209	21.0	19.6	1401.5	331.4	113.7	0.0
13204200D2004210	22.0	20.6	1442.4	290.5	157.3	0.0
13204200D2004211	20.0	18.6	1479.4	253.5	197.0	0.0
13204200D2004212	20.0	18.6	1516.4	216.5	236.6	0.0
13204200D2004213	21.0	19.6	1555.3	177.6	278.3	0.0
13204200D2004214	21.0	19.6	1594.2	1138.7	319.9	0.0
13204200D2004215	25.0	23.6	1641.1	91.8	369.5	0.0
13205500F2003305	607.5	253.1	253.1	0.0	19110113	
13205500F2003306	563.3	252.6	252.6	0.0	19110113	
13205500F2003307	669.4	254.4	254.4	0.0	19110113	
13205500F2003308	642.1	246.5	246.5	0.0	19110113	
13205500F2003309	515.9	244.7	244.7	0.0	19110113	
13205500F2003310	561.2	243.4	243.4	0.0	19110113	

Change from 138.7
 Boise Valley transfer to
 United Water on Aug. 1, 2004
 then add flow augmentation
 transfer of 5499 AF
 $+ 1138.7 \text{ AF}$

 6637.7

BOIWRRA.ALC

13205641D2004200	49.2	9.5	257.2	2680.3	3213.5	0.0
13205641D2004201	49.0	9.3	275.5	2662.0	3310.7	0.0
13205641D2004202	49.0	9.3	293.9	2643.6	3407.9	0.0
13205641D2004203	49.2	9.5	312.7	2624.8	3505.4	0.0
13205641D2004204	49.4	9.7	331.9	2605.6	3603.4	0.0
13205641D2004205	49.6	9.9	351.4	2586.1	3701.8	0.0
13205641D2004206	49.8	10.1	371.4	2566.1	3800.6	0.0
13205641D2004207	50.0	10.3	391.8	2545.7	99.2	0.0
13205641D2004208	50.2	10.5	412.5	2525.0	198.7	0.0
13205641D2004209	50.0	10.3	432.9	2504.6	297.9	0.0
13205641D2004210	50.0	10.3	453.2	2484.3	397.1	0.0
13205641D2004211	50.0	10.3	473.6	2463.9	496.3	0.0
13205641D2004212	50.0	10.3	493.9	2443.6	595.4	0.0
13205641D2004213	50.0	10.3	514.3	2423.2	694.6	0.0
13205641D2004214	50.0	10.3	534.7	2402.8	793.8	0.0
13205641D2004215	50.0	10.3	555.0	2382.5	893.0	0.0
13205643D2004106	7.0	0.0	0.0	432.1	13.9	0.0
13205643D2004107	7.0	0.0	0.0	432.1	27.8	0.0
13205643D2004108	7.0	0.0	0.0	432.1	41.7	0.0
13205643D2004109	7.0	0.0	0.0	432.1	55.5	0.0
13205643D2004110	7.0	0.0	0.0	432.1	69.4	0.0
13205643D2004111	7.0	0.0	0.0	432.1	83.3	0.0

Change from to 1402.8

Boise Valley transfer to
United Water on

Aug. 1, 2004

~~Then add Flow Augmentation~~

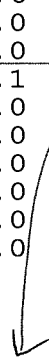
BOI WRA, ALC

13203000D2004200	2320.4	2283.4	107309.4	434937.6	141829.8	0.0
13203000D2004201	2322.5	2259.5	111791.1	430448.4	146436.5	0.0
13203000D2004202	2324.0	2217.5	116189.5	426042.5	151046.1	0.0
13203000D2004203	2328.7	2291.7	120735.0	421491.6	155665.1	0.0
13203000D2004204	2324.8	2287.8	125272.8	416948.3	160276.3	0.0
13203000D2004205	2326.3	2294.6	129824.2	412391.5	164890.5	0.0
13203000D2004206	2328.0	2296.3	134378.9	407831.3	169508.1	0.0
13203000D2004207	2329.7	2298.7	138938.4	403266.3	4621.0	0.0
13203000D2004208	2252.0	2221.0	143343.8	398855.5	9087.8	0.0
13203000D2004209	2254.0	2222.3	147751.8	394442.1	13558.6	0.0
13203000D2004210	2248.0	2216.3	152147.8	390040.6	18017.5	0.0
13203000D2004211	2246.0	2214.3	156539.8	385643.0	22472.5	0.0
13203000D2004212	2243.0	2212.0	160927.4	381250.0	26921.5	0.0
13203000D2004213	2243.0	2212.0	165314.9	376857.0	31370.4	0.0
13203000D2004214	2243.0	2212.0	169702.5	372464.0	35819.4	0.0
13203000D2004215	2245.0	2214.0	174094.0	368067.1	40272.4	0.0
13203527D2004092	1.8	0.0	0.0	0.0	3.6	0.0
13203527D2004093	1.8	0.0	0.0	0.0	7.1	0.0
13203527D2004094	1.9	0.0	0.0	0.0	10.9	0.0
13203527D2004095	1.9	0.0	0.0	0.0	14.7	0.0
13203527D2004096	1.9	0.0	0.0	0.0	18.4	0.0
13203527D2004097	1.9	0.0	0.0	0.0	22.2	0.0

↓
 Change to 3⁴/₅ 2,464.1
 NY transfer to Ridenbaugh
 Aug 1, 2004

BOI WRA.ALC


13203760D2004200	473.3	156.2	4063.7	7676.9	30577.4	0.0
13203760D2004201	473.0	155.3	4371.8	7368.8	31515.6	0.0
13203760D2004202	473.0	155.3	4679.9	7060.7	32453.8	0.0
13203760D2004203	472.7	155.6	4988.6	6752.0	33391.4	0.0
13203760D2004204	472.4	155.3	5296.7	6443.9	34328.4	0.0
13203760D2004205	472.1	301.1	5894.0	5846.6	35264.8	0.0
13203760D2004206	471.8	367.8	6623.5	5117.1	36200.7	0.0
13203760D2004207	471.5	367.5	7352.5	4388.1	935.2	0.0
13203760D2004208	471.2	367.2	8080.8	3659.8	1869.8	0.0
13203760D2004209	471.0	278.2	8632.7	3107.9	2804.1	0.0
13203760D2004210	470.8	353.3	9333.4	2407.2	3737.9	0.0
13203760D2004211	470.6	364.2	10055.8	1684.8	4671.3	0.0
13203760D2004212	470.4	366.4	10782.6	958.0	5604.4	0.0
13203760D2004213	470.2	366.2	11509.0	231.6	6537.0	0.0
13203760D2004214	470.0	366.0	12235.0	9505.6	7469.3	0.0
13203760D2004215	460.0	356.0	12941.1	-1200.5	8381.7	0.0
13204005D2004106	5.0	0.0	0.0	511.0	9.9	0.0
13204005D2004107	5.1	0.0	0.0	511.0	20.0	0.0
13204005D2004108	5.3	0.0	0.0	511.0	30.5	0.0
13204005D2004109	5.4	0.0	0.0	511.0	41.3	0.0
13204005D2004110	5.6	0.0	0.0	511.0	52.4	0.0
13204005D2004111	5.7	0.0	0.0	511.0	63.7	0.0



 Change from -494
 NY transfer to Rickenbaugh
 Aug 1, 2004

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	289	306	366	449	1181	328	220	483	505	526	261
2	360	300	297	381	438	768	318	187	442	527	531	239
3	341	312	302	365	444	435	282	180	422	569	550	224
4	353	306	294	360	434	417	239	160	382	517	573	221
5	339	293	294	358	416	409	545	179	373	540	606	265
6	350	284	299	370	402	386	546	167	365	600	555	251
7	340	289	315	373	417	375	768	168	340	541	554	---
8	358	288	318	395	405	375	695	196	318	501	559	---
9	454	278	303	400	402	377	635	176	304	476	582	---
10	366	288	301	400	381	388	583	198	314	519	610	---
11	349	298	307	392	364	422	530	307	320	582	569	---
12	331	350	320	389	364	384	474	332	324	552	561	---
13	331	297	362	379	361	383	443	333	333	536	551	---
14	364	290	341	376	354	389	430	319	303	524	553	---
15	593	267	327	372	357	391	420	302	285	519	568	---
16	391	271	319	368	366	385	381	381	316	538	583	---
17	336	321	311	366	471	385	295	342	268	516	728	---
18	325	297	318	360	501	386	275	358	234	536	720	---
19	317	286	318	365	510	385	280	384	240	550	582	---
20	307	289	318	360	524	378	293	351	246	596	418	---
21	308	291	316	363	1039	377	327	342	301	573	372	---
22	302	284	316	371	1063	379	380	358	519	572	390	---
23	305	284	314	366	1081	384	364	358	510	588	402 ✓	---
24	314	288	344	376	1182	384	336	340	472	566	391 ✓	---
25	328	292	375	374	1202	372	320	333	569	577	462 ✓	---
26	317	288	346	373	1228	385	335	331	539	577	469 ✓	---
27	306	283	332	368	1214	374	327	348	494	562	411 ✓	---
28	306	285	329	400	1198	367	337	578	579	533	422 ✓	---
29	324	309	352	546	1191	355	349	502	606	541	386 ✓	---
30	331	309	390	534	---	334	355	491	691	539	316 ✓	---
31	288	---	358	482	---	340	---	492	---	538	265	---
TOTAL	10656	8806	10042	12048	18758	13048	12187	9713	11892	16908	15763	1462
MEAN	344	294	324	389	647	421	406	313	396	545	508	244
MAX	593	350	390	546	1228	1181	768	578	691	600	728	265
MIN	288	267	294	358	354	334	239	160	234	476	265	221
AC-FT	21135	17467	19918	23897	37206	25880	24172	19266	23588	33537	31267	2900
WATER YEAR 2004	TOTAL	141282	MEAN	386	AC-FT	280233						



energy and experience working for you

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Flow & Data Table

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Selected Station: 13210050 - Boise River nr Middleton, Id (BOMI)	From: Aug. 2004 SET	To: Sep. 2004 SET																																																																																																		
Station #13210050	<table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td>1</td><td>2</td><td>3</td><td>4</td></tr> </table>	S	M	T	W	T	F	S	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	<table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td>29</td><td>30</td><td>31</td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>1</td><td>2</td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> </table>	S	M	T	W	T	F	S	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9
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Data Quality-assured up to: Oct. 1, 2003 All others are provisional	Select Another Station	Refresh Dates																																																																																																		

PROVISIONAL AND SUBJECT TO REVISION

Flow		
08/23/2004 through 09/14/2004		
Date	Avg Flow (cfs)	Flag
08/23/2004	402.0	
08/24/2004	391.0	
08/25/2004	462.0	
08/26/2004	469.0	
08/27/2004	411.0	
08/28/2004	422.0	
08/29/2004	386.0	
08/30/2004	392.0	
08/31/2004	355.0	
09/01/2004	351.0	
09/02/2004	327.0	
09/03/2004	310.0	
09/04/2004	306.0	
09/05/2004	354.0	
09/06/2004	340.0	
09/07/2004	309.0	
09/08/2004	292.0	
09/09/2004	282.0	

hydromet
316
265
261
259
274
221

09/10/2004	304.0
09/11/2004	322.0
09/12/2004	343.0

* This data collection for the current water year is considered provisional, meaning it is subject to change until reviewed and finalized. The data collection for the previous water year is typically finalized during the first half of the current water year. Although Idaho Power Company makes every effort to maintain complete and accurate data, users of provisional data are urged to use caution in that errors are likely. You should independently verify data before using it to conduct business having substantial monetary or operational consequences. Inappropriate use of provisional data could cause personal injury or property damage.

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STO-0000-59986513853

PRELIMINARY DATA

13203550 DIVERSION DAM

CONTENTS IN ACRE FEET, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	---	---	---	---	320	328	400	---	---	---	---	---
2	---	---	---	---	320	328	401	---	---	---	---	---
3	---	---	---	---	319	331	404	---	---	---	---	---
4	---	---	---	---	319	333	402	---	---	---	---	---
5	---	---	---	---	319	334	402	---	---	---	---	---
6	---	---	---	---	319	335	413	---	---	---	---	---
7	---	---	---	---	320	334	412	---	---	---	---	---
8	---	---	---	---	319	346	412	---	---	---	---	---
9	---	---	---	---	319	361	412	---	---	---	---	---
10	---	---	---	---	319	365	411	---	---	---	---	---
11	---	---	---	---	319	366	411	---	---	---	---	---
12	---	---	---	---	319	372	410	---	---	---	---	---
13	---	---	---	---	320	378	410	---	---	---	---	---
14	---	---	---	---	319	379	411	---	---	---	---	---
15	---	---	---	---	318	385	410	---	---	---	---	---
16	---	---	---	---	319	383	411	---	---	---	---	---
17	---	---	---	---	319	386	---	---	---	---	---	---
18	---	---	---	---	318	394	---	---	---	---	---	---
19	---	---	---	---	317	401	---	---	---	---	---	---
20	---	---	---	460	318	401	---	---	---	---	---	---
21	---	---	---	319	317	401	---	---	---	---	---	---
22	---	---	---	318	318	403	---	---	---	---	---	---
23	---	---	---	---	318	399	---	---	---	---	---	---
24	---	---	---	---	318	395	---	---	---	---	---	---
25	---	---	---	---	318	395	---	---	---	---	---	---
26	---	---	---	322	317	395	---	---	---	---	---	---
27	---	---	---	315	318	395	---	---	---	---	---	---
28	---	---	---	316	318	395	---	---	---	---	---	---
29	---	---	---	---	318	397	---	---	---	---	---	---
30	---	---	---	---	318	397	---	---	---	---	---	---
31	---	---	---	---	318	---	---	---	---	---	---	---
MAX				460	320	403	413					
MIN				315	317	328	400					
CHNG					2	79						

not supported
- saving table files

Call Irene Collins at USBR

Nathany in ASGS
334-1464

17-MAY-02

322-1899



Pulled in 1997

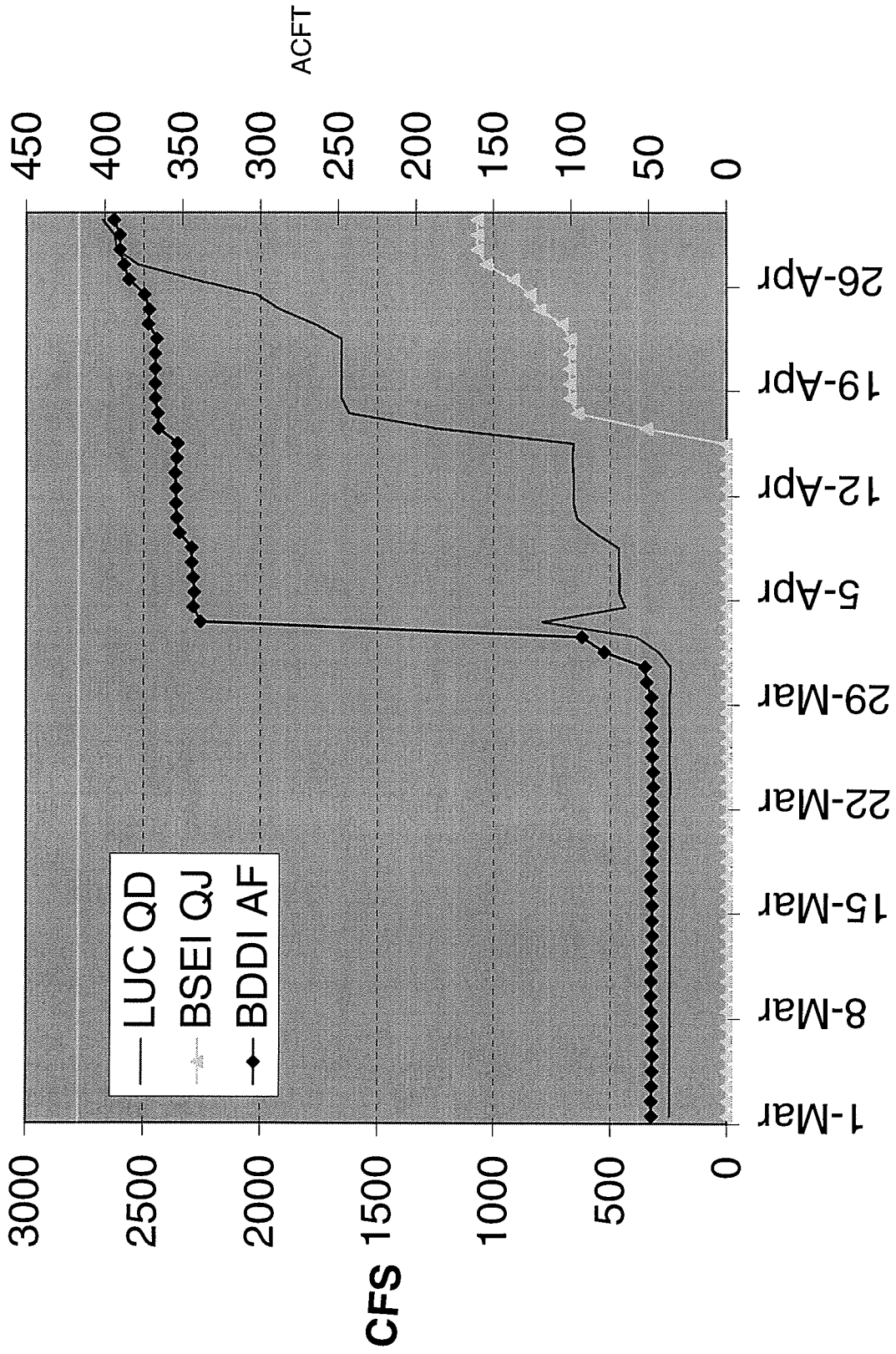
BDDF
mathematical #

BDDI GD

WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	5.57	5.89	7.97	---	---	---	---
2	---	---	---	---	---	5.63	5.94	8.02	---	---	---	---
3	---	---	---	---	---	5.63	6.04	8.05	---	---	---	---
4	---	---	---	---	---	5.63	6.16	8.07	---	---	---	---
5	---	---	---	---	---	5.62	6.19	8.07	---	---	---	---
6	---	---	---	---	---	5.64	6.20	8.19	---	---	---	---
7	---	---	---	---	---	5.63	6.21	8.23	---	---	---	---
8	---	---	---	---	---	5.62	6.48	8.22	---	---	---	---
9	---	---	---	---	---	5.63	6.91	8.21	---	---	---	---
10	---	---	---	---	---	5.63	7.17	8.20	---	---	---	---
11	---	---	---	---	---	5.63	7.24	8.20	---	---	---	---
12	---	---	---	---	---	5.62	7.34	8.20	---	---	---	---
13	---	---	---	---	---	5.63	7.47	8.19	---	---	---	---
14	---	---	---	---	---	5.63	7.52	8.20	---	---	---	---
15	---	---	---	---	---	5.62	7.60	8.19	---	---	---	---
16	---	---	---	---	---	5.58	7.63	8.20	---	---	---	---
17	---	---	---	---	---	5.58	7.66	8.20	---	---	---	---
18	---	---	---	---	---	5.58	7.79	8.20	---	---	---	---
19	---	---	---	---	---	5.59	7.94	8.20	---	---	---	---
20	---	---	---	---	5.69	5.58	8.00	8.21	---	---	---	---
21	---	---	---	---	5.69	5.59	8.00	8.20	---	---	---	---
22	---	---	---	---	5.70	5.57	8.02	8.20	---	---	---	---
23	---	---	---	---	5.68	5.57	7.97	8.20	---	---	---	---
24	---	---	---	---	---	5.57	7.89	---	---	---	---	---
25	---	---	---	---	---	5.57	7.87	---	---	---	---	---
26	---	---	---	---	5.72	5.58	7.88	---	---	---	---	---
27	---	---	---	---	5.62	5.57	7.89	---	---	---	---	---
28	---	---	---	---	5.49	5.58	7.89	---	---	---	---	---
29	---	---	---	---	---	5.58	7.92	---	---	---	---	---
30	---	---	---	---	---	5.58	7.94	---	---	---	---	---
31	---	---	---	---	---	5.59	---	---	---	---	---	---
TOTAL	0.00	0.00	0.00	0.00	39.59	173.61	218.63	187.83	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	5.66	5.60	7.29	8.17	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	5.72	5.64	8.02	8.23	0.00	0.00	0.00	0.00
MIN	(0)	(0)	(0)	(0)	(26)	(6)	(22)	(7)	(0)	(0)	(0)	(0)
	0.00	0.00	0.00	0.00	5.49	5.57	5.89	7.97	0.00	0.00	0.00	0.00
	(0)	(0)	(0)	(0)	(28)	(25)	(1)	(1)	(0)	(0)	(0)	(0)
WATER YEAR	2002 TOTAL	619.65	MEAN	6.81	MAX	8.23	MIN	5.49				

DIVERSION DAM STORAGE, LUCKY PEAK OUTFLOW, NEW YORK CANAL 2001



28-MAY-02

13203550 DIVERSION DAM
 CONTENTS IN ACRE FEET, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	40	40	40	40	320	328	400	---	---	---	---	---
2	40	40	40	40	320	328	401	---	---	---	---	---
3	40	40	40	40	319	331	404	---	---	---	---	---
4	40	40	40	40	319	333	402	---	---	---	---	---
5	40	40	40	40	319	334	402	---	---	---	---	---
6	40	40	40	40	319	335	413	---	---	---	---	---
7	40	40	40	40	320	334	412	---	---	---	---	---
8	40	40	40	40	319	346	412	---	---	---	---	---
9	40	40	40	40	319	361	412	---	---	---	---	---
10	40	40	40	40	319	365	411	---	---	---	---	---
11	40	40	40	40	319	366	411	---	---	---	---	---
12	40	40	40	40	319	372	410	---	---	---	---	---
13	40	40	40	130	320	378	410	---	---	---	---	---
14	40	40	40	320	319	379	411	---	---	---	---	---
15	40	40	40	320	318	385	410	---	---	---	---	---
16	40	40	40	320	319	383	411	---	---	---	---	---
17	40	40	40	320	319	386	410	---	---	---	---	---
18	40	40	40	320	318	394	407	---	---	---	---	---
19	40	40	40	320	317	401	409	---	---	---	---	---
20	40	40	40	319	318	401	410	---	---	---	---	---
21	40	40	40	319	317	401	410	---	---	---	---	---
22	40	40	40	319	318	403	410	---	---	---	---	---
23	40	40	40	319	318	399	---	---	---	---	---	---
24	40	40	40	319	318	395	---	---	---	---	---	---
25	40	40	40	319	318	395	---	---	---	---	---	---
26	40	40	40	322	317	395	---	---	---	---	---	---
27	40	40	40	315	318	395	---	---	---	---	---	---
28	40	40	40	316	318	395	---	---	---	---	---	---
29	40	40	40	---	318	397	---	---	---	---	---	---
30	40	40	40	---	318	397	---	---	---	---	---	---
31	---	40	40	---	318	---	---	---	---	---	---	---
MAX	40	40	40	322	320	403	413					
MIN	40	40	40	40	317	328	400					
CHNG		0	0	276	2	79						

PRELIMINARY DATA

Michelle Edl

ASK IFC

PETE V OR MICE

17-MAY-02

13210050 BOISE RIVER NR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	182	---	---	---	---	---
2	214	203	191	191	189	177	201	---	---	---	---	---
3	212	218	199	190	189	---	220	---	---	---	---	---
4	218	207	203	191	190	---	251	---	---	---	---	---
5	213	219	194	193	186	---	253	---	---	---	---	---
6	213	233	203	192	185	---	301	---	---	---	---	---
7	212	256	214	194	210	---	516	---	---	---	---	---
8	214	233	211	200	206	---	540	---	---	---	---	---
9	207	221	213	193	187	---	552	---	---	---	---	---
10	205	215	200	192	199	---	520	---	---	---	---	---
11	202	211	212	190	198	---	520	---	---	---	---	---
12	194	209	202	192	190	---	538	---	---	---	---	---
13	211	218	202	187	193	---	534	---	---	---	---	---
14	207	293	200	188	192	---	479	---	---	---	---	---
15	209	249	196	216	192	546	497	---	---	---	---	---
16	209	212	196	210	187	605	515	---	---	---	---	---
17	210	219	193	213	185	580	---	---	---	---	---	---
18	243	216	195	210	187	603	---	---	---	---	---	---
19	206	218	190	217	182	769	---	---	---	---	---	---
20	206	193	198	222	186	919	---	---	---	---	---	---
21	218	201	208	217	177	851	---	---	---	---	---	---
22	241	205	224	217	180	768	---	---	---	---	---	---
23	221	202	208	222	193	626	---	---	---	---	---	---
24	199	199	207	224	221	429	---	---	---	---	---	---
25	206	193	200	226	223	309	---	---	---	---	---	---
26	222	187	210	223	211	277	---	---	---	---	---	---
27	204	195	229	223	211	236	---	---	---	---	---	---
28	202	194	210	180	209	236	---	---	---	---	---	---
29	234	188	201	---	201	213	---	---	---	---	---	---
30	230	192	194	---	203	183	---	---	---	---	---	---
31	---	191	199	---	203	---	---	---	---	---	---	---
TOTAL	6400	6608	6292	5706	6022	8521	6617					
MEAN	213	213	203	204	194	473	414					
MAX	243	293	229	226	223	919	552					
MIN	194	187	190	180	158	177	182					
AC-FT	12694	13106	12480	11318	11945	16901	13125					

IRRIGATION YEAR 2002 TOTAL 46166 MEAN 126 AC-FT 91570

Boise R. near Middleton

IPCo provisional data pulled from WISKI by Michele Edl on 5/29/02

Date Daily Mean Flow (cfs)

4/2/2002	180.08
4/3/2002	181.51
4/4/2002	158.61
4/5/2002	146.96
4/6/2002	131.66
4/7/2002	156.42
4/8/2002	155.31
4/9/2002	228.97
4/10/2002	456.70
4/11/2002	465.85
4/12/2002	377.92
4/13/2002	443.83
4/14/2002	542.26

PRELIMINARY DATA

17-MAY-02

13213000 BOISE RIVER PARMA
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	714	696	695	631	582	440	456	---	---	---	---	---
2	706	699	690	627	586	418	450	---	---	---	---	---
3	684	716	699	621	605	402	469	---	---	---	---	---
4	682	695	728	616	606	436	498	---	---	---	---	---
5	682	692	722	625	604	443	535	---	---	---	---	---
6	676	715	735	623	606	471	625	---	---	---	---	---
7	684	731	771	622	618	456	830	---	---	---	---	---
8	685	728	754	639	640	445	991	---	---	---	---	---
9	680	703	748	633	605	457	992	---	---	---	---	---
10	679	690	736	637	618	670	953	---	---	---	---	---
11	689	685	738	628	635	827	960	---	---	---	---	---
12	677	676	736	624	621	887	983	---	---	---	---	---
13	689	679	731	622	622	930	1007	---	---	---	---	---
14	681	786	723	623	616	1139	883	---	---	---	---	---
15	674	762	718	637	616	1283	865	---	---	---	---	---
16	668	701	714	642	617	1230	882	---	---	---	---	---
17	669	682	718	646	605	1245	---	---	---	---	---	---
18	703	687	717	651	607	1251	---	---	---	---	---	---
19	671	684	619	662	603	1362	---	---	---	---	---	---
20	662	678	644	673	612	1542	---	---	---	---	---	---
21	790	710	663	657	594	1484	---	---	---	---	---	---
22	711	710	795	651	538	1335	---	---	---	---	---	---
23	689	703	711	649	499	1107	---	---	---	---	---	---
24	660	695	646	644	526	856	---	---	---	---	---	---
25	661	689	642	639	530	670	---	---	---	---	---	---
26	666	681	648	636	503	539	---	---	---	---	---	---
27	655	691	679	642	484	458	---	---	---	---	---	---
28	661	698	666	632	478	450	---	---	---	---	---	---
29	712	693	650	---	468	444	---	---	---	---	---	---
30	745	687	634	---	450	413	---	---	---	---	---	---
31	---	693	631	---	443	---	---	---	---	---	---	---
TOTAL	20604	21735	19776	16562	17736	24088	12378					
MEAN	687	701	706	637	572	803	774					
MAX	790	786	795	673	640	1542	1007					
MIN	655	676	631	616	443	402	450					
AC-FT	40869	43111	39225	32851	35179	47778	24551					

IRRIGATION YEAR 2002 TOTAL 132878 MEAN 364 AC-FT 263563

13185000 BOISE RIVER NEAR TWIN SPRINGS
 DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
 MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	579	300	---	395	485	1591	2570	---	---	---	---	---
2	503	325	---	346	446	1811	2794	---	---	---	---	---
3	457	350	---	276	442	1657	2948	---	---	---	---	---
4	431	310	---	255	473	1762	2857	---	---	---	---	---
5	403	311	---	238	507	2016	2762	---	---	---	---	---
6	393	328	---	255	529	2444	2536	---	---	---	---	---
7	381	319	---	415	573	2767	2367	---	---	---	---	---
8	364	257	421	384	537	2323	2146	---	---	---	---	---
9	341	282	413	311	509	2281	1970	---	---	---	---	---
10	349	312	345	256	547	2267	1823	---	---	---	---	---
11	348	272	346	384	530	2219	1751	---	---	---	---	---
12	346	281	380	404	616	2178	1809	---	---	---	---	---
13	343	336	343	395	697	2612	2047	---	---	---	---	---
14	339	333	296	422	619	5467	2482	---	---	---	---	---
15	334	281	328	400	586	7567	2924	---	---	---	---	---
16	329	277	207	419	580	4146	3124	---	---	---	---	---
17	330	381	225	464	544	3113	---	---	---	---	---	---
18	361	312	325	479	538	2428	---	---	---	---	---	---
19	340	333	289	494	531	2064	---	---	---	---	---	---
20	338	372	321	500	522	1884	---	---	---	---	---	---
21	395	346	342	483	535	1772	---	---	---	---	---	---
22	434	216	304	495	617	1713	---	---	---	---	---	---
23	406	139	305	552	807	1872	---	---	---	---	---	---
24	308	---	309	598	867	1794	---	---	---	---	---	---
25	294	---	318	540	919	1799	---	---	---	---	---	---
26	298	---	332	482	996	1925	---	---	---	---	---	---
27	205	---	326	505	1044	1955	---	---	---	---	---	---
28	117	---	195	546	1065	1962	---	---	---	---	---	---
29	289	---	102	---	1058	2022	---	---	---	---	---	---
30	350	---	211	---	1158	2337	---	---	---	---	---	---
31	---	---	368	---	1381	---	---	---	---	---	---	---
TOTAL	10703	6972	7347	11693	21255	73744	38910					
MEAN	357	303	306	418	686	2458	2432					
MAX	579	381	421	598	1381	7567	3124					
MIN	117	139	102	238	442	1591	1751					
AC-FT	21229	13829	14574	23193	42159	146272	77178					

IRRIGATION YEAR 2002 TOTAL 170625 MEAN 467 AC-FT 338433

13185000 BOISE RIVER NEAR TWIN SPRINGS
 DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
 MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	579	300	300	395	485	1591	2570	5138	---	---	---	---
2	503	325	320	346	446	1811	2794	4495	---	---	---	---
3	457	350	340	276	442	1657	2948	3813	---	---	---	---
4	431	310	361	255	473	1762	2857	3363	---	---	---	---
5	403	311	381	238	507	2016	2762	3065	---	---	---	---
6	393	328	401	255	529	2444	2536	3110	---	---	---	---
7	381	319	421	415	573	2767	2367	3016	---	---	---	---
8	364	257	421	384	537	2323	2146	2740	---	---	---	---
9	341	282	413	311	509	2281	1970	2357	---	---	---	---
10	349	312	345	256	547	2267	1823	2077	---	---	---	---
11	348	272	346	384	530	2219	1751	1829	---	---	---	---
12	346	281	380	404	616	2178	1809	1671	---	---	---	---
13	343	336	343	395	697	2612	2047	1632	---	---	---	---
14	339	333	296	422	619	5467	2482	---	---	---	---	---
15	334	281	328	400	586	7567	2924	---	---	---	---	---
16	329	277	207	419	580	4146	3124	---	---	---	---	---
17	330	381	225	464	544	3113	3177	---	---	---	---	---
18	361	312	325	479	538	2428	3353	---	---	---	---	---
19	340	333	289	494	531	2064	4174	---	---	---	---	---
20	338	372	321	500	522	1884	5389	---	---	---	---	---
21	395	346	342	483	535	1772	4617	---	---	---	---	---
22	434	216	304	495	617	1713	3727	---	---	---	---	---
23	406	139	305	552	807	1872	3077	---	---	---	---	---
24	308	139	309	598	867	1794	2644	---	---	---	---	---
25	294	159	318	540	919	1799	2371	---	---	---	---	---
26	298	179	332	482	996	1925	2300	---	---	---	---	---
27	205	199	326	505	1044	1955	2479	---	---	---	---	---
28	117	220	195	546	1065	1962	2978	---	---	---	---	---
29	289	240	102	---	1058	2022	3508	---	---	---	---	---
30	350	260	211	---	1158	2337	4277	---	---	---	---	---
31	---	280	368	---	1381	---	5352	---	---	---	---	---
TOTAL	10703	8648	9871	11693	21255	73744	92332	38305				
MEAN	357	279	318	418	686	2458	2978	2947				
MAX	579	381	421	598	1381	7567	5389	5138				
MIN	117	139	102	238	442	1591	1751	1632				
AC-FT	21229	17154	19580	23193	42159	146272	183140	75977				

IRRIGATION YEAR 2002 TOTAL 266551 MEAN 730 AC-FT 528702

13210050

BOISE R. NR MIDDLETON

	gd	shift	eqv gd	q
15-Apr	1.09	-0.09	1.00	339.00
16-Apr	1.75	-0.09	1.66	765.00
17-Apr	1.71	-0.09	1.62	733.00
18-Apr	1.75	-0.09	1.66	765.00
19-Apr	1.96	-0.09	1.87	951.00
20-Apr	2.14	-0.09	2.05	1100
21-Apr	2.06	-0.09	1.97	1049.00
22-Apr	1.96	-0.09	1.87	951.00
23-Apr	1.77	-0.09	1.68	782.00
24-Apr	1.47	-0.09	1.38	557.00
25-Apr	1.24	-0.09	1.15	416.00
26-Apr	1.16	-0.09	1.07	374.00
27-Apr	1.06	-0.09	0.97	324.00
28-Apr	1.06	-0.09	0.97	324.00
29-Apr	1.00	-0.09	0.91	297.00
30-Apr	0.91	-0.09	0.82	258.00
1-May	0.91	-0.09	0.82	258.00
2-May	0.96	-0.09	0.87	279.00
3-May	1.02	-0.09	0.93	306.00
4-May	1.10	-0.09	1.01	343.00
5-May	1.11	-0.09	1.02	348.00
6-May	1.21	-0.09	1.12	400.00
7-May	1.62	-0.09	1.53	663.00
8-May	1.65	-0.09	1.56	686.00
9-May	1.67	-0.09	1.58	701.00
10-May	1.62	-0.09	1.53	663.00
11-May	1.62	-0.09	1.53	663.00
12-May	1.65	-0.09	1.56	686.00
13-May	1.64	-0.09	1.55	678.00
14-May	1.56	-0.09	1.47	619.00
15-May	1.59	-0.09	1.50	641.00
16-May	1.61	-0.09	1.52	656.00
17-May	1.59	-0.09	1.50	641.00
18-May	1.56	-0.09	1.47	619.00
19-May	1.53	-0.09	1.44	598.00
20-May	1.53	-0.09	1.44	598.00
21-May	1.58	-0.09	1.49	634.00
22-May	1.59	-0.09	1.50	641.00
23-May	1.58	-0.09	1.49	634.00
24-May	1.59	-0.09	1.50	641.00
25-May	1.58	-0.09	1.49	634.00
26-May	1.58	-0.09	1.49	634.00
27-May	1.59	-0.09	1.50	641.00
28-May	1.56	-0.09	1.47	619.00
29-May	1.55	-0.09	1.46	612.00
30-May	1.56	-0.09	1.47	619.00
31-May	1.59	-0.09	1.50	641.00
1-Jun	1.61	-0.09	1.52	656.00
2-Jun	1.64	-0.09	1.55	678.00
3-Jun	1.65	-0.09	1.56	686.00

CORRECTED FOR BYPASS
 FLOW WHICH, ACCORDING TO MIKE
 CAMPBELL, WAS BYPASSING THE
 GAGE ON 4/11 BUT WAS NOT
 RECOGNIZED UNTIL 6/4 MEASURE
 MENT VISIT.

WTO

4-Jun	1.61	-0.09	1.52	656.00
5-Jun	1.64	-0.09	1.55	678.00
6-Jun	1.62	-0.09	1.53	663.00
7-Jun	1.57	-0.09	1.48	626.00
8-Jun	1.55	-0.09	1.46	612.00
9-Jun	1.62	-0.09	1.53	663.00
10-Jun	1.66	-0.09	1.57	694.00
11-Jun	1.61	-0.09	1.52	656.00

13210050 BOISE RIVER NR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	182	---	---	---	---	---
2	214	203	191	191	189	177	201	---	---	---	---	---
3	212	218	199	190	189	182	220	---	---	---	---	---
4	218	207	203	191	190	159	251	---	---	---	---	---
5	213	219	194	193	186	147	253	---	---	---	---	---
6	213	233	203	192	185	132	301	---	---	---	---	---
7	212	256	214	194	210	156	516	---	---	---	---	---
8	214	233	211	200	206	155	540	---	---	---	---	---
9	207	221	213	193	187	229	552	---	---	---	---	---
10	205	215	200	192	199	457	520	---	---	---	---	---
11	202	211	212	190	198	466	520	---	---	---	---	---
12	194	209	202	192	190	378	538	---	---	---	---	---
13	211	218	202	187	193	444	534	---	---	---	---	---
14	207	293	200	188	192	542	479	---	---	---	---	---
15	209	249	196	216	192	546	497	---	---	---	---	---
16	209	212	196	210	187	605	515	---	---	---	---	---
17	210	219	193	213	185	580	499	---	---	---	---	---
18	243	216	195	210	187	603	483	---	---	---	---	---
19	206	218	190	217	182	769	463	---	---	---	---	---
20	206	193	198	222	186	919	462	---	---	---	---	---
21	218	201	208	217	177	851	492	---	---	---	---	---
22	241	205	224	217	180	768	497	---	---	---	---	---
23	221	202	208	222	193	626	---	---	---	---	---	---
24	199	199	207	224	221	429	---	---	---	---	---	---
25	206	193	200	226	223	309	---	---	---	---	---	---
26	222	187	210	223	211	277	---	---	---	---	---	---
27	204	195	229	223	211	236	---	---	---	---	---	---
28	202	194	210	180	209	236	---	---	---	---	---	---
29	234	188	201	---	201	213	---	---	---	---	---	---
30	230	192	194	---	203	183	---	---	---	---	---	---
31	---	191	199	---	203	---	---	---	---	---	---	---
TOTAL	6400	6608	6292	5706	6022	11967	9513					
MEAN	213	213	203	204	194	399	432					
MAX	243	293	229	226	223	919	552					
MIN	194	187	190	180	158	132	182					
AC-FT	12694	13106	12480	11318	11945	23737	18869					
IRRIGATION YEAR 2002			TOTAL	52508	MEAN	144	AC-FT	104149				

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	---	---	---	---
2	214	203	191	191	189	177	279	678	---	---	---	---
3	212	218	199	190	189	182	306	686	---	---	---	---
4	218	207	203	191	190	159	343	---	---	---	---	---
5	213	219	194	193	186	147	348	---	---	---	---	---
6	213	233	203	192	185	132	400	---	---	---	---	---
7	212	256	214	194	210	156	633	---	---	---	---	---
8	214	233	211	200	206	155	686	---	---	---	---	---
9	207	221	213	193	187	229	701	---	---	---	---	---
10	205	215	200	192	199	457	663	---	---	---	---	---
11	202	211	212	190	198	466	663	---	---	---	---	---
12	194	209	202	192	190	378	686	---	---	---	---	---
13	211	218	202	187	193	444	678	---	---	---	---	---
14	207	293	200	188	192	542	619	---	---	---	---	---
15	209	249	196	216	192	339 ^{Start} _{New} 641 ^{Defa}	641	---	---	---	---	---
16	209	212	196	210	187	765	656	---	---	---	---	---
17	210	219	193	213	185	733	641	---	---	---	---	---
18	243	216	195	210	187	765	619	---	---	---	---	---
19	206	218	190	217	182	951	598	---	---	---	---	---
20	206	193	198	222	186	1100	598	---	---	---	---	---
21	218	201	208	217	177	1049	634	---	---	---	---	---
22	241	205	224	217	180	951	641	---	---	---	---	---
23	221	202	208	222	193	782	634	---	---	---	---	---
24	199	199	207	224	221	557	641	---	---	---	---	---
25	206	193	200	226	223	416	634	---	---	---	---	---
26	222	187	210	223	211	374	634	---	---	---	---	---
27	204	195	229	223	211	324	641	---	---	---	---	---
28	202	194	210	180	209	324	619	---	---	---	---	---
29	234	188	201	---	201	297	612	---	---	---	---	---
30	230	192	194	---	203	258	619	---	---	---	---	---
31	---	191	199	---	203	---	641	---	---	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	2020				
MEAN	213	213	203	204	194	460	580	673				
MAX	243	293	229	226	223	1100	701	686				
MIN	194	187	190	180	158	132	258	656				
AC-FT	12694	13106	12480	11318	11945	27375	35636	4007				
IRRIGATION YEAR 2002		TOTAL		64816	MEAN	178	AC-FT	128561				

13202000 BOISE RIVER AT LUCKY PEAK DAM
 DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
 MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	154	153	154	152	1084	1290	4200	---	---	---	---	---
2	154	154	156	153	1151	1303	4260	---	---	---	---	---
3	154	156	155	155	1153	1352	4306	---	---	---	---	---
4	154	155	155	154	1152	1409	4324	---	---	---	---	---
5	154	154	153	156	1152	1424	4328	---	---	---	---	---
6	154	157	154	156	1152	1425	4533	---	---	---	---	---
7	154	157	153	152	1148	1428	4592	---	---	---	---	---
8	155	154	155	154	1147	1965	4575	---	---	---	---	---
9	154	157	156	153	1149	2282	4557	---	---	---	---	---
10	154	155	153	156	1149	2440	4545	---	---	---	---	---
11	155	154	154	155	1148	2542	4545	---	---	---	---	---
12	153	156	153	153	1147	2681	4544	---	---	---	---	---
13	153	155	154	307	1151	2827	4537	---	---	---	---	---
14	153	155	153	353	1150	2874	4531	---	---	---	---	---
15	154	156	153	618	511	2972	4524	---	---	---	---	---
16	154	154	153	756	153	3027	4531	---	---	---	---	---
17	155	155	154	750	155	3105	---	---	---	---	---	---
18	154	154	154	751	153	3313	---	---	---	---	---	---
19	155	154	153	751	152	3603	---	---	---	---	---	---
20	156	154	153	751	152	3700	---	---	---	---	---	---
21	155	152	152	751	800	3700	---	---	---	---	---	---
22	154	154	154	753	1151	3768	---	---	---	---	---	---
23	154	154	154	750	1150	3799	---	---	---	---	---	---
24	155	154	153	751	1150	3802	---	---	---	---	---	---
25	155	154	152	751	1148	3857	---	---	---	---	---	---
26	154	155	154	753	1153	3929	---	---	---	---	---	---
27	154	155	153	889	1151	3956	---	---	---	---	---	---
28	153	155	153	953	1150	3950	---	---	---	---	---	---
29	153	156	154	---	1150	4045	---	---	---	---	---	---
30	155	157	155	---	1151	4131	---	---	---	---	---	---
31	---	156	152	---	1151	---	---	---	---	---	---	---
TOTAL	4623	4798	4763	13237	29609	85897	71431					
MEAN	154	155	154	473	955	2863	4464					
MAX	156	157	156	953	1153	4131	4592					
MIN	153	152	152	152	152	1290	4200					
AC-FT	9171	9516	9447	26256	58730	170377	141684					

IRRIGATION YEAR 2D02 TOTAL 214359 MEAN 587 AC-FT 425180

*Start
Salmon
Release
+300 cfs*

*+300
For
Flood*

13201990 FISH AND GAME INSTREAM FLOW RELEASE
 DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
 MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	80	80	80	80	80	80	0.0	0.0	---	---	---	---
2	80	80	80	80	80	80	0.0	0.0	---	---	---	---
3	80	80	80	80	80	80	0.0	0.0	---	---	---	---
4	80	80	80	80	80	80	0.0	0.0	---	---	---	---
5	80	80	80	80	80	80	0.0	0.0	---	---	---	---
6	80	80	80	80	80	80	0.0	0.0	---	---	---	---
7	80	80	80	80	80	80	0.0	0.0	---	---	---	---
8	80	80	80	80	80	0.0	0.0	0.0	---	---	---	---
9	80	80	80	80	80	0.0	0.0	0.0	---	---	---	---
10	80	80	80	80	80	0.0	0.0	0.0	---	---	---	---
11	80	80	80	80	80	0.0	0.0	0.0	---	---	---	---
12	80	80	80	80	80	0.0	0.0	0.0	---	---	---	---
13	80	80	80	80	80	0.0	0.0	0.0	---	---	---	---
14	80	80	80	80	80	0.0	0.0	---	---	---	---	---
15	80	80	80	80	80	0.0	0.0	---	---	---	---	---
16	80	80	80	80	80	0.0	0.0	---	---	---	---	---
17	80	80	80	80	80	0.0	0.0	---	---	---	---	---
18	80	80	80	80	80	0.0	0.0	---	---	---	---	---
19	80	80	80	80	80	0.0	0.0	---	---	---	---	---
20	80	80	80	80	80	0.0	0.0	---	---	---	---	---
21	80	80	80	80	80	0.0	0.0	---	---	---	---	---
22	80	80	80	80	80	0.0	0.0	---	---	---	---	---
23	80	80	80	80	80	0.0	0.0	---	---	---	---	---
24	80	80	80	80	80	0.0	0.0	---	---	---	---	---
25	80	80	80	80	80	0.0	0.0	---	---	---	---	---
26	80	80	80	80	80	0.0	0.0	---	---	---	---	---
27	80	80	80	80	80	0.0	0.0	---	---	---	---	---
28	80	80	80	80	80	0.0	0.0	---	---	---	---	---
29	80	80	80	---	80	0.0	0.0	---	---	---	---	---
30	80	80	80	---	80	0.0	0.0	---	---	---	---	---
31	---	80	80	---	80	---	0.0	---	---	---	---	---
TOTAL	2400	2480	2480	2240	2480	560	0	0				
MEAN	80	80	80	80	80	19	0.0	0.0				
MAX	80	80	80	80	80	80	0.0	0.0				
MIN	80	80	80	80	80	0.0	0.0	0.0				
AC-FT	4760	4919	4919	4443	4919	1111	0	0				
IRRIGATION YEAR 2002			TOTAL	12640	MEAN	35	AC-FT	25071				

Total = 25,071 AF
 Subtract off of Carryover on Storage Report

13201991 BUREAU OF RECLAMATION INSTREAM FLOW RELEASE
 DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
 MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	74	73	74	72	77	97	0.0	0.0	---	---	---	---
2	74	74	76	73	87	74	0.0	0.0	---	---	---	---
3	74	76	75	75	91	99	0.0	0.0	---	---	---	---
4	74	75	75	74	90	79	0.0	0.0	---	---	---	---
5	74	74	73	76	91	67	0.0	0.0	---	---	---	---
6	74	77	74	76	90	52	0.0	0.0	---	---	---	---
7	74	77	73	72	85	76	0.0	0.0	---	---	---	---
8	75	74	75	74	85	0.0	0.0	0.0	---	---	---	---
9	74	77	76	73	93	0.0	0.0	0.0	---	---	---	---
10	74	75	73	76	88	0.0	0.0	0.0	---	---	---	---
11	75	74	74	75	89	0.0	0.0	0.0	---	---	---	---
12	73	76	73	73	88	0.0	0.0	0.0	---	---	---	---
13	73	75	74	170	90	0.0	0.0	0.0	---	---	---	---
14	73	75	73	170	89	0.0	0.0	---	---	---	---	---
15	74	76	73	146	81	0.0	0.0	---	---	---	---	---
16	74	74	73	170	73	0.0	0.0	---	---	---	---	---
17	75	75	74	170	75	0.0	0.0	---	---	---	---	---
18	74	74	74	170	73	0.0	0.0	---	---	---	---	---
19	75	74	73	170	72	0.0	0.0	---	---	---	---	---
20	76	74	73	170	72	0.0	0.0	---	---	---	---	---
21	75	72	72	142	76	0.0	0.0	---	---	---	---	---
22	74	74	74	122	80	0.0	0.0	---	---	---	---	---
23	74	74	74	119	78	0.0	0.0	---	---	---	---	---
24	75	74	73	121	78	0.0	0.0	---	---	---	---	---
25	75	74	72	120	77	0.0	0.0	---	---	---	---	---
26	74	75	74	126	84	0.0	0.0	---	---	---	---	---
27	74	75	73	102	82	0.0	0.0	---	---	---	---	---
28	73	75	73	50	82	0.0	0.0	---	---	---	---	---
29	73	76	74	---	85	0.0	0.0	---	---	---	---	---
30	75	77	75	---	89	0.0	0.0	---	---	---	---	---
31	---	76	72	---	89	---	0.0	---	---	---	---	---
TOTAL	2223	2318	2283	3124	2577	544	0	0				
MEAN	74	75	74	112	83	18	0.0	0.0				
MAX	76	77	76	170	93	99	0.0	0.0				
MIN	73	72	72	50	72	0.0	0.0	0.0				
AC-FT	4410	4597	4528	6196	5111	1079	0	0				

IRRIGATION YEAR 2002 TOTAL 13069 MEAN 36 AC-FT 25921

Total = 25,921 AF

Subtract off of Casinova Storage Report

2002 Boise River Reach Gains

Date	Actual Flow (CFS)			Diversions		Reach Gains	
	Glenwood	Middleton	Parma	Glen to Mid	Mid to Parma	Glen to Mid	Mid to Parma
1-Apr-02	182	193	440	0	1	11	248
2-Apr-02	181	177	418	0	1	-4	242
3-Apr-02	179	182	402	0	1	3	221
4-Apr-02	168	159	436	0	1	-9	278
5-Apr-02	166	147	443	0	1	-19	297
6-Apr-02	Rain MT 166	132	471	0	1	-34	340
7-Apr-02	Rain MT 169	156	456	0	1	-13	301
8-Apr-02	202	155	445	59	1	12	291
9-Apr-02	Rain Base 353	229	457	306	86	182	314
10-Apr-02	Rain Base 519	457	670	318	99	256	312
11-Apr-02	575	466	827	330	135	221	496
12-Apr-02	Rain 631	378	887	342	172	89	681
13-Apr-02	Rain 753	444	930	355	208	46	694
14-Apr-02	Rain Big 861	542	1139	367	244	48	841
15-Apr-02	887	339	1283	379	282	-169	1226
16-Apr-02	926	765	1230	391	320	230	785
17-Apr-02	Rain 908	733	1245	409	328	234	840
18-Apr-02	1028	765	1251	427	372	164	858
19-Apr-02	1232	951	1362	444	397	163	808
20-Apr-02	1307	1100	1542	462	436	255	878
21-Apr-02	1295	1049	1484	479	471	233	906
22-Apr-02	1283	951	1335	507	534	175	918
23-Apr-02	1183	782	1107	522	597	121	922
24-Apr-02	1036	557	856	532	626	53	925
25-Apr-02	957	416	670	543	638	2	892
26-Apr-02	953	374	539	552	648	-27	813
27-Apr-02	940	324	458	562	653	-54	787
28-Apr-02	943	324	450	572	657	-47	783
29-Apr-02	945	297	444	582	661	-66	808
30-Apr-02	950	258	413	591	673	-101	828
1-May-02	968	258	456	607	683	-103	881
2-May-02	1001	279	450	623	694	-99	865
3-May-02	1009	306	469	640	703	-63	866
4-May-02	1073	343	498	651	713	-79	868
5-May-02	1051	348	535	663	724	-40	911
6-May-02	1182	400	625	674	721	-108	946
7-May-02	1330	633	830	687	728	-10	925
8-May-02	1314	686	991	692	742	64	1047
9-May-02	1305	701	992	697	756	93	1047
10-May-02	1286	663	953	703	771	80	1061
11-May-02	1285	663	960	708	767	86	1064
12-May-02	1290	686	983	714	759	110	1056
13-May-02	1281	678	1007	720	754	117	1083
14-May-02	1264	619	883	727	748	82	1012
15-May-02	1284	641	865	729	754	86	978
16-May-02	1287	656	882	732	758	101	984
17-May-02	1271	641	873	735	948 762	105	1175 994
18-May-02	1255	619	884	738	767	102	1032

↓ Middleton Shift
corrected for bypass (-0.09)

Add 300 cfs food release

↓ Boise and Boise Vally canal Breaks

↓ 300 cfs salmon water

* Shift not recognized until 6/4.

19-JUN-02

13190500 SF BOISE AT ANDERSON RANCH DAM
 STORED FLOW, CUBIC FEET/SECOND , IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	11	21	48	43	3.1	-766	243	603	---	---	---	---
2	44	48	48	25	32	-958	304	604	---	---	---	---
3	71	70	41	27	34	-973	304	603	---	---	---	---
4	81	70	50	38	37	-1066	579	602	---	---	---	---
5	94	67	65	42	24	303	591	364	---	---	---	---
6	98	64	59	25	-9.7	303	207	343	---	---	---	---
7	107	80	37	30	-36	303	173	108	---	---	---	---
8	111	103	34	28	-21	304	-33	-222	---	---	---	---
9	120	100	31	31	-4.0	306	-278	-583	---	---	---	---
10	108	92	62	48	-6.7	309	-537	-845	---	---	---	---
11	98	90	92	37	-34	299	656	---	---	---	---	---
12	107	98	66	33	-85	303	-598	---	---	---	---	---
13	103	85	57	39	-97	302	-350	---	---	---	---	---
14	108	63	91	38	-77	303	113	---	---	---	---	---
15	104	75	95	42	-50	306	602	---	---	---	---	---
16	103	88	87	45	-44	302	602	---	---	---	---	---
17	102	79	72	30	-35	300	601	---	---	---	---	---
18	100	91	55	15	-6.2	302	603	---	---	---	---	---
19	105	111	36	5.6	-13	301	602	---	---	---	---	---
20	103	126	12	3.7	-29	300	603	---	---	---	---	---
21	60	161	-3.3	11	-36	300	607	---	---	---	---	---
22	26	199	5.0	14	-68	303	609	---	---	---	---	---
23	34	194	-4.8	-11	-119	299	541	---	---	---	---	---
24	60	174	5.8	-20	-157	77	28	---	---	---	---	---
25	81	152	22	-1.8	-209	-148	-336	---	---	---	---	---
26	60	116	7.1	36	-258	-121	-442	---	---	---	---	---
27	96	144	15	42	-266	-175	-290	---	---	---	---	---
28	105	184	54	9.2	-303	-162	206	---	---	---	---	---
29	47	169	79	---	-366	-220	614	---	---	---	---	---
30	-47	130	86	---	-456	44	604	---	---	---	---	---
31	---	93	66	---	-612	---	602	---	---	---	---	---
TOTAL	2399	3335	1473	705	-3266	1280	6417	1577				
MEAN	80	108	48	25	-105	43	207	158				
MAX	120	199	95	48	37	309	614	604				
MIN	-47	21	-4.8	-20	-612	-1066	-656	-845				
AC-FT	4758	6615	2921	1397	-6478	2538	12728	3129				

IRRIGATION YEAR 2002 TOTAL 13919 MEAN 38 AC-FT 27608

Nov. 1 - APR 22 = 12,656 AF

BOISE RIVER STORED WATER SUPPLY (ACRE-FEET)

	Date:	22-Apr-02
Supply:		
Accounted for storage		637988.7
Unaccounted for storage		
Late season fill		
Total Storage Available		637988.7
Use:		
Canals and pumps		64.0
Endangered species		
Evaporation		1292.3
Fish and Game		
USBR Streamflow		
Passing Middleton	(60756.8-25071-25157)	10528.8
Total Storage Used		11885.1
Net Storage		626103.6
Actual Storage	(591,317+39,960)	631277.0
Averaging Error		(5173.4)

BOISE RIVER STORED WATER SUPPLY (ACRE-FEET)

	Date:	22-Apr-02 (RESTART)
Supply:		
Accounted for storage		637988.7
Unaccounted for storage		
Late season fill		
Total Storage Available		637988.7
Use:		
Canals and pumps		64.0
Endangered species		
Evaporation		1292.3
Fish and Game		
USBR Streamflow		
Flood Release*		11285.0 **
Total Storage Used		12641.3
Net Storage		625347.4
Actual Storage	(591,317+39,960)	631277.0
Averaging Error		(5929.6)

Middleton Stored April 22 = 60756.8 AF

Middleton Stored April 9 = 49471.4 AF

Flow Stored from April 9 to April 22 = 11285 AF

Total stored flow in Anderson from Nov. 1 to Apr. 22 = 12,656 AF, so all of 11285 AF is stored water from Anderson Ranch. The USBR released 300cfs from Anderson Ranch during the winter for fish. Until Jan 21, the natural flow is less than 300cfs, so this is stored flow in Arrowrock. Arrowrock fills April 4. On April 10, flow increased because of problems with a late reported shift at the Middleton Gage and problems with the Eagle Island Split. USBR orders a flood release from April 19 to April 22 due to rain on snow event. Flood release would have been greater if April 10 - April 19 flows were less. Therefore, 11285 AF will be taken out of new fill for USBR. USBR carryover will be unchanged at 39079 AF.

*Anderson storage in Arrowrock/Lucky Peak that was exchanged to maintain minimum flood space in Arrowrock/Lucky Peak.

**Differs from 10,528.8 because of fish release in winter that was lost before reaching Middleton (25,071 + 25,157) > 49,471.1.

Lee - These numbers indicate that we reach the 40,000 AF June 27.

26-JUN-02

13210050 BOISE RIVER NR MIDDLETON
 STORED FLOW, CUBIC FEET/SECOND , IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	153	154	152	157	177	8.0	406	---	---	---	---
2	151	154	156	153	167	154	29	428	---	---	---	---
3	149	156	155	155	171	179	56	436	---	---	---	---
4	150	155	155	154	170	159	93	406	---	---	---	---
5	150	154	153	156	171	147	98	428	---	---	---	---
6	148	157	154	156	170	132	150	413	---	---	---	---
7	147	157	153	152	165	156	383	376	---	---	---	---
8	153	154	155	154	165	0.0	436	362	---	---	---	---
9	152	157	156	153	173	0.0	451	413	---	---	---	---
10	152	155	153	156	168	207	413	444	---	---	---	---
11	146	154	154	155	169	216	413	406	---	---	---	---
12	153	156	153	153	168	128	436	372	---	---	---	---
13	153	155	154	185	170	194	428	397	---	---	---	---
14	151	155	153	188	169	292	369	376	---	---	---	---
15	150	156	153	197	0.0	89	391	302	---	---	---	---
16	151	154	153	198	152	515	406	276	---	---	---	---
17	155	155	154	202	155	483	391	271	---	---	---	---
18	154	154	154	203	153	515	369	328	---	---	---	---
19	155	154	153	209	152	701	348	323	---	---	---	---
20	156	154	153	208	152	850	348	312	---	---	---	---
21	155	152	152	208	7.4	799	384	305	---	---	---	---
22	154	154	154	202	160	701	391	298	---	---	---	---
23	154	154	154	200	158	532	384	305	---	---	---	---
24	155	154	153	201	158	307	391	304	---	---	---	---
25	155	154	152	200	157	166	384	298	---	---	---	---
26	154	155	154	206	164	124	384	---	---	---	---	---
27	154	155	153	181	162	74	391	---	---	---	---	---
28	153	155	153	130	162	74	369	---	---	---	---	---
29	153	156	154	---	165	47	362	---	---	---	---	---
30	155	157	155	---	169	8.0	369	---	---	---	---	---
31	---	156	152	---	169	---	391	---	---	---	---	---
TOTAL	4567	4798	4763	4964	4747	8125	10216	8984				
MEAN	152	155	154	177	153	271	330	359				
MAX	156	157	156	209	173	850	451	444				
MIN	146	152	152	130	0.0	0.0	8.0	271				
AC-FT	9059	9516	9447	9846	9415	16115	20263	17820				

IRRIGATION YEAR 2002 TOTAL 51163 MEAN 140 AC-FT 101482

37520 AF
 + 1113 AF

 38633 AF

May 6 to June 25 = 37,520 AF
 51 Days x 11 cfs/day x 1.9835 = 1113 AF

40,000 AF
 - 38633 AF

 1367 AF remaining

June 26-2002

Conversation with Rick Wells

Lucky Peak New Fill

$$\begin{array}{r} \text{June 17 STORED} = 225,641 \text{ AF} \\ \text{Nov 1 STORED} = \underline{118,739 \text{ AF}} \\ \text{Late Season Fill} \quad \quad \quad \underline{+ 837 \text{ AF}} \\ \text{New Fill} = 108,000 \text{ AF} \end{array}$$

$$\begin{array}{r} \text{USBR+F&G Space} = \underline{152,000 \text{ AF}} \text{ Space} \\ \text{Total Space} = 233,438 \text{ AF} \end{array}$$

$$\text{USBR+F&G Space} = 68\%$$

But Total Fill in Lucky Peak $> 233,438 \text{ AF}$

SO USBR+F&G $> 68\%$

Estimate 75,000 AF

$$\text{USBR+F&G AF Remaining} = 7263 + 43963 = 51,000 \text{ AF}$$

$$\text{Total Available Water} = 126,000 \text{ AF}$$

Jerry Greg decides to increase
Salmon release to 60,000 AF.

And Arrow Lucky

Loop
 re 25 > June 25 (yr) = 6,600
 2282.5 + (5819 - 1486) = 4,200
 2195.0 + (3027 - 973) = 4,900
 2055.9 + (3746 - 908) = 4,900
15,700

Reads from Boise Ind

26-JUN-02

From Accounting the program subtracts the carryover

15 Late fill (Fall 2001)
 Part of new fill

TABLE 1. 2002 BOISE RIVER STORED WATER BY RESERVOIR (ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	3685.1	268538.9
ANDERSON RANCH	453424.0	217658.3	4772.4	212885.9
LUCKY PEAK	223438.0	183619.3	4878.6	178740.7
TOTAL	949086.0	673501.6	13336.1	660165.5

Fill in Lucky Peak can't be greater than space.

272,224.0
 - 131.4

 272,092.6

225,641.6
 - 118,059.8

 107,582.6

345,049.3
 - 92,004.5

 253,044.8

13189600 TRINITY SPRINGS	0.0	732.5	0.0	0.0	0.0
13190000 SANDERSON RANCH	0.0	0.0	0.0	0.0	0.0
13194000 SARROWROCK	0.0	0.0	0.0	0.0	0.0
13201050 LUCKY PEAK NURSERY	0.0	0.0	0.0	0.0	0.0
13201500 LUCKY PEAK	0.0	0.0	0.0	0.0	0.0
13201990 FISH & GAME FLOW	0.0	0.0	7263.0	0.0	0.0
13201991 USBR FLOW	0.0	0.0	43963.0	0.0	0.0
13202995 PENITENTIARY	0.0	0.0	0.0	0.0	0.0
13203000 NEW YORK	0.0	46392.6	0.0	0.0	0.0
13203500 SLAKE LOWELL	0.0	0.0	0.0	0.0	0.0
13203527 SURPRISE VLY FARMS	0.0	2779.7	0.0	0.0	0.0
13203715 SHAKESPEARE	0.0	0.0	0.0	0.0	0.0
13203760 RIDENBAUGH	0.0	0.0	0.0	0.0	0.0
13204005 BUBB	0.0	0.0	361.4	0.0	0.0
13204015 HERRICK	0.0	0.0	0.0	0.0	0.0
13204020 MEEVES	0.0	0.0	0.0	0.0	0.0
13204060 ROSSI MILL	0.0	0.0	667.6	0.0	0.0
13204190 BOISE CITY	0.0	0.0	387.7	0.0	0.0
13204200 UNITED WATER	0.0	978.1	0.0	0.0	0.0
13205515 SETTLERS	0.0	0.0	2843.3	0.0	0.0
13205517 DAVIS	0.0	0.0	832.1	0.0	0.0
13205613 BOISE CITY PARKS	0.0	0.0	0.0	0.0	0.0
13205622 THURMAN MILL	0.0	0.0	190.7	0.0	0.0
13205638 BOISE WATER CORP	0.0	0.0	0.0	0.0	0.0
13205640 FARMERS UNION	0.0	0.0	2966.5	0.0	0.0
13205641 BOISE VALLEY	0.0	0.0	118.3	0.0	0.0
13205643 CAPITOL VIEW	0.0	0.0	27.6	0.0	0.0
13206090 NEW DRY CREEK	0.0	0.0	1018.4	0.0	0.0
13206092 NEW UNION	0.0	0.0	1169.0	0.0	0.0
13206205 ELEMP	0.0	0.0	0.0	0.0	0.0
13206220 EWARM SPRINGS	0.0	0.0	0.0	0.0	0.0
13206260 GRAHAM-GILBERT	0.0	0.0	0.0	0.0	0.0
13206265 BALLENTYNE	0.0	0.0	808.9	0.0	0.0
13206270 CONWAY-HAMMING	0.0	0.0	0.0	0.0	0.0
13206274 EAGLE ISLAND PARK	0.0	0.0	0.0	0.0	0.0
13206290 THOMAS AIKEN	0.0	0.0	0.0	0.0	0.0
13206292 MACE-CATLIN	0.0	0.0	0.0	0.0	0.0
13206295 MACE-MACE	0.0	0.0	0.0	0.0	0.0
13208450 HART-DAVIS	0.0	0.0	0.0	0.0	0.0
13208710 MIDDLETON	0.0	0.0	931.0	0.0	0.0
13208738 BARBER	0.0	0.0	0.0	0.0	0.0
13208740 SEVEN SUCKERS	0.0	0.0	0.0	0.0	0.0
13209480 PHYLLIS	0.0	0.0	0.0	0.0	0.0
13209482 EUREKA #1	0.0	0.0	1402.0	0.0	0.0
13209630 LITTLE PIONEER	0.0	1650.5	486.7	0.0	0.0
13209990 CANYON COUNTY	0.0	0.0	1347.2	0.0	0.0
13210005 CALDWELL HIGHLINE	0.0	0.0	0.0	0.0	0.0
13210049 MIDDLETON FLOW	0.0	0.0	0.0	0.0	0.0
13210984 RIVERSIDE	0.0	0.0	0.0	0.0	0.0
13210989 PIONEER DIXIE	0.0	0.0	0.0	0.0	0.0
13210992 SEBREE	130.5	0.0	0.0	0.0	0.0
13210993 SCAMPBELL	0.0	0.0	0.0	0.0	0.0
13210994 SSIEBENBERG	0.0	0.0	0.0	0.0	0.0
13210999 SCALDWELL FLOW	0.0	0.0	0.0	0.0	0.0
13211001 SHIPLEY	0.0	0.0	0.0	0.0	0.0
13211003 SWAGNER	0.0	0.0	0.0	0.0	0.0
13211603 SSIMPLOT	0.0	0.0	0.0	0.0	0.0
13211725 SEUREKA #2	0.0	0.0	0.0	0.0	0.0
13211735 SUPPER CENTER POINT	0.0	0.0	0.0	0.0	0.0
13211745 SMC MANUS AND TEATER	0.0	0.0	0.0	0.0	0.0

PAYSTO.CRY

13211825	SLOWER CENTER POINT	0.0	0.0	0.0	0.0	0.0
13212499	SNOTUS FLOW	0.0	0.0	0.0	0.0	0.0
13212548	SBOWMAN AND SWISHER	0.0	0.0	0.0	0.0	0.0
13212645	SBAXTER	0.0	0.0	0.0	0.0	0.0
13212832	SANDREWS	0.0	0.0	0.0	0.0	0.0
13212896	SMAMMON	0.0	0.0	0.0	0.0	0.0
13212938	SHAAS	0.0	0.0	0.0	0.0	0.0
13212954	SPARMA	0.0	0.0	0.0	0.0	0.0
13212966	SISLAND HIGHLINE	0.0	0.0	0.0	0.0	0.0
13212992	SCRAWFORTH	0.0	0.0	0.0	0.0	0.0
13212994	SMCCONNEL ISLAND	0.0	0.0	0.0	0.0	0.0
99999050	ANDERSON DAM POWER	0.0	391.2	0.0	0.0	0.0
99999080	ANDSN UNCONTRACTED	0.0	39079.9	0.0	0.0	0.0
99999100	EAGLE IS CANALS	0.0	0.0	966.8	0.0	0.0
99999200	ENDANGERED SPECIES	0.0	0.0	0.0	0.0	0.0
99999950	BOISE R WATER BANK	0.0	0.0	0.0	0.0	0.0

PAYSTO.CRY

13194000 ARROWROCK
13190000 ANDERSON RANCH
13201500 LUCKY PEAK
UNALLOCATED

272224.0	272224.0	6600.0
453424.0	345049.3	4200.0
223438.0	223438.0	4900.0
0.0	0.0	0.0

PAYSTO.IND

↑
accounting = 225641.6 but program can't handle
a number greater than space a

what happens to this last to fill? The rental
pool rule 3.5 is not clear. Is this last
to fill in Lucky Peak or the system?

Decision by Norm and Phil is that it
is the same as the snake. It is last
to fill in Lucky Peak.

27-JUN-02

TABLE 1. 2002 BOISE RIVER STORED WATER BY RESERVOIR
(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	6600.0	265624.0
ANDERSON RANCH	453424.0	345049.3	4200.0	340849.3
LUCKY PEAK	223438.0	223438.0	4900.0	218538.0
TOTAL	949086.0	840711.3	15700.0	825011.3

27-JUN-02

TABLE 2. 2002 BOISE RIVER RESERVOIR SPACE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	TOTAL
13189600	TRINITY SPRINGS	0.0	800.0	0.0	800.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	190.0
13201990	FISH & GAME FLOW	0.0	0.0	50000.0	50000.0
13201991	USBR FLOW	0.0	0.0	102420.0	102420.0
13203000	NEW YORK	241321.0	351554.0	0.0	592875.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	18579.0
13204005	BUBB	0.0	531.0	500.0	1031.0
13204060	ROSSI MILL	0.0	0.0	700.0	700.0
13204190	BOISE CITY	0.0	0.0	1000.0	1000.0
13204200	UNITED WATER	0.0	1000.0	0.0	1000.0
13205515	SETTLERS	2668.0	5675.0	10000.0	18343.0
13205517	DAVIS	0.0	0.0	1500.0	1500.0
13205622	THURMAN MILL	0.0	0.0	800.0	800.0
13205640	FARMERS UNION	2779.0	5593.0	10000.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	300.0	749.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	4266.0
13206092	NEW UNION	0.0	0.0	1400.0	1400.0
13206265	BALLENTYNE	0.0	367.0	1300.0	1667.0
13208710	MIDDLETON	0.0	0.0	11000.0	11000.0
13209480	PHYLLIS	20326.0	24986.0	16000.0	61312.0
13209482	EUREKA #1	0.0	0.0	2800.0	2800.0
13209630	LITTLE PIONEER	0.0	2123.0	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	6000.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	400.0	0.0	400.0
99999080	ANDSN UNCONTRACTED	0.0	39956.0	0.0	39956.0
99999100	EAGLE IS CANALS	0.0	0.0	1718.0	1718.0
	TOTAL	272224.0	453424.0	223438.0	949086.0

27-JUN-02

TABLE 3. 2002 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK *-----*		ANDERSON RANCH-----*		*-----LUCKY PEAK-----*			SUBTOTAL
		STORAGE	CARRYOVER	NEW FLL	STORAGE	CARRYOVER	NEW FILL	STORAGE	
13189600	TRINITY SPRINGS	0.0	732.5	67.5	800.0	0.0	0.0	0.0	800.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	0.0	0.0	190.0
13201990	FISH & GAME FLOW	0.0	0.0	0.0	0.0	7263.0	42737.0	50000.0	50000.0
13201991	USBR FLOW	0.0	0.0	0.0	0.0	43963.0	58457.0	102420.0	102420.0
13203000	NEW YORK	241321.0	46392.6	217589.4	263982.0	0.0	0.0	0.0	505303.0
13203527	SURPRIS VY/MICRON	0.0	2779.7	220.3	3000.0	0.0	0.0	0.0	3000.0
13203760	RIDENBAUGH	3794.0	0.0	9151.0	9151.0	0.0	0.0	0.0	12945.0
13204005	BUBB	0.0	0.0	328.7	328.7	361.4	138.6	500.0	828.7
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	667.6	32.4	700.0	700.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	387.7	612.3	1000.0	1000.0
13204200	UNITED WATER	0.0	978.1	21.9	1000.0	0.0	0.0	0.0	1000.0
13205515	SETTLERS	2668.0	0.0	3512.5	3512.5	2843.3	7156.7	10000.0	16180.5
13205517	DAVIS	0.0	0.0	0.0	0.0	832.1	667.9	1500.0	1500.0
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	190.7	609.3	800.0	800.0
13205640	FARMERS UNION	2779.0	0.0	3461.7	3461.7	2966.5	7033.5	10000.0	16240.7
13205641	BOISE VALLEY	0.0	0.0	581.2	581.2	118.3	2381.7	2500.0	3081.2
13205643	CAPITOL VIEW	0.0	0.0	277.9	277.9	27.6	272.4	300.0	577.9
13206090	NEW DRY CREEK	0.0	0.0	783.6	783.6	1018.4	1981.6	3000.0	3783.6
13206092	NEW UNION	0.0	0.0	0.0	0.0	1169.0	231.0	1400.0	1400.0
13206265	BALLENTYNE	0.0	0.0	227.1	227.1	808.9	491.1	1300.0	1527.1
13208710	MIDDLETON	0.0	0.0	0.0	0.0	931.0	10069.0	11000.0	11000.0
13209480	PHYLLIS	20326.0	0.0	15464.7	15464.7	0.0	16000.0	16000.0	51790.7
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1402.0	1398.0	2800.0	2800.0
13209630	LITTLE PIONEER	0.0	1650.5	472.5	2123.0	486.7	13.3	500.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	1347.2	4652.8	6000.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	391.2	8.8	400.0	0.0	0.0	0.0	400.0
99999080	ANDSN UNCONTRACTED	0.0	39079.9	876.1	39956.0	0.0	0.0	0.0	39956.0
99999100	EAGLE IS CANALS	0.0	0.0	0.0	0.0	966.8	751.2	1718.0	1718.0
	TOTAL	272224.0	92004.5	253044.8	345049.3	67751.2	155686.8	223438.0	840711.3

→ 104624.0

102351.9

27-JUN-02

TABLE 4. 2002 BOISE RIVER RESERVOIR NET STORAGE BY USER. (ACRE-FEET)

NUMBER	USER	ARROWROCK	ANDERSON	LUCKY PEAK	SUBTOTAL	TRANSFERS	RNT POOL	TOTAL
13189600	TRINITY SPRINGS	0.0	790.3	0.0	790.3	0.0	0.0	790.3
13201050	LUCKY PEAK NURSERY	185.4	0.0	0.0	185.4	0.0	0.0	185.4 - 12 = 173.4
13201990	FISH & GAME FLOW	0.0	0.0	48903.5	48903.5	0.0	0.0	48903.5
13201991	USBR FLOW	0.0	0.0	100173.9	100173.9	0.0	0.0	100173.9
13203000	NEW YORK	235470.2	260768.7	0.0	496239.0	0.0	0.0	496239.0 - 43 - 32831 = 463365.0
13203527	SURPRIS VY/MICRON	0.0	2963.5	0.0	2963.5	0.0	0.0	2963.5
13203760	RIDENBAUGH	3702.0	9039.6	0.0	12741.6	0.0	0.0	12741.6 + 32831 = 45572.6
13204005	BUBB	0.0	324.7	489.0	813.7	0.0	0.0	813.7
13204060	ROSSI MILL	0.0	0.0	684.6	684.6	0.0	0.0	684.6
13204190	BOISE CITY	0.0	0.0	978.1	978.1	0.0	0.0	978.1
13204200	UNITED WATER	0.0	987.8	0.0	987.8	0.0	0.0	987.8 - 4 + 2000 = 2983.8
13205515	SETTLERS	2603.3	3469.7	9780.7	15853.7	0.0	0.0	15853.7
13205517	DAVIS	0.0	0.0	1467.1	1467.1	0.0	0.0	1467.1
13205622	THURMAN MILL	0.0	0.0	782.5	782.5	0.0	0.0	782.5
13205640	FARMERS UNION	2711.6	3419.6	9780.7	15911.9	0.0	0.0	15911.9
13205641	BOISE VALLEY	0.0	574.1	2445.2	3019.3	0.0	0.0	3019.3 - 1000 = 2019.3
13205643	CAPITOL VIEW	0.0	274.5	293.4	567.9	0.0	0.0	567.9
13206090	NEW DRY CREEK	0.0	774.0	2934.2	3708.2	0.0	0.0	3708.2
13206092	NEW UNION	0.0	0.0	1369.3	1369.3	0.0	0.0	1369.3
13206265	BALLENTYNE	0.0	224.4	1271.5	1495.9	0.0	0.0	1495.9
13208710	MIDDLETON	0.0	0.0	10758.8	10758.8	0.0	0.0	10758.8
13209480	PHYLLIS	19833.2	15276.5	15649.1	50758.8	0.0	0.0	50758.8
13209482	EUREKA #1	0.0	0.0	2738.6	2738.6	0.0	0.0	2738.6
13209630	LITTLE PIONEER	0.0	2097.2	489.0	2586.2	0.0	0.0	2586.2
13209990	CANYON COUNTY	0.0	0.0	5868.4	5868.4	0.0	0.0	5868.4
13210992	SEBREE	1118.2	0.0	0.0	1118.2	0.0	0.0	1118.2 - 1000 = 118.2
99999050	ANDERSON DAM POWER	0.0	395.1	0.0	395.1	0.0	0.0	395.1
99999080	ANDSN UNCONTRACTED	0.0	39469.6	0.0	39469.6	0.0	0.0	39469.6
99999100	EAGLE IS CANALS	0.0	0.0	1680.3	1680.3	0.0	0.0	1680.3
	TOTAL	265624.0	340849.3	218538.0	825011.3	0.0	0.0	825011.3

2-JUL-02

13210050 BOISE RIVER NEAR MIDDLETON
 STORED FLOW, CUBIC FEET/SECOND , IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	153	154	152	157	177	8.0	406	2491	---	---	---
2	151	154	156	153	167	154	29	428	---	---	---	---
3	149	156	155	155	171	179	56	436	---	---	---	---
4	150	155	155	154	170	159	93	406	---	---	---	---
5	150	154	153	156	171	147	98	428	---	---	---	---
6	148	157	154	156	170	132	150	413	---	---	---	---
7	147	157	153	152	165	156	383	376	---	---	---	---
8	153	154	155	154	165	0.0	436	362	---	---	---	---
9	152	157	156	153	173	0.0	451	413	---	---	---	---
10	152	155	153	156	168	207	413	444	---	---	---	---
11	146	154	154	155	169	216	413	406	---	---	---	---
12	153	156	153	153	168	128	436	372	---	---	---	---
13	153	155	154	185	170	194	428	397	---	---	---	---
14	151	155	153	188	169	292	369	376	---	---	---	---
15	150	156	153	197	0.0	89	391	302	---	---	---	---
16	151	154	153	198	152	515	406	276	---	---	---	---
17	155	155	154	202	155	483	391	271	---	---	---	---
18	154	154	154	203	153	515	369	328	---	---	---	---
19	155	154	153	209	152	701	348	323	---	---	---	---
20	156	154	153	208	152	850	348	312	---	---	---	---
21	155	152	152	208	7.4	799	384	305	---	---	---	---
22	154	154	154	202	160	701	391	298	---	---	---	---
23	154	154	154	200	158	532	384	305	---	---	---	---
24	155	154	153	201	158	307	391	304	---	---	---	---
25	155	154	152	200	157	166	384	298	---	---	---	---
26	154	155	154	206	164	124	384	271	---	---	---	---
27	154	155	153	181	162	74	391	1790	---	---	---	---
28	153	155	153	130	162	74	369	1978	---	---	---	---
29	153	156	154	---	165	47	362	2134	---	---	---	---
30	155	157	155	---	169	8.0	369	2325	---	---	---	---
31	---	156	152	---	169	---	391	---	---	---	---	---
TOTAL	4567	4798	4763	4964	4747	8125	10216	17481	2491			
MEAN	152	155	154	177	153	271	330	583	2491			
MAX	156	157	156	209	173	850	451	2325	2491			
MIN	146	152	152	130	0.0	0.0	8.0	271	2491			
AC-FT	9059	9516	9447	9846	9415	16115	20263	34674	4941			



52 Days x 11 cfs/day x 1.9835 =
 1135

IRRIGATION YEAR 2002 TOTAL 62151 MEAN 170 AC-FT 123277

$$9932 \times 1.9835 = 19,700$$

$$9925 \times 1.9835 = 18,357$$

$$28,057$$

$$\begin{array}{r} 38057 \\ + 1135 \\ \hline 39,192 \end{array}$$

40,249
 + 2,406

 43,942 AF
 through July 4

8-JUL-02

13210050 BOISE RIVER NEAR MIDDLETON
 STORED FLOW, CUBIC FEET/SECOND , IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	153	154	152	157	177	8.0	406	295	---	---	---
2	151	154	156	153	167	154	29	428	314	---	---	---
3	149	156	155	155	171	179	56	436	298	---	---	---
4	150	155	155	154	170	159	93	406	307	---	---	---
5	150	154	153	156	171	147	98	428	2770	---	---	---
6	148	157	154	156	170	132	<u>150</u>	413	---	---	---	---
7	147	157	153	152	165	156	383	376	---	---	---	---
8	153	154	155	154	165	0.0	436	362	---	---	---	---
9	152	157	156	153	173	0.0	451	413	---	---	---	---
10	152	155	153	156	168	207	413	444	---	---	---	---
11	146	154	154	155	169	216	413	406	---	---	---	---
12	153	156	153	153	168	128	436	372	---	---	---	---
13	153	155	154	185	170	194	428	397	---	---	---	---
14	151	155	153	188	169	292	369	376	---	---	---	---
15	150	156	153	197	0.0	89	391	302	---	---	---	---
16	151	154	153	198	152	515	406	276	---	---	---	---
17	155	155	154	202	155	483	391	271	---	---	---	---
18	154	154	154	203	153	515	369	328	---	---	---	---
19	155	154	153	209	152	701	348	323	---	---	---	---
20	156	154	153	208	152	850	348	312	---	---	---	---
21	155	152	152	208	7.4	799	384	305	---	---	---	---
22	154	154	154	202	160	701	391	298	---	---	---	---
23	154	154	154	200	158	532	384	305	---	---	---	---
24	155	154	153	201	158	307	391	304	---	---	---	---
25	155	154	152	200	157	166	384	298	---	---	---	---
26	154	155	154	206	164	124	384	271	---	---	---	---
27	154	155	153	181	162	74	391	277	---	---	---	---
28	153	155	153	130	162	74	369	277	---	---	---	---
29	153	156	154	---	165	47	362	271	---	---	---	---
30	155	157	155	---	169	8.0	369	281	---	---	---	---
31	---	156	152	---	169	---	391	---	---	---	---	---
TOTAL	4567	4798	4763	4964	4747	8125	10216	10360	3983			
MEAN	152	155	154	177	153	271	330	345	797			
MAX	156	157	156	209	173	850	451	444	2770			
MIN	146	152	152	130	0.0	0.0	8.0	271	295			
AC-FT	9059	9516	9447	9846	9415	16115	20263	20549	7900			

IRRIGATION YEAR 2002 TOTAL 56522 MEAN 155 AC-FT 112111
 May 6 - June 30
 19,700
 + 20,549

 40,249

59 day x 11 x 1.9835
 = 1287
 1213 * 1.9835 = 2406

2002 Boise River Flow Augmentation for USBR and Fish and Game

Date	Stored Flow Middleton CFS	United Water CFS	Total CFS	Date	Stored Flow Middleton CFS	United Water CFS	Total CFS
6-May-02	150	11	161	16-Jun-02	276	11	287
7-May-02	383	11	394	17-Jun-02	271	11	282
8-May-02	436	11	447	18-Jun-02	328	11	339
9-May-02	451	11	462	19-Jun-02	323	11	334
10-May-02	413	11	424	20-Jun-02	312	11	323
11-May-02	413	11	424	21-Jun-02	305	11	316
12-May-02	436	11	447	22-Jun-02	298	11	309
13-May-02	428	11	439	23-Jun-02	305	11	316
14-May-02	369	11	380	24-Jun-02	304	11	315
15-May-02	391	11	402	25-Jun-02	298	11	309
16-May-02	406	11	417	26-Jun-02	271	11	282
17-May-02	391	11	402	27-Jun-02	277	11	288
18-May-02	369	11	380	28-Jun-02	277	11	288
19-May-02	348	11	359	29-Jun-02	271	11	282
20-May-02	348	11	359	30-Jun-02	281	11	292
21-May-02	384	11	395	1-Jul-02	295	11	306
22-May-02	391	11	402	2-Jul-02	314	11	325
23-May-02	384	11	395	3-Jul-02	298	11	309
24-May-02	391	11	402	4-Jul-02	307	11	318
25-May-02	384	11	395	5-Jul-02	341	11	352
26-May-02	384	11	395	6-Jul-02	300	11	311
27-May-02	391	11	402	7-Jul-02	297	11	308
28-May-02	369	11	380	8-Jul-02	295	11	306
29-May-02	362	11	373				
30-May-02	369	11	380				
31-May-02	391	11	402	Total (CFS)			23,445
1-Jun-02	406	11	417	Total (AF)			46,503
2-Jun-02	428	11	439				
3-Jun-02	436	11	447				
4-Jun-02	406	11	417				
5-Jun-02	428	11	439				
6-Jun-02	413	11	424				
7-Jun-02	376	11	387				
8-Jun-02	362	11	373				
9-Jun-02	413	11	424				
10-Jun-02	444	11	455				
11-Jun-02	406	11	417				
12-Jun-02	372	11	383				
13-Jun-02	397	11	408				
14-Jun-02	376	11	387				
15-Jun-02	302	11	313				

Not Finished

16-JUL-02

13210050 BOISE RIVER NEAR MIDDLETON
 STORED FLOW, CUBIC FEET/SECOND , IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	153	154	152	157	177	8.0	406	295	---	---	---
2	151	154	156	153	167	154	29	428	314	---	---	---
3	149	156	155	155	171	179	56	436	298	---	---	---
4	150	155	155	154	170	159	93	406	307	---	---	---
5	150	154	153	156	171	147	98	428	341	---	---	---
6	148	157	154	156	170	132	150	413	300	---	---	---
7	147	157	153	152	165	156	383	376	297	---	---	---
8	153	154	155	154	165	0.0	436	362	295	---	---	---
9	152	157	156	153	173	0.0	451	413	288	---	---	---
10	152	155	153	156	168	207	413	444	289	---	---	---
11	146	154	154	155	169	216	413	406	289	---	---	---
12	153	156	153	153	168	128	436	372	---	---	---	---
13	153	155	154	185	170	194	428	397	---	---	---	---
14	151	155	153	188	169	292	369	376	---	---	---	---
15	150	156	153	197	0.0	89	391	302	---	---	---	---
16	151	154	153	198	152	515	406	276	---	---	---	---
17	155	155	154	202	155	483	391	271	---	---	---	---
18	154	154	154	203	153	515	369	328	---	---	---	---
19	155	154	153	209	152	701	348	323	---	---	---	---
20	156	154	153	208	152	850	348	312	---	---	---	---
21	155	152	152	208	7.4	799	384	305	---	---	---	---
22	154	154	154	202	160	701	391	298	---	---	---	---
23	154	154	154	200	158	532	384	305	---	---	---	---
24	155	154	153	201	158	307	391	304	---	---	---	---
25	155	154	152	200	157	166	384	298	---	---	---	---
26	154	155	154	206	164	124	384	271	---	---	---	---
27	154	155	153	181	162	74	391	277	---	---	---	---
28	153	155	153	130	162	74	369	277	---	---	---	---
29	153	156	154	---	165	47	362	271	---	---	---	---
30	155	157	155	---	169	8.0	369	281	---	---	---	---
31	---	156	152	---	169	---	391	---	---	---	---	---
TOTAL	4567	4798	4763	4964	4747	8125	10216	10360	3312			
MEAN	152	155	154	177	153	271	330	345	301			
MAX	156	157	156	209	173	850	451	444	341			
MIN	146	152	152	130	0.0	0.0	8.0	271	288			
AC-FT	9059	9516	9447	9846	9415	16115	20263	20549	6570			

IRRIGATION YEAR 2002 TOTAL 55852 MEAN 153 AC-FT 110781

13206000 BOISE RIVER AT GLENWOOD BRIDGE
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	184	185	183	172	182	968	1267	1158	---	---	---
2	151	173	184	183	187	181	1001	1266	1143	---	---	---
3	149	184	188	182	187	179	1009	1262	1135	---	---	---
4	150	184	184	183	187	168	1073	1264	1137	---	---	---
5	150	188	183	182	187	166	1051	1248	1135	---	---	---
6	148	190	188	183	188	166	1182	1296	1123	---	---	---
7	147	194	188	183	206	169	1330	1219	1128	---	---	---
8	153	186	190	187	189	202	1314	1243	1123	---	---	---
9	152	185	189	183	188	353	1305	1253	1125	---	---	---
10	152	185	186	185	193	519	1286	1263	1128	---	---	---
11	146	185	188	184	190	575	1285	1262	1139	---	---	---
12	163	184	187	187	189	631	1290	1265	1136	---	---	---
13	155	195	186	185	191	753	1281	1260	1131	---	---	---
14	151	206	180	193	191	861	1264	1214	1119	---	---	---
15	150	183	174	197	192	887	1284	1165	1070	---	---	---
16	151	187	174	198	184	926	1287	1169	1044	---	---	---
17	190	191	174	202	190	908	1271	1171	1039	---	---	---
18	156	180	173	203	186	1028	1255	1183	1036	---	---	---
19	168	188	173	209	191	1232	1254	1163	1037	---	---	---
20	181	186	175	208	188	1307	1251	1162	1045	---	---	---
21	186	185	183	208	187	1295	1260	1155	1056	---	---	---
22	193	183	179	207	186	1283	1253	1156	---	---	---	---
23	183	183	176	208	195	1183	1248	1167	---	---	---	---
24	181	183	175	210	199	1036	1249	1163	---	---	---	---
25	189	182	175	210	196	957	1247	1164	---	---	---	---
26	185	179	180	209	196	953	1240	1156	---	---	---	---
27	182	184	180	203	193	940	1246	1182	---	---	---	---
28	185	183	176	160	190	943	1240	1164	---	---	---	---
29	195	183	173	---	190	945	1246	1164	---	---	---	---
30	182	184	182	---	189	950	1246	1160	---	---	---	---
31	---	184	184	---	192	---	1254	---	---	---	---	---
TOTAL	4974	5747	5609	5412	5884	21878	37967	36226	23185			
MEAN	166	185	181	193	190	729	1225	1208	1104			
MAX	195	206	190	210	206	1307	1330	1296	1158			
MIN	146	173	173	160	172	166	968	1155	1036			
AC-FT	9865	11399	11124	10735	11672	43394	75307	71855	45987			
IRRIGATION YEAR 2002		TOTAL		146881	MEAN	402	AC-FT	291338				

22-JUL-02

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

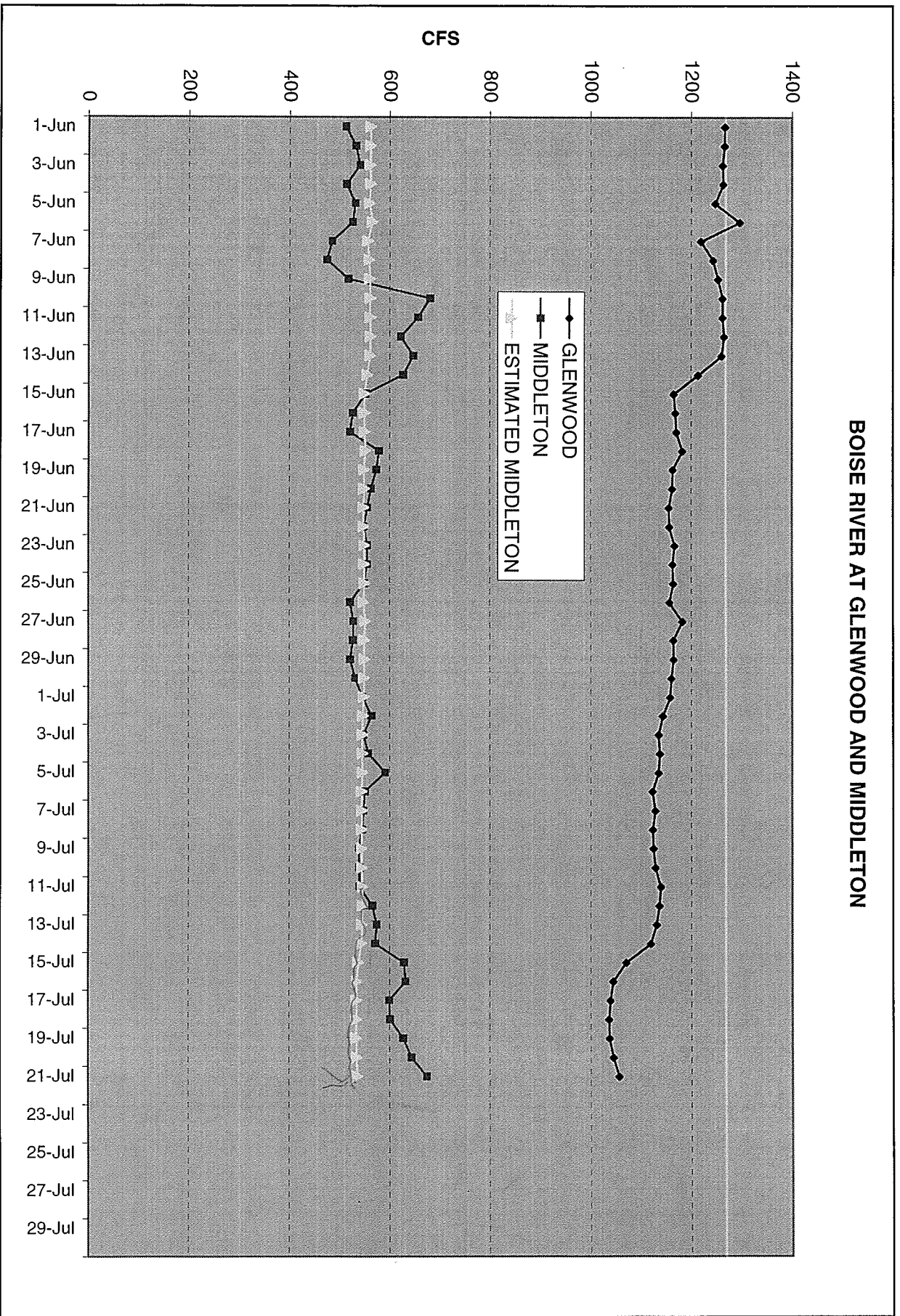
DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	---	---	---
2	214	203	191	191	189	177	279	678	564	---	---	---
3	212	218	199	190	189	182	306	686	548	---	---	---
4	218	207	203	191	190	159	343	656	557	---	---	---
5	213	219	194	193	186	147	348	678	591	---	---	---
6	213	233	203	192	185	132	400	663	550	---	---	---
7	212	256	214	194	210	156	633	626	547	---	---	---
8	214	233	211	200	206	155	686	612	545	---	---	---
9	207	221	213	193	187	229	701	663	538	---	---	---
10	205	215	200	192	199	457	663	694	539	---	---	---
11	202	211	212	190	198	466	663	656	539	---	---	---
12	194	209	202	192	190	378	686	622	565	---	---	---
13	211	218	202	187	193	444	678	647	574	---	---	---
14	207	293	200	188	192	542	619	626	571	---	---	---
15	209	249	196	216	192	339	641	552	628	---	---	---
16	209	212	196	210	187	765	656	526	631	---	---	---
17	210	219	193	213	185	733	641	521	599	---	---	---
18	243	216	195	210	187	765	619	578	601	---	---	---
19	206	218	190	217	182	951	598	573	627	---	---	---
20	206	193	198	222	186	1100	598	562	644	---	---	---
21	218	201	208	217	177	1049	634	555	674	---	---	---
22	241	205	224	217	180	951	641	548	---	---	---	---
23	221	202	208	222	193	782	634	555	---	---	---	---
24	199	199	207	224	221	557	641	554	---	---	---	---
25	206	193	200	226	223	416	634	548	---	---	---	---
26	222	187	210	223	211	374	634	521	---	---	---	---
27	204	195	229	223	211	324	641	527	---	---	---	---
28	202	194	210	180	209	324	619	527	---	---	---	---
29	234	188	201	---	201	297	612	521	---	---	---	---
30	230	192	194	---	203	258	619	531	---	---	---	---
31	---	191	199	---	203	---	641	---	---	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	12176			
MEAN	213	213	203	204	194	460	580	595	580			
MAX	243	293	229	226	223	1100	701	694	674			
MIN	194	187	190	180	158	132	258	521	538			
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	24150			
IRRIGATION YEAR 2002		TOTAL		92831	MEAN	254	AC-FT	184131				

	BIGI	BOMI	BOMI EST
1-Jun	1267.19	512.17	561.5972
2-Jun	1266.03	531.96	561.4557
3-Jun	1262.31	539.88	561.0018
4-Jun	1263.45	513.34	561.1409
5-Jun	1247.78	530.44	559.2292
6-Jun	1295.7	525.55	565.0754
7-Jun	1219.42	484.36	555.7692
8-Jun	1243.09	473.83	558.657
9-Jun	1253.19	516.88	559.8892
10-Jun	1262.62	680.26	561.0396
11-Jun	1262.37	656.42	561.0091
12-Jun	1265.04	621.65	561.3349
13-Jun	1260.41	646.74	560.77
14-Jun	1213.63	626.22	555.0629
15-Jun	1165.44	551.69	549.1837
16-Jun	1168.75	525.87	549.5875
17-Jun	1170.63	520.58	549.8169
18-Jun	1182.75	578.04	551.2955
19-Jun	1163.09	572.85	548.897
20-Jun	1162.03	562.09	548.7677
21-Jun	1155.19	555.35	547.9332
22-Jun	1156.14	547.8	548.0491
23-Jun	1166.57	554.79	549.3215
24-Jun	1162.76	554.3	548.8567
25-Jun	1164.16	548.07	549.0275
26-Jun	1156.11	520.79	548.0454
27-Jun	1182.02	527.2	551.2064

0.122158	406.7597	#N/A
0.129851	154.5428	#N/A
0.02276	43.07518	#N/A
0.885013	38	#N/A
1642.115	70507.92	#N/A
#N/A	#N/A	#N/A
#N/A	#N/A	#N/A
#N/A	#N/A	#N/A

$$\text{BOMI EST} = .122(\text{BIGI}) + 406.7$$

BOISE RIVER AT GLENWOOD AND MIDDLETON



Pace, Pamela

From: Campbell, Mike D [MikeCampbell@idahopower.com]
Sent: Friday, July 26, 2002 7:30 AM
To: Hulme, James; Edl, Michele
Cc: Pam Pace (E-mail)
Subject: FW: too high at Middleton

Pam, I will be gone next week. Jim will notify Michele of the shift update. She will be able to enter the shift into our database and also notify Jim Doty on Monday. Michele will be able to retrieve the provisional, but accurate data from our Wiski database and email it to you. I hope this will work for everyone involved. Call me on my cell phone if there is any questions. Thanks a lot...Mike

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

From: Pace, Pamela [mailto:ppace@idwr.state.id.us]
Sent: Friday, July 26, 2002 07:27
To: Campbell, Mike D
Subject: RE: too high at Middleton

Mike,

Thanks. Please let me know what the shift is on Monday. I need the numbers to calculate the total Salmon release. I project that the Salmon release will be finished July 30 or 31.

Pam

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

From: Campbell, Mike D [mailto:MikeCampbell@idahopower.com]
Sent: Friday, July 26, 2002 7:10 AM
To: Edl, Michele; 'PPace@idwr.state.id.us'
Cc: Vidmar, Pete; Pierce, Stan; Hulme, James
Subject: RE: too high at Middleton

Pam and Michele, we have Jim and Stan scheduled to measure Parma and Middleton on Monday. They will notify Jim Doty at USBR with the shift updates soon after they are done. Thanks a lot...Mike

> -----Original Message-----

> From: Edl, Michele
> Sent: Monday, July 22, 2002 11:12
> To: 'PPace@idwr.state.id.us'
> Cc: Vidmar, Pete; Campbell, Mike D
> Subject: too high at Middleton

>

> Pam,

> I just left a message on your voicemail. I did connect with Mike Campbell and Pete Vidmar this morning. Mike believes that the higher flow we are seeing is probably due to algae buildup and that we need to apply a shift to the gage height. They are in the field all week making measurements and hope to get to the Boise at Middleton this Friday, July 26; at the latest next Monday July 29.

>

> I will be happy to relay a message to them and thankyou again for pointing this out to us.

>

> Michele Edl
> Water Management
> Idaho Power
> Boise, ID

Pace, Pamela

From: Edl, Michele [MEdl@idahopower.com]
Sent: Tuesday, July 30, 2002 10:16 AM
To: 'PPace@idwr.state.id.us'
Cc: Vidmar, Pete; Campbell, Mike D
Subject: Middleton discharge



30MI Daily average
Q's for PPa...

Pam,

I spoke briefly with one of the technicians who made the measurement at Middleton yesterday. He said that the staff gage read the same number the entire time he was making the measurement. From the 15-min data, the daily max, 591.45 cfs (shifted), occurred a couple hours after the measurement. I am confident that they dodged that slug of water you mentioned. I made some corrections to the raw data, eliminating some zeros, so the daily average that appears on the web page should look better this afternoon.

Our database prorated the shift back in time. I looked at that too and I am happy with how it was applied.

Here is the spreadsheet I promised you in our phone call. It is good to have email access again. Let me know if you have any questions.

<<BOMI Daily average Q's for PPace.xls>>

Michele Edl
Water Management
388-2385

Created on - 07/30/2002
Created by - Michele Edl, Wat Mgmt
Location - Boise River near Middleton, ID
Date Range - 06/01/2002 through 07/29/2002
Data Source - Idaho Power WISKI Database
Data Status - Provisional/Preliminary
Data Period - Daily

Date	Flow (cfs)
6/1/2002	726.17
6/2/2002	752.44
6/3/2002	753.53
6/4/2002	727.53
6/5/2002	748.36
6/6/2002	700.19
6/7/2002	618.86
6/8/2002	604.75
6/9/2002	650.32
6/10/2002	674.96
6/11/2002	630.15
6/12/2002	599.53
6/13/2002	619.77
6/14/2002	595.51
6/15/2002	520.52
6/16/2002	492.35
6/17/2002	484.12
6/18/2002	535.77
6/19/2002	526.88
6/20/2002	513.59
6/21/2002	503.79
6/22/2002	493.55
6/23/2002	496.70
6/24/2002	493.09
6/25/2002	483.89
6/26/2002	455.76
6/27/2002	458.73
6/28/2002	454.86
6/29/2002	446.86
6/30/2002	452.26
7/1/2002	462.24
7/2/2002	475.40
7/3/2002	458.39
7/4/2002	463.65
7/5/2002	489.95
7/6/2002	451.25
7/7/2002	445.65
7/8/2002	440.05
7/9/2002	431.48
7/10/2002	429.45
7/11/2002	426.62
7/12/2002	445.64
7/13/2002	450.12
7/14/2002	444.65

7/15/2002	490.75
7/16/2002	489.36
7/17/2002	459.13
7/18/2002	457.44
7/19/2002	473.14
7/20/2002	486.88
7/21/2002	509.08
7/22/2002	541.82
7/23/2002	547.16
7/24/2002	523.07
7/25/2002	520.62
7/26/2002	511.81
7/27/2002	508.69
7/28/2002	530.20
7/29/2002	554.91

To get this
rt\$

BOMI Q

Computed by: WRD

Date: 29-JUL-2002 13:10:57

Station ID: BOMI

Time of last edit: 14-NOV-2000 12:47:19

most current

Rating table for: Table 11/14/00; #3 from 10/01/99

GH cfs ft

Q	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09	DIFF
cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs
0.00											
.10											
.20											
.30		101	103	105	107	110	112	115	117	119	
.40	122	124	127	129	132	135	137	140	143	146	
.50	149	151	154	157	160	163	166	169	172	176	26.7
.60	179	182	185	188	192	195	199	202	205	209	30.2
Q	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09	DIFF
cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs
.70	213	216	220	224	227	231	235	239	243	246	33.9
.80	250	254	258	263	267	271	275	279	284	288	37.8
.90	292	297	301	306	310	315	320	324	329	334	41.9
1.00	339	343	348	353	358	363	368	374	379	384	46.2
.10	389	395	400	405	411	416	422	428	433	439	50.7
.20	445	450	456	462	468	474	480	486	492	499	55.4
.30	505	511	518	524	530	537	544	550	557	564	60.3
.40	570	577	584	591	598	605	612	619	626	634	65.4
.50	641	648	656	663	671	678	686	694	701	709	70.6
.60	717	725	733	741	749	757	765	774	782	790	76.1
.70	799	807	816	824	833	842	851	859	868	877	81.7
.80	886	895	904	914	923	932	942	951	961	970	87.5
.90	980	989	999	1009	1019	1029	1039	1049	1059	1069	93.5
2.00	1080										99.7

Measured July 29

565 cfs

SHA + -0.37

July 29
761.2
1.42 → 584

1.42 - 0.37 = 1.05
↓
+ 0.37 = 383

1.79

9:45 AM
- 10:30 AM

Set in at
10:00

10:30

1.39 - shifted

offset so reset

DAYFILES > g/all bomi

BOMI	02JUL29	GH	Q	HJ
	00:00	1.73	749.52	-0.09
	00:15	1.73	749.52	-0.09
	00:30	1.73	749.52	-0.09
	00:45	1.73	749.52	-0.09
	01:00	1.73	749.52	-0.09
	01:15	1.74	757.66	-0.09
	01:30	1.73	749.52	-0.09
	01:45	1.74	757.66	-0.09
	02:00	1.74	757.66	-0.09
	02:15	1.74	757.66	-0.09
	02:30	1.74	757.66	-0.09
	02:45	1.74	757.66	-0.09
	03:00	1.74	757.66	-0.09
	03:15	1.74	757.66	-0.09
	03:30	1.74	757.66	-0.09
	03:45	1.74	757.66	-0.09
	04:00	1.75	765.86	-0.09
	04:15	1.75	765.86	-0.09
	04:30	1.75	765.86	-0.09
	04:45	1.75	765.86	-0.09
	05:00	1.76	774.11	-0.09
	05:15	1.76	774.11	-0.09
	05:30	1.76	774.11	-0.09
	05:45	1.76	774.11	-0.09
	06:00	0.00	774.11	-0.09
	06:15	0.00	774.11	-0.09
	06:30	0.00	774.11	-0.09
	06:45	0.00	774.11	-0.09
	07:00	0.00	765.86	-0.09
	07:15	0.00	765.86	-0.09
	07:30	0.00	765.86	-0.09
	07:45	0.00	765.86	-0.09
	08:00	0.00	765.86	-0.09
	08:15	0.00	765.86	-0.09
	08:30	0.00	765.86	-0.09
	08:45	0.00	765.86	-0.09
	09:00	0.00	765.86	-0.09
	09:15	0.00	757.66	-0.09
	09:30	0.00	757.66	-0.09
	09:45	0.00	749.52	-0.09

BOMI	02JUL29	GH
	10:00	0.00
	10:15	0.00

BOMI	02JUL29	GH	Q	HJ
	10:30	1.76	774.11	-0.09
	10:45	1.75	765.86	-0.09
	11:00	1.75	765.86	-0.09
	11:15	1.75	765.86	-0.09
	11:30	1.75	765.86	-0.09
	11:45	1.76	774.11	-0.09
	12:00	1.76	774.11	-0.09
	12:15	1.76	774.11	-0.09
	12:30	1.75	765.86	-0.09
	12:45	1.75	765.86	-0.09
	13:00	1.75	765.86	-0.09
	13:15	1.75	765.86	-0.09
	13:30	1.75	765.86	-0.09
	13:45	1.76	774.11	-0.09

$1.76 - .37 = 1.39 \rightarrow 564 \text{ cfs}$

14:00	1.76	774.11	-0.09
14:15	1.76	774.11	-0.09
14:30	1.77	782.43	-0.09
14:45	1.77	782.43	-0.09
15:00	1.78	790.80	-0.09
15:15	1.79	799.23	-0.09
15:30	1.79	799.23	-0.09
15:45	1.80	807.72	-0.09
16:00	1.80	807.72	-0.09
16:15	1.80	807.72	-0.09
16:30	1.80	807.72	-0.09
16:45	1.80	807.72	-0.09
17:00	1.80	807.72	-0.09
17:15	1.80	807.72	-0.09
17:30	1.80	807.72	-0.09
17:45	1.79	799.23	-0.09
18:00	1.79	799.23	-0.09
18:15	1.78	790.80	-0.09
18:30	1.77	782.43	-0.09
18:45	1.76	774.11	-0.09
19:00	1.76	774.11	-0.09
19:15	1.75	765.86	-0.09
19:30	1.74	757.66	-0.09
19:45	1.73	749.52	-0.09
20:00	1.72	741.43	-0.09
20:15	1.71	733.41	-0.09
20:30	1.71	733.41	-0.09
20:45	1.70	725.44	-0.09
21:00	1.70	725.44	-0.09
21:15	1.69	717.52	-0.09
21:30	1.68	709.66	-0.09
21:45	1.68	709.66	-0.09
22:00	1.67	701.86	-0.09
22:15	1.67	701.86	-0.09
22:30	1.67	701.86	-0.09
22:45	1.67	701.86	-0.09
23:00	1.66	694.12	-0.09
23:15	1.66	694.12	-0.09
23:30	1.66	694.12	-0.09
23:45	1.65	686.43	-0.09

DAYFILES > ex

\$ lo

WRD

logged out at 30-JUL-2002 08:31:35.92

13206000 BOISE RIVER AT GLENWOOD BRIDGE
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	184	185	183	172	182	968	1267	1158	---	---	---
2	151	173	184	183	187	181	1001	1266	1143	---	---	---
3	149	184	188	182	187	179	1009	1262	1135	---	---	---
4	150	184	184	183	187	168	1073	1264	1137	---	---	---
5	150	188	183	182	187	166	1051	1248	1135	---	---	---
6	148	190	188	183	188	166	1182	1296	1123	---	---	---
7	147	194	188	183	206	169	1330	1219	1128	---	---	---
8	153	186	190	187	189	202	1314	1243	1123	---	---	---
9	152	185	189	183	188	353	1305	1253	1125	---	---	---
10	152	185	186	185	193	519	1286	1263	1128	---	---	---
11	146	185	188	184	190	575	1285	1262	1139	---	---	---
12	163	184	187	187	189	631	1290	1265	1136	---	---	---
13	155	195	186	185	191	753	1281	1260	1131	---	---	---
14	151	206	180	193	191	861	1264	1214	1119	---	---	---
15	150	183	174	197	192	887	1284	1165	1070	---	---	---
16	151	187	174	198	184	926	1287	1169	1044	---	---	---
17	190	191	174	202	190	908	1271	1171	1039	---	---	---
18	156	180	173	203	186	1028	1255	1183	1036	---	---	---
19	168	188	173	209	191	1232	1254	1163	1037	---	---	---
20	181	186	175	208	188	1307	1251	1162	1045	---	---	---
21	186	185	183	208	187	1295	1260	1155	1056	---	---	---
22	193	183	179	207	186	1283	1253	1156	1070	---	---	---
23	183	183	176	208	195	1183	1248	1167	1056	---	---	---
24	181	183	175	210	199	1036	1249	1163	1049	---	---	---
25	189	182	175	210	196	957	1247	1164	1050	---	---	---
26	185	179	180	209	196	953	1240	1156	1051	---	---	---
27	182	184	180	203	193	940	1246	1182	1058	---	---	---
28	185	183	176	160	190	943	1240	1164	1058	---	---	---
29	195	183	173	---	190	945	1246	1164	---	---	---	---
30	182	184	182	---	189	950	1246	1160	---	---	---	---
31	---	184	184	---	192	---	1254	---	---	---	---	---
TOTAL	4974	5747	5609	5412	5884	21878	37967	36226	30577			
MEAN	166	185	181	193	190	729	1225	1208	1092			
MAX	195	206	190	210	206	1307	1330	1296	1158			
MIN	146	173	173	160	172	166	968	1155	1036			
AC-FT	9865	11399	11124	10735	11672	43394	75307	71855	60649			
IRRIGATION YEAR 2002		TOTAL	154273	MEAN	423	AC-FT	306000					

BOMI GD

WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

AY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.82	0.82	0.82	0.70	0.69	0.58	0.69	0.91	1.61	1.45	---	---
2	0.68	0.80	0.77	0.70	0.68	0.68	0.64	0.96	1.64	1.48	---	---
3	0.61	0.80	0.81	0.72	0.68	0.68	---	1.02	1.65	1.46	---	---
4	0.57	0.81	0.78	0.73	0.69	0.68	---	1.10	1.61	1.47	---	---
5	0.60	0.80	0.82	0.71	0.69	0.67	---	1.11	1.64	1.52	---	---
6	0.63	0.80	0.85	0.73	0.69	0.67	---	1.21	1.62	1.46	---	---
7	0.62	0.80	0.91	0.76	0.69	0.74	---	1.62	1.57	1.45	---	---
8	0.63	0.80	0.85	0.75	0.71	0.73	---	1.65	1.55	1.45	---	---
9	0.60	0.53	0.82	0.76	0.69	0.67	---	1.67	1.62	1.44	---	---
10	0.61	0.78	0.80	0.72	0.69	0.71	---	1.62	1.66	1.44	---	---
11	0.73	0.77	0.79	0.76	0.68	0.71	---	1.62	1.61	1.44	---	---
12	0.72	0.74	0.79	0.73	0.69	0.68	---	1.65	1.56	1.48	---	---
13	0.77	0.79	0.81	0.73	0.67	0.69	---	1.64	1.60	1.49	---	---
14	0.81	0.78	1.00	0.72	0.68	0.69	---	1.56	1.57	1.49	---	---
15	0.85	0.79	0.89	0.71	0.76	0.69	1.09	1.59	1.46	1.57	---	---
16	0.86	0.79	0.80	0.71	0.74	0.67	1.75	1.61	1.42	1.58	---	---
17	0.82	0.79	0.82	0.70	0.75	0.67	1.71	1.59	1.41	1.53	---	---
18	0.80	0.87	0.80	0.71	0.74	0.67	1.75	1.56	1.50	1.53	---	---
19	0.79	0.78	0.62	0.69	0.76	0.66	1.96	1.53	1.49	1.57	---	---
20	0.80	0.78	0.74	0.72	0.77	0.67	2.14	1.53	1.48	1.59	---	---
21	0.81	0.81	0.73	0.75	0.76	0.64	2.06	1.58	1.47	1.63	---	---
22	0.81	0.87	0.74	0.79	0.76	0.65	1.96	1.59	1.46	1.69	---	---
23	0.83	0.82	0.73	0.73	0.77	0.69	1.77	1.58	1.47	1.70	---	---
24	0.83	0.76	0.72	0.72	0.78	0.77	1.47	1.59	1.47	1.67	---	---
25	0.66	0.78	0.70	0.70	0.78	0.78	1.24	1.58	1.46	1.67	---	---
26	0.83	0.82	0.68	0.73	0.78	0.74	1.16	1.58	1.41	1.66	---	---
27	0.84	0.77	0.71	0.78	0.78	0.74	1.06	1.59	1.42	1.66	---	---
28	0.86	0.77	0.70	0.73	0.65	0.74	1.06	1.56	1.42	1.70	---	---
29	0.89	0.86	0.69	0.70		0.72	1.00	1.55	1.41	1.42	---	---
30	0.89	0.84	0.70	0.69		0.72	0.91	1.56	1.43	---	---	---
31	0.82		0.69	0.71		0.72		1.59		---	---	---
OTAL	23.38	23.73	24.10	22.49	20.22	21.52	25.43	46.09	45.67	44.72	0.00	0.00
EAN	0.75	0.79	0.78	0.73	0.72	0.69	1.41	1.49	1.52	1.54	0.00	0.00
AX	0.89	0.87	1.00	0.79	0.78	0.78	2.14	1.67	1.66	1.70	0.00	0.00
IN	(29)	(18)	(14)	(22)	(25)	(25)	(20)	(9)	(10)	(28)	(0)	(0)
	0.57	0.53	0.62	0.69	0.65	0.58	0.64	0.91	1.41	1.42	0.00	0.00
	(4)	(9)	(19)	(19)	(28)	(1)	(2)	(1)	(17)	(29)	(0)	(0)
ATER YEAR	2002 TOTAL	297.34	MEAN	1.03	MAX	2.14	MIN	0.53				

BOMI HJ

WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

AY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.05	-0.30	-0.30	-0.09	---	---
2	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.05	-0.30	-0.30	-0.09	---	---
3	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.30	-0.09	---	---
4	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.30	-0.09	---	---
5	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.30	-0.09	---	---
6	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.30	-0.09	---	---
7	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.30	-0.09	---	---
8	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.30	-0.09	---	---
9	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.30	-0.09	---	---
10	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.09	-0.09	---	---
11	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.09	-0.09	---	---
12	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.09	-0.09	---	---
13	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.09	-0.09	---	---
14	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	---	-0.30	-0.09	-0.09	---	---
15	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
16	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
17	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
18	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
19	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
20	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
21	-0.19	-0.10	-0.06	-0.06	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
22	-0.19	-0.10	-0.06	-0.06	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
23	-0.19	-0.10	-0.06	-0.04	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
24	-0.19	-0.10	-0.06	-0.04	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
25	-0.19	-0.10	-0.06	-0.04	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
26	-0.10	-0.10	-0.06	-0.04	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
27	-0.10	-0.10	-0.06	-0.04	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
28	-0.10	-0.10	-0.06	-0.04	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
29	-0.10	-0.10	-0.06	-0.04	-0.05	-0.05	-0.30	-0.30	-0.09	-0.09	---	---
30	-0.10	-0.10	-0.06	-0.05	-0.05	-0.05	-0.30	-0.30	-0.09	---	---	---
31	-0.10		-0.06	-0.05		-0.05		-0.30		---	---	---
OTAL	-5.35	-3.00	-2.66	-1.70	-1.40	-1.55	-4.90	-9.30	-4.59	-2.61	0.00	0.00
EAN	-0.17	-0.10	-0.09	-0.05	-0.05	-0.05	-0.27	-0.30	-0.15	-0.09	0.00	0.00
AX	-0.10	-0.10	-0.06	-0.04	-0.05	-0.05	-0.05	-0.30	-0.09	-0.09	0.00	0.00
	(26)	(1)	(21)	(23)	(1)	(1)	(1)	(1)	(10)	(1)	(0)	(0)
IN	-0.19	-0.10	-0.10	-0.06	-0.05	-0.05	-0.30	-0.30	-0.30	-0.09	0.00	0.00
	(1)	(1)	(1)	(1)	(1)	(1)	(15)	(1)	(1)	(1)	(0)	(0)
ATER YEAR	2002 TOTAL		-37.06	MEAN	-0.13	MAX	-0.04	MIN	-0.30			

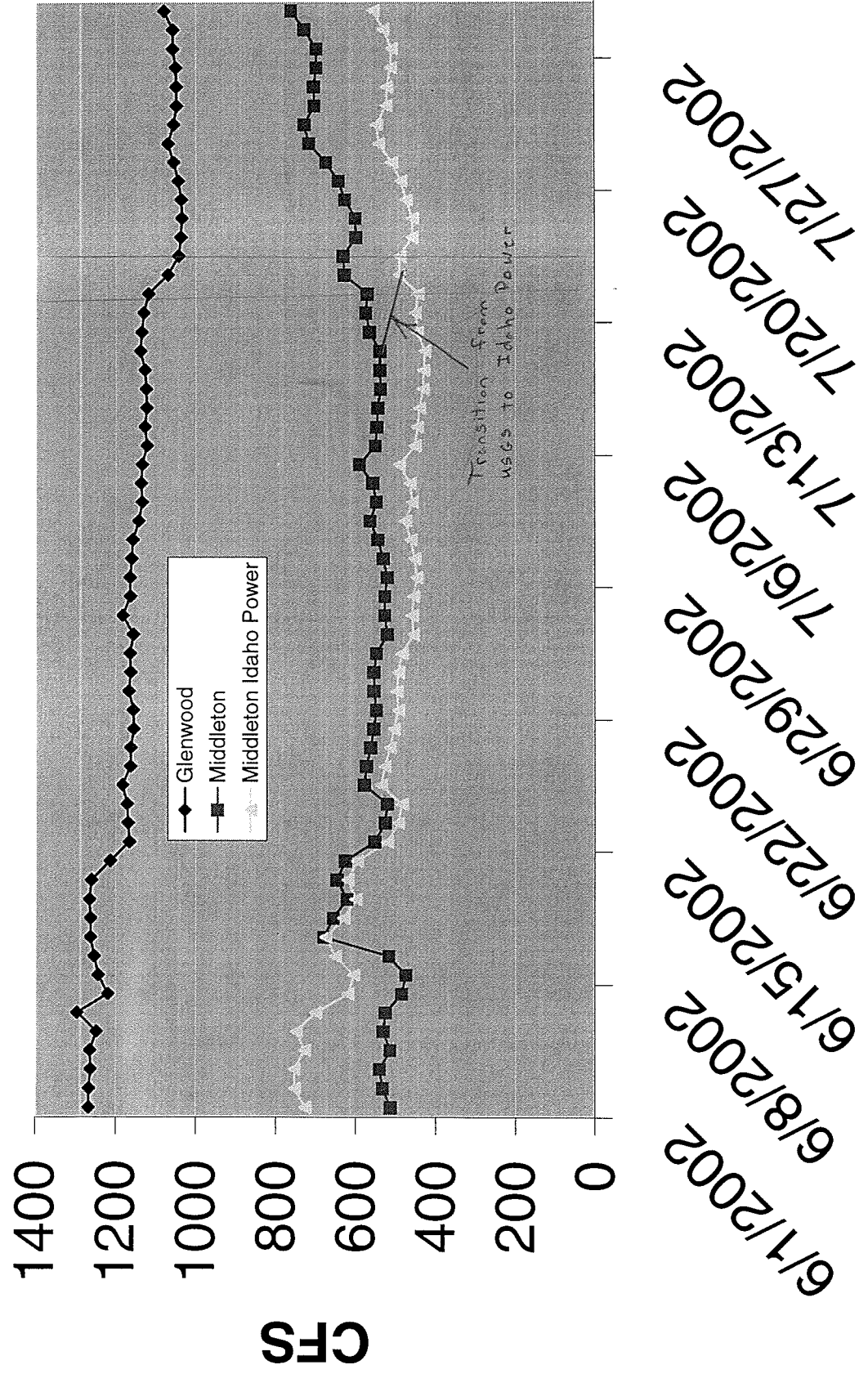
BOMI QD

WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

AY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190.77	219.57	220.19	192.19	192.79	158.20	193.24	182.02	512.17	544.91	---	---
2	147.29	214.10	202.48	190.90	190.66	189.37	177.31	200.49	531.96	563.56	---	---
3	127.07	211.86	218.10	199.04	190.01	188.72	---	219.59	539.88	547.62	---	---
4	118.14	218.28	207.37	202.59	190.88	190.35	---	250.77	513.34	557.07	---	---
5	124.97	212.46	218.87	194.20	192.50	185.59	---	253.23	530.44	590.46	---	---
6	132.55	212.91	232.91	203.45	192.20	185.03	---	301.42	525.55	550.38	---	---
7	131.07	212.04	256.25	214.30	194.09	210.32	---	515.49	484.36	547.30	---	---
8	132.73	213.72	232.63	210.76	200.09	205.71	---	539.95	473.83	544.47	---	---
9	124.74	206.97	221.26	212.61	192.46	187.35	---	551.83	516.88	538.03	---	---
10	126.93	204.50	214.81	200.39	192.20	198.92	---	519.65	680.26	539.15	---	---
11	163.52	202.22	211.20	211.60	189.97	197.67	---	519.91	656.42	539.27	---	---
12	158.64	193.72	209.33	202.21	191.97	190.28	---	537.83	621.65	564.83	---	---
13	173.77	211.24	217.89	202.37	187.17	192.96	---	534.38	646.74	573.94	---	---
14	185.77	206.51	293.32	199.95	187.83	191.64	---	479.39	626.22	570.77	---	---
15	198.70	209.40	248.57	195.46	216.25	191.75	545.55	496.49	551.69	628.37	---	---
16	201.25	209.43	212.43	195.73	210.43	187.30	605.32	514.63	525.87	631.33	---	---
17	188.85	210.13	219.17	193.15	213.05	185.19	580.18	498.50	520.58	599.17	---	---
18	181.40	243.45	215.52	194.81	209.97	186.76	603.26	482.79	578.04	600.63	---	---
19	180.84	206.11	217.85	189.46	217.13	181.47	768.68	463.34	572.85	626.72	---	---
20	183.69	206.18	192.50	197.52	222.10	185.76	919.24	462.11	562.09	643.46	---	---
21	186.13	217.97	201.29	208.14	217.35	176.86	851.19	492.10	555.35	674.08	---	---
22	184.89	240.46	204.55	224.32	217.41	179.83	768.10	497.24	547.80	717.23	---	---
23	192.75	220.95	201.64	208.27	221.66	193.23	625.96	493.47	554.79	728.21	---	---
24	191.73	198.65	198.93	206.61	224.06	221.19	428.85	496.93	554.30	703.34	---	---
25	191.44	205.76	192.50	199.77	225.77	222.46	308.70	494.38	548.07	704.37	---	---
26	220.76	222.39	186.81	209.48	222.95	211.19	276.99	493.24	520.79	697.71	---	---
27	228.18	204.24	194.93	228.89	222.95	211.29	235.66	500.52	527.20	697.83	---	---
28	233.81	201.49	193.97	210.38	180.24	208.76	236.16	479.56	526.49	728.38	---	---
29	246.79	233.48	187.97	200.62		201.09	213.10	475.81	521.10	761.17	---	---
30	245.97	229.79	191.68	193.67		202.63	183.32	478.08	530.53	---	---	---
31	221.67		190.62	198.88		203.32		499.75		---	---	---
OTAL	5516.79	6399.94	6607.57	6291.72	5706.17	6022.18	8520.82	13924.89	16557.27	17913.76	0.00	0.00
EAN	177.96	213.33	213.15	202.96	203.79	194.26	473.38	449.19	551.91	617.72	0.00	0.00
AX	246.79	243.45	293.32	228.89	225.77	222.46	919.24	551.83	680.26	761.17	0.00	0.00
	(29)	(18)	(14)	(27)	(25)	(25)	(20)	(9)	(10)	(29)	(0)	(0)
IN	118.14	193.72	186.81	189.46	180.24	158.20	177.31	182.02	473.83	538.03	0.00	0.00
	(4)	(12)	(26)	(19)	(28)	(1)	(2)	(1)	(8)	(9)	(0)	(0)
ATER YEAR	2002 TOTAL	93461.11	MEAN	322.28	MAX	919.24	MIN	118.14				

527
515
503
497
489
Idaho
Power
data

2002 Boise River at Glenwood and Middleton

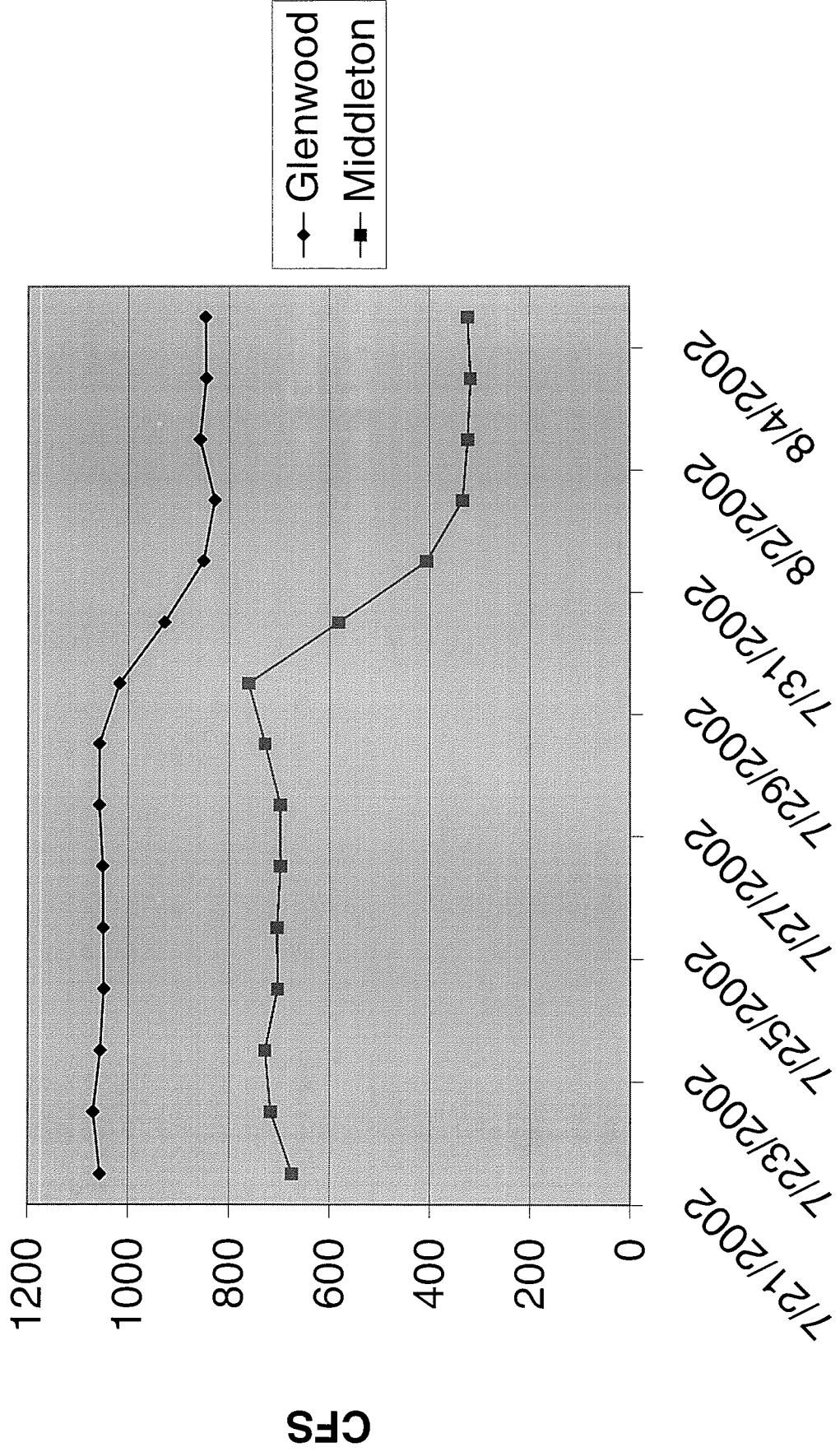


30-JUL-02

13210050 BOISE RIVER NEAR MIDDLETON
 STORED FLOW, CUBIC FEET/SECOND , IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	153	154	152	157	177	8.0	406	295	---	---	---
2	151	154	156	153	167	154	29	428	314	---	---	---
3	149	156	155	155	171	179	56	436	298	---	---	---
4	150	155	155	154	170	159	93	406	307	---	---	---
5	150	154	153	156	171	147	98	428	341	---	---	---
6	148	157	154	156	170	132	150	413	300	---	---	---
7	147	157	153	152	165	156	383	376	297	---	---	---
8	153	154	155	154	165	0.0	436	362	295	---	---	---
9	152	157	156	153	173	0.0	451	413	288	---	---	---
10	152	155	153	156	168	207	413	444	289	---	---	---
11	146	154	154	155	169	216	413	406	289	---	---	---
12	153	156	153	153	168	128	436	372	277	---	---	---
13	153	155	154	185	170	194	428	397	265	---	---	---
14	151	155	153	188	169	292	369	376	253	---	---	---
15	150	156	153	197	0.0	89	391	302	241	---	---	---
16	151	154	153	198	152	515	406	276	239	---	---	---
17	155	155	154	202	155	483	391	271	209	---	---	---
18	154	154	154	203	153	515	369	328	207	---	---	---
19	155	154	153	209	152	701	348	323	223	---	---	---
20	156	154	153	208	152	850	348	312	2337	---	---	---
21	155	152	152	208	7.4	799	384	305	259	---	---	---
22	154	154	154	202	160	701	391	298	292	---	---	---
23	154	154	154	200	158	532	384	305	---	---	---	---
24	155	154	153	201	158	307	391	304	---	---	---	---
25	155	154	152	200	157	166	384	298	---	---	---	---
26	154	155	154	206	164	124	384	271	---	---	---	---
27	154	155	153	181	162	74	391	277	---	---	---	---
28	153	155	153	130	162	74	369	277	---	---	---	---
29	153	156	154	---	165	47	362	271	---	---	---	---
30	155	157	155	---	169	8.0	369	281	---	---	---	---
31	---	156	152	---	169	---	391	---	---	---	---	---
TOTAL	4567	4798	4763	4964	4747	8125	10216	10360	6115			
MEAN	152	155	154	177	153	271	330	345	278			
MAX	156	157	156	209	173	850	451	444	341			
MIN	146	152	152	130	0.0	0.0	8.0	271	207			
AC-FT	9059	9516	9447	9846	9415	16115	20263	20549	12129			
IRRIGATION YEAR 2002			TOTAL	58654	MEAN	161	AC-FT	116340				

2002 Boise River at Glenwood and Middleton



13206000 BOISE RIVER AT GLENWOOD BRIDGE
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	184	185	183	172	182	968	1267	1158	829	---	---
2	151	173	184	183	187	181	1001	1266	1143	858	---	---
3	149	184	188	182	187	179	1009	1262	1135	846	---	---
4	150	184	184	183	187	168	1073	1264	1137	847	---	---
5	150	188	183	182	187	166	1051	1248	1135	---	---	---
6	148	190	188	183	188	166	1182	1296	1123	---	---	---
7	147	194	188	183	206	169	1330	1219	1128	---	---	---
8	153	186	190	187	189	202	1314	1243	1123	---	---	---
9	152	185	189	183	188	353	1305	1253	1125	---	---	---
10	152	185	186	185	193	519	1286	1263	1128	---	---	---
11	146	185	188	184	190	575	1285	1262	1139	---	---	---
12	163	184	187	187	189	631	1290	1265	1136	---	---	---
13	155	195	186	185	191	753	1281	1260	1131	---	---	---
14	151	206	180	193	191	861	1264	1214	1119	---	---	---
15	150	183	174	197	192	887	1284	1165	1070	---	---	---
16	151	187	174	198	184	926	1287	1169	1044	---	---	---
17	190	191	174	202	190	908	1271	1171	1039	---	---	---
18	156	180	173	203	186	1028	1255	1183	1036	---	---	---
19	168	188	173	209	191	1232	1254	1163	1037	---	---	---
20	181	186	175	208	188	1307	1251	1162	1045	---	---	---
21	186	185	183	208	187	1295	1260	1155	1056	---	---	---
22	193	183	179	207	186	1283	1253	1156	1070	---	---	---
23	183	183	176	208	195	1183	1248	1167	1056	---	---	---
24	181	183	175	210	199	1036	1249	1163	1049	---	---	---
25	189	182	175	210	196	957	1247	1164	1050	---	---	---
26	185	179	180	209	196	953	1240	1156	1051	---	---	---
27	182	184	180	203	193	940	1246	1182	1058	---	---	---
28	185	183	176	160	190	943	1240	1164	1058	---	---	---
29	195	183	173	---	190	945	1246	1164	1017	---	---	---
30	182	184	182	---	189	950	1246	1160	928	---	---	---
31	---	184	184	---	192	---	1254	---	851	---	---	---
TOTAL	4974	5747	5609	5412	5884	21878	37967	36226	33373	3379		
MEAN	166	185	181	193	190	729	1225	1208	1077	845		
MAX	195	206	190	210	206	1307	1330	1296	1158	858		
MIN	146	173	173	160	172	166	968	1155	851	829		
AC-FT	9865	11399	11124	10735	11672	43394	75307	71855	66195	6702		
IRRIGATION YEAR 2002			TOTAL	160448	MEAN	440	AC-FT	318248				

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	334	---	---
2	214	203	191	191	189	177	279	678	564	324	---	---
3	212	218	199	190	189	182	306	686	548	318	---	---
4	218	207	203	191	190	159	343	656	557	324	---	---
5	213	219	194	193	186	147	348	678	591	---	---	---
6	213	233	203	192	185	132	400	663	550	---	---	---
7	212	256	214	194	210	156	633	626	547	---	---	---
8	214	233	211	200	206	155	686	612	545	---	---	---
9	207	221	213	193	187	229	701	663	538	---	---	---
10	205	215	200	192	199	457	663	694	539	---	---	---
11	202	211	212	190	198	466	663	656	539	---	---	---
12	194	209	202	192	190	378	686	622	527	---	---	---
13	211	218	202	187	193	444	678	647	515	---	---	---
14	207	293	200	188	192	542	619	626	503	---	---	---
15	209	249	196	216	192	339	641	552	491	---	---	---
16	209	212	196	210	187	765	656	526	489	---	---	---
17	210	219	193	213	185	733	641	521	459	---	---	---
18	243	216	195	210	187	765	619	578	457	---	---	---
19	206	218	190	217	182	951	598	573	473	---	---	---
20	206	193	198	222	186	1100	598	562	487	---	---	---
21	218	201	208	217	177	1049	634	555	509	---	---	---
22	241	205	224	217	180	951	641	548	542	---	---	---
23	221	202	208	222	193	782	634	555	547	---	---	---
24	199	199	207	224	221	557	641	554	523	---	---	---
25	206	193	200	226	223	416	634	548	521	---	---	---
26	222	187	210	223	211	374	634	521	698	512	---	---
27	204	195	229	223	211	324	641	527	698	509	---	---
28	202	194	210	180	209	324	619	527	728	530	---	---
29	234	188	201	---	201	297	612	521	761	555	---	---
30	230	192	194	---	203	258	619	531	582	---	---	---
31	---	191	199	---	203	---	641	---	406	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	16979	1299		
MEAN	213	213	203	204	194	460	580	595	548	325		
MAX	243	293	229	226	223	1100	701	694	761	334		
MIN	194	187	190	180	158	132	258	521	406	318		
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	33678	2577		

IRRIGATION YEAR 2002 TOTAL 98934 MEAN 271 AC-FT 196235

BIGI QD

WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241.06	152.31	183.58	184.58	183.29	171.50	182.27	967.65	1267.19	1157.66	828.69	---
2	135.37	150.72	172.87	183.57	182.75	187.43	180.71	1000.52	1266.03	1143.02	---	---
3	139.77	148.83	183.70	187.48	182.05	186.89	179.22	1009.39	1262.31	1134.67	---	---
4	138.41	150.25	183.58	184.42	182.54	186.62	167.95	1072.73	1263.45	1136.97	---	---
5	138.42	150.29	188.45	183.33	182.13	187.01	165.60	1050.45	1247.78	1134.57	---	---
6	136.98	148.35	190.08	187.71	182.73	187.74	166.16	1181.49	1295.70	1122.49	---	---
7	136.71	146.86	193.70	187.55	182.89	205.69	169.16	1329.57	1219.42	1128.35	---	---
8	135.47	152.47	186.33	190.09	186.86	189.06	201.97	1314.17	1243.09	1123.21	---	---
9	121.23	151.55	184.55	189.37	182.94	188.39	352.89	1305.24	1253.19	1124.66	---	---
10	124.65	152.23	184.49	186.27	185.00	192.69	519.37	1285.50	1262.62	1128.07	---	---
11	166.50	145.80	184.85	187.86	183.97	189.81	574.77	1285.25	1262.37	1139.08	---	---
12	140.91	162.78	184.00	186.60	186.47	188.82	630.51	1290.26	1265.04	1136.17	---	---
13	139.18	154.87	194.67	186.29	184.46	190.79	752.87	1280.74	1260.41	1130.71	---	---
14	139.45	150.72	205.58	179.62	192.77	190.88	860.46	1264.10	1213.63	1118.75	---	---
15	153.47	150.29	182.46	173.74	197.27	192.15	886.48	1283.97	1165.44	1070.03	---	---
16	194.16	150.70	186.93	174.29	197.66	183.54	925.86	1286.65	1168.75	1044.03	---	---
17	195.28	189.92	190.94	173.57	201.68	189.66	908.12	1271.42	1170.63	1038.59	---	---
18	198.42	155.49	179.58	172.87	203.27	185.97	1027.99	1254.89	1182.75	1035.86	---	---
19	204.78	168.02	187.96	172.60	208.70	190.47	1232.43	1254.18	1163.09	1036.84	---	---
20	204.16	181.15	185.81	175.17	207.88	187.83	1307.09	1250.49	1162.03	1044.74	---	---
21	208.70	185.64	184.70	182.53	208.25	186.97	1295.04	1260.17	1155.19	1056.09	---	---
22	210.18	193.12	183.43	178.56	206.82	185.47	1283.37	1253.32	1156.14	1070.37	---	---
23	217.50	183.03	182.81	176.45	207.96	194.49	1183.20	1247.79	1166.57	1056.23	---	---
24	215.72	180.51	182.53	174.62	210.32	198.97	1035.85	1248.74	1162.76	1048.95	---	---
25	212.50	188.93	181.90	174.78	209.75	195.88	957.27	1247.01	1164.16	1050.38	---	---
26	213.44	185.34	179.27	180.33	209.34	195.46	952.75	1240.26	1156.11	1050.89	---	---
27	216.40	182.19	184.26	179.48	202.59	192.50	940.43	1245.50	1182.02	1057.51	---	---
28	218.66	184.94	182.79	175.78	159.70	189.98	942.47	1239.84	1163.88	1057.54	---	---
29	217.89	194.92	183.08	173.17		189.86	945.25	1245.48	1164.20	1016.89	---	---
30	201.65	181.50	183.71	181.49		189.18	949.82	1245.84	1160.24	928.25	---	---
31	154.82		184.19	184.09		192.34		1253.98		850.95	---	---
TOTAL	5471.83	4973.72	5746.78	5608.24	5412.05	5884.01	21877.35	37966.59	36226.21	33372.55	828.69	0.00
MEAN	176.51	165.79	185.38	180.91	193.29	189.81	729.24	1224.73	1207.54	1076.53	828.69	0.00
MAX	241.06	194.92	205.58	190.09	210.32	205.69	1307.09	1329.57	1295.70	1157.66	828.69	0.00
(1)	(29)	(14)	(8)	(24)	(7)	(20)	(7)	(6)	(1)	(1)	(0)	(0)
MIN	121.23	145.80	172.87	172.60	159.70	171.50	165.60	967.65	1155.19	850.95	828.69	0.00
(9)	(11)	(2)	(19)	(28)	(1)	(5)	(1)	(21)	(31)	(1)	(0)	(0)

WATER YEAR 2002 TOTAL 163368.0 MEAN 535.63 MAX 1329.57 MIN 121.23

Days measured at the Glenwood Gage - Boise River

UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - IDAHO DISTRICT

08/02/2002

STATION NUMBER 13206000 BOISE RIVER AT GLENWOOD BRIDGE NR BOISE ID STREAM SOURCE AGENCY USGS
 LATITUDE 433937 LONGITUDE 1161641 DRAINAGE AREA 2800 DATUM 2600. STATE 16 COUNTY 001
 PROVISIONAL DATA SUBJECT TO REVISION

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	180	180	182	182	170	181	960	1260	---	---	---
2	200	179	175	180	181	186	179	994	1260	---	---	---
3	203	178	179	185	181	185	178	1000	1250	---	---	---
4	202	179	180	181	181	185	167	1060	1250	---	---	---
5	202	179	185	180	181	186	164	1040	1240	---	---	---
6	201	178	187	186	181	186	165	1180	1290	---	---	---
7	201	177	192	185	182	204	168	1320	---	---	---	---
8	200	180	182	188	185	188	201	1310	---	---	---	---
9	192	179	180	188	182	187	350	1300	---	---	---	---
10	194	180	180	186	184	191	515	1280	---	---	---	---
11	217	175	180	185	182	188	569	1280	---	---	---	---
12	203	184	180	184	185	187	625	1280	---	---	---	---
13	202	181	193	183	183	189	746	1270	---	---	---	---
14	203	179	209	183	191	190	854	1250	---	---	---	---
15	210	179	184	182	196	191	879	1280	---	---	---	---
16	203	179	184	182	196	182	920	1280	---	---	---	---
17	199	199	189	182	200	188	902	1260	---	---	---	---
18	201	181	182	181	202	185	1020	1240	---	---	---	---
19	203	178	185	181	207	189	1220	1240	---	---	---	---
20	203	177	183	184	206	186	1300	1240	---	---	---	---
21	205	181	181	192	207	186	1290	1250	---	---	---	---
22	206	191	181	188	205	184	1270	1240	---	---	---	---
23	209	178	180	185	206	193	1170	1240	---	---	---	---
24	208	177	179	183	209	197	1030	1240	---	---	---	---
25	206	185	179	183	208	194	951	1240	---	---	---	---
26	207	181	179	190	208	194	945	1230	---	---	---	---
27	208	178	181	189	201	191	934	1240	---	---	---	---
28	209	181	181	184	158	189	935	1230	---	---	---	---
29	209	193	180	182	---	188	936	1240	---	---	---	---
30	202	184	181	183	---	188	943	1240	---	---	---	---
31	181	---	182	183	---	191	---	1250	---	---	---	---
TOTAL	6353	5430	5673	5710	5370	5838	21707	37704	---	---	---	---
MEAN	205	181	183	184	192	188	724	1216	---	---	---	---
MAX	264	199	209	192	209	204	1300	1320	---	---	---	---
MIN	181	175	175	180	158	170	164	960	---	---	---	---
AC-FT	12600	10770	11250	11330	10650	11580	43060	74790	---	---	---	---

BIGI HJ

WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.93	1.15	1.28	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
2	0.93	1.15	1.25	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
3	0.93	1.15	1.26	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
4	0.93	1.15	1.26	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
5	0.93	1.15	1.23	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
6	0.93	1.15	1.15	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
7	0.93	1.15	1.24	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
8	0.93	1.15	1.26	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
9	0.93	1.15	1.25	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
10	0.93	1.15	1.25	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
11	0.93	1.15	1.25	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
12	0.93	1.15	1.26	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
13	0.93	1.15	0.92	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
14	0.93	1.15	1.19	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
15	0.93	1.15	1.28	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
16	1.15	1.15	1.23	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
17	1.15	1.15	1.27	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
18	1.15	1.15	1.21	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
19	1.15	1.27	1.25	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
20	1.15	1.27	1.25	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
21	1.15	1.25	1.26	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
22	1.15	1.22	1.27	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
23	1.15	1.28	1.27	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
24	1.15	1.25	1.27	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
25	1.15	1.19	1.27	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
26	1.15	1.27	1.25	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
27	1.15	1.25	1.28	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
28	1.15	1.19	1.26	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
29	1.15	1.13	1.25	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
30	1.15	1.25	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
31	1.15		1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---
TOTAL	32.35	35.51	38.47	35.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	1.04	1.18	1.24	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	1.15	1.28	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	(16)	(23)	(1)	(9)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(0)
	0.93	1.13	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(1)	(29)	(13)	(30)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(0)
WATER YEAR	2002 TOTAL		141.65	MEAN	0.46	MAX	1.28	MIN	0.00			

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	334	---	---
2	214	203	191	191	189	177	279	678	564	324	---	---
3	212	218	199	190	189	182	306	686	548	318	---	---
4	218	207	203	191	190	159	343	656	557	324	---	---
5	213	219	194	193	186	147	348	678	591	328	---	---
6	213	233	203	192	185	132	400	663	550	336	---	---
7	212	256	214	194	210	156	633	626	547	312	---	---
8	214	233	211	200	206	155	686	612	545	302	---	---
9	207	221	213	193	187	229	701	663	538	---	---	---
10	205	215	200	192	199	457	663	694	539	---	---	---
11	202	211	212	190	198	466	663	656	539	---	---	---
12	194	209	202	192	190	378	686	622	527	---	---	---
13	211	218	202	187	193	444	678	647	515	---	---	---
14	207	293	200	188	192	542	619	626	503	---	---	---
15	209	249	196	216	192	339	641	552	491	---	---	---
16	209	212	196	210	187	765	656	526	489	---	---	---
17	210	219	193	213	185	733	641	521	459	---	---	---
18	243	216	195	210	187	765	619	578	457	---	---	---
19	206	218	190	217	182	951	598	573	473	---	---	---
20	206	193	198	222	186	1100	598	562	487	---	---	---
21	218	201	208	217	177	1049	634	555	509	---	---	---
22	241	205	224	217	180	951	641	548	542	---	---	---
23	221	202	208	222	193	782	634	555	547	---	---	---
24	199	199	207	224	221	557	641	554	523	---	---	---
25	206	193	200	226	223	416	634	548	521	---	---	---
26	222	187	210	223	211	374	634	521	512	---	---	---
27	204	195	229	223	211	324	641	527	509	---	---	---
28	202	194	210	180	209	324	619	527	530	---	---	---
29	234	188	201	---	201	297	612	521	555	---	---	---
30	230	192	194	---	203	258	619	531	582	---	---	---
31	---	191	199	---	203	---	641	---	406	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	16199	2578		
MEAN	213	213	203	204	194	460	580	595	523	322		
MAX	243	293	229	226	223	1100	701	694	591	336		
MIN	194	187	190	180	158	132	258	521	406	302		
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	32132	5112		

IRRIGATION YEAR 2002 TOTAL 99433 MEAN 272 AC-FT 197224

2002 Boise River Flow Augmentation for USBR

Date	Stored Flow Middleton CFS	United Water CFS	Total CFS	Date	Stored Flow Middleton* CFS	United Water CFS	Total CFS
6-May-02	150	11	161	23-Jun-02	305	11	316
7-May-02	383	11	394	24-Jun-02	304	11	315
8-May-02	436	11	447	25-Jun-02	298	11	309
9-May-02	451	11	462	26-Jun-02	271	11	282
10-May-02	413	11	424	27-Jun-02	277	11	288
11-May-02	413	11	424	28-Jun-02	277	11	288
12-May-02	436	11	447	29-Jun-02	271	11	282
13-May-02	428	11	439	30-Jun-02	281	11	292
14-May-02	369	11	380	1-Jul-02	295	11	306
15-May-02	391	11	402	2-Jul-02	314	11	325
16-May-02	406	11	417	3-Jul-02	298	11	309
17-May-02	391	11	402	4-Jul-02	307	11	318
18-May-02	369	11	380	5-Jul-02	341	11	352
19-May-02	348	11	359	6-Jul-02	300	11	311
20-May-02	348	11	359	7-Jul-02	297	11	308
21-May-02	384	11	395	8-Jul-02	295	11	306
22-May-02	391	11	402	9-Jul-02	288	11	299
23-May-02	384	11	395	10-Jul-02	289	11	300
24-May-02	391	11	402	11-Jul-02	289	11	300
25-May-02	384	11	395	12-Jul-02	277	11	288
26-May-02	384	11	395	13-Jul-02	265	11	276
27-May-02	391	11	402	14-Jul-02	253	11	264
28-May-02	369	11	380	15-Jul-02	241	11	252
29-May-02	362	11	373	16-Jul-02	239	11	250
30-May-02	369	11	380	17-Jul-02	209	11	220
31-May-02	391	11	402	18-Jul-02	207	11	218
1-Jun-02	406	11	417	19-Jul-02	223	11	234
2-Jun-02	428	11	439	20-Jul-02	237	11	248
3-Jun-02	436	11	447	21-Jul-02	259	11	270
4-Jun-02	406	11	417	22-Jul-02	292	11	303
5-Jun-02	428	11	439	23-Jul-02	297	11	308
6-Jun-02	413	11	424	24-Jul-02	273	11	284
7-Jun-02	376	11	387	25-Jul-02	271	11	282
8-Jun-02	362	11	373	26-Jul-02	262	11	273
9-Jun-02	413	11	424	27-Jul-02	259	11	270
10-Jun-02	444	11	455	28-Jul-02	280	11	291
11-Jun-02	406	11	417	29-Jul-02	305	11	316
12-Jun-02	372	11	383	30-Jul-02	332	11	343
13-Jun-02	397	11	408	31-Jul-02	156	11	167
14-Jun-02	376	11	387	1-Aug-02	84	11	95
15-Jun-02	302	11	313	2-Aug-02	74	11	85
16-Jun-02	276	11	287	3-Aug-02	68	11	79
17-Jun-02	271	11	282	4-Aug-02	74	11	85
18-Jun-02	328	11	339	5-Aug-02	78	11	89
19-Jun-02	323	11	334	6-Aug-02	86	11	97
20-Jun-02	312	11	323	7-Aug-02	62	11	73
21-Jun-02	305	11	316	Total (CFS)			30,304
22-Jun-02	298	11	309	Total(Acre-feet)		2,951	60,108

9-AUG-02

13210050 BOISE RIVER NEAR MIDDLETON
 STORED FLOW, CUBIC FEET/SECOND , IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	153	154	152	157	177	8.0	406	295	84	---	---
2	151	154	156	153	167	154	29	428	314	74	---	---
3	149	156	155	155	171	179	56	436	298	68	---	---
4	150	155	155	154	170	159	93	406	307	74	---	---
5	150	154	153	156	171	147	98	428	341	78	---	---
6	148	157	154	156	170	132	150	413	300	---	---	---
7	147	157	153	152	165	156	383	376	297	---	---	---
8	153	154	155	154	165	0.0	436	362	295	---	---	---
9	152	157	156	153	173	0.0	451	413	288	---	---	---
10	152	155	153	156	168	207	413	444	289	---	---	---
11	146	154	154	155	169	216	413	406	289	---	---	---
12	153	156	153	153	168	128	436	372	277	---	---	---
13	153	155	154	185	170	194	428	397	265	---	---	---
14	151	155	153	188	169	292	369	376	253	---	---	---
15	150	156	153	197	0.0	89	391	302	241	---	---	---
16	151	154	153	198	152	515	406	276	239	---	---	---
17	155	155	154	202	155	483	391	271	209	---	---	---
18	154	154	154	203	153	515	369	328	207	---	---	---
19	155	154	153	209	152	701	348	323	223	---	---	---
20	156	154	153	208	152	850	348	312	237	---	---	---
21	155	152	152	208	7.4	799	384	305	259	---	---	---
22	154	154	154	202	160	701	391	298	292	---	---	---
23	154	154	154	200	158	532	384	305	297	---	---	---
24	155	154	153	201	158	307	391	304	273	---	---	---
25	155	154	152	200	157	166	384	298	271	---	---	---
26	154	155	154	206	164	124	384	271	262	---	---	---
27	154	155	153	181	162	74	391	277	259	---	---	---
28	153	155	153	130	162	74	369	277	280	---	---	---
29	153	156	154	---	165	47	362	271	305	---	---	---
30	155	157	155	---	169	8.0	369	281	332	---	---	---
31	---	156	152	---	169	---	391	---	156	---	---	---
TOTAL	4567	4798	4763	4964	4747	8125	10216	10360	8449	377		
MEAN	152	155	154	177	153	271	330	345	273	75		
MAX	156	157	156	209	173	850	451	444	341	84		
MIN	146	152	152	130	0.0	0.0	8.0	271	156	68		
AC-FT	9059	9516	9447	9846	9415	16115	20263	20549	16759	748		

IRRIGATION YEAR 2002 TOTAL 61366 MEAN 168 AC-FT 121719

Pace, Pamela

From: Campbell, Mike D [MikeCampbell@idahopower.com]
Sent: Thursday, August 15, 2002 10:56 AM
To: Jim Doty (E-mail); Gene Kyle (E-mail)
Cc: Pam Pace (E-mail); Edl, Michele; Hulme, James; Vidmar, Pete; Fuhrman, Roger
Subject: Measurement and Shift Change Information

Measurements were made yesterday, Aug. 14, at New York Canal and Boise River near Middleton. Will you please change the shifts in the Hydromet for us.

New York Canal - Q 2170, GH 9.02, shift -.50

Boise near Middleton - Q 290, GH 1.10, shift -.21

Please call if you have questions, thanks a lot, Mike

Mike Campbell
Water Management Department
Idaho Power Company
(208) 388-2473
(208)388-6495 (FAX)

Hydromet

	BOMI			
	8/10	285	1.25	-0.37
	8/11	283	1.25	-0.37
	8/12	274	1.23	-0.37
	8/13	259	1.19	-0.37
	8/14	242	1.07	-0.37
	8/15	220	1.09	-0.37
Day 13:45	8/15	276	1.07	-0.21

BSEI

	8/10	2264	9.00	-0.29
	8/11	2267	9.01	-0.29
	8/12	2272	9.02	-0.29
	8/13	2272.14	9.02	-0.29
	8/14	2272.63	9.02	-0.29
Day		2175.4	9.02	-0.50

Farmers Union Meeting today

Pace, Pamela

From: Edl, Michele [MEdl@idahopower.com]
Sent: Thursday, August 15, 2002 3:31 PM
To: 'PPace@idwr.state.id.us'
Cc: Vidmar, Pete; Campbell, Mike D
Subject: Middleton Daily Q update



BOMI QD's for
PPace.xls

Pam,

I checked the values I retrieved today against the spreadsheet I sent you on 7/30/02. The daily averages in June have changed somewhat so I am including more days than you requested. I know that I had to work around bad or missing data that has since been replaced by downloads from the datalogger and there are still some rough looking hours that won't be reviewed until year end. Our database begins prorating back 2 shifts, so for this request, recalculation starts at 6/9/02, and includes those shifts on 7/30/02 and 8/14/02. Hopefully, the extra data helps rather than hurts your decision process.

<<BOMI QD's for PPace.xls>>

Let me know if I can do anything else for you.

Michele Edl
Water Management
388-2385

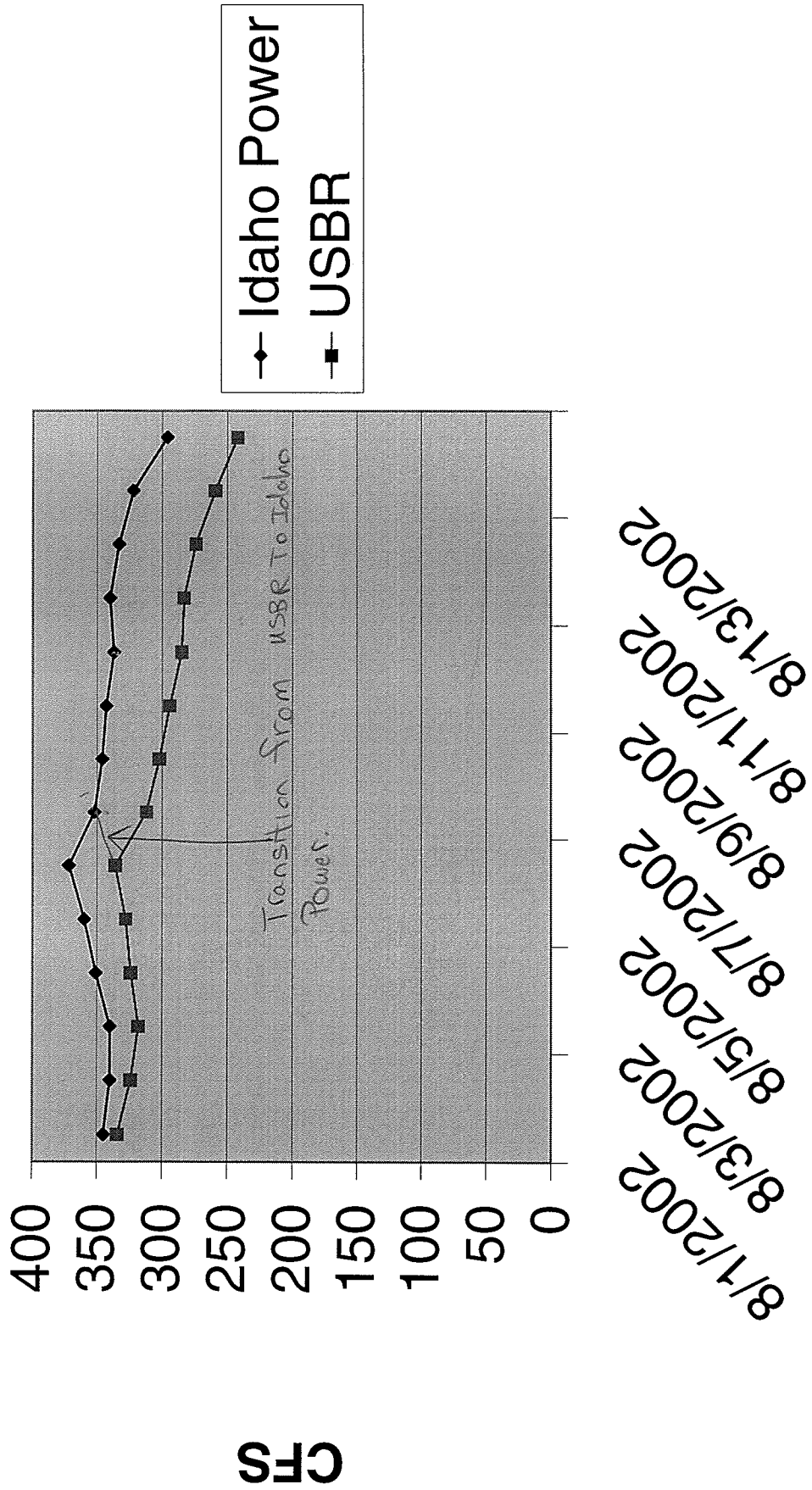
Created on - 08/16/2002
Created by - Michele Edl, Wat Mgmt
Location - Boise River near Middleton, ID
Date Range - 06/09/2002 through 08/15/2002
Data Source - Idaho Power WISKI Database
Data Status - Provisional/Preliminary
Data Period - Daily

Date	Flow (cfs)
6/9/2002	648.458
6/10/2002	668.419
6/11/2002	628.037
6/12/2002	605.321
6/13/2002	619.875
6/14/2002	590.704
6/15/2002	519.595
6/16/2002	492.404
6/17/2002	485.026
6/18/2002	539.096
6/19/2002	526.526
6/20/2002	515.35
6/21/2002	506.011
6/22/2002	496.864
6/23/2002	499.352
6/24/2002	496.675
6/25/2002	486.108
6/26/2002	459.447
6/27/2002	463.17
6/28/2002	459.001
6/29/2002	451.799
6/30/2002	457.886
7/1/2002	468.214
7/2/2002	480.053
7/3/2002	465.968
7/4/2002	470.582
7/5/2002	497.106
7/6/2002	454.617
7/7/2002	453.097
7/8/2002	446.813
7/9/2002	439.202
7/10/2002	437.214
7/11/2002	435.033
7/12/2002	456.081
7/13/2002	458.181
7/14/2002	456.12
7/15/2002	502.426
7/16/2002	498.728
7/17/2002	469.257
7/18/2002	469.471
7/19/2002	489.331
7/20/2002	500.115
7/21/2002	523.679
7/22/2002	556.476

7/23/2002	561.904
7/24/2002	537.007
7/25/2002	535.753
7/26/2002	526.414
7/27/2002	524.526
7/28/2002	548.153
7/29/2002	557.324
7/30/2002	471.777
7/31/2002	411.537
8/1/2002	344.998
8/2/2002	340.389
8/3/2002	339.864
8/4/2002	351.128
8/5/2002	360.032
8/6/2002	372.405
8/7/2002	352.599
8/8/2002	345.673
8/9/2002	343.051
8/10/2002	337.075
8/11/2002	340.124
8/12/2002	333.435
8/13/2002	321.963
8/14/2002	295.709
8/15/2002	302.713

New
Data
Added

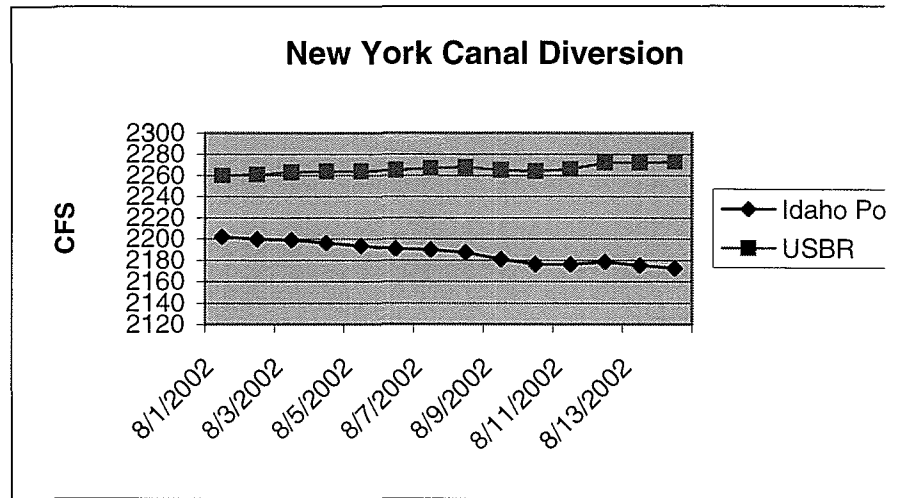
2002 Middleton Flows



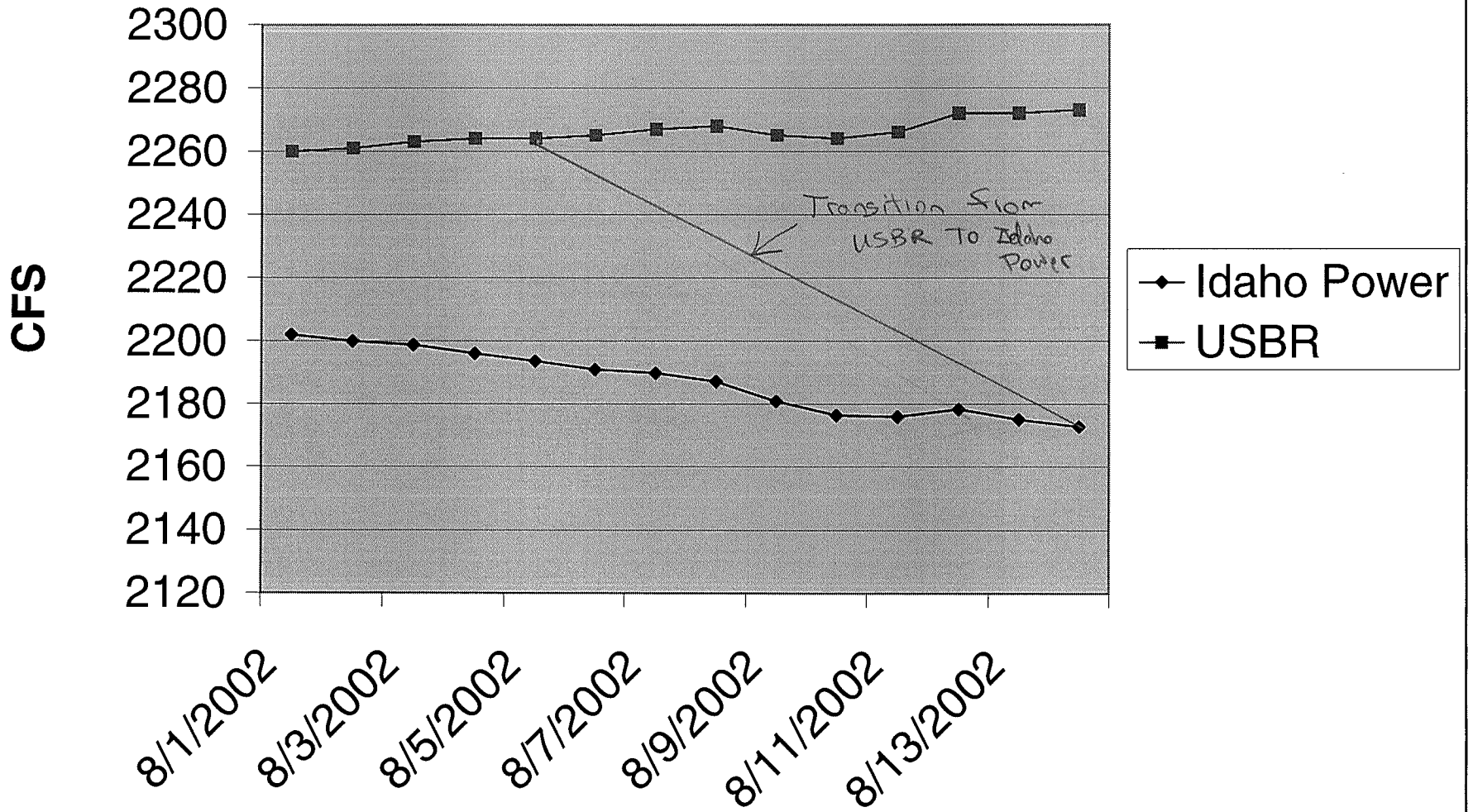
Created on - 08/15/2002
Created by - Michele Edl, Wat Mgmt
Location - New York Canal below Diversion Dam nr Boise, ID
Date Range - 06/18/2002 through 08/14/2002
Data Source - Idaho Power WISKI Database
Data Status - Provisional/Preliminary
Data Period - Daily

Date	Flow (cfs)
6/18/2002	2326.69
6/19/2002	2326.63
6/20/2002	2323.29
6/21/2002	2324.78
6/22/2002	2323.23
6/23/2002	2321.29
6/24/2002	2321.03
6/25/2002	2319.99
6/26/2002	2315.81
6/27/2002	2315.41
6/28/2002	2312.17
6/29/2002	2309.88
6/30/2002	2311.82
7/1/2002	2310.02
7/2/2002	2306.3
7/3/2002	2302.92
7/4/2002	2302.42
7/5/2002	2300.98
7/6/2002	2297.71
7/7/2002	2295.08
7/8/2002	2288.95
7/9/2002	2285.78
7/10/2002	2280.79
7/11/2002	2278.08
7/12/2002	2275.11
7/13/2002	2269.34
7/14/2002	2267.17
7/15/2002	2262.78
7/16/2002	2261.26
7/17/2002	2258.93
7/18/2002	2255.27
7/19/2002	2252.84
7/20/2002	2250.26
7/21/2002	2244.84
7/22/2002	2238.55
7/23/2002	2234.56
7/24/2002	2229.01
7/25/2002	2227.08
7/26/2002	2222.62
7/27/2002	2220.2
7/28/2002	2217.25
7/29/2002	2213.62
7/30/2002	2207.66
7/31/2002	2205.89 USBR

8/1/2002	2201.93	2260
8/2/2002	2199.91	2261
8/3/2002	2198.72	2263
8/4/2002	2196.02	2264
8/5/2002	2193.57	2264
8/6/2002	2190.88	2265
8/7/2002	2189.79	2267
8/8/2002	2187.1	2268
8/9/2002	2180.88	2265
8/10/2002	2176.36	2264
8/11/2002	2175.95	2266
8/12/2002	2178.29	2272
8/13/2002	2175.03	2272
8/14/2002	2172.79	2273
8/15/2002	2174.36	



New York Canal Diversion



OLD

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	334	---	---
2	214	203	191	191	189	177	279	678	564	324	---	---
3	212	218	199	190	189	182	306	686	548	318	---	---
4	218	207	203	191	190	159	343	656	557	324	---	---
5	213	219	194	193	186	147	348	678	591	328	---	---
6	213	233	203	192	185	132	400	663	550	336	---	---
7	212	256	214	194	210	156	633	626	547	312	---	---
8	214	233	211	200	206	155	686	612	545	302	---	---
9	207	221	213	193	187	229	701	663	538	294	---	---
10	205	215	200	192	199	457	663	694	539	285	---	---
11	202	211	212	190	198	466	663	656	539	283	---	---
12	194	209	202	192	190	378	686	622	527	274	---	---
13	211	218	202	187	193	444	678	647	515	259	---	---
14	207	293	200	188	192	542	619	626	503	242	---	---
15	209	249	196	216	192	339	641	552	491	---	---	---
16	209	212	196	210	187	765	656	526	489	---	---	---
17	210	219	193	213	185	733	641	521	459	---	---	---
18	243	216	195	210	187	765	619	578	457	---	---	---
19	206	218	190	217	182	951	598	573	473	---	---	---
20	206	193	198	222	186	1100	598	562	487	---	---	---
21	218	201	208	217	177	1049	634	555	509	---	---	---
22	241	205	224	217	180	951	641	548	542	---	---	---
23	221	202	208	222	193	782	634	555	547	---	---	---
24	199	199	207	224	221	557	641	554	523	---	---	---
25	206	193	200	226	223	416	634	548	521	---	---	---
26	222	187	210	223	211	374	634	521	512	---	---	---
27	204	195	229	223	211	324	641	527	509	---	---	---
28	202	194	210	180	209	324	619	527	530	---	---	---
29	234	188	201	---	201	297	612	521	555	---	---	---
30	230	192	194	---	203	258	619	531	582	---	---	---
31	---	191	199	---	203	---	641	---	406	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	16199	4215		
MEAN	213	213	203	204	194	460	580	595	523	301		
MAX	243	293	229	226	223	1100	701	694	591	336		
MIN	194	187	190	180	158	132	258	521	406	242		
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	32132	8360		

end of Salmon.

IRRIGATION YEAR 2002 TOTAL 101070 MEAN 277 AC-FT 200472

OLD

13203000 NEW YORK CANAL
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	0.0	0.0	0.0	0.0	926	995	2369	2450	2345	2260	---	---
2	0.0	0.0	0.0	0.0	984	1001	2379	2454	2344	2261	---	---
3	0.0	0.0	0.0	0.0	982	1004	2387	2455	2344	2263	---	---
4	0.0	0.0	0.0	0.0	982	1008	2390	2455	2345	2264	---	---
5	0.0	0.0	0.0	0.0	982	1012	2393	2416	2347	2264	---	---
6	0.0	0.0	0.0	0.0	982	1015	2378	2393	2346	2265	---	---
7	0.0	0.0	0.0	0.0	984	1015	2344	2392	2346	2267	---	---
8	0.0	0.0	0.0	0.0	982	1385	2336	2394	2343	2268	---	---
9	0.0	0.0	0.0	0.0	976	1437	2410	2395	2342	2265	---	---
10	0.0	0.0	0.0	0.0	981	1424	2433	2395	2340	2264	---	---
11	0.0	0.0	0.0	0.0	978	1464	2431	2397	2340	2266	---	---
12	0.0	0.0	0.0	0.0	980	1503	2431	2398	2340	2272	---	---
13	0.0	0.0	0.0	0.0	981	1515	2426	2400	2336	2272	---	---
14	0.0	0.0	0.0	0.0	981	1521	2431	2395	2337	2273	---	---
15	0.0	0.0	0.0	393	682	1529	2426	2393	2335	---	---	---
16	0.0	0.0	0.0	405	0.0	1551	2427	2394	2337	---	---	---
17	0.0	0.0	0.0	405	0.0	1595	2429	2395	2337	---	---	---
18	0.0	0.0	0.0	405	0.0	1666	2434	2394	2337	---	---	---
19	0.0	0.0	0.0	401	0.0	1767	2433	2397	2338	---	---	---
20	0.0	0.0	0.0	492	---	1795	2440	2396	2339	---	---	---
21	0.0	0.0	0.0	530	792	1793	2437	2400	2337	---	---	---
22	0.0	0.0	0.0	551	991	1828	2439	2401	2334	---	---	---
23	0.0	0.0	0.0	551	992	1943	2442	2402	2333	---	---	---
24	0.0	0.0	0.0	551	992	2036	2443	2364	2331	---	---	---
25	0.0	0.0	0.0	551	991	2123	2442	2339	2332	---	---	---
26	0.0	0.0	0.0	548	988	2184	2445	2338	2331	---	---	---
27	0.0	0.0	0.0	707	988	2201	2445	2340	2332	---	---	---
28	0.0	0.0	0.0	823	988	2202	2446	2340	2332	---	---	---
29	0.0	0.0	0.0	---	985	2271	2446	2340	2301	---	---	---
30	0.0	0.0	0.0	---	982	2343	2449	2345	2259	---	---	---
31	---	0.0	0.0	---	982	---	2450	---	2259	---	---	---
TOTAL	0	0	0	7311	25033	48127	75011	71768	72299	31724		
MEAN	0.0	0.0	0.0	261	834	1604	2420	2392	2332	2266		
MAX	0.0	0.0	0.0	823	992	2343	2450	2455	2347	2273		
MIN	0.0	0.0	0.0	0.0	0.0	995	2336	2338	2259	2260		
AC-FT	0	0	0	14501	49652	95460	148784	142351	143405	62924		

IRRIGATION YEAR 2002 TOTAL 331272 MEAN 908 AC-FT 657077

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	334	---	---
2	214	203	191	191	189	177	279	678	564	324	---	---
3	212	218	199	190	189	182	306	686	548	318	---	---
4	218	207	203	191	190	159	343	656	557	324	---	---
5	213	219	194	193	186	147	348	678	591	328	---	---
6	213	233	203	192	185	132	400	663	550	336	---	---
7	212	256	214	194	210	156	633	626	547	353	---	---
8	214	233	211	200	206	155	686	612	545	346	---	---
9	207	221	213	193	187	229	701	663	538	343	---	---
10	205	215	200	192	199	457	663	694	539	337	---	---
11	202	211	212	190	198	466	663	656	539	340	---	---
12	194	209	202	192	190	378	686	622	527	333	---	---
13	211	218	202	187	193	444	678	647	515	322	---	---
14	207	293	200	188	192	542	619	626	503	296	---	---
15	209	249	196	216	192	339	641	552	491	303	---	---
16	209	212	196	210	187	765	656	526	489	---	---	---
17	210	219	193	213	185	733	641	521	459	---	---	---
18	243	216	195	210	187	765	619	578	457	---	---	---
19	206	218	190	217	182	951	598	573	473	---	---	---
20	206	193	198	222	186	1100	598	562	487	---	---	---
21	218	201	208	217	177	1049	634	555	509	---	---	---
22	241	205	224	217	180	951	641	548	542	---	---	---
23	221	202	208	222	193	782	634	555	547	---	---	---
24	199	199	207	224	221	557	641	554	523	---	---	---
25	206	193	200	226	223	416	634	548	521	---	---	---
26	222	187	210	223	211	374	634	521	512	---	---	---
27	204	195	229	223	211	324	641	527	509	---	---	---
28	202	194	210	180	209	324	619	527	530	---	---	---
29	234	188	201	---	201	297	612	521	555	---	---	---
30	230	192	194	---	203	258	619	531	582	---	---	---
31	---	191	199	---	203	---	641	---	406	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	16199	4936		
MEAN	213	213	203	204	194	460	580	595	523	329		
MAX	243	293	229	226	223	1100	701	694	591	353		
MIN	194	187	190	180	158	132	258	521	406	296		
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	32132	9791		

IRRIGATION YEAR 2002 TOTAL 101791 MEAN 279 AC-FT 201902

13203000 NEW YORK CANAL
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	0.0	0.0	0.0	0.0	926	995	2369	2450	2345	2260	---	---
2	0.0	0.0	0.0	0.0	984	1001	2379	2454	2344	2261	---	---
3	0.0	0.0	0.0	0.0	982	1004	2387	2455	2344	2263	---	---
4	0.0	0.0	0.0	0.0	982	1008	2390	2455	2345	2264	---	---
5	0.0	0.0	0.0	0.0	982	1012	2393	2416	2347	2264	---	---
6	0.0	0.0	0.0	0.0	982	1015	2378	2393	2346	2255	---	---
7	0.0	0.0	0.0	0.0	984	1015	2344	2392	2346	2246	---	---
8	0.0	0.0	0.0	0.0	982	1385	2336	2394	2343	2237	---	---
9	0.0	0.0	0.0	0.0	976	1437	2410	2395	2342	2228	---	---
10	0.0	0.0	0.0	0.0	981	1424	2433	2395	2340	2219	---	---
11	0.0	0.0	0.0	0.0	978	1464	2431	2397	2340	2210	---	---
12	0.0	0.0	0.0	0.0	980	1503	2431	2398	2340	2201	---	---
13	0.0	0.0	0.0	0.0	981	1515	2426	2400	2336	2192	---	---
14	0.0	0.0	0.0	0.0	981	1521	2431	2395	2337	2183	---	---
15	0.0	0.0	0.0	393	682	1529	2426	2393	2335	2174	---	---
16	0.0	0.0	0.0	405	0.0	1551	2427	2394	2337	---	---	---
17	0.0	0.0	0.0	405	0.0	1595	2429	2395	2337	---	---	---
18	0.0	0.0	0.0	405	0.0	1666	2434	2394	2337	---	---	---
19	0.0	0.0	0.0	401	0.0	1767	2433	2397	2338	---	---	---
20	0.0	0.0	0.0	492	---	1795	2440	2396	2339	---	---	---
21	0.0	0.0	0.0	530	792	1793	2437	2400	2337	---	---	---
22	0.0	0.0	0.0	551	991	1828	2439	2401	2334	---	---	---
23	0.0	0.0	0.0	551	992	1943	2442	2402	2333	---	---	---
24	0.0	0.0	0.0	551	992	2036	2443	2364	2331	---	---	---
25	0.0	0.0	0.0	551	991	2123	2442	2339	2332	---	---	---
26	0.0	0.0	0.0	548	988	2184	2445	2338	2331	---	---	---
27	0.0	0.0	0.0	707	988	2201	2445	2340	2332	---	---	---
28	0.0	0.0	0.0	823	988	2202	2446	2340	2332	---	---	---
29	0.0	0.0	0.0	---	985	2271	2446	2340	2301	---	---	---
30	0.0	0.0	0.0	---	982	2343	2449	2345	2259	---	---	---
31	---	0.0	0.0	---	982	---	2450	---	2259	---	---	---
TOTAL	0	0	0	7311	25033	48127	75011	71768	72299	33457		
MEAN	0.0	0.0	0.0	261	834	1604	2420	2392	2332	2230		
MAX	0.0	0.0	0.0	823	992	2343	2450	2455	2347	2264		
MIN	0.0	0.0	0.0	0.0	0.0	995	2336	2338	2259	2174		
AC-FT	0	0	0	14501	49652	95460	148784	142351	143405	66361		
IRRIGATION YEAR 2002			TOTAL	333004	MEAN	912	AC-FT	660514				

LUC QU

WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	752.00	987.68	780.27	649.79	849.92	737.21	2036.15	3475.49	2374.36	932.97	520.78	2593.81
2	750.43	909.28	718.15	675.98	871.47	851.22	1952.72	3049.78	2232.01	860.54	543.05	732.29
3	760.78	878.30	819.16	688.48	762.96	942.90	1720.75	2808.96	2287.00	836.55	767.75	234.97
4	700.70	835.37	574.25	865.42	863.62	811.88	1742.14	2637.18	2367.62	875.71	435.87	473.16
5	729.61	951.56	777.20	685.50	802.77	903.41	1568.40	2650.38	2081.07	935.85	567.57	-2798.33
6	684.47	831.72	900.54	757.73	818.21	962.18	1538.88	2771.92	2001.93	538.09	761.85	597.30
7	954.89	735.41	638.79	591.99	702.18	1045.10	1700.42	2792.61	1847.51	890.14	420.81	568.81
8	528.06	883.10	970.35	887.69	648.46	1186.34	1556.63	2918.77	1778.72	871.29	616.80	737.38
9	680.87	868.42	807.55	708.64	685.11	1542.56	1421.13	3199.44	1645.67	922.07	484.67	546.40
10	805.10	838.80	894.90	1184.96	837.61	1441.84	1269.29	3396.60	1596.71	959.78	645.68	611.53
11	1020.40	820.68	712.95	538.53	777.57	1464.75	1452.27	3490.96	1711.56	1112.11	493.61	489.77
12	1175.21	973.52	696.36	1340.28	811.03	1316.32	1453.40	3658.72	1794.75	831.39	275.21	515.74
13	969.05	669.46	593.52	528.21	762.04	1283.49	1209.98	4291.41	1717.83	873.78	469.49	649.59
14	1001.44	778.97	1150.10	1157.94	741.22	1409.18	1370.52	4563.93	1563.22	953.14	764.21	524.17
15	952.04	814.46	901.42	691.54	740.45	1292.02	1252.84	5955.90	1492.52	734.65	534.55	593.93
16	920.72	590.23	758.50	658.56	802.38	1322.89	1388.14	6211.45	1369.61	652.15	542.16	602.53
17	875.45	794.21	682.56	486.99	745.99	1295.05	1527.62	5346.51	1303.52	814.43	687.27	449.53
18	812.30	332.50	912.21	342.81	764.13	1159.48	1730.79	4585.31	1321.04	788.88	289.62	806.97
19	861.81	890.15	456.87	1180.23	856.92	1299.45	2109.50	4282.17	1256.98	658.72	558.97	344.36
20	837.69	699.74	851.74	1163.40	945.29	1719.50	2293.51	3892.72	1228.15	793.00	404.96	444.38
21	1070.59	701.44	958.60	729.56	892.84	1951.06	2090.31	3727.05	1188.12	569.25	579.29	603.32
22	1036.88	951.79	1095.96	731.66	908.82	2000.87	2116.13	3518.59	1154.92	695.92	427.16	317.63
23	890.67	700.01	863.50	970.62	908.34	2034.74	2088.06	3573.66	1095.46	793.21	571.69	587.39
24	842.99	723.18	966.99	732.60	803.51	2188.00	2023.77	3053.85	1045.10	545.57	450.23	337.42
25	789.75	833.47	629.51	947.38	818.78	2603.46	2230.20	3840.45	1004.50	820.03	641.33	589.36
26	1026.02	811.99	470.03	790.65	746.19	2360.83	2742.21	3912.06	1123.64	538.31	497.13	447.34
27	898.16	1069.58	839.36	834.05	834.91	2160.09	3355.52	3765.16	814.44	329.31	487.11	546.87
28	990.45	734.05	831.23	591.32	658.37	2121.72	3931.14	3495.96	1126.30	719.28	489.01	410.91
29	1491.27	940.29	614.68	558.61		1917.77	3727.48	3089.39	1059.65	448.99	637.64	348.78
30	1150.25	908.52	638.06	906.04		1892.97	3238.92	2786.81	960.34	766.20	277.81	518.81
31	1065.32		1023.89	747.25		1765.78		2544.28		933.10	1777.62	
TOTAL	28025.35	24457.88	24529.20	24324.42	22361.08	46984.04	59838.83	113287.5	45544.24	23994.40	17620.88	14426.13
MEAN	904.04	815.26	791.26	784.66	798.61	1515.61	1994.63	3654.44	1518.14	774.01	568.42	480.87
MAX	1491.27	1069.58	1150.10	1340.28	945.29	2603.46	3931.14	6211.45	2374.36	1112.11	1777.62	2593.81
	(29)	(27)	(14)	(12)	(20)	(25)	(28)	(16)	(1)	(11)	(31)	(1)
MIN	528.06	332.50	456.87	342.81	648.46	737.21	1209.98	2544.28	814.44	329.31	275.21	-2798.33
	(8)	(18)	(19)	(18)	(8)	(1)	(13)	(31)	(27)	(27)	(12)	(5)

WATER YEAR 2001 TOTAL 445394.0 MEAN 1220.26 MAX 6211.45 MIN -2798.33

<CR> to continue...

ARCHIVES> ex

m

\$ lo

WRD

logged out at 23-SEP-2002 09:14:21.66

445394.0 x 1.9835 = 883,439 Acre-Feet - Total Basin Production 2001
For Lec - 9/22/02

10/7/02

Lucky Peak Account for USBR and F&G

Accounts filled this year.

Fish & Game	48,903.5 AF	} Evaporation Estimated
USBR	+ 100,173.9 AF	
	<u>149,077.4 AF</u>	

Flow Aug.	<u>- 60,108. AF</u>
	88,969.4 AF

Inactive Space Anderson +39,960 AF

128,930 AF

Flood Release (New Fill)	<u>- 11,285 AF</u>
	117,645 AF

- Storage Available to
USBR and F&G out
of Lucky Peak

11/20/02 PDP

Note: It was discovered the inactive space in Anderson is 36,960 AF. after this calculation. So space is 3000 AF to much

BOISE RIVER STORED WATER SUPPLY (ACRE-FEET)

	Date:	30-Sep-02
Supply:		
Accounted for storage		842914.8
Unaccounted for storage		
Late season fill		
Total Storage Available		842914.8
Use:		
Canals and pumps		507725.7
Endangered species	(60108-2051United Water)	58147.0
Evaporation		11613.7
Flood Release		11285.0
Fish and Game		
USBR Streamflow		
Operational Loss	(80399.4-60108-11285)	9006.4
Total Storage Used		597777.8
Net Storage		245137.0
Actual Storage	(205807+39,960)	245767.0
Averaging Error		(630.0)

13190000	3	1ANDERSON RANCH
13194000	4	1ARROWROCK
13201050	6	LUCKY PEAK NURSERY
13201500	6	1LUCKY PEAK
13201501	6	1ARROWROCK SYS FILL
13201502	6	1ANDERSON SYS FILL
13201990	6 -2	FISH AND GAME FLOW
13201991	6 -2	USBR FLOW
13202995	7	1PENITENTIARY
13203000	7	NEW YORK
13203527	8	SURPRIS VY/MICRN
13203715	8	SHAKESPEARE
13203760	8	RIDENBAUGH
13204005	8	BUBB
13204015	8	1HERRICK
13204020	8	1MEEVES
13204060	8	ROSSI MILL
13204190	8	BOISE CITY
13204200	8	UNITED WATER
13205515	9	SETTLERS
13205517	9	DAVIS
13205613	9	1BOISE CITY PARKS
13205622	9	THURMAN MILL
13205640	9	FARMERS UNION
13205641	9	BOISE VALLEY
13205643	9	CAPITOL VIEW
13206090	10	NEW DRY CREEK
13206092	10	NEW UNION
13206205	10	1LEMP
13206220	10	1WARM SPRINGS
13206260	10	1GRAHAM-GILBERT
13206265	10	BALLENTYNE
13206270	10	1CONWAY-HAMMING
13206274	10	1EAGLE ISLAND PARK
13206290	10	1THOMAS AIKEN
13206292	10	1MACE-CATLIN
13206295	10	1MACE-MACE
13208450	10	1HART-DAVIS
13208710	10	MIDDLETON
13208738	10	1BARBER
13208740	10	1SEVEN SUCKERS
13209480	10	PHYLLIS
13209482	10	EUREKA #1
13209630	10	LITTLE PIONEER
13209990	10	CANYON COUNTY
13210005	10	1CALDWELL HIGHLINE
13210049	10	1MIDDLETON FLOW
13210984	11	1RIVERSIDE
13210989	11	1PIONEER DIXIE
13210992	11	SEBREE
13210993	11	1CAMPBELL
13210994	11	1SIEBENBERG
13210999	11	1CALDWELL FLOW
13211001	12	1SHIPLEY
13211003	12	1WAGNER
13211603	12	1SIMPLOT
13211725	12	1EUREKA #2
13211735	12	1UPPER CENTER POINT
13211745	12	1MCMANUS AND TEATER
13211825	12	1LOWER CENTER POINT

13190000	3	1ANDERSON RANCH
13194000	4	1ARROWROCK
13201050	6	LUCKY PEAK NURSERY
13201500	6	1LUCKY PEAK
13201990	6 -2	FISH AND GAME FLOW
13201991	6 -2	USBR FLOW
13202995	7	1PENITENTIARY
13203000	7	NEW YORK
13203527	8	SURPRIS VY/MICRN
13203715	8	SHAKESPEARE
13203760	8	RIDENBAUGH
13204005	8	BUBB
13204015	8	1HERRICK
13204020	8	1MEEVES
13204060	8	ROSSI MILL
13204190	8	BOISE CITY
13204200	8	UNITED WATER
13205515	9	SETTLERS
13205517	9	DAVIS
13205613	9	1BOISE CITY PARKS
13205622	9	THURMAN MILL
13205640	9	FARMERS UNION
13205641	9	BOISE VALLEY
13205643	9	CAPITOL VIEW
13206090	10	NEW DRY CREEK
13206092	10	NEW UNION
13206205	10	1LEMP
13206220	10	1WARM SPRINGS
13206260	10	1GRAHAM-GILBERT
13206265	10	BALLENTYNE
13206270	10	1CONWAY-HAMMING
13206274	10	1EAGLE ISLAND PARK
13206290	10	1THOMAS AIKEN
13206292	10	1MACE-CATLIN
13206295	10	1MACE-MACE
13208450	10	1HART-DAVIS
13208710	10	MIDDLETON
13208738	10	1BARBER
13208740	10	1SEVEN SUCKERS
13209480	10	PHYLLIS
13209482	10	EUREKA #1
13209630	10	LITTLE PIONEER
13209990	10	CANYON COUNTY
13210005	10	1CALDWELL HIGHLINE
13210049	10	1MIDDLETON FLOW
13210984	11	1RIVERSIDE
13210989	11	1PIONEER DIXIE
13210992	11	SEBREE
13210993	11	1CAMPBELL
13210994	11	1SIEBENBERG
13210999	11	1CALDWELL FLOW
13211001	12	1SHIPLEY
13211003	12	1WAGNER
13211603	12	1SIMPLOT
13211725	12	1EUREKA #2
13211735	12	1UPPER CENTER POINT
13211745	12	1MCMANUS AND TEATER
13211825	12	1LOWER CENTER POINT
13212499	12	1NOTUS FLOW
13212548	13	1BOWMAN AND SWISHER

19050401	0.810	13204005			9	149
19080401	8.175	13209480		146	37	150
19090401	43.875	13203000		91 288147	34	151
19090616	95.100	13203000		91 288148	34	152
19100401	9.567	13210984			150	40 153
19100401	0.504	13211745			151	50 153
19110113	1200.000	13194000	1	91 288152	51	76
19140404	2.655	13210984			153	40 155
19140709	3.135	13210989			154	38 156
18940702	13.615	13205640			140	17 2
19000323	14.715	13203000		91 288141	34	225
19031214	337.395	13203000				26
19031214	1.250	13202995				26
19050401	76.640	13209480			143	37 227
19050401	38.612	13210992			144	43 227
19050401	1.350	13204005			145	9 227
19080401	13.625	13209480			146	37 228
19090401	73.125	13203000		91 288147	34	229
19090616	158.500	13203000		91 288148	34	230
19100401	15.945	13210984			150	40 231
19100401	0.840	13211745			151	50 231
19110113	2000.000	13194000	1	91 288152	51	76
19110113	8000.000	13194000	1	289 90152	51	76
19140404	4.425	13210984			153	40 233
19140709	5.225	13210989			154	38 234
19151002	0.580	13208740				34
19210719	1.200	13205641				34
19380625	7562.390	13194000	2			
19401209	213360.222	13190000	3			
19500515	1.600	13211825				34
19630412	133224.099	13201500	4			
19650315	0.220	13211001				34
19670221	0.560	13212896				34
19800219	0.640	13210993				34
19800721	0.720	13206292				34
19820708	0.440	13206274				34
19850401	2.400	13204200				
19930908	24.800	13204200				
19110113	8000.000	13201501	1			
19380625	7562.390	13201501	2			
19401209	213360.222	13201502	3			
19970606	15.000	13203527				
19970606	15.000	13203527				

19050401	0.810	13204005			9	149
19080401	8.175	13209480		146	37	150
19090401	43.875	13203000		91 288147	34	151
19090616	95.100	13203000		91 288148	34	152
19100401	9.567	13210984		150	40	153
19100401	0.504	13211745		151	50	153
19110113	1200.000	13194000	1	91 288152	51	76
19140404	2.655	13210984		153	40	155
19140709	3.135	13210989		154	38	156
18940702	13.615	13205640		140	17	2
19000323	14.715	13203000		91 288141	34	225
19031214	337.395	13203000			26	
19031214	1.250	13202995			26	
19050401	76.640	13209480		143	37	227
19050401	38.612	13210992		144	43	227
19050401	1.350	13204005		145	9	227
19080401	13.625	13209480		146	37	228
19090401	73.125	13203000		91 288147	34	229
19090616	158.500	13203000		91 288148	34	230
19100401	15.945	13210984		150	40	231
19100401	0.840	13211745		151	50	231
19110113	2000.000	13194000	1	91 288152	51	76
19110113	8000.000	13194000	1	289 90152	51	76
19140404	4.425	13210984		153	40	233
19140709	5.225	13210989		154	38	234
19151002	0.580	13208740			34	
19210719	1.200	13205641			34	
19380625	7562.390	13194000	2			
19401209	213360.222	13190000	3			
19500515	1.600	13211825			34	
19630412	112648.350	13201500	4			
19650315	0.220	13211001			34	
19670221	0.560	13212896			34	
19800219	0.640	13210993			34	
19800721	0.720	13206292			34	
19820708	0.440	13206274			34	
19850401	2.400	13204200				
19930908	24.800	13204200				
19970606	15.000	13203527				
19970606	15.000	13203527				
20000101	0.000	13190000	5			
20000102	20636.249	13201500	6			

OID BOIWA JND

70	24	774	13	12	0	4	0	0	1	6	0	0	24	20	0
0	0	0													
2	0	0													
4	3	4	6	6	7	8	9	10	11	12	13	0	11	11	11
11	11	11	11	11	12	13	13								
1	2	3	4	5	6	7	8	9	10	14	15	16	17	18	19
20	21	11	22	12	23	24	13								
0	0	1	2	0	3	4	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0								
1	1	4	4	1	4	1	4	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1								
0	0	0	0	0	0	1	1	0	0	1	1	0	2	2	2
2	2	2	2	2	2	2	2								
1	2	3	4	5	6	9	10	14	15	16	17	18	19	20	21
22	23	24	13	0	0	0	0								
-0	-0	-0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	0	0	0
-0	-0	-0	-0	-0	-0	-0	-0								
-0	-0	-0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	0	0	0
-0	-0	-0	-0	-0	-0	-0	-0								
-0	-0	-0	-0												

TWIN SPRINGS	FEATHERVILLE	FTHRVL TO ANDERSN RANCH
ANDSN RANCH TO ARROWROCK	MORES CREEK	ARROWROCK TO LUCKY PEAK
LUCKY PEAK TO DIVSN DAM	DIVSN DAM TO BOISE	BOISE TO GLENWOOD BR
GLENWOOD BR TO MIDDLETON	MIDDLETON TO CALDWELL	CALDWELL TO NOTUS
NOTUS TO PARMA	FIVE MILE DRAIN	NORTH MIDDLETON DRAIN
SOUTH MIDDLETON DRAIN	WILLOW CREEK	MASON CREEK
MASON DRAIN	HARTLEY GULCH	HARTLEY DRAIN
INDIAN CREEK	CONWAY GULCH	DIXIE SLOUGH
ANDERSON RANCH	ARROWROCK	LUCKY PEAK
		DIVERSION DAM

NEW BOWEN

68	24	773	13	12	0	4	0	0	0	1	6	0	0	24	20	0
0	0	0														
2	0	0														
4	3	4	6	6	7	8	9	10	11	12	13	0	11	11	11	
11	11	11	11	11	12	13	13									
1	2	3	4	5	6	7	8	9	10	14	15	16	17	18	19	
20	21	11	22	12	23	24	13									
0	0	1	2	0	3	4	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0									
1	1	4	4	1	4	1	4	1	1	1	1	1	1	1	1	
1	1	1	1	1	1	1	1									
0	0	0	0	0	0	1	1	0	0	1	1	0	2	2	2	
2	2	2	2	2	2	2	2									
1	2	3	4	5	6	9	10	14	15	16	17	18	19	20	21	
22	23	24	13	0	0	0	0									
-0	-0	-0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	0	0	0	
-0	-0	-0	-0	-0	-0	-0	-0									
-0	-0	-0	-0	-0	-0	-0	-0	0	-0	-0	-0	-0	0	0	0	
-0	-0	-0	-0	-0	-0	-0	-0									

TWIN SPRINGS	FEATHERVILLE	FTHRVL TO ANDERSN RANCH
ANDSN RANCH TO ARROWROCK	MORES CREEK	ARROWROCK TO LUCKY PEAK
LUCKY PEAK TO DIVSN DAM	DIVSN DAM TO BOISE	BOISE TO GLENWOOD BR
GLENWOOD BR TO MIDDLETON	MIDDLETON TO CALDWELL	CALDWELL TO NOTUS
NOTUS TO PARMA	FIVE MILE DRAIN	NORTH MIDDLETON DRAIN
SOUTH MIDDLETON DRAIN	WILLOW CREEK	MASON CREEK
MASON DRAIN	HARTLEY GULCH	HARTLEY DRAIN
INDIAN CREEK	CONWAY GULCH	DIXIE SLOUGH
ANDERSON RANCH	ARROWROCK	LUCKY PEAK
		DIVERSION DAM

Change BO1STO.SPA 10/31/02
 Change BO1STO.IND 10/31/02

20021031

TABLE 2. 2002 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
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0	190.0
13201990	FISH & GAME FLOW	0.0	0.0	50000.0	0.0	0.0	50000.0
13201991	USBR FLOW	0.0	0.0	102420.0	0.0	40932.0	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	500.0	0.0	0.0	1031.0
13204060	ROSSI MILL	0.0	0.0	700.0	0.0	0.0	700.0
13204190	BOISE CITY	0.0	0.0	1000.0	0.0	0.0	1000.0
13204200	UNITED WATER	0.0	1000.0	0.0	0.0	0.0	1000.0
13205515	SETTLERS	2668.0	5675.0	10000.0	0.0	0.0	18343.0
13205517	DAVIS	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	10000.0	0.0	0.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	0.0	0.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	300.0	0.0	0.0	749.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	1400.0	0.0	0.0	1400.0
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13208710	MIDDLETON	0.0	0.0	11000.0	0.0	0.0	11000.0
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	500.0	0.0	0.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	6000.0	0.0	0.0	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	1146.0
99999050	ANDERSON DAM POWER	0.0	400.0	0.0	0.0	0.0	400.0
99999080	ANDSN UNCONTRACTED	0.0	39956.0	36956.0	0.0	0.0	39956.0
99999100	EAGLE IS CANALS	0.0	0.0	1718.0	0.0	0.0	1718.0
TOTAL		272224.0	453424.0	223438.0	0.0	40932.0	990018.0
			450030.0				

Original "power" contract 5200. Sold 800AF to Trinity Springs
 1000AF to United Water
 3000AF to Micron

 4800AF

} Contracts in AF.
 ↑

Remaining 400AF

Other contracts are 9% of active space.
 Therefore 400 AF reduced to 67AF because these contracts in AF.

- 10,502 acre-feet of surcharge storage between elevation 4,196.0 and 4,198.2.
- 408,442 acre-feet of joint use storage between elevation 4,044.0 and 4,196.0.
- 4,632 acre-feet of conservation storage between elevation 4,039.6 and 4,044.0.
- 36,956 acre-feet of inactive storage between elevation 3,992.0 and 4,039.6.
- 24,912 acre-feet of dead storage below elevation 3,992.0.

Not
39956

1800

The Anderson Ranch Reservoir inflow and end-of-month stage records in table 1, operation period December 1945 through June 1998, show the inflow and annual fluctuation since dam closure. The estimated average inflow into the reservoir for this operation period was 752,160 acre-feet per year. Since initial filling, the extreme storage fluctuations of Anderson Ranch Reservoir ranged from an elevation of 4,007.0 on March 10, 1993 to the maximum recorded elevation of 4,197.98 on June 11, 1983. The records show that in most years the reservoir fills to the near-full reservoir elevation and annually, while releasing irrigation and power supply water downstream, drops 50 or more feet in elevation.

HYDROGRAPHIC SURVEY EQUIPMENT AND METHOD

The hydrographic survey equipment was mounted in the cabin of a 24-foot trihull aluminum vessel equipped with twin in-board motors. The hydrographic system contained on the survey vessel consisted of a global positioning system (GPS) receiver with a built-in radio and an omnidirectional antenna, a depth sounder, a helmsman display for navigation, a plotter, a computer, and hydrographic system software for collecting underwater data. Power to the equipment was supplied by an on-board generator.

The shore equipment included a second GPS receiver with a built-in radio and an omnidirectional antenna. The GPS receiver and antenna were mounted on a survey tripod over a known datum point. To obtain the maximum radio transmission range, known datum points with clear line-of-sight to the survey boat were selected. The power for the shore unit was provided by a 12-volt battery.

GPS Technology and Equipment

The hydrographic positioning system used at Anderson Ranch Reservoir was Navigation Satellite Timing and Ranging (NAVSTAR) GPS, an all-weather, radio-based, satellite navigation system that enables users to accurately determine three-dimensional position. The NAVSTAR system's primary mission is to provide passive global positioning and navigation for land-, air-, and sea-based strategic and tactical forces and is operated and maintained by the Department of Defense (DOD). The GPS receiver measures the distances between the satellites and itself and determines the receiver's position from intersections of the multiple-range vectors. Distances are determined by accurately measuring the time a signal pulse takes to travel from the satellite to the receiver.

New Boisto.SPA

13189600	TRINITY SPRINGS	0.0	800.0	0.0	0.0	0.0
13190000	SANDERSON RANCH	0.0	0.0	0.0	0.0	0.0
13194000	SARROWROCK	0.0	0.0	0.0	0.0	0.0
13201050	LUCKY PEAK NURSERY	190.0	0.0	0.0	0.0	0.0
13201500	SLUCKY PEAK	0.0	0.0	0.0	0.0	0.0
13201990	FISH & GAME FLOW	0.0	0.0	50000.0	0.0	0.0
13201991	USBR FLOW	0.0	0.0	102420.0	0.0	40932.0
13202995	PENITENTIARY	0.0	0.0	0.0	0.0	0.0
13203000	NEW YORK	241321.0	351554.0	0.0	0.0	0.0
13203500	SLAKE LOWELL	0.0	0.0	0.0	0.0	0.0
13203527	SURPRIS VY/MICRON	0.0	3000.0	0.0	0.0	0.0
13203715	SHAKESPEARE	0.0	0.0	0.0	0.0	0.0
13203760	RIDENBAUGH	3794.0	14785.0	0.0	0.0	0.0
13204005	BUBB	0.0	531.0	500.0	0.0	0.0
13204015	HERRICK	0.0	0.0	0.0	0.0	0.0
13204020	MEEVES	0.0	0.0	0.0	0.0	0.0
13204060	ROSSI MILL	0.0	0.0	700.0	0.0	0.0
13204190	BOISE CITY	0.0	0.0	1000.0	0.0	0.0
13204200	UNITED WATER	0.0	1000.0	0.0	0.0	0.0
13205515	SETTLERS	2668.0	5675.0	10000.0	0.0	0.0
13205517	DAVIS	0.0	0.0	1500.0	0.0	0.0
13205613	BOISE CITY PARKS	0.0	0.0	0.0	0.0	0.0
13205622	THURMAN MILL	0.0	0.0	800.0	0.0	0.0
13205638	BOISE WATER CORP	0.0	0.0	0.0	0.0	0.0
13205640	FARMERS UNION	2779.0	5593.0	10000.0	0.0	0.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	0.0	0.0
13205643	CAPITOL VIEW	0.0	449.0	300.0	0.0	0.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0
13206092	NEW UNION	0.0	0.0	1400.0	0.0	0.0
13206205	ELEMP	0.0	0.0	0.0	0.0	0.0
13206220	EWARM SPRINGS	0.0	0.0	0.0	0.0	0.0
13206260	EGRAHAM-GILBERT	0.0	0.0	0.0	0.0	0.0
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0
13206270	ECONWAY-HAMMING	0.0	0.0	0.0	0.0	0.0
13206274	EAGLE ISLAND PARK	0.0	0.0	0.0	0.0	0.0
13206290	ETHOMAS AIKEN	0.0	0.0	0.0	0.0	0.0
13206292	EMACE-CATLIN	0.0	0.0	0.0	0.0	0.0
13206295	EMACE-MACE	0.0	0.0	0.0	0.0	0.0
13208450	EHART-DAVIS	0.0	0.0	0.0	0.0	0.0
13208710	MIDDLETON	0.0	0.0	11000.0	0.0	0.0
13208738	BARBER	0.0	0.0	0.0	0.0	0.0
13208740	ESEVEN SUCKERS	0.0	0.0	0.0	0.0	0.0
13209480	PHYLLIS	20326.0	24986.0	16000.0	0.0	0.0
13209482	EUREKA #1	0.0	0.0	2800.0	0.0	0.0
13209630	LITTLE PIONEER	0.0	2123.0	500.0	0.0	0.0
13209990	CANYON COUNTY	0.0	0.0	6000.0	0.0	0.0
13210005	CALDWELL HIGHLINE	0.0	0.0	0.0	0.0	0.0
13210049	SMIDDLETON FLOW	0.0	0.0	0.0	0.0	0.0
13210984	SRIVERSIDE	0.0	0.0	0.0	0.0	0.0
13210989	SPIONEER DIXIE	0.0	0.0	0.0	0.0	0.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0
13210993	SCAMPBELL	0.0	0.0	0.0	0.0	0.0
13210994	SSIEBENBERG	0.0	0.0	0.0	0.0	0.0
13210999	SCALDWELL FLOW	0.0	0.0	0.0	0.0	0.0
13211001	SSHIPLEY	0.0	0.0	0.0	0.0	0.0
13211003	SWAGNER	0.0	0.0	0.0	0.0	0.0
13211603	SSIMPLOT	0.0	0.0	0.0	0.0	0.0
13211725	SEUREKA #2	0.0	0.0	0.0	0.0	0.0
13211735	SUPPER CENTER POINT	0.0	0.0	0.0	0.0	0.0
13211745	SMCMANUS AND TEATER	0.0	0.0	0.0	0.0	0.0
13211825	SLOWER CENTER POINT	0.0	0.0	0.0	0.0	0.0
13212499	SNOTUS FLOW	0.0	0.0	0.0	0.0	0.0
13212548	SBOWMAN AND SWISHER	0.0	0.0	0.0	0.0	0.0
13212645	SBAXTER	0.0	0.0	0.0	0.0	0.0
13212832	SANDREWS	0.0	0.0	0.0	0.0	0.0
13212896	SMAMMON	0.0	0.0	0.0	0.0	0.0
13212938	SHAAS	0.0	0.0	0.0	0.0	0.0
13212954	SPARMA	0.0	0.0	0.0	0.0	0.0
13212966	SIISLAND HIGHLINE	0.0	0.0	0.0	0.0	0.0
13212992	SCRAWFORTH	0.0	0.0	0.0	0.0	0.0
13212994	SMCCONNELL ISLAND	0.0	0.0	0.0	0.0	0.0
99999050	MANDERSON DAM POWER	0.0	6.0	0.0	0.0	0.0
99999080	MANDSON UNCONTRACTED	0.0	36956.0	0.0	0.0	0.0
99999100	MEAGLE IS CANALS	0.0	0.0	1718.0	0.0	0.0
99999200	MENDANGERED SPECIES	0.0	0.0	0.0	0.0	0.0
99999950	MBOISE R WATER BANK	0.0	0.0	0.0	0.0	0.0

New BOISTO.I/M

13194000	ARROWROCK	272224.0	272224.0	3500.0
13190000	ANDERSON RANCH	450030.0	345049.3	5100.0
13201500	LUCKY PEAK	223438.0	223438.0	4100.0
	ANDERSON LST FIL	0.0	0.0	0.0
	LUCKY PEAK LST FIL	40932.0	2186.3	30.0
	UNALLOCATED	0.0	0.0	0.0

New contents

5-15-01

PLH

**BOISE PROJECT
ARROWROCK DIVISION
RESERVOIR SPACEHOLDINGS**
(Acre-Feet)

<u>Spaceholders</u>	<u>Anderson Ranch</u>	<u>Arrowrock^W Reservoir</u>	<u>Lucky Peak</u>	<u>Total Space</u>
Ballentyne Ditch Co.	367 ✓		1,300	1,667
Boise City Canal Co.			1,000	1,000
Boise Project B.O.C.				
Big Bend I.D.	3,797	2,533		6,330
Boise-Kuna I.D.	109,538	71,386		180,924
Nampa & Meridian I.D. (Ridenbaugh Canal)	90,758	346,339 58,201	3,794	148,959
New York I.D.	40,051	26,014		66,065
Wilder I.D.	122,195	83,187		205,382
Boise Valley Irr. Ditch Co.	939 ✓		2,500	3,439
Canyon County Water Co.			6,000	6,000
Capitol View I.D.	449 ✓		300	749
Fairview Acres Lateral Assoc.			1,500	1,500
Eagle Island Water Users			1,718	1,718
Eureka Water Co.			2,800	2,800
Farmers Union Ditch Co.	5,593 ✓	2,779	10,000	18,372
Farmers' Coop. Ditch Co.		1,146		1,146
Middleton Irr. Assoc.			6,380	6,380
Middleton Mill Ditch Co.			4,620	4,620
New Dry Creek Ditch Co.	1,266 ✓		3,000	4,266
New Union Ditch Co.			1,400	1,400
Pioneer Ditch Co.	2,123 ✓		500	2,623
Pioneer I.D.	24,986 ✓	20,326	16,000	61,312
Settlers I.D.	5,675 ✓	2,668	10,000	18,343
South Boise Mutual Irr. Co. BUBB	531 ✓		500	1,031
South Boise Water Co.			700	700
Thurman Mill Ditch Co.			800	800
U.S. Forest Service		190		190
J.R. Simplot Co. & Micron Tech.	3,000 ✓			3,000
Trinity Springs, Ltd.	800 ✓			800
United Water of Idaho	1,000 ✓			1,000
Reacquired Flow Augmentation Uncontracted	6		40,932	40,932
Uncontracted Streamflow Maint.			152,420	152,420
TOTAL ACTIVE CAPACITY (a.f.)	413,074	272,224	264,370	949,668

FAX TRANSMITTAL

OPTIONAL FORM 58 (7-90)

of pages 1

From: Rick Wells

Phone: 334-9078

Fax: 334-9562

NR 7540-01-017-7388

5109-101

GENERAL SERVICES ADMINISTRATION

To: Steve Howell

Dept/Agency: DWR

Fax: 327-7866

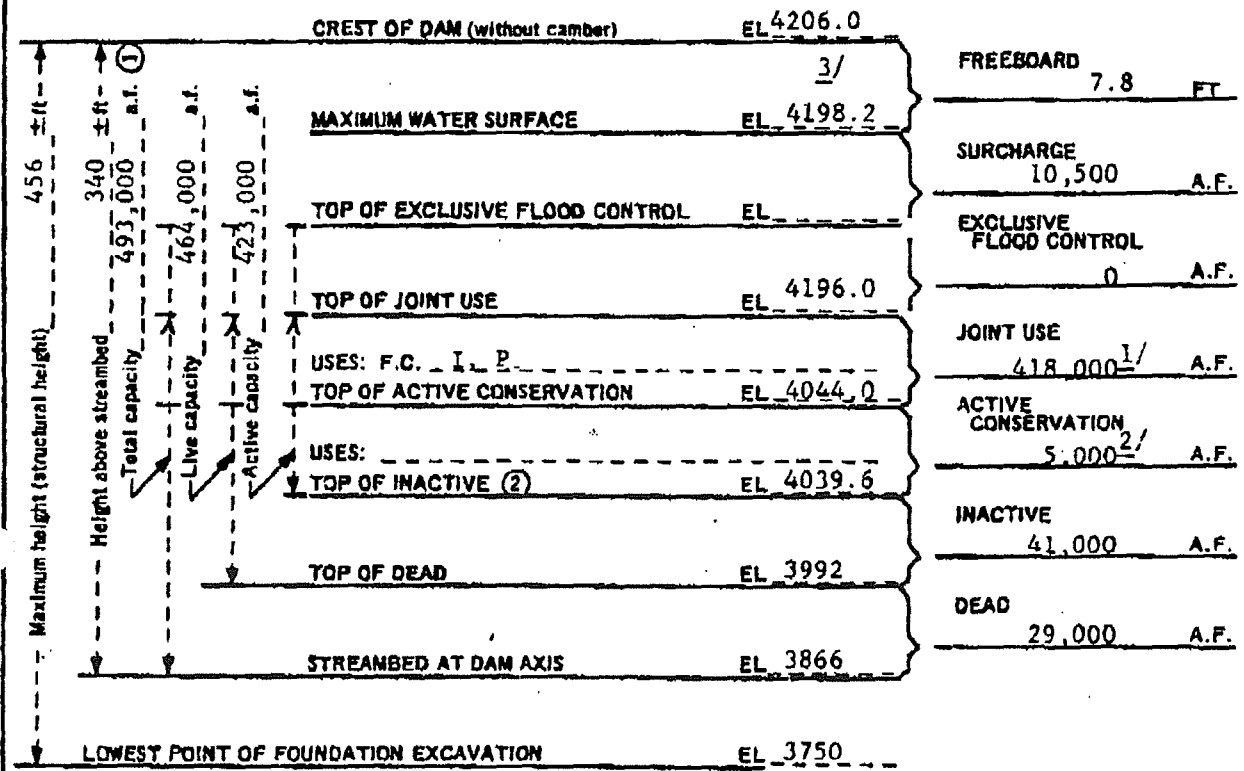
Prior to Sedimentation Survey

RESERVOIR CAPACITY ALLOCATIONS

IV-1

7D)
Reclamation

TYPE OF DAM	Zoned Earthfill	REGION PN	Idaho
OPERATED BY	Bureau of Reclamation	Anderson Ranch	RESERVOIR
CREST LENGTH	1,350 FT; CREST WIDTH 40 FT	Anderson Ranch	DAM
VOLUME OF DAM	9,653,000 CU YD	Boise	PROJECT
CONSTRUCTION PERIOD	1941 - 1950	Arrowrock	DIVISION
STREAM	South Fork Boise River		UNIT
RES AREA	4,740 ACRES AT EL 4,196	Operational	STATUS OF DAM
ORIGINATED BY:		APPROVED BY:	
MEVDB	RO 120	5/4/78	J.K.
(Initials)	(Code)	(Date)	(Initials)
			D-430
			9-78
			(Code) (Date)



- ① Includes no a.f. allowance for year sediment deposition between streambed and EL of which a.f. is above EL .
- ② Established by Power 1/

REFERENCES AND COMMENTS:

- Specifications No. 965 and 2053
- Drawing No. 4-D-1239 (Anderson Ranch Dam, General Plan and Sections)
- No. 4-100-214 (Area Capacity Curves)
- 1/ November 20, 1953, Memorandum of Agreement between the Department of the Army and the Department of the Interior for flood control operation of Boise River Reservoirs, Idaho.
- 2/ Reserved for Power Production.
- 3/ Memo to R.D. from Chief, Division of Water O&M, Dated December 23, 1976.

BOI WRA.FOR change made 10/31/02 PPage

REAL*8 RST, BRST, RES, TT, SAC, RSS, P, T, CTR, TR, TRM, GT

C
C----SECTION 2-1, PART 4

C****SET MONTH NAMES AND DAYS PER MONTH

C
DATA OM/'JAN','FEB','MAR','APR','MAY','JUN',
1 'JUL','AUG','SEP','OCT','NOV','DEC'/
DATA JD/31,28,31,30,31,30,31,31,30,31,30,31/

C
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.,450030.,223438.,0.,40932./
C THE OLD ONE IS THE FOLLOWING.
C DATA RST/260624.,11600.,453030.,264370./
C WEIMIN LI 6/26/2002

changed from 453030

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

C**** MR = RESERVOIR ORDER NUMBER CORRESPONDING TO STORAGE RIGHT IN
C**** PREVIOUS STATEMENT.

20030103

TABLE 1. 2002 BOISE RIVER STORED WATER BY RESERVOIR

(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	3594.7	268629.3
ANDERSON RANCH	450030.0	345049.3	5270.0	339779.3
LUCKY PEAK	223438.0	223438.0	4096.9	219341.1
ANDERSON LST FIL	0.0	0.0	0.0	0.0
LUCKY PEAK LST FIL	40932.0	2186.2	40.1	2146.1
TOTAL	986624.0	842897.5	13001.7	829895.8

TABLE 2. 2002 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
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	102420.0	0.0	0.0	102420.0
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	500.0	0.0	0.0	1031.0
13204060	ROSSI MILL	0.0	0.0	700.0	0.0	0.0	700.0
13204190	BOISE CITY	0.0	0.0	1000.0	0.0	0.0	1000.0
13204200	UNITED WATER	0.0	1000.0	0.0	0.0	0.0	1000.0
13205515	SETTLERS	2668.0	5675.0	10000.0	0.0	0.0	18343.0
13205517	DAVIS	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	10000.0	0.0	0.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	0.0	0.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	300.0	0.0	0.0	749.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	1400.0	0.0	0.0	1400.0
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13208710	MIDDLETON	0.0	0.0	11000.0	0.0	0.0	11000.0
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	500.0	0.0	0.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	6000.0	0.0	0.0	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
99999090	USBR UNCONTRACTED	0.0	0.0	0.0	0.0	40932.0	40932.0
99999100	EAGLE IS CANALS	0.0	0.0	1718.0	0.0	0.0	1718.0
	TOTAL	272224.0	450030.0	223438.0	0.0	40932.0	986624.0

TABLE 3. 2002 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	732.5	67.5	800.0	0.0	0.0	0.0
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	7263.0	42737.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	43963.0	58457.0	102420.0
13203000	NEW YORK	241321.0	46392.6	220527.2	266919.8	0.0	0.0	0.0
13203527	SURPRIS VY/MICRON	0.0	2779.7	220.3	3000.0	0.0	0.0	0.0
13203760	RIDENBAUGH	3794.0	0.0	9274.5	9274.5	0.0	0.0	0.0
13204005	BUBB	0.0	0.0	333.1	333.1	361.4	138.6	500.0
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	667.6	32.4	700.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	387.7	612.3	1000.0
13204200	UNITED WATER	0.0	978.1	21.9	1000.0	0.0	0.0	0.0
13205515	SETTLERS	2668.0	0.0	3559.9	3559.9	2843.3	7156.7	10000.0
13205517	DAVIS	0.0	0.0	0.0	0.0	832.1	667.9	1500.0
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	190.7	609.3	800.0
13205640	FARMERS UNION	2779.0	0.0	3508.4	3508.4	2966.5	7033.5	10000.0
13205641	BOISE VALLEY	0.0	0.0	589.0	589.0	118.3	2381.7	2500.0
13205643	CAPITOL VIEW	0.0	0.0	281.7	281.7	27.6	272.4	300.0
13206090	NEW DRY CREEK	0.0	0.0	794.2	794.2	1018.4	1981.6	3000.0
13206092	NEW UNION	0.0	0.0	0.0	0.0	1169.0	231.0	1400.0
13206265	BALLENTYNE	0.0	0.0	230.2	230.2	808.9	491.1	1300.0
13208710	MIDDLETON	0.0	0.0	0.0	0.0	931.0	10069.0	11000.0
13209480	PHYLLIS	20326.0	0.0	15673.5	15673.5	0.0	16000.0	16000.0
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1402.0	1398.0	2800.0
13209630	LITTLE PIONEER	0.0	1650.5	472.5	2123.0	486.7	13.3	500.0
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	1347.2	4652.8	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0	0.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	6.0	0.0	0.0	0.0
99999080	ANDSN UNCONTRACTED	0.0	36956.0	0.0	36956.0	0.0	0.0	0.0
99999090	USBR UNCONTRACTED	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999100	EAGLE IS CANALS	0.0	0.0	0.0	0.0	966.8	751.2	1718.0
	TOTAL	272224.0	89495.4	255553.9	345049.3	67751.2	155686.8	223438.0

TABLE 3 (CONTINUED). 2002 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	*ANDERSON CARRYOVER	RANCH NEW FILL	LAST FILL STORAGE	* CARRYOVER	LUCKY PEAK NEW FILL	LAST FILL STORAGE	* CARRYOVER	*----- TOTAL	-----*
13189600	TRINITY SPRINGS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	732.5	800.0
13201050	LUCKY PEAK NURSERY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190.0
13201990	F & G INSTREAM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7263.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43963.0	102420.0
13203000	NEW YORK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46392.6	508240.8
13203527	SURPRIS VY/MICRON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2779.7	3000.0
13203760	RIDENBAUGH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13068.5
13204005	BUBB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	361.4	833.1
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	667.6	700.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	387.7	1000.0
13204200	UNITED WATER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	978.1	1000.0
13205515	SETTLERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2843.3	16227.9
13205517	DAVIS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	832.1	1500.0
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190.7	800.0
13205640	FARMERS UNION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2966.5	16287.4
13205641	BOISE VALLEY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.3	3089.0
13205643	CAPITOL VIEW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	581.7
13206090	NEW DRY CREEK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1018.4	3794.2
13206092	NEW UNION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1169.0	1400.0
13206265	BALLENTYNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	808.9	1530.2
13208710	MIDDLETON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	931.0	11000.0
13209480	PHYLLIS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51999.5
13209482	EUREKA #1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1402.0	2800.0
13209630	LITTLE PIONEER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2137.2	2623.0
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1347.2	6000.0
13210992	SEBREE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	36956.0	36956.0
99999090	USBR UNCONTRACTED	0.0	0.0	0.0	0.0	2186.2	2186.2	0.0	0.0	2186.2
99999100	EAGLE IS CANALS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	966.8	1718.0
TOTAL		0.0	0.0	0.0	0.0	2186.2	2186.2	157246.6	685650.8	842897.5

TABLE 4. 2002 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	787.8	0.0	787.8	0.0	0.0	787.8	775.2
13201050	LUCKY PEAK NURSERY	187.5	0.0	0.0	187.5	0.0	0.0	187.5	184.5
13201990	F & G INSTREAM	0.0	0.0	49083.2	49083.2	0.0	-10342.1	38741.1	38741.1
13201991	USBR INSTREAM	0.0	0.0	100542.1	100542.1	-2051.0	-20684.2	77806.9	77806.9
13203000	NEW YORK	238134.4	262843.1	0.0	500977.4	-33302.3	0.0	467675.1	460221.3
13203527	SURPRIS VY/MICRON	0.0	2954.2	0.0	2954.2	0.0	0.0	2954.2	2907.1
13203760	RIDENBAUGH	3743.9	9132.9	0.0	12876.8	33434.3	0.0	46311.1	45573.0
13204005	BUBB	0.0	328.0	490.8	818.8	0.0	0.0	818.8	805.8
13204060	ROSSI MILL	0.0	0.0	687.2	687.2	0.0	0.0	687.2	676.2
13204190	BOISE CITY	0.0	0.0	981.7	981.7	0.0	0.0	981.7	966.0
13204200	UNITED WATER	0.0	984.7	0.0	984.7	2051.0	2000.0	5035.7	4955.5
13205515	SETTLERS	2632.8	3505.5	9816.6	15954.9	0.0	0.0	15954.9	15700.6
13205517	DAVIS	0.0	0.0	1472.5	1472.5	0.0	0.0	1472.5	1449.0
13205622	THURMAN MILL	0.0	0.0	785.3	785.3	0.0	0.0	785.3	772.8
13205640	FARMERS UNION	2742.3	3454.9	9816.6	16013.8	0.0	0.0	16013.8	15758.6
13205641	BOISE VALLEY	0.0	580.0	2454.2	3034.2	0.0	-1000.0	2034.2	2001.8
13205643	CAPITOL VIEW	0.0	277.4	294.5	571.9	0.0	-199.0	372.9	366.9
13206090	NEW DRY CREEK	0.0	782.0	2945.0	3727.0	0.0	0.0	3727.0	3667.6
13206092	NEW UNION	0.0	0.0	1374.3	1374.3	0.0	0.0	1374.3	1352.4
13206265	BALLENTYNE	0.0	226.7	1276.2	1502.9	0.0	0.0	1502.9	1478.9
13208710	MIDDLETON	0.0	0.0	10798.3	10798.3	0.0	0.0	10798.3	10626.2
13209480	PHYLLIS	20057.6	15434.1	15706.6	51198.4	0.0	0.0	51198.4	50382.4
13209482	EUREKA #1	0.0	0.0	2748.7	2748.7	0.0	0.0	2748.7	2704.9
13209630	LITTLE PIONEER	0.0	2090.6	490.8	2581.4	0.0	0.0	2581.4	2540.3
13209990	CANYON COUNTY	0.0	0.0	5890.0	5890.0	0.0	0.0	5890.0	5796.1
13210992	SEBREE	1130.9	0.0	0.0	1130.9	0.0	-1118.0	12.9	12.7
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	36391.6	0.0	36391.6	-132.0	-36259.6	0.0	0.0
99999090	USBR UNCONTRACTED	0.0	0.0	2146.1	2146.1	0.0	-2146.1	0.0	0.0
99999100	EAGLE IS CANALS	0.0	0.0	1686.5	1686.5	0.0	0.0	1686.5	1659.6
99999200	ENDANGERED SPECIES	0.0	0.0	0.0	0.0	0.0	58147.0	58147.0	58147.0
99999300	FLOOD RELEASE	0.0	0.0	0.0	0.0	0.0	11285.0	11285.0	11285.0
99999950	BOISE R WATER BANK	0.0	0.0	0.0	0.0	0.0	317.0	317.0	311.9
	TOTAL	268629.3	339779.3	223673.4	829895.8	0.0	0.0	829895.8	819633.2

TABLE 5. 2002 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	775.2	0.0	775.2	0.0	0.0	0.0	0.0	775.2	0.0
13201050	LUCKY PEAK NURSERY	184.5	182.5	2.0	0.0	0.0	0.0	2.0	0.0	0.0
13201990	F & G INSTREAM	38741.1	924.9	37816.2	0.0	0.0	0.0	0.0	0.0	37816.2
13201991	USBR INSTREAM	77806.9	1867.9	75939.0	0.0	0.0	0.0	0.0	0.0	75939.0
13203000	NEW YORK	460221.3	398493.9	61727.4	0.0	0.0	0.0	0.0	61727.4	0.0
13203527	SURPRIS VY/MICRON	2907.1	0.0	2907.1	0.0	0.0	0.0	0.0	2907.1	0.0
13203760	RIDENBAUGH	45573.0	45573.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13204005	BUBB	805.8	300.4	505.4	0.0	0.0	0.0	0.0	14.6	490.8
13204060	ROSSI MILL	676.2	0.0	676.2	0.0	0.0	0.0	0.0	0.0	676.2
13204190	BOISE CITY	966.0	84.5	881.5	0.0	0.0	0.0	0.0	0.0	881.5
13204200	UNITED WATER	4955.5	2178.9	2776.6	0.0	1791.8	0.0	0.0	984.7	0.0
13205515	SETTLERS	15700.6	9480.7	6219.9	0.0	0.0	0.0	0.0	0.0	6219.9
13205517	DAVIS	1449.0	587.8	861.2	0.0	0.0	0.0	0.0	0.0	861.2
13205622	THURMAN MILL	772.8	0.0	772.8	0.0	0.0	0.0	0.0	0.0	772.8
13205640	FARMERS UNION	15758.6	11726.6	4032.0	0.0	0.0	0.0	0.0	0.0	4032.0
13205641	BOISE VALLEY	2001.8	879.3	1122.5	0.0	0.0	0.0	0.0	0.0	1122.5
13205643	CAPITOL VIEW	366.9	0.0	366.9	0.0	0.0	0.0	0.0	72.4	294.5
13206090	NEW DRY CREEK	3667.6	2220.4	1447.2	0.0	0.0	0.0	0.0	0.0	1447.2
13206092	NEW UNION	1352.4	389.6	962.8	0.0	0.0	0.0	0.0	0.0	962.8
13206265	BALLENTYNE	1478.9	499.2	979.7	0.0	0.0	0.0	0.0	0.0	979.7
13206274	EAGLE ISLAND PARK	0.0	102.9	-102.9	0.0	0.0	0.0	0.0	0.0	0.0
13208710	MIDDLETON	10626.2	4068.6	6557.6	0.0	0.0	0.0	0.0	0.0	6557.6
13209480	PHYLLIS	50382.4	44277.6	6104.8	0.0	0.0	0.0	0.0	0.0	6104.8
13209482	EUREKA #1	2704.9	1673.3	1031.6	0.0	0.0	0.0	0.0	0.0	1031.6
13209630	LITTLE PIONEER	2540.3	51.7	2488.6	0.0	0.0	0.0	0.0	1997.7	490.8
13209990	CANYON COUNTY	5796.1	1636.9	4159.2	0.0	0.0	0.0	0.0	0.0	4159.2
13210992	SEBREE	12.7	0.0	12.7	0.0	0.0	0.0	12.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999090	USBR UNCONTRACTED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999100	EAGLE IS CANALS	1659.6	255.4	1404.2	0.0	0.0	0.0	0.0	0.0	1404.2
99999200	ENDANGERED SPECIES	58147.0	58147.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999300	FLOOD RELEASE	11285.0	11285.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999950	BOISE R WATER BANK	311.9	311.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL	819633.2	597199.9	222433.3	0.0	1791.8	0.0	14.7	68485.1	152244.6

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TABLE 6. 2002 WATER DISTRICT 63 RESERVOIR TOTAL STORAGE - OCTOBER 31 (ACRE-FEET)

RESERVOIR	CARRYOVER	LATE FILL	TOTAL
ARROWROCK	14.7	14587.3	14602.0
ANDERSON RANCH	68485.1	0.0	68485.1
LUCKY PEAK	152244.6	846.1	153090.7
ANDERSON LST FIL	0.0	0.0	0.0
LUCKY PEAK LST FIL	0.0	0.0	0.0
TOTAL	220744.3	15433.4	236177.7*

*DOES NOT INCLUDE UNITED WATER UNSED BANK (1791.8). ACTUAL STORAGE= $\frac{6}{23,177.7} + 1791.8$.

2002 Credit for USBR and F&G
Boise River

Date	Credit	Net	USBR	F&G
16-Oct	210	30	20.0	10.0
17-Oct	207	33	22.0	11.0
18-Oct	204	36	24.0	12.0
19-Oct	201	39	26.0	13.0
20-Oct	198	42	28.0	14.0
21-Oct	194	46	30.7	15.3
22-Oct	189	51	34.0	17.0
23-Oct	178	62	41.3	20.7
24-Oct	173	67	44.7	22.3
25-Oct	173	67	44.7	22.3
26-Oct	113	127	84.7	42.3
27-Oct	93	147	98.0	49.0
28-Oct	93	147	98.0	49.0
29-Oct	93	147	98.0	49.0
30-Oct	93	147	98.0	49.0
31-Oct	20	220	149.6	70.4

Credit is total diversions who use USBR water.

BOISE RIVER STORED WATER SUPPLY (ACRE-FEET)

	Date:	31-Oct-02
Supply:		
Accounted for storage		842897.5
Unaccounted for storage		
Late season fill		15433.4
Total Storage Available		858330.9
Use:		
Canals and pumps	(527456-925-1868)	524663.0
Endangered species	(60108-2051 United Water)	58147.0
Flood Realease		11285.0
Fish and Game		925.0
USBR Streamflow		1868.0
Rental Pool Use		311.9
Eagle Island Park Use		-102.9
Evaporation		13001.6
Operational Loss	(844449-11285-60108-925-1868)	10263.0
Total Storage Used		620361.6
Net Storage*		237969.3
Actual Storage	(199163+36960)	236123.0
Averaging Error		1846.3

*Includes United Water unused bank (1791.8).

BOISE RIVER STORED WATER SUPPLY (ACRE-FEET)

	Date:	31-Oct-02 (Restart)
Supply:		
Accounted for storage*		236177.7
Unaccounted for storage		
Late season fill		
Total Storage Available		236177.7
Use:		
Canals and pumps		
Endangered species		
Flood Realease		
Fish and Game		
USBR Streamflow		
Evaporation		
Operational Loss		
Total Storage Used		
Net Storage		236177.7
Actual Storage	(199163+36960)	236123.0
Averaging Error		54.7

Resart Values for accounting are as follows:

Arrowrock	14602
Anderson Ranch	68485.1
Lucky Peak	153090.7
<i>Unaccounted</i>	<i>1791.8</i>

*Does not include United Water unused bank (1791.8). Actual accounted for storage = 23177.7+1791.8.

Accounting Restant - Boise River 2003

2002 DATA RST / ^{Arrowrock} 260624., ^{Arrowrock} 11600., ^{Anderson *} 450030., ^{Lucky Peak} 223438.,
^{Anderson LTP} 0., ^{Lucky Peak LTP} 40932./

* changed from 453030 on Oct. 31, 2002 (error found)

Lucky Peak Last to Fill 2002 Fill (table 1 Storage Report) = 2186.2
Yield = 2146.1

Endangered Species 2002 = 58147.0

Rented USBR Uncontracted = 2146.1
Anderson Uncontracted = 36259.6
F&G Instream = 10,342.1
USBR Instream = 20,684.1
Flood Release = 11285.0

Lucky Peak Last to Fill = $40,932 - 2186.2 + (58,147 - 36,259.6) = 60,633.2$

Lucky Peak = $(223,438 + 40,932) - 60,633.2 = 203,736.8$

Anderson Last to Fill = 36,259.6

Anderson = $450,030 - 36,259.6 = 413,770.4$

2003 DATA RST / 260624., 11600., 413770.4, 203736.8, 36259.6, 60633.2 /



State of Idaho

DEPARTMENT OF WATER RESOURCES

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DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

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From: Pamela Pace

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Boise River Diversion Data

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From: Pamela Pace, P.E.

Re: 2002 Boise Diversion Data

I have attached the 2002 Boise River diversion data you requested. All values are in 100 AF. Please contact me if you have any questions. My email is ppace@idwr.state.id.us. My phone number is 327-7990.

13201050 LUCKY PEAK NURSERY
13202995 PENITENTIARY CANAL
13203000 NEW YORK CANAL
13203527 SURPRIS VY/MICRON
13203715 SHAKESPEARE FEST
13203760 RIDENBAUGH CANAL
13204005 BUBB CANAL
13204015 HERRICK WELL
13204020 MEEVES CANAL
13204060 ROSSI MILL CANAL
13204070 RIVER RUN
13204190 BOISE CITY CANAL
13204200 UNITED WATER
13205515 SETTLERS CANAL
13205517 DAVIS CANAL
13205613 BOISE CITY PARKS
13205622 THURMAN MILL CANAL
13205640 FARMERS UNION CANAL
13205641 BOISE VALLEY CANAL (INCLUDED IN FARMERS UNION)
13205643 CAPITOL VIEW PUMP (INCLUDED IN FARMERS UNION)
13206090 NEW DRY CREEK CANAL
13206092 NEW UNION CANAL (INCLUDED IN NEW DRY CREEK)
13206205 LEMP CANAL
13206220 WARM SPRINGS CANAL
13206260 GRAHAM-GILBERT CANAL
13206265 BALLENTYNE CANAL
13206270 CONWAY-HAMMING CANAL
13206274 EAGLE ISLAND PARK
13206290 THOMAS AIKEN CANAL
13206292 MACE-CATLIN CANAL
13206295 MACE-MACE CANAL
13208450 HART-DAVIS CANAL
13208710 MIDDLETON CANAL
13208738 BARBER PUMPS
13208740 SEVEN SUCKERS CANAL
13209480 PHYLLIS CANAL
13209482 EUREKA #1 CANAL (INCLUDED IN PHYLLIS)
13209630 LITTLE PIONEER CANAL
13209990 CANYON COUNTY CANAL
13210005 CALDWELL HIGHLINE CANAL
13210984 RIVERSIDE CANAL
13210992 SEBREE CANAL
13210993 CAMPBELL CANAL
13210994 SIEBENBERG CANAL
13211001 SHIPLEY PUMPS
13211003 WAGNER PUMPS
13211603 SIMPLOT PUMPS
13211725 EUREKA #2
13211735 UPPER CENTER POINT CANAL
13211745 MCMANUS AND TEATER CANAL
13211747 ATWELL
13211825 LOWER CENTER POINT CANAL
13212548 BOWMAN AND SWISHER CANAL
13212645 BAXTER CANAL
13212832 ANDREWS CANAL
13212896 MAMMON PUMPS
13212938 HAAS CANAL
13212954 PARMA CANAL
13212966 ISLAND HIGHLINE CANAL
13212992 CRAWFORTH PUMPS
13212994 MCCONNELL ISLAND CANAL



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Time transmitted: _____ Transmitted by: _____

13205995 DIVERSIONS FROM BOISE RIVER - NR BOISE TO GLENWOOD BRIDGE
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	61	0.0	---	---	926	1107	2838	3163	3241	3097	2451
2	293	21	---	---	---	984	1144	2857	3187	3241	3098	2437
3	293	21	---	---	---	982	1157	2875	3207	3232	3099	2435
4	292	21	---	---	---	982	1172	2888	3219	3226	3098	2356
5	290	21	---	---	---	982	1186	2901	3191	3220	3097	2309
6	288	21	---	---	---	982	1197	2895	3180	3214	3088	2306
7	286	20	---	---	---	984	1205	2866	3189	3210	3078	2248
8	284	20	---	---	---	982	1582	2862	3203	3202	3067	2229
9	283	17	---	---	---	976	1640	2941	3214	3188	3058	2216
10	282	15	---	---	---	981	1635	3008	3225	3189	3046	2211
11	276	12	---	---	---	978	1680	3007	3239	3193	3035	2207
12	272	8.9	---	---	---	980	1740	3009	3250	3193	3023	2204
13	269	6.0	---	---	---	981	1761	3005	3263	3191	3091	2204
14	269	3.2	---	---	---	981	1775	3009	3264	3195	3090	2201
15	263	0.3	---	---	393	682	1793	3003	3268	3195	3031	2200
16	263	0.0	---	---	405	---	1831	3005	3274	3199	2942	2199
17	263	0.0	---	---	405	---	1892	3008	3282	3202	2909	2198
18	263	0.0	---	---	405	---	1981	3016	3288	3204	2909	2133
19	262	0.0	---	---	401	---	2099	3036	3296	3204	2901	2087
20	261	0.0	---	---	492	---	2144	3063	3301	3205	2890	2087
21	260	0.0	---	---	530	792	2159	3080	3306	3202	2786	2082
22	257	0.0	---	---	551	991	2211	3101	3308	3200	2725	2080
23	252	0.0	---	---	551	992	2336	3124	3310	3201	2725	1818
24	252	0.0	---	---	551	992	2437	3128	3273	3198	2726	1679
25	252	0.0	---	---	551	991	2533	3130	3243	3199	2725	1625
26	201	0.0	---	---	548	988	2603	3136	3241	3197	2654	1592
27	170	0.0	---	---	707	988	2629	3140	3242	3194	2603	1591
28	169	0.0	---	---	823	988	2639	3142	3240	3191	2594	1584
29	169	0.0	---	---	---	985	2719	3145	3238	3156	2589	1582
30	168	0.0	---	---	---	982	2800	3152	3242	3104	2577	1584
31	167	---	---	---	---	982	---	3158	---	3100	2510	---
TOTAL	7860	269	0		7311	25033	56785	93524	97346	99083	89859	62136
MEAN	254	8.9	0.0		522	963	1893	3017	3245	3196	2899	2071
MAX	293	61	0.0		823	992	2800	3158	3310	3241	3099	2451
MIN	167	0.0	0.0		393	682	1107	2838	3163	3100	2510	1582
AC-FT	15590	533	0		14501	49652	112633	185505	193086	196531	178235	123247
WATER YEAR 2002		TOTAL	539205	MEAN	1477	AC-FT	1069512					

13212996 DIVERSIONS FROM BOISE RIVER - GLENWOOD BRIDGE TO PARMA
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1324	769	0.0	---	---	---	---	---	1290	1552	1621	1511
2	1316	718	---	---	---	---	---	0.8	1316	1569	1616	1502
3	1308	715	---	---	---	---	---	0.8	1343	1558	1616	1494
4	1289	710	---	---	---	---	---	0.8	1364	1550	1615	1486
5	1279	703	---	---	---	---	---	0.8	1387	1550	1611	1478
6	1277	695	---	---	---	---	---	0.8	1396	1583	1608	1501
7	1275	685	---	---	---	---	---	0.8	1414	1586	1605	1498
8	1275	675	---	---	---	---	---	0.8	1434	1594	1602	1496
9	1275	641	---	---	---	---	---	60	1454	1601	1599	1491
10	1274	580	---	---	---	---	---	391	1474	1608	1598	1487
11	1259	509	---	---	---	---	---	417	1475	1615	1591	1482
12	1240	439	---	---	---	---	---	465	1474	1622	1583	1478
13	1231	368	---	---	---	---	---	514	1473	1628	1581	1475
14	1224	297	---	---	---	---	---	563	1474	1632	1580	1471
15	1217	204	---	---	---	---	---	611	1482	1639	1579	1460
16	1215	155	---	---	---	---	---	661	1490	1646	1577	1475
17	1213	142	---	---	---	---	---	712	1497	1654	1575	1475
18	1213	122	---	---	---	---	---	737	1505	1661	1574	1476
19	1214	103	---	---	---	---	---	798	1503	1649	1573	1477
20	1212	84	---	---	---	---	---	853	1499	1649	1571	1475
21	1185	65	---	---	---	---	---	898	1501	1649	1570	1473
22	1176	46	---	---	---	---	---	950	1506	1649	1569	1472
23	1167	27	---	---	---	---	---	1041	1506	1649	1577	1468
24	1149	9.0	---	---	---	---	---	1118	1506	1649	1569	1464
25	1079	7.7	---	---	---	---	---	1158	1505	1649	1561	1459
26	1072	6.4	---	---	---	---	---	1180	1505	1659	1552	1441
27	1071	5.1	---	---	---	---	---	1201	1505	1653	1544	1423
28	1071	3.9	---	---	---	---	---	1215	1509	1646	1536	1391
29	1065	2.6	---	---	---	---	---	1229	1520	1640	1528	1368
30	1057	1.3	---	---	---	---	---	1243	1535	1634	1520	1354
31	1030	---	---	---	---	---	---	1263	---	1628	1519	---
TOTAL	37249	9487	0					19284	43842	50249	48918	44000
MEAN	1202	316	0.0					643	1461	1621	1578	1467
MAX	1324	769	0.0					1263	1535	1661	1621	1511
MIN	1030	1.3	0.0					0.8	1290	1550	1519	1354
AC-FT	73884	18818	0					38249	86961	99669	97029	87273
WATER YEAR 2002			TOTAL	253029	MEAN	693	AC-FT	501882				

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TABLE 1. 2002 BOISE RIVER STORED WATER BY RESERVOIR
(ACRE-FEET)

RESERVOIR	SPACE	FILL	EVAPORATION	YIELD
ARROWROCK	272224.0	272224.0	3594.7	268629.3
ANDERSON RANCH	450030.0	345049.3	5270.0	339779.3
LUCKY PEAK	223438.0	223438.0	4096.9	219341.1
ANDERSON LST FIL	0.0	0.0	0.0	0.0
LUCKY PEAK LST FIL	40932.0	2186.2	40.1	2146.1
TOTAL	986624.0	842897.5	13001.7	829895.8

TABLE 2. 2002 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
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	102420.0	0.0	0.0	102420.0
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	500.0	0.0	0.0	1031.0
13204060	ROSSI MILL	0.0	0.0	700.0	0.0	0.0	700.0
13204190	BOISE CITY	0.0	0.0	1000.0	0.0	0.0	1000.0
13204200	UNITED WATER	0.0	1000.0	0.0	0.0	0.0	1000.0
13205515	SETTLERS	2668.0	5675.0	10000.0	0.0	0.0	18343.0
13205517	DAVIS	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	10000.0	0.0	0.0	18372.0
13205641	BOISE VALLEY	0.0	939.0	2500.0	0.0	0.0	3439.0
13205643	CAPITOL VIEW	0.0	449.0	300.0	0.0	0.0	749.0
13206090	NEW DRY CREEK	0.0	1266.0	3000.0	0.0	0.0	4266.0
13206092	NEW UNION	0.0	0.0	1400.0	0.0	0.0	1400.0
13206265	BALLENTYNE	0.0	367.0	1300.0	0.0	0.0	1667.0
13208710	MIDDLETON	0.0	0.0	11000.0	0.0	0.0	11000.0
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	500.0	0.0	0.0	2623.0
13209990	CANYON COUNTY	0.0	0.0	6000.0	0.0	0.0	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
99999090	USBR UNCONTRACTED	0.0	0.0	0.0	0.0	40932.0	40932.0
99999100	EAGLE IS CANALS	0.0	0.0	1718.0	0.0	0.0	1718.0
	TOTAL	272224.0	450030.0	223438.0	0.0	40932.0	986624.0

TABLE 3. 2002 BOISE RIVER RESERVOIR STORAGE ACCOUNTS. (ACRE-FEET)

NUMBER	USER	ARROWROCK *-----ANDERSON RANCH-----*			*-----LUCKY PEAK-----*			
		STORAGE	CARRYOVER	NEW FLL STORAGE	CARRYOVER	NEW FILL STORAGE	STORAGE	
13189600	TRINITY SPRINGS	0.0	732.5	67.5	800.0	0.0	0.0	0.0
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	7263.0	42737.0	50000.0
13201991	USBR INSTREAM	0.0	0.0	0.0	0.0	43963.0	58457.0	102420.0
13203000	NEW YORK	241321.0	46392.6	220527.2	266919.8	0.0	0.0	0.0
13203527	SURPRIS VY/MICRON	0.0	2779.7	220.3	3000.0	0.0	0.0	0.0
13203760	RIDENBAUGH	3794.0	0.0	9274.5	9274.5	0.0	0.0	0.0
13204005	BUBB	0.0	0.0	333.1	333.1	361.4	138.6	500.0
13204060	ROSSI MILL	0.0	0.0	0.0	0.0	667.6	32.4	700.0
13204190	BOISE CITY	0.0	0.0	0.0	0.0	387.7	612.3	1000.0
13204200	UNITED WATER	0.0	978.1	21.9	1000.0	0.0	0.0	0.0
13205515	SETTLERS	2668.0	0.0	3559.9	3559.9	2843.3	7156.7	10000.0
13205517	DAVIS	0.0	0.0	0.0	0.0	832.1	667.9	1500.0
13205622	THURMAN MILL	0.0	0.0	0.0	0.0	190.7	609.3	800.0
13205640	FARMERS UNION	2779.0	0.0	3508.4	3508.4	2966.5	7033.5	10000.0
13205641	BOISE VALLEY	0.0	0.0	589.0	589.0	118.3	2381.7	2500.0
13205643	CAPITOL VIEW	0.0	0.0	281.7	281.7	27.6	272.4	300.0
13206090	NEW DRY CREEK	0.0	0.0	794.2	794.2	1018.4	1981.6	3000.0
13206092	NEW UNION	0.0	0.0	0.0	0.0	1169.0	231.0	1400.0
13206265	BALLENTYNE	0.0	0.0	230.2	230.2	808.9	491.1	1300.0
13208710	MIDDLETON	0.0	0.0	0.0	0.0	931.0	10069.0	11000.0
13209480	PHYLLIS	20326.0	0.0	15673.5	15673.5	0.0	16000.0	16000.0
13209482	EUREKA #1	0.0	0.0	0.0	0.0	1402.0	1398.0	2800.0
13209630	LITTLE PIONEER	0.0	1650.5	472.5	2123.0	486.7	13.3	500.0
13209990	CANYON COUNTY	0.0	0.0	0.0	0.0	1347.2	4652.8	6000.0
13210992	SEBREE	1146.0	0.0	0.0	0.0	0.0	0.0	0.0
99999050	ANDERSON DAM POWER	0.0	6.0	0.0	6.0	0.0	0.0	0.0
99999080	ANDSN UNCONTRACTED	0.0	36956.0	0.0	36956.0	0.0	0.0	0.0
99999090	USBR UNCONTRACTED	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999100	EAGLE IS CANALS	0.0	0.0	0.0	0.0	966.8	751.2	1718.0
	TOTAL	272224.0	89495.4	255553.9	345049.3	67751.2	155686.8	223438.0

TABLE 3 (CONTINUED). 2002 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	732.5 67.5 800.0
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	7263.0 42737.0 50000.0
13201991	USBR INSTREAM	0.0 0.0 0.0	0.0 0.0 0.0	43963.0 58457.0 102420.0
13203000	NEW YORK	0.0 0.0 0.0	0.0 0.0 0.0	46392.6 461848.2 508240.8
13203527	SURPRIS VY/MICRON	0.0 0.0 0.0	0.0 0.0 0.0	2779.7 220.3 3000.0
13203760	RIDENBAUGH	0.0 0.0 0.0	0.0 0.0 0.0	0.0 13068.5 13068.5
13204005	BUBB	0.0 0.0 0.0	0.0 0.0 0.0	361.4 471.7 833.1
13204060	ROSSI MILL	0.0 0.0 0.0	0.0 0.0 0.0	667.6 32.4 700.0
13204190	BOISE CITY	0.0 0.0 0.0	0.0 0.0 0.0	387.7 612.3 1000.0
13204200	UNITED WATER	0.0 0.0 0.0	0.0 0.0 0.0	978.1 21.9 1000.0
13205515	SETTLERS	0.0 0.0 0.0	0.0 0.0 0.0	2843.3 13384.6 16227.9
13205517	DAVIS	0.0 0.0 0.0	0.0 0.0 0.0	832.1 667.9 1500.0
13205622	THURMAN MILL	0.0 0.0 0.0	0.0 0.0 0.0	190.7 609.3 800.0
13205640	FARMERS UNION	0.0 0.0 0.0	0.0 0.0 0.0	2966.5 13320.9 16287.4
13205641	BOISE VALLEY	0.0 0.0 0.0	0.0 0.0 0.0	118.3 2970.7 3089.0
13205643	CAPITOL VIEW	0.0 0.0 0.0	0.0 0.0 0.0	27.6 554.1 581.7
13206090	NEW DRY CREEK	0.0 0.0 0.0	0.0 0.0 0.0	1018.4 2775.8 3794.2
13206092	NEW UNION	0.0 0.0 0.0	0.0 0.0 0.0	1169.0 231.0 1400.0
13206265	BALLENTYNE	0.0 0.0 0.0	0.0 0.0 0.0	808.9 721.3 1530.2
13208710	MIDDLETON	0.0 0.0 0.0	0.0 0.0 0.0	931.0 10069.0 11000.0
13209480	PHYLLIS	0.0 0.0 0.0	0.0 0.0 0.0	0.0 51999.5 51999.5
13209482	EUREKA #1	0.0 0.0 0.0	0.0 0.0 0.0	1402.0 1398.0 2800.0
13209630	LITTLE PIONEER	0.0 0.0 0.0	0.0 0.0 0.0	2137.2 485.8 2623.0
13209990	CANYON COUNTY	0.0 0.0 0.0	0.0 0.0 0.0	1347.2 4652.8 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	6.0 0.0 6.0
99999080	ANDSN UNCONTRACTED	0.0 0.0 0.0	0.0 0.0 0.0	36956.0 0.0 36956.0
99999090	USBR UNCONTRACTED	0.0 0.0 0.0	0.0 2186.2 2186.2	0.0 2186.2 2186.2
99999100	EAGLE IS CANALS	0.0 0.0 0.0	0.0 0.0 0.0	966.8 751.2 1718.0
TOTAL		0.0 0.0 0.0	0.0 2186.2 2186.2	157246.6 685650.8 842897.5

TABLE 5. 2002 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	775.2	0.0	775.2	0.0	0.0	0.0	0.0	775.2	0.0
13201050	LUCKY PEAK NURSERY	184.5	182.5	2.0	0.0	0.0	0.0	2.0	0.0	0.0
13201990	F & G INSTREAM	38741.1	924.9	37816.2	0.0	0.0	0.0	0.0	0.0	37816.2
13201991	USBR INSTREAM	77806.9	1867.9	75939.0	0.0	0.0	0.0	0.0	0.0	75939.0
13203000	NEW YORK	460221.3	398493.9	61727.4	0.0	0.0	0.0	0.0	61727.4	0.0
13203527	SURPRIS VY/MICRON	2907.1	0.0	2907.1	0.0	0.0	0.0	0.0	2907.1	0.0
13203760	RIDENBAUGH	45573.0	45573.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13204005	BUBB	805.8	300.4	505.4	0.0	0.0	0.0	0.0	14.6	490.8
13204060	ROSSI MILL	676.2	0.0	676.2	0.0	0.0	0.0	0.0	0.0	676.2
13204190	BOISE CITY	966.0	84.5	881.5	0.0	0.0	0.0	0.0	0.0	881.5
13204200	UNITED WATER	4955.5	2178.9	2776.6	0.0	1791.8	0.0	0.0	984.7	0.0
13205515	SETTLERS	15700.6	9480.7	6219.9	0.0	0.0	0.0	0.0	0.0	6219.9
13205517	DAVIS	1449.0	587.8	861.2	0.0	0.0	0.0	0.0	0.0	861.2
13205622	THURMAN MILL	772.8	0.0	772.8	0.0	0.0	0.0	0.0	0.0	772.8
13205640	FARMERS UNION	15758.6	11726.6	4032.0	0.0	0.0	0.0	0.0	0.0	4032.0
13205641	BOISE VALLEY	2001.8	879.3	1122.5	0.0	0.0	0.0	0.0	0.0	1122.5
13205643	CAPITOL VIEW	366.9	0.0	366.9	0.0	0.0	0.0	0.0	72.4	294.5
13206090	NEW DRY CREEK	3667.6	2220.4	1447.2	0.0	0.0	0.0	0.0	0.0	1447.2
13206092	NEW UNION	1352.4	389.6	962.8	0.0	0.0	0.0	0.0	0.0	962.8
13206265	BALLENTYNE	1478.9	499.2	979.7	0.0	0.0	0.0	0.0	0.0	979.7
13206274	EAGLE ISLAND PARK	0.0	102.9	-102.9	0.0	0.0	0.0	0.0	0.0	0.0
13208710	MIDDLETON	10626.2	4068.6	6557.6	0.0	0.0	0.0	0.0	0.0	6557.6
13209480	PHYLLIS	50382.4	44277.6	6104.8	0.0	0.0	0.0	0.0	0.0	6104.8
13209482	EUREKA #1	2704.9	1673.3	1031.6	0.0	0.0	0.0	0.0	0.0	1031.6
13209630	LITTLE PIONEER	2540.3	51.7	2488.6	0.0	0.0	0.0	0.0	1997.7	490.8
13209990	CANYON COUNTY	5796.1	1636.9	4159.2	0.0	0.0	0.0	0.0	0.0	4159.2
13210992	SEBREE	12.7	0.0	12.7	0.0	0.0	0.0	12.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999090	USBR UNCONTRACTED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999100	EAGLE IS CANALS	1659.6	255.4	1404.2	0.0	0.0	0.0	0.0	0.0	1404.2
99999200	ENDANGERED SPECIES	58147.0	58147.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999300	FLOOD RELEASE	11285.0	11285.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99999950	BOISE R WATER BANK	311.9	311.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL	819633.2	597199.9	222433.3	0.0	1791.8	0.0	14.7	68485.1	152244.6

TABLE 4. 2002 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	787.8	0.0	787.8	0.0	0.0	787.8	775.2
13201050	LUCKY PEAK NURSERY	187.5	0.0	0.0	187.5	0.0	0.0	187.5	184.5
13201990	F & G INSTREAM	0.0	0.0	49083.2	49083.2	0.0	-10342.1	38741.1	38741.1
13201991	USBR INSTREAM	0.0	0.0	100542.1	100542.1	-2051.0	-20684.2	77806.9	77806.9
13203000	NEW YORK	238134.4	262843.1	0.0	500977.4	-33302.3	0.0	467675.1	460221.3
13203527	SURPRIS VY/MICRON	0.0	2954.2	0.0	2954.2	0.0	0.0	2954.2	2907.1
13203760	RIDENBAUGH	3743.9	9132.9	0.0	12876.8	33434.3	0.0	46311.1	45573.0
13204005	BUBB	0.0	328.0	490.8	818.8	0.0	0.0	818.8	805.8
13204060	ROSSI MILL	0.0	0.0	687.2	687.2	0.0	0.0	687.2	676.2
13204190	BOISE CITY	0.0	0.0	981.7	981.7	0.0	0.0	981.7	966.0
13204200	UNITED WATER	0.0	984.7	0.0	984.7	2051.0	2000.0	5035.7	4955.5
13205515	SETTLERS	2632.8	3505.5	9816.6	15954.9	0.0	0.0	15954.9	15700.6
13205517	DAVIS	0.0	0.0	1472.5	1472.5	0.0	0.0	1472.5	1449.0
13205622	THURMAN MILL	0.0	0.0	785.3	785.3	0.0	0.0	785.3	772.8
13205640	FARMERS UNION	2742.3	3454.9	9816.6	16013.8	0.0	0.0	16013.8	15758.6
13205641	BOISE VALLEY	0.0	580.0	2454.2	3034.2	0.0	-1000.0	2034.2	2001.8
13205643	CAPITOL VIEW	0.0	277.4	294.5	571.9	0.0	-199.0	372.9	366.9
13206090	NEW DRY CREEK	0.0	782.0	2945.0	3727.0	0.0	0.0	3727.0	3667.6
13206092	NEW UNION	0.0	0.0	1374.3	1374.3	0.0	0.0	1374.3	1352.4
13206265	BALLENTYNE	0.0	226.7	1276.2	1502.9	0.0	0.0	1502.9	1478.9
13208710	MIDDLETON	0.0	0.0	10798.3	10798.3	0.0	0.0	10798.3	10626.2
13209480	PHYLLIS	20057.6	15434.1	15706.6	51198.4	0.0	0.0	51198.4	50382.4
13209482	EUREKA #1	0.0	0.0	2748.7	2748.7	0.0	0.0	2748.7	2704.9
13209630	LITTLE PIONEER	0.0	2090.6	490.8	2581.4	0.0	0.0	2581.4	2540.3
13209990	CANYON COUNTY	0.0	0.0	5890.0	5890.0	0.0	0.0	5890.0	5796.1
13210992	SEBREE	1130.9	0.0	0.0	1130.9	0.0	-1118.0	12.9	12.7
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	36391.6	0.0	36391.6	-132.0	-36259.6	0.0	0.0
99999090	USBR UNCONTRACTED	0.0	0.0	2146.1	2146.1	0.0	-2146.1	0.0	0.0
99999100	EAGLE IS CANALS	0.0	0.0	1686.5	1686.5	0.0	0.0	1686.5	1659.6
99999200	ENDANGERED SPECIES	0.0	0.0	0.0	0.0	0.0	58147.0	58147.0	58147.0
99999300	FLOOD RELEASE	0.0	0.0	0.0	0.0	0.0	11285.0	11285.0	11285.0
99999950	BOISE R WATER BANK	0.0	0.0	0.0	0.0	0.0	317.0	317.0	311.9
	TOTAL	268629.3	339779.3	223673.4	829895.8	0.0	0.0	829895.8	819633.2

TABLE 6. 2002 WATER DISTRICT 63 RESERVOIR TOTAL STORAGE - OCTOBER 31 (ACRE-FEET)

RESERVOIR	CARRYOVER	LATE FILL	TOTAL
ARROWROCK	14.7	14587.3	14602.0
ANDERSON RANCH	68485.1	0.0	68485.1
LUCKY PEAK	152244.6	846.1	153090.7
ANDERSON LST FIL	0.0	0.0	0.0
LUCKY PEAK LST FIL	0.0	0.0	0.0
TOTAL	220744.3	15433.4	236177.7*

*DOES NOT INCLUDE UNITED WATER UNSED BANK (1791.8). ACTUAL STORAGE=23177.7+1791.8.

Spaceholder Contracts - Boise Project, Arrowrock Division (Acre-Feet)¹

Spaceholder	Anderson Ranch	Arrowrock	Lucky Peak	Total
Ballentyne Ditch Company.	376		1,300	1,676
Boise City Canal Company			1,000	1,000
Boise Project Board of Control		232,264		232,264
Big Bend Irrigation District	3,887	236		4,123
Boise-Kuna Irrigation District	112,149	6,747		118,896
Nampa & Meridian Irrigation District	77,784	5,584		83,368
New York Irrigation District	41,006	2,414		43,420
Wilder Irrigation District	125,108	7,819		132,927
Ridenbaugh Canal (Nampa & Meridian Irrigation District)	15,137	3,994		19,131
Boise Valley Irrigation Ditch Company	961		2,500	3,461
South Boise Mutual Irrigation Company	543		500	1,043
Camden County Water Company			6,000	6,000
Capital View Irrigation District	460		300	760
Fairview Acres Lateral Association.			1,500	1,500
Eagle Island Water Users			7,650	7,650
Eureka Water Company			2,800	2,800
Farmers Union Ditch Company	5,727	2,926	10,000	18,653
Farmers' Coop. Ditch Company		1,207		1,207
Middleton Irrigation Association.			6,380	6,380
Middleton Mill Ditch Company			4,620	4,620
New Dry Creek Ditch Company	1,296		3,000	4,296
New Union Ditch Company			1,400	1,400
Pioneer Ditch Company	2,174		500	2,674
Pioneer Irrigation District	25,582	21,399	16,000	62,981
South Boise Water Company			700	700
Settlers Irrigation District	5,810	1,810	10,000	17,620
Thurman Mill Ditch Company			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
Required for Salmon Flow Augmentation			35,000	35,000
Uncontracted	3,400			3,400

1780

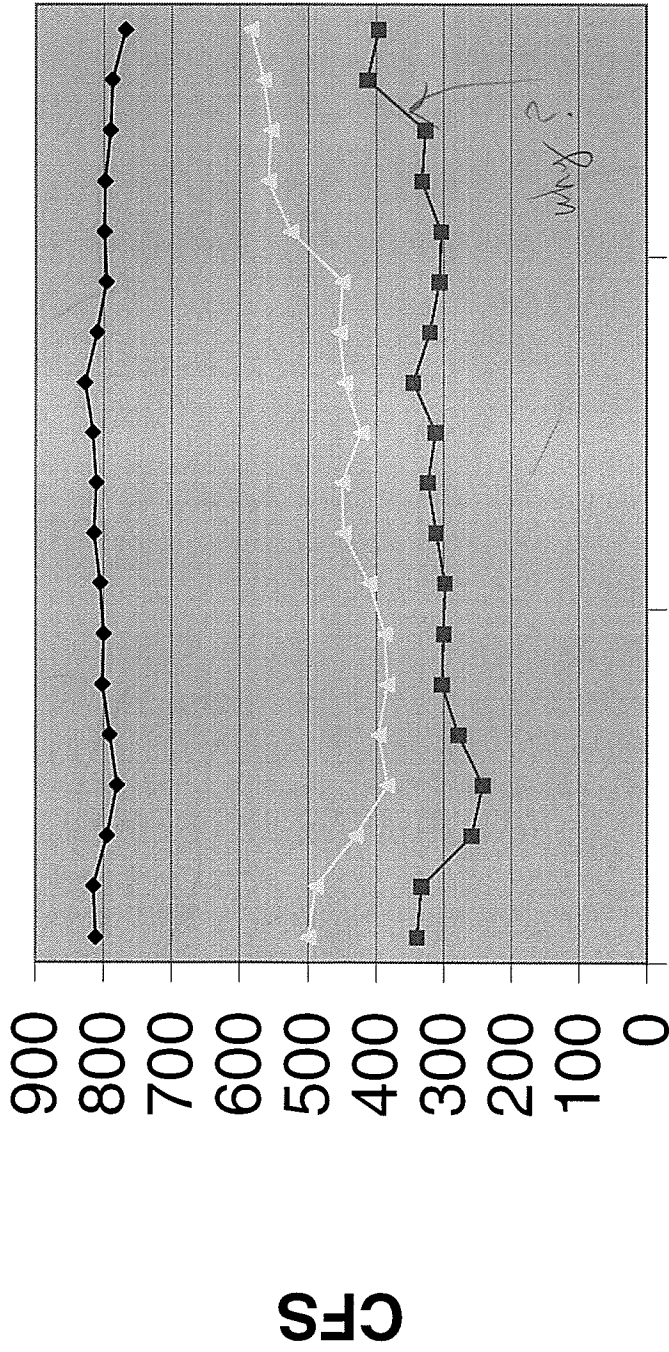
40,900

4000

Spaceholder Contracts - Boise Project, Payette Division (Acre-Feet) ¹			
Spaceholder	Cascade	Deadwood	Total
Black Canyon Irrigation District	241,148		241,148
Bruce, James (D. SHOFMAKER)?		131	131
Burrie and Pancheri CANADY?		603	603
Canaday, Michael	485		485
Cofield, Dewey	17		17
94 Curtis, John		92	92
Davison, David	3		3
Edwards, Charles	1,583		1,583
✓ Emmett Irrigation District	10,050	51,387	61,437
Farmers Cooperative Irrigation Company, Ltd.	38,893		38,893
✓ Gatfield, Eugene		1,207	1,207
Hunter, Robert		377	377
Lowe, Michael	42		42
Lower Payette Ditch Company	10,050		10,050
MacGregor, Carol L.		885	885
McConnel, Alva Lon	644		644
238 McConnel, Alva B.		712	712
M.C. Shelly Family Trust	633		633
Nicholson, Thomas P. and Diana R.		472	472
Noble Ditch Company, Ltd.	10,500		10,500
Reay, David B.	21		21
Smith, Ronald		644	644
Snyder, Marion	63		63
Thornton, John		75	75
Contracted Space Totals	313,682	56,585	370,267
Uncontracted Space	339,518	105,315	444,833
Total Active Capacity	653,200	161,900	815,100

¹As of June 1995. Pending review of contract entitlements.

Boise River Flows



- ◆ Glenwood
- Middleton
- ▲ Parma

27 Lee cut 25
 Physco cut 20
 28 Canals cut 14
 Lee cut 25
 29 Physco cut 20
 Lee cut 25
 Lee cut 25 every day
 this week.

8/11/2002
 8/18/2002
 8/25/2002

why?

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	334	---	---
2	214	203	191	191	189	177	279	678	564	324	---	---
3	212	218	199	190	189	182	306	686	548	318	---	---
4	218	207	203	191	190	159	343	656	557	324	---	---
5	213	219	194	193	186	147	348	678	591	328	---	---
6	213	233	203	192	185	132	400	663	550	336	---	---
7	212	256	214	194	210	156	633	626	547	353	---	---
8	214	233	211	200	206	155	686	612	545	346	---	---
9	207	221	213	193	187	229	701	663	538	343	---	---
10	205	215	200	192	199	457	663	694	539	337	---	---
11	202	211	212	190	198	466	663	656	539	340	---	---
12	194	209	202	192	190	378	686	622	527	333	---	---
13	211	218	202	187	193	444	678	647	515	259	---	---
14	207	293	200	188	192	542	619	626	503	242	---	---
15	209	249	196	216	192	339	641	552	491	278	---	---
16	209	212	196	210	187	765	656	526	489	303	---	---
17	210	219	193	213	185	733	641	521	459	300	---	---
18	243	216	195	210	187	765	619	578	457	298	---	---
19	206	218	190	217	182	951	598	573	473	311	---	---
20	206	193	198	222	186	1100	598	562	487	323	---	---
21	218	201	208	217	177	1049	634	555	509	312	---	---
22	241	205	224	217	180	951	641	548	542	345	---	---
23	221	202	208	222	193	782	634	555	547	321	---	---
24	199	199	207	224	221	557	641	554	523	306	---	---
25	206	193	200	226	223	416	634	548	521	304	---	---
26	222	187	210	223	211	374	634	521	512	332	---	---
27	204	195	229	223	211	324	641	527	509	327	---	---
28	202	194	210	180	209	324	619	527	530	413	---	---
29	234	188	201	---	201	297	612	521	555	396	---	---
30	230	192	194	---	203	258	619	531	582	---	---	---
31	---	191	199	---	203	---	641	---	406	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	16199	9384		
MEAN	213	213	203	204	194	460	580	595	523	324		
MAX	243	293	229	226	223	1100	701	694	591	413		
MIN	194	187	190	180	158	132	258	521	406	242		
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	32132	18613		
IRRIGATION YEAR 2002			TOTAL	106239	MEAN	291	AC-FT	210725				

13213000 BOISE RIVER PARMA
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	714	696	695	631	582	440	456	899	650	579	---	---
2	706	699	690	627	586	418	450	1031	686	547	---	---
3	684	716	699	621	605	402	469	1043	693	528	---	---
4	682	695	728	616	606	436	498	987	676	532	---	---
5	682	692	722	625	604	443	535	878	759	565	---	---
6	676	715	735	623	606	471	625	788	775	585	---	---
7	684	731	771	622	618	456	830	885	762	542	---	---
8	685	728	754	639	640	445	991	885	822	520	---	---
9	680	703	748	633	605	457	992	1022	755	516	---	---
10	679	690	736	637	618	670	953	1176	737	526	---	---
11	689	685	738	628	635	827	960	1127	728	500	---	---
12	677	676	736	624	621	887	983	1053	661	488	---	---
13	689	679	731	622	622	930	1007	981	652	430	---	---
14	681	786	723	623	616	1139	883	900	653	383	---	---
15	674	762	718	637	616	1283	865	800	806	396	---	---
16	668	701	714	642	617	1230	882	710	926	384	---	---
17	669	682	718	646	605	1245	873	697	926	387	---	---
18	703	687	717	651	607	1251	884	768	856	410	---	---
19	671	684	619	662	603	1362	849	866	934	448	---	---
20	662	678	644	673	612	1542	830	862	974	450	---	---
21	790	710	663	657	594	1484	978	826	981	422	---	---
22	711	710	795	651	538	1335	1094	871	1058	446	---	---
23	689	703	711	649	499	1107	1059	882	1099	454	---	---
24	660	695	646	644	526	856	1098	858	1021	450	---	---
25	661	689	642	639	530	670	1119	763	984	525	---	---
26	666	681	648	636	503	539	1059	732	983	558	---	---
27	655	691	679	642	484	458	1099	651	944	554	---	---
28	661	698	666	632	478	450	1036	664	960	565	---	---
29	712	693	650	---	468	444	982	677	1044	584	---	---
30	745	687	634	---	450	413	914	642	872	---	---	---
31	---	693	631	---	443	---	909	---	642	---	---	---
TOTAL	20604	21735	21702	17832	17736	24088	27159	25924	26018	14272		
MEAN	687	701	700	637	572	803	876	864	839	492		
MAX	790	786	795	673	640	1542	1119	1176	1099	585		
MIN	655	676	619	616	443	402	450	642	642	383		
AC-FT	40869	43111	43045	35370	35179	47778	53870	51420	51606	28308		
IRRIGATION YEAR 2002		TOTAL	217068	MEAN	595	AC-FT	430554					

30-AUG-02

13206000 BOISE RIVER AT GLENWOOD BRIDGE
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	184	185	183	172	182	968	1267	1158	829	---	---
2	151	173	184	183	187	181	1001	1266	1143	858	---	---
3	149	184	188	182	187	179	1009	1262	1135	846	---	---
4	150	184	184	183	187	168	1073	1264	1137	847	---	---
5	150	188	183	182	187	166	1051	1248	1135	852	---	---
6	148	190	188	183	188	166	1182	1296	1123	846	---	---
7	147	194	188	183	206	169	1330	1219	1128	839	---	---
8	153	186	190	187	189	202	1314	1243	1123	828	---	---
9	152	185	189	183	188	353	1305	1253	1125	813	---	---
10	152	185	186	185	193	519	1286	1263	1128	812	---	---
11	146	185	188	184	190	575	1285	1262	1139	812	---	---
12	163	184	187	187	189	631	1290	1265	1136	815	---	---
13	155	195	186	185	191	753	1281	1260	1131	795	---	---
14	151	206	180	193	191	861	1264	1214	1119	780	---	---
15	150	183	174	197	192	887	1284	1165	1070	791	---	---
16	151	187	174	198	184	926	1287	1169	1044	802	---	---
17	190	191	174	202	190	908	1271	1171	1039	800	---	---
18	156	180	173	203	186	1028	1255	1183	1036	805	---	---
19	168	188	173	209	191	1232	1254	1163	1037	814	---	---
20	181	186	175	208	188	1307	1251	1162	1045	811	---	---
21	186	185	183	208	187	1295	1260	1155	1056	816	---	---
22	193	183	179	207	186	1283	1253	1156	1070	828	---	---
23	183	183	176	208	195	1183	1248	1167	1056	810	---	---
24	181	183	175	210	199	1036	1249	1163	1049	796	---	---
25	189	182	175	210	196	957	1247	1164	1050	799	---	---
26	185	179	180	209	196	953	1240	1156	1051	798	---	---
27	182	184	180	203	193	940	1246	1182	1058	790	---	---
28	185	183	176	160	190	943	1240	1164	1058	787	---	---
29	195	183	173	---	190	945	1246	1164	1017	768	---	---
30	182	184	182	---	189	950	1246	1160	928	---	---	---
31	---	184	184	---	192	---	1254	---	851	---	---	---
TOTAL	4974	5747	5609	5412	5884	21878	37967	36226	33373	23585		
MEAN	166	185	181	193	190	729	1225	1208	1077	813		
MAX	195	206	190	210	206	1307	1330	1296	1158	858		
MIN	146	173	173	160	172	166	968	1155	851	768		
AC-FT	9865	11399	11124	10735	11672	43394	75307	71855	66195	46782		
IRRIGATION YEAR 2002		TOTAL	180654	MEAN	495	AC-FT	358328					

PRELIMINARY DATA

29-AUG-02

13206000 BOISE RIVER AT GLENWOOD BRIDGE
 DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
 MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	184	185	183	172	182	968	1267	1158	829	---	---
2	151	173	184	183	187	181	1001	1266	1143	858	---	---
3	149	184	188	182	187	179	1009	1262	1135	846	---	---
4	150	184	184	183	187	168	1073	1264	1137	847	---	---
5	150	188	183	182	187	166	1051	1248	1135	852	---	---
6	148	190	188	183	188	166	1182	1296	1123	846	---	---
7	147	194	188	183	206	169	1330	1219	1128	839	---	---
8	153	186	190	187	189	202	1314	1243	1123	828	---	---
9	152	185	189	183	188	353	1305	1253	1125	813	---	---
10	152	185	186	185	193	519	1286	1263	1128	812	---	---
11	146	185	188	184	190	575	1285	1262	1139	812	---	---
12	163	184	187	187	189	631	1290	1265	1136	815	---	---
13	155	195	186	185	191	753	1281	1260	1131	795	---	---
14	151	206	180	193	191	861	1264	1214	1119	780	---	---
15	150	183	174	197	192	887	1284	1165	1070	791	---	---
16	151	187	174	198	184	926	1287	1169	1044	802	---	---
17	190	191	174	202	190	908	1271	1171	1039	800	---	---
18	156	180	173	203	186	1028	1255	1183	1036	805	---	---
19	168	188	173	209	191	1232	1254	1163	1037	814	---	---
20	181	186	175	208	188	1307	1251	1162	1045	811	---	---
21	186	185	183	208	187	1295	1260	1155	1056	816	---	---
22	193	183	179	207	186	1283	1253	1156	1070	828	---	---
23	183	183	176	208	195	1183	1248	1167	1056	810	---	---
24	181	183	175	210	199	1036	1249	1163	1049	796	---	---
25	189	182	175	210	196	957	1247	1164	1050	799	---	---
26	185	179	180	209	196	953	1240	1156	1051	798	---	---
27	182	184	180	203	193	940	1246	1182	1058	790	---	---
28	185	183	176	160	190	943	1240	1164	1058	787	---	---
29	195	183	173	---	190	945	1246	1164	1017	---	---	---
30	182	184	182	---	189	950	1246	1160	928	---	---	---
31	---	184	184	---	192	---	1254	---	851	---	---	---
TOTAL	4974	5747	5609	5412	5884	21878	37967	36226	33373	22817		
MEAN	166	185	181	193	190	729	1225	1208	1077	815		
MAX	195	206	190	210	206	1307	1330	1296	1158	858		
MIN	146	173	173	160	172	166	968	1155	851	780		
AC-FT	9865	11399	11124	10735	11672	43394	75307	71855	66195	45258		
IRRIGATION YEAR 2002		TOTAL		179886	MEAN	493	AC-FT	356804				

PRELIMINARY DATA

29-AUG-02

13210050 BOISE RIVER NR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	334	---	---
2	214	203	191	191	189	177	279	678	564	324	---	---
3	212	218	199	190	189	182	306	686	548	318	---	---
4	218	207	203	191	190	159	343	656	557	324	---	---
5	213	219	194	193	186	147	348	678	591	328	---	---
6	213	233	203	192	185	132	400	663	550	336	---	---
7	212	256	214	194	210	156	633	626	547	353	---	---
8	214	233	211	200	206	155	686	612	545	346	---	---
9	207	221	213	193	187	229	701	663	538	343	---	---
10	205	215	200	192	199	457	663	694	539	337	---	---
11	202	211	212	190	198	466	663	656	539	340	---	---
12	194	209	202	192	190	378	686	622	527	333	---	---
13	211	218	202	187	193	444	678	647	515	259	---	---
14	207	293	200	188	192	542	619	626	503	242	---	---
15	209	249	196	216	192	339	641	552	491	278	---	---
16	209	212	196	210	187	765	656	526	489	303	---	---
17	210	219	193	213	185	733	641	521	459	300	---	---
18	243	216	195	210	187	765	619	578	457	298	---	---
19	206	218	190	217	182	951	598	573	473	311	---	---
20	206	193	198	222	186	1100	598	562	487	323	---	---
21	218	201	208	217	177	1049	634	555	509	312	---	---
22	241	205	224	217	180	951	641	548	542	345	---	---
23	221	202	208	222	193	782	634	555	547	321	---	---
24	199	199	207	224	221	557	641	554	523	306	---	---
25	206	193	200	226	223	416	634	548	521	304	---	---
26	222	187	210	223	211	374	634	521	512	332	---	---
27	204	195	229	223	211	324	641	527	509	327	---	---
28	202	194	210	180	209	324	619	527	530	413	---	---
29	234	188	201	---	201	297	612	521	555	---	---	---
30	230	192	194	---	203	258	619	531	582	---	---	---
31	---	191	199	---	203	---	641	---	406	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	16199	8988		
MEAN	213	213	203	204	194	460	580	595	523	321		
MAX	243	293	229	226	223	1100	701	694	591	413		
MIN	194	187	190	180	158	132	258	521	406	242		
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	32132	17828		

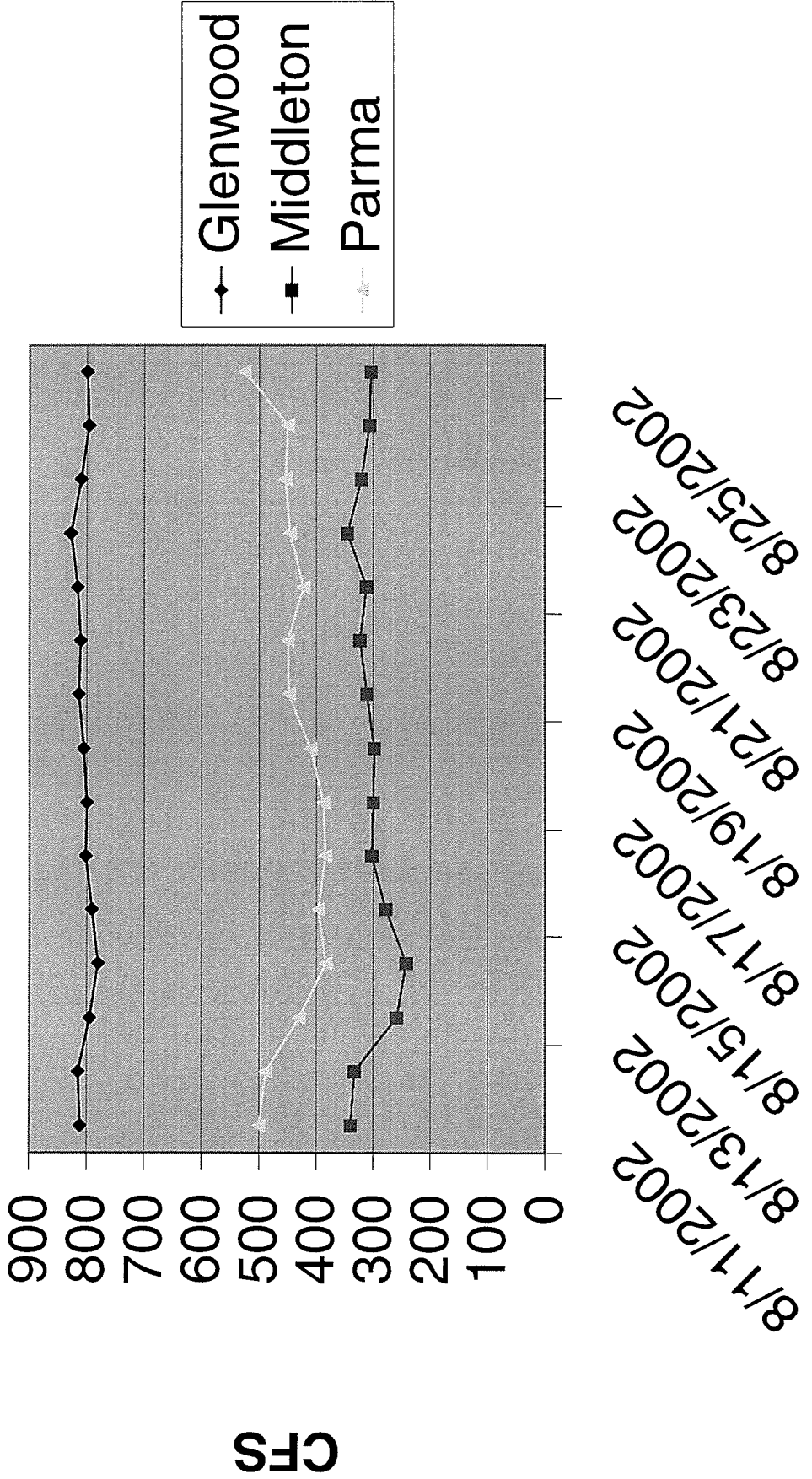
IRRIGATION YEAR 2002 TOTAL 105844 MEAN 290 AC-FT 209940

13213000 BOISE RIVER PARMA
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

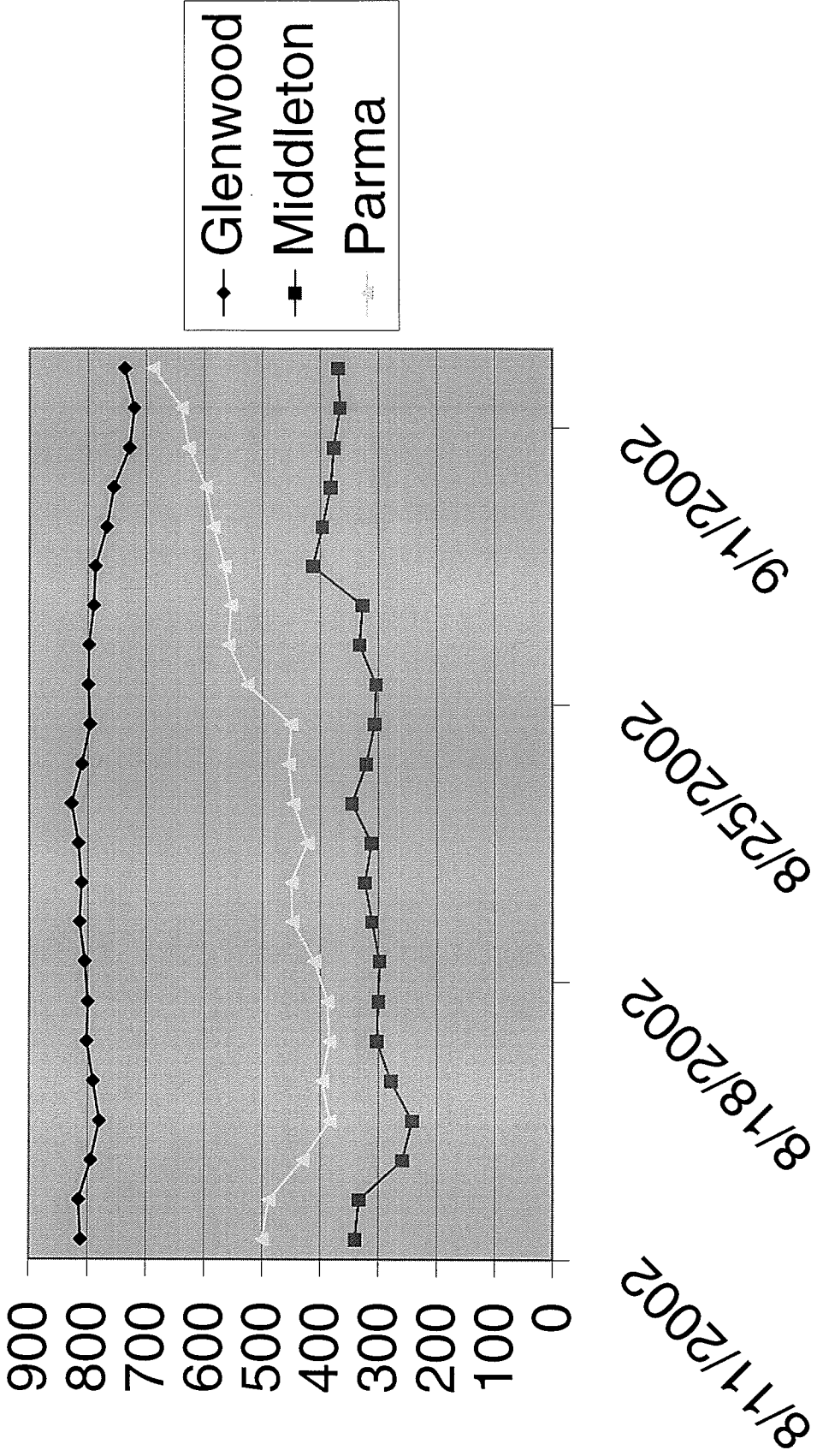
DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	714	696	695	631	582	440	456	899	650	579	---	---
2	706	699	690	627	586	418	450	1031	686	547	---	---
3	684	716	699	621	605	402	469	1043	693	528	---	---
4	682	695	728	616	606	436	498	987	676	532	---	---
5	682	692	722	625	604	443	535	878	759	565	---	---
6	676	715	735	623	606	471	625	788	775	585	---	---
7	684	731	771	622	618	456	830	885	762	542	---	---
8	685	728	754	639	640	445	991	885	822	520	---	---
9	680	703	748	633	605	457	992	1022	755	516	---	---
10	679	690	736	637	618	670	953	1176	737	526	---	---
11	689	685	738	628	635	827	960	1127	728	500	---	---
12	677	676	736	624	621	887	983	1053	661	488	---	---
13	689	679	731	622	622	930	1007	981	652	430	---	---
14	681	786	723	623	616	1139	883	900	653	383	---	---
15	674	762	718	637	616	1283	865	800	806	396	---	---
16	668	701	714	642	617	1230	882	710	926	384	---	---
17	669	682	718	646	605	1245	873	697	926	387	---	---
18	703	687	717	651	607	1251	884	768	856	410	---	---
19	671	684	619	662	603	1362	849	866	934	448	---	---
20	662	678	644	673	612	1542	830	862	974	450	---	---
21	790	710	663	657	594	1484	978	826	981	422	---	---
22	711	710	795	651	538	1335	1094	871	1058	446	---	---
23	689	703	711	649	499	1107	1059	882	1099	454	---	---
24	660	695	646	644	526	856	1098	858	1021	450	---	---
25	661	689	642	639	530	670	1119	763	984	525	---	---
26	666	681	648	636	503	539	1059	732	983	558	---	---
27	655	691	679	642	484	458	1099	651	944	554	---	---
28	661	698	666	632	478	450	1036	664	960	565	---	---
29	712	693	650	---	468	444	982	677	1044	---	---	---
30	745	687	634	---	450	413	914	642	872	---	---	---
31	---	693	631	---	443	---	909	---	642	---	---	---
TOTAL	20604	21735	21702	17832	17736	24088	27159	25924	26018	13688		
MEAN	687	701	700	637	572	803	876	864	839	489		
MAX	790	786	795	673	640	1542	1119	1176	1099	585		
MIN	655	676	619	616	443	402	450	642	642	383		
AC-FT	40869	43111	43045	35370	35179	47778	53870	51420	51606	27150		

IRRIGATION YEAR 2002 TOTAL 216484 MEAN 593 AC-FT 429396

2002 Boise River



Boise River Flows



13213000 BOISE RIVER PARMA
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	714	696	695	631	582	440	456	899	650	579	639	---
2	706	699	690	627	586	418	450	1031	686	547	688	---
3	684	716	699	621	605	402	469	1043	693	528	---	---
4	682	695	728	616	606	436	498	987	676	532	---	---
5	682	692	722	625	604	443	535	878	759	565	---	---
6	676	715	735	623	606	471	625	788	775	585	---	---
7	684	731	771	622	618	456	830	885	762	542	---	---
8	685	728	754	639	640	445	991	885	822	520	---	---
9	680	703	748	633	605	457	992	1022	755	516	---	---
10	679	690	736	637	618	670	953	1176	737	526	---	---
11	689	685	738	628	635	827	960	1127	728	500	---	---
12	677	676	736	624	621	887	983	1053	661	488	---	---
13	689	679	731	622	622	930	1007	981	652	430	---	---
14	681	786	723	623	616	1139	883	900	653	383	---	---
15	674	762	718	637	616	1283	865	800	806	396	---	---
16	668	701	714	642	617	1230	882	710	926	384	---	---
17	669	682	718	646	605	1245	873	697	926	387	---	---
18	703	687	717	651	607	1251	884	768	856	410	---	---
19	671	684	619	662	603	1362	849	866	934	448	---	---
20	662	678	644	673	612	1542	830	862	974	450	---	---
21	790	710	663	657	594	1484	978	826	981	422	---	---
22	711	710	795	651	538	1335	1094	871	1058	446	---	---
23	689	703	711	649	499	1107	1059	882	1099	454	---	---
24	660	695	646	644	526	856	1098	858	1021	450	---	---
25	661	689	642	639	530	670	1119	763	984	525	---	---
26	666	681	648	636	503	539	1059	732	983	558	---	---
27	655	691	679	642	484	458	1099	651	944	554	---	---
28	661	698	666	632	478	450	1036	664	960	565	---	---
29	712	693	650	---	468	444	982	677	1044	584	---	---
30	745	687	634	---	450	413	914	642	872	597	---	---
31	---	693	631	---	443	---	909	---	642	627	---	---
TOTAL	20604	21735	21702	17832	17736	24088	27159	25924	26018	15496	1328	
MEAN	687	701	700	637	572	803	876	864	839	500	664	
MAX	790	786	795	673	640	1542	1119	1176	1099	627	688	
MIN	655	676	619	616	443	402	450	642	642	383	639	
AC-FT	40869	43111	43045	35370	35179	47778	53870	51420	51606	30736	2633	
IRRIGATION YEAR 2002		TOTAL	219620	MEAN	602	AC-FT	435616					

13206000 BOISE RIVER AT GLENWOOD BRIDGE
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	184	185	183	172	182	968	1267	1158	829	721	---
2	151	173	184	183	187	181	1001	1266	1143	858	737	---
3	149	184	188	182	187	179	1009	1262	1135	846	---	---
4	150	184	184	183	187	168	1073	1264	1137	847	---	---
5	150	188	183	182	187	166	1051	1248	1135	852	---	---
6	148	190	188	183	188	166	1182	1296	1123	846	---	---
7	147	194	188	183	206	169	1330	1219	1128	839	---	---
8	153	186	190	187	189	202	1314	1243	1123	828	---	---
9	152	185	189	183	188	353	1305	1253	1125	813	---	---
10	152	185	186	185	193	519	1286	1263	1128	812	---	---
11	146	185	188	184	190	575	1285	1262	1139	812	---	---
12	163	184	187	187	189	631	1290	1265	1136	815	---	---
13	155	195	186	185	191	753	1281	1260	1131	795	---	---
14	151	206	180	193	191	861	1264	1214	1119	780	---	---
15	150	183	174	197	192	887	1284	1165	1070	791	---	---
16	151	187	174	198	184	926	1287	1169	1044	802	---	---
17	190	191	174	202	190	908	1271	1171	1039	800	---	---
18	156	180	173	203	186	1028	1255	1183	1036	805	---	---
19	168	188	173	209	191	1232	1254	1163	1037	814	---	---
20	181	186	175	208	188	1307	1251	1162	1045	811	---	---
21	186	185	183	208	187	1295	1260	1155	1056	816	---	---
22	193	183	179	207	186	1283	1253	1156	1070	828	---	---
23	183	183	176	208	195	1183	1248	1167	1056	810	---	---
24	181	183	175	210	199	1036	1249	1163	1049	796	---	---
25	189	182	175	210	196	957	1247	1164	1050	799	---	---
26	185	179	180	209	196	953	1240	1156	1051	798	---	---
27	182	184	180	203	193	940	1246	1182	1058	790	---	---
28	185	183	176	160	190	943	1240	1164	1058	787	---	---
29	195	183	173	---	190	945	1246	1164	1017	768	---	---
30	182	184	182	---	189	950	1246	1160	928	756	---	---
31	---	184	184	---	192	---	1254	---	851	729	---	---
TOTAL	4974	5747	5609	5412	5884	21878	37967	36226	33373	25069	1458	
MEAN	166	185	181	193	190	729	1225	1208	1077	809	729	
MAX	195	206	190	210	206	1307	1330	1296	1158	858	737	
MIN	146	173	173	160	172	166	968	1155	851	729	721	
AC-FT	9865	11399	11124	10735	11672	43394	75307	71855	66195	49725	2891	
IRRIGATION YEAR 2002			TOTAL	183596	MEAN	503	AC-FT	364162				

13210050 BOISE RIVER NEAR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	334	366	---
2	214	203	191	191	189	177	279	678	564	324	369	---
3	212	218	199	190	189	182	306	686	548	318	---	---
4	218	207	203	191	190	159	343	656	557	324	---	---
5	213	219	194	193	186	147	348	678	591	328	---	---
6	213	233	203	192	185	132	400	663	550	336	---	---
7	212	256	214	194	210	156	633	626	547	353	---	---
8	214	233	211	200	206	155	686	612	545	346	---	---
9	207	221	213	193	187	229	701	663	538	343	---	---
10	205	215	200	192	199	457	663	694	539	337	---	---
11	202	211	212	190	198	466	663	656	539	340	---	---
12	194	209	202	192	190	378	686	622	527	333	---	---
13	211	218	202	187	193	444	678	647	515	259	---	---
14	207	293	200	188	192	542	619	626	503	242	---	---
15	209	249	196	216	192	339	641	552	491	278	---	---
16	209	212	196	210	187	765	656	526	489	303	---	---
17	210	219	193	213	185	733	641	521	459	300	---	---
18	243	216	195	210	187	765	619	578	457	298	---	---
19	206	218	190	217	182	951	598	573	473	311	---	---
20	206	193	198	222	186	1100	598	562	487	323	---	---
21	218	201	208	217	177	1049	634	555	509	312	---	---
22	241	205	224	217	180	951	641	548	542	345	---	---
23	221	202	208	222	193	782	634	555	547	321	---	---
24	199	199	207	224	221	557	641	554	523	306	---	---
25	206	193	200	226	223	416	634	548	521	304	---	---
26	222	187	210	223	211	374	634	521	512	332	---	---
27	204	195	229	223	211	324	641	527	509	327	---	---
28	202	194	210	180	209	324	619	527	530	413	---	---
29	234	188	201	---	201	297	612	521	555	396	---	---
30	230	192	194	---	203	258	619	531	582	382	---	---
31	---	191	199	---	203	---	641	---	406	377	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	16199	10143	736	
MEAN	213	213	203	204	194	460	580	595	523	327	368	
MAX	243	293	229	226	223	1100	701	694	591	413	369	
MIN	194	187	190	180	158	132	258	521	406	242	366	
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	32132	20119	1459	
IRRIGATION YEAR 2002			TOTAL	107734	MEAN	295	AC-FT	213690				

13210050 BOISE RIVER NR MIDDLETON
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	220	220	192	193	158	193	258	656	545	334	---	---
2	214	203	191	191	189	177	279	678	564	324	---	---
3	212	218	199	190	189	182	306	686	548	318	---	---
4	218	207	203	191	190	159	343	656	557	324	---	---
5	213	219	194	193	186	147	348	678	591	328	---	---
6	213	233	203	192	185	132	400	663	550	336	---	---
7	212	256	214	194	210	156	633	626	547	353	---	---
8	214	233	211	200	206	155	686	612	545	346	---	---
9	207	221	213	193	187	229	701	663	538	343	---	---
10	205	215	200	192	199	457	663	694	539	337	---	---
11	202	211	212	190	198	466	663	656	539	340	---	---
12	194	209	202	192	190	378	686	622	527	333	---	---
13	211	218	202	187	193	444	678	647	515	259	---	---
14	207	293	200	188	192	542	619	626	503	242	---	---
15	209	249	196	216	192	339	641	552	491	278	---	---
16	209	212	196	210	187	765	656	526	489	303	---	---
17	210	219	193	213	185	733	641	521	459	300	---	---
18	243	216	195	210	187	765	619	578	457	298	---	---
19	206	218	190	217	182	951	598	573	473	311	---	---
20	206	193	198	222	186	1100	598	562	487	323	---	---
21	218	201	208	217	177	1049	634	555	509	312	---	---
22	241	205	224	217	180	951	641	548	542	345	---	---
23	221	202	208	222	193	782	634	555	547	321	---	---
24	199	199	207	224	221	557	641	554	523	306	---	---
25	206	193	200	226	223	416	634	548	521	304	---	---
26	222	187	210	223	211	374	634	521	512	---	---	---
27	204	195	229	223	211	324	641	527	509	---	---	---
28	202	194	210	180	209	324	619	527	530	---	---	---
29	234	188	201	---	201	297	612	521	555	---	---	---
30	230	192	194	---	203	258	619	531	582	---	---	---
31	---	191	199	---	203	---	641	---	406	---	---	---
TOTAL	6400	6608	6292	5706	6022	13802	17966	17860	16199	7916		
MEAN	213	213	203	204	194	460	580	595	523	317		
MAX	243	293	229	226	223	1100	701	694	591	353		
MIN	194	187	190	180	158	132	258	521	406	242		
AC-FT	12694	13106	12480	11318	11945	27375	35636	35426	32132	15701		

IRRIGATION YEAR 2002 TOTAL 104771 MEAN 287 AC-FT 207813

13206000 BOISE RIVER AT GLENWOOD BRIDGE
 DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
 MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	152	184	185	183	172	182	968	1267	1158	829	---	---
2	151	173	184	183	187	181	1001	1266	1143	858	---	---
3	149	184	188	182	187	179	1009	1262	1135	846	---	---
4	150	184	184	183	187	168	1073	1264	1137	847	---	---
5	150	188	183	182	187	166	1051	1248	1135	852	---	---
6	148	190	188	183	188	166	1182	1296	1123	846	---	---
7	147	194	188	183	206	169	1330	1219	1128	839	---	---
8	153	186	190	187	189	202	1314	1243	1123	828	---	---
9	152	185	189	183	188	353	1305	1253	1125	813	---	---
10	152	185	186	185	193	519	1286	1263	1128	812	---	---
11	146	185	188	184	190	575	1285	1262	1139	812	---	---
12	163	184	187	187	189	631	1290	1265	1136	815	---	---
13	155	195	186	185	191	753	1281	1260	1131	795	---	---
14	151	206	180	193	191	861	1264	1214	1119	780	---	---
15	150	183	174	197	192	887	1284	1165	1070	791	---	---
16	151	187	174	198	184	926	1287	1169	1044	802	---	---
17	190	191	174	202	190	908	1271	1171	1039	800	---	---
18	156	180	173	203	186	1028	1255	1183	1036	805	---	---
19	168	188	173	209	191	1232	1254	1163	1037	814	---	---
20	181	186	175	208	188	1307	1251	1162	1045	811	---	---
21	186	185	183	208	187	1295	1260	1155	1056	816	---	---
22	193	183	179	207	186	1283	1253	1156	1070	828	---	---
23	183	183	176	208	195	1183	1248	1167	1056	810	---	---
24	181	183	175	210	199	1036	1249	1163	1049	796	---	---
25	189	182	175	210	196	957	1247	1164	1050	799	---	---
26	185	179	180	209	196	953	1240	1156	1051	---	---	---
27	182	184	180	203	193	940	1246	1182	1058	---	---	---
28	185	183	176	160	190	943	1240	1164	1058	---	---	---
29	195	183	173	---	190	945	1246	1164	1017	---	---	---
30	182	184	182	---	189	950	1246	1160	928	---	---	---
31	---	184	184	---	192	---	1254	---	851	---	---	---
TOTAL	4974	5747	5609	5412	5884	21878	37967	36226	33373	20443		
MEAN	166	185	181	193	190	729	1225	1208	1077	818		
MAX	195	206	190	210	206	1307	1330	1296	1158	858		
MIN	146	173	173	160	172	166	968	1155	851	780		
AC-FT	9865	11399	11124	10735	11672	43394	75307	71855	66195	40548		
IRRIGATION YEAR 2002			TOTAL	177512	MEAN	486	AC-FT	352094				

13213000 BOISE RIVER PARMA
DISCHARGE, CUBIC FEET PER SECOND, IRRIGATION YEAR NOVEMBER 2001 TO OCTOBER 2002
MEAN VALUES

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	714	696	695	631	582	440	456	899	650	579	---	---
2	706	699	690	627	586	418	450	1031	686	547	---	---
3	684	716	699	621	605	402	469	1043	693	528	---	---
4	682	695	728	616	606	436	498	987	676	532	---	---
5	682	692	722	625	604	443	535	878	759	565	---	---
6	676	715	735	623	606	471	625	788	775	585	---	---
7	684	731	771	622	618	456	830	885	762	542	---	---
8	685	728	754	639	640	445	991	885	822	520	---	---
9	680	703	748	633	605	457	992	1022	755	516	---	---
10	679	690	736	637	618	670	953	1176	737	526	---	---
11	689	685	738	628	635	827	960	1127	728	500	---	---
12	677	676	736	624	621	887	983	1053	661	488	---	---
13	689	679	731	622	622	930	1007	981	652	430	---	---
14	681	786	723	623	616	1139	883	900	653	383	---	---
15	674	762	718	637	616	1283	865	800	806	396	---	---
16	668	701	714	642	617	1230	882	710	926	384	---	---
17	669	682	718	646	605	1245	873	697	926	387	---	---
18	703	687	717	651	607	1251	884	768	856	410	---	---
19	671	684	619	662	603	1362	849	866	934	448	---	---
20	662	678	644	673	612	1542	830	862	974	450	---	---
21	790	710	663	657	594	1484	978	826	981	422	---	---
22	711	710	795	651	538	1335	1094	871	1058	446	---	---
23	689	703	711	649	499	1107	1059	882	1099	454	---	---
24	660	695	646	644	526	856	1098	858	1021	450	---	---
25	661	689	642	639	530	670	1119	763	984	525	---	---
26	666	681	648	636	503	539	1059	732	983	---	---	---
27	655	691	679	642	484	458	1099	651	944	---	---	---
28	661	698	666	632	478	450	1036	664	960	---	---	---
29	712	693	650	---	468	444	982	677	1044	---	---	---
30	745	687	634	---	450	413	914	642	872	---	---	---
31	---	693	631	---	443	---	909	---	642	---	---	---
TOTAL	20604	21735	21702	17832	17736	24088	27159	25924	26018	12010		
MEAN	687	701	700	637	572	803	876	864	839	480		
MAX	790	786	795	673	640	1542	1119	1176	1099	585		
MIN	655	676	619	616	443	402	450	642	642	383		
AC-FT	40869	43111	43045	35370	35179	47778	53870	51420	51606	23823		

IRRIGATION YEAR 2002 TOTAL 214807 MEAN 589 AC-FT 426069