

W A T E R D I S T R I C T #32-D

1 9 9 5 R E P O R T

CHAIRMAN
WATERMASTER
DEPUTY

MAC WAGONER
DON SHENTON
GREG SHENTON

1995 32-D REPORT

The 1995 water year was generally better again as to diverted stream flows. The diverted flows totalled 19,126 A.F. for '95 up from 17,496 A.F. in 1994 and nearing 20,000 A.F. which is more like the 1988, 1989, 1990 years when diverted flows exceeded the 20,000 A.F. totals.

The tributary stream had much better flows this year which could be partially due to a very high snow pack in all the surrounding snow courses. We have had many reports from different individuals and entities of Springs flowing and small streams flowing and reaching farther down stream than in a long time. Some of the above could be because of the 1994-95 cloud seeding program.

1995 CLOUD SEEDING

As an interesting point the '95 Cloud Seeding Program is being reported as it was in the 1994 water report as follows:

Through the efforts of many we were fortunate to get a cloud seeding program put into place and most of the generators were operating by the 3rd of December 1994. We have generators at Lone Pine in Birch Creek, Sullivan Ranch on Warm Creek, Small Bros Ranch on Medicine Lodge Creek, one at the U.S. Sheep Station and one between Dubois and Kilgore near Radar Hill.

There were sizable contributions to this cause which included Larsen farms, Montevew, and Mud Lake Canal Companies, County of Clark, and the County of Jefferson and Birch Creek Power, and others I don't know of. As some contributed directly to High County R C and D of who are the central operations agency.

STREAM BED LOSSES

Seepage losses in the Birch Creek Channel continue to be very high but significantly lower for whatever reason. I found from the watermaster field notes by roughly averaging both c.f.s. loss and the percent of loss per month to be very interesting this '95 year. This probably doesn't tell us much however for the long term as Birch Creek is so erratic as to any patterns both by flows and stream bed losses. The loss findings areas follows.

Average losses in c.f.s. and percent of loss by month W/Y 95

<u>MONTH</u>	<u>C.F.S. LOSS</u>	<u>PERCENT LOSS</u>
May	19.8	23.8
June	19.5	23.0
July	22.7	31.5
August	19.4	28.2
September	21.5	30.7
October	<u>19.5</u>	<u>28.0</u>
TOTAL W/Y 95	20.4	27.5

The following are the stream bed losses by contract with the USGS taken from Blue Dome weir to the Birch Creek Hydro Pond.

DATE	BLUE DOME WEIR TO HYDRO POND	START OF LINER TO HYDRO POND
5/19/95	27.0 c.f.s. loss	5.6 c.f.s. loss
7/18/95	23.8 c.f.s. loss	4.6 c.f.s. loss
9/12/95	21.6 c.f.s. loss	5.9 c.f.s. loss

USGS reports including all sections measured are attached to this report.

Because of no one expressing themselves concerning the 3 measurement contract I felt you would just as soon cut one measurement out and signed a contract with USGS for just 2 measurements. At your annual meeting in '94 you expressed an interest in the 3 measurements taken again so I talked with USGS and they gave us a free measurement for water year '95. This years contract is for 3 measurements again as you will see in the '96 proposed budget.

OTHER INTEREST ITEMS

No interim delivery order was used to make delivery for 1995. Water available was delivered to D & D ranch and Newman Farms both by their decrees and also their water licenses. These two farms exchanged some of their waters at times when one or the other was harvesting crops. The license portions were delivered on a 7/12 5/12 at most times but the daily record books indicated the charge by priority as they are both have different priority dates. I visited with both users about this situation.

We had a request from owners of the motel at Lone Pine to use water from the Creek. I told them we would need letters from all water users granting this permission and we didn't get any so I visited with the owner and suggested no water use until permission is granted. Ted Sorenson personally told me he would let them use his water if no one else would. So if permission is not obtained and this will be a permanent practice I would suggest a transfer be made from Birch Creek Power to these people.

Water Dist.: 32-D Year: 1995 Monthly Flow Totals

Water User	Monthly Totals of 24-hour Second Feet for Irrigation Season										Total 24-hour Sec. Ft
	April	May	June	July	August	September	October				
Birch Creek Ranches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mrs. CA Wagoner	15.00	15.00	94.00	172.00	127.00	118.00	114.00	640.00			
Mac Wagoner	124.00	124.00	120.00	124.00	124.00	120.00	113.00	725.00			
Birch Creek Ranches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Newman Ranch	384.00	384.00	354.00	488.00	488.00	473.00	441.00	2628.00			
Newman Ranch (Lic)	134.00	134.00	141.00	83.00	33.00	14.00	56.00	461.00			
D and D Ranches	684.00	684.00	662.00	684.00	684.00	662.00	617.00	3993.00			
D and D Ranches (Lic)	198.00	198.00	192.00	180.00	187.00	180.00	179.00	1116.00			
Birch Creek Ranches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Birch Creek Ranches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
24-hour Sec. Ft Totals:	0.00	1539.00	1563.00	1731.00	1643.00	1567.00	1520.00	9563.00			

Water Dist.: 32-D Year: 1995 Watermaster's Report

Water User	Total 24-hour Sec. Feet	Total Cost	Adopted Budget	Credit	Debit
Birch Creek Ranches	0.00	\$0.00	\$1,696.56	\$1,696.56	
Mrs. C.A. Wagoner	640.00	\$588.88	\$142.49		(\$446.39)
Mac Wagoner	725.00	\$667.09	\$820.25	\$153.16	
Birch Creek Ranches	0.00	\$0.00	\$19.13	\$19.13	
Newman Ranch	2628.00	\$2,418.08	\$2,691.49	\$273.41	
Newman Ranch (Lic.)	461.00	\$424.18	\$0.00		(\$424.18)
D and D Ranches	3993.00	\$3,674.04	\$4,003.13	\$329.09	
D and D Ranches (Lic.)	1116.00	\$1,026.85	\$0.00		(\$1,026.85)
Birch Creek Ranches	0.00	\$0.00	\$4.95	\$4.95	
Birch Creek Ranches	0.00	\$0.00	\$0.00		
Totals:	9563.00	\$8,799.11	\$9,378.00	\$2,476.31	(\$1,897.42)

Water Dist: 32-D Year: 1995 Watermaster's Report

Water User	Past Season's Costs					Average 5-year Cost	Proposed Next Year's Budget
	1991	1992	1993	1994	1995		
Birch Creek Ranches	\$1,512.00	\$1,811.00	\$1,947.00	\$116.00	\$0.00	\$1,077.20	\$1,230.57
Mrs. C.A. Wagoner	\$126.00	\$57.00	\$243.00	\$148.00	\$640.00	\$242.80	\$277.37
Mac Wagoner	\$685.00	\$691.00	\$736.00	\$717.00	\$725.00	\$710.80	\$812.00
Birch Creek Ranches	\$18.00	\$18.00	\$18.00	\$11.00	\$0.00	\$13.00	\$14.85
Newman Ranch	\$1,859.00	\$1,965.00	\$1,857.00	\$3,217.00	\$2,628.00	\$2,305.20	\$2,633.41
Newman Ranch (Lic.)	\$0.00	\$0.00	\$0.00	\$0.00	\$461.00	\$92.20	\$105.33
D and D Ranches	\$3,019.00	\$2,726.00	\$3,215.00	\$4,539.00	\$3,993.00	\$3,498.40	\$3,996.49
D and D Ranches (Lic.)	\$0.00	\$0.00	\$0.00	\$0.00	\$1,116.00	\$223.20	\$254.98
Birch Creek Ranches	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Birch Creek Ranches	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals:	\$7,219.00	\$7,268.00	\$8,016.00	\$8,748.00	\$9,563.00	\$8,162.80	\$9,325.00

Water Dist.: 32-D Year: 1995 Proposed Budget

32-D BREAKDOWN OF EXPENSES -1995

Watermaster Salary	\$ 3,960.00
Deputy Watermaster (mileage)	2,200.00
Social Security Tax	302.11
Social Security Tax (Secretary)	----0.00
Secretary Salary	193.00
Misc. (phone ,postage, office ,etc.)	52.00
U.S.G.S. (stream measurement)	360.00
Workman's Comp Insurance	532.00
Birch Creek Weir	200.00
I.R.A. (Don)	<u>1,000.00</u>
TOTALS	\$ 8,799.11
Total 1995 Budget	\$ 9,378.00
Total 1995 Cost	\$ <u>8,799.11</u>
Total Balance	\$ 578.89

32-D 1996 PROPOSED BUDGET

Watermaster Salary	\$ 4,000.00
Deputy Mileage	2,200.00
Secretary Salary	200.00
Workman's Comp. Insurance	625.00
Social Security Tax	500.00
Misc. (Phone, Postage, etc.)	250.00
U.S.G.S (Stream Measurement)	550.00
I.R.A.	1,000.00
Weir Maintenance	<u>0.00</u>
TOTAL	\$ 9,325.00
1996 Proposed Budget	\$ 9,325.00
1995 Adopted Budget	\$ <u>9,378.00</u>
Decrease	\$ 53.00

TO: Don Shenton, Watermaster, and Greg Shenton, Deputy Watermaster

FROM: S.G. Landon
U.S. Geological Survey, Idaho Falls Field Office

SUBJECT: Discharge measurements made on Birch Creek to determine bed loss.
Measurements made by U.S.G.S. Idaho Falls field office, May 19, 1995.

Here is a work-up in sequential order of the measurements we made for you on Birch Creek on May 19, 1995. We have listed the measured cfs, the loss in cfs between measuring sites, and the total cumulative losses in sequence in cfs. Descriptions and listings follow.

Measurement Sequence/Time	Station Name	Measured CFS	Loss From Prev. Site (CFS)	Total Accumulative Loss (CFS)
AA @ 0908	Weir at Simmon's ranch near Blue Dome: 20' weir at gage height 1.07, 3' weir at gage height 0.46, total Q =75.9 cfs (as determined by weir measurements) Water being diverted through 3' cippoletti weir between site AA and site B: gage height = 0.55, Q =4.07 cfs (as determined by weir measurement.)			
B @ 0827	13-1170.24 Birch Creek at John Day grave site	66.7	5.1	5.1
C @ 0957	13-1170.25 Birch Creek at Allotment	61.0	5.7	10.8
D @ 1040	13-1170.26 Birch Creek abv. first F & G "K" dam	58.2	2.8	13.6
E @ 1118	13-1170.28 Birch Creek blw. 15 th F & G "K" dam	57.6	0.6	14.2
F1 @ 1159	13-1170.30 Birch Creek abv. Eight-mile Canyon Rd. (and abv. liner)	50.4	7.2	21.4
G @ 1300	13-1170.35 Birch Creek abv. Power Company pond	44.8	5.6	27.0

Total loss from site B to site F1 is 16.3 cfs. This is that portion of the measured section above the channel liner.

Total loss from site F1 to site G, or over the measured section of the liner, is 5.6 cfs.

Total loss from site AA to site G (less Wagoner weir) is 27.0 cfs.

Please refer to this office if there are any questions. All measurements were made with a Price AA S-70 meter using standard U.S.G.S. measuring procedures.

TO: Don Shenton, Watermaster, and Greg Shenton, Deputy Watermaster

FROM: S.G. Landon
U.S. Geological Survey, Idaho Falls Field Office

SUBJECT: Discharge measurements made on Birch Creek to determine bed loss.
Measurements made by U.S.G.S. Idaho Falls field office, July 18, 1995.

Here is a work-up in sequential order of the measurements we made for you on Birch Creek on July 18, 1995. We have listed the measured cfs, the loss in cfs between measuring sites, and the total cumulative losses in sequence in cfs. Descriptions and listings follow.

Measurement Sequence/Time	Station Name	Measured CFS	Loss From Prev. Site (CFS)	Total Accumulative Loss (CFS)
AA @ 1110	Weir at Simmon's ranch near Blue Dome: 20' weir at gage height 1.04, 3' weir at gage height 0.43, total Q =72.6 cfs (as determined by weir measurements)			
	Water being diverted through 3' rectangular weir between site AA and site B: gage height = 0.46, Q =4.05 cfs (as determined by weir measurement.)			
B @ 0711	13-1170.24 Birch Creek at John Day grave site	62.6	6.0	6.0
C @ 0800	13-1170.25 Birch Creek at Allotment	57.1	5.5	11.5
D @ 0940	13-1170.26 Birch Creek abv. first F & G "K" dam	54.9	2.2	13.7
E @ 0904	13-1170.28 Birch Creek blw. 15 th F & G "K" dam	51.1	3.8	17.5
F1 @ 1217	13-1170.30 Birch Creek abv. Eight-mile Canyon Rd. (and abv. liner)	49.3	1.8	19.3
G @ 1321	13-1170.35 Birch Creek abv. Power Company pond	44.7	4.6	23.9

Total loss from site B to site F1 is 13.3 cfs. This is that portion of the measured section above the channel liner.

Total loss from site F1 to site G, or over the measured section of the liner, is 4.6 cfs.

Total loss from site AA to site G (less Wagoner weir) is 23.8 cfs.

Please refer to this office if there are any questions. All measurements were made with a Price AA S-70 meter using standard U.S.G.S. measuring procedures.

TO: Don Shenton, Watermaster, and Greg Shenton, Deputy Watermaster

FROM: S.G. Landon
U.S. Geological Survey, Idaho Falls Field Office

SUBJECT: Discharge measurements made on Birch Creek to determine bed loss.
Measurements made by U.S.G.S. Idaho Falls field office, September 12, 1995.

Here is a work-up in sequential order of the measurements we made for you on Birch Creek on September 12, 1995. We have listed the measured cfs, the loss in cfs between measuring sites, and the total cumulative losses in sequence in cfs. Descriptions and listings follow.

Measurement Sequence/Time	Station Name	Measured CFS	Loss From Prev. Site (CFS)	Total Accumulative Loss (CFS)
AA @ 1030	Weir at Simmon's ranch near Blue Dome: 20' weir at gage height 1.01, 3' weir at gage height 0.42, total Q =69.6 cfs (as determined by weir measurements)			
	Water being diverted through 3' rectangular weir between site AA and site B: gage height = 0.465, Q =4.12 cfs (as determined by weir measurement.)			
B @ 0810	13-1170.24 Birch Creek at John Day grave site	59.4	6.1	6.1
C @ 0849	13-1170.25 Birch Creek at Allotment	57.9	1.5	7.6
D @ 1106	13-1170.26 Birch Creek abv. first F & G "K" dam	56.3	1.6	9.2
E @ 1141	13-1170.28 Birch Creek blw. 15 th F & G "K" dam	54.1	2.2	11.4
F1 @ 1247	13-1170.30 Birch Creek abv. Eight-mile Canyon Rd. (and abv. liner)	49.8	4.3	15.7
G @ 1332	13-1170.35 Birch Creek abv. Power Company pond	43.9	5.9	21.6

Total loss from site B to site F1 is 9.6 cfs. This is that portion of the measured section above the channel liner.

Total loss from site F1 to site G, or over the measured section of the liner, is 5.9 cfs.

Total loss from site AA to site G (less Wagoner weir) is 21.6 cfs.

Please refer to this office if there are any questions. All measurements were made with a Price AA S-70 meter using standard U.S.G.S. measuring procedures.

ORIGINAL

**Department of the Interior
Geological Survey
Joint Funding Agreement**

Agreement No. ID9602300
Customer No. ID035

**FOR
WATER RESOURCES INVESTIGATIONS**

THIS AGREEMENT is entered into as of the 24th day of November 1995 by the GEOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the WATER DISTRICT 32D, party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation a program to measure seepage runs on Birch Creek, hereinafter called the program.
2. The following amounts shall be contributed to cover all of the cost of the necessary field and office work directly related to this program, but excluding any bureau level general administrative or accounting work in the office of either party.
 - (a) \$555.00 by the party of the first part during the period May 1, 1996 to September 30, 1996
 - (b) \$555.00 by the party of the second part during the period May 1, 1996 to September 30, 1996
 - (c) Additional amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.

3. Expenses incurred in the performance of this program may be paid by either party in conformity with the laws and regulations respectively governing each party, provided that so far as may be mutually agreeable all expenses shall be paid in the first instance by the party of the first part with appropriate reimbursement thereafter by the party of the second part. Each party shall furnish to the other party such statements or reports of expenditures as may be needed to satisfy fiscal requirements.

4. The field and office work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the progress of the work all operations of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program and, if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties.

9. Billing for this agreement will be rendered annually. Payments of bills are due within 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30-day period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-212222, August 23, 1983.).

WATER DISTRICT 32D

GEOLOGICAL SURVEY
UNITED STATES
DEPARTMENT OF THE INTERIOR

By _____

By _____

By 
Jerry L. Hughes, District Chief
(SIGNATURE & TITLE)

By _____

SOME SUGGESTED

WATER DISTRICT RESOLUTIONS

COLLECTION OF WATER ASSESSMENT

No ditch, canal, or other water user shall have the right to demand and receive water until full payment due is paid. Payment shall become due April 1 and shall become delinquent May 1 and if not paid by May 1, the payment shall bear interest from April 1 at the rate of eight percent (8%) per annum.

The watermaster shall not deliver any water until full payment due it paid.

WATERMASTER TERM OF SERVICE

The watermaster shall be elected for a term of one full year. The purpose is so the watermaster can serve in the legal capacity to do official business for the district in the event of emergencies, legislative actions, hearings, disputes or other water related or job related activities.

The watermaster cannot be required to make water deliveries before April 1 or after November 1, (the normal irrigation season) unless an emergency exists. The watermaster shall not be paid before April 15, or after November 1 from water district budgeted regular funds.

HEADGATES AND WEIRS

All control devices and measuring devices shall be in good working order before water can be demanded or delivered. The watermaster shall not deliver any water unless such devices are in good working order.