

1931 BB

DISTRICT 7-AB AND 11-AB

This report is the writer's fifteenth annual report on Big Wood River and the fourteenth annual report on Silver Creek and Lower Little Wood River. The various water sheds, in compliance with the statutes of Idaho, have been divided into water districts. Where the streams are long the water shed is sometimes divided into two or more sub-districts. In most cases, however, this is not advisable.

The writer, under the supervision of the Commissioner of Reclamation, has charge of the distribution of water in Districts 7-AB and 11-AB. District 7-AB includes all of Big Wood River. District 11-AB includes Silver Creek and Little Wood River below the junction of the two streams. A complete description of these districts will be found in the 1927 annual watermaster report for these districts.

Copies of the annual reports on Big and Little Wood Rivers and Silver Creek for the years 1917 to 1931 will be found in the files in the office of the Commissioner of Reclamation at Boise, also, in the office of the watermaster at Shoshone, Idaho.

ORGANIZATION AND COST

The organization maintained to distribute the water in the two above named districts will be found described in detail in the 1927 watermaster report. Efforts have been made in the past to work out some plan whereby the cost of operation could be decreased. During 1931 the assistant watermaster was dispensed with and his work was done by the writer with the assistance of the field deputies. During a normal water year it is doubtful whether his services could be discontinued without very materially decreasing the efficiency of distribution and thus resulting in an injury to the waterusers.

The operation cost for watermaster services for 1931 for districts 7-AB and 11-AB are given in the following tabulations:

DISTRICT 7-AB

<u>NAME</u>	<u>TITLE</u>	<u>SALARY</u>	<u>TOTAL COST</u>
S. H. Chapman	Watermaster	\$2,652.00	
Chas. Bradley	Deputy Watermaster	1,074.00	
James Devaney	Deputy Watermaster	910.00	
F. D. Wright	Deputy Watermaster	210.00	
H. M. McClure	Special	72.00	
Fred S.ree	Special	13.50	
Jim Stitt	Special	6.00	
J. Darling	Special	6.50	
T. M. Rizzi	Special	18.00	
F. D. Jones	Special	104.27	
J. A. Wheeler	Special	15.97	
B. W. Canal Co.	Gage Reading, etc.	<u>658.35</u>	\$5,740.59

Expenses

S. H. Chapman	\$ 706.84	
Chas. Bradley	359.10	
James Devaney	240.68	
Kelly Motor Co.	178.78	
Base Line Canal	119.00	
Syms-York Co.	37.92	
F. D. Jones	19.00	
J. A. Wheeler	4.20	
B. W. Canal Co.	25.00	
Francis Jones	<u>84.79</u>	\$1,775.31

GRAND TOTAL \$7,515.90

1928, 1929 and 1930 COST

1928.	\$10,081.27
1929.	8,740.83
1930.	8,064.10

DISTRICT 11-AB

<u>NAME</u>	<u>TITLE</u>	<u>SALARY</u>	<u>TOTAL COST</u>
S. H. Chapman	Watermaster	\$1,348.00	
Robert Scanlan	Deputy Watermaster	1,372.50	
Ed McDowell	Deputy Watermaster	823.50	
G. H. Bowersock	Deputy Watermaster	1,545.85	
John Noyes	Special	90.00	
John Worrington et al	Special	294.70	
Frank Clark	Special	32.00	
Roy Denny et al	Special	74.75	
William Jensen	Special	20.00	
W. M. Frans	Special	12.00	
Roy Denny	Special	8.00	
B. W. Canal Co.	Gage Reading, Etc.	<u>559.65</u>	\$6,180.95

Expenses

S. H. Chapman	360.29	
James Devaney	18.94	
G. H. Bowersock	19.15	
Kelly Motor Co.	90.87	
Syms-York Co.	<u>19.28</u>	\$ 508.53
GRAND TOTAL.		\$6,689.48

1928, 1929 and 1930 COST

1928.	\$7,160.45
1929.	6,127.19
1930.	6,866.97

The Statutes of the State of Idaho provide that the charges for water-master services shall be made by levying a charge against every water user, whether it be an individual or corporation, in proportion to the amount of water delivered.

The cost of any part of the watermaster organization that pertains to any one district is paid by that district. The cost of the part of the water-master organization that affects both districts is charged as follows:

District 7-AB.66.3 percent
District 11-AB33.7 percent

Charge is made against storage water the same as against natural water. This method is in compliance with Section 5614, as amended by Section 1, Chapter 81 of 1927 Idaho Session Laws.

THE WATER SUPPLY FOR 1931

The water supply for 1931 was the smallest that we have any record of. The normal annual flow into Magic Reservoir is 352,000 acre feet over a period of 23 years. The total inflow for the year ending September 30th, 1931 was 63,300 acre feet, 56,700 acre feet less than the previous shortest water year, namely, 1924. The yield of Silver Creek was 31,300 acre feet. The normal yield is 56,000 acre feet and the previous minimum yield was 34,900 acre feet in 1926.

During 1931 another storage contract was entered into between the Big Wood Canal Company and the decreed water users on Big Wood River below Magic Reservoir. The storage period was from April 1st to May 5th. Again considerable benefits were derived by the parties in interest.

American Falls Reservoir Water

Water first arrived at Little Wood River from American Falls Reservoir on June 3d, but enough to be of value as an irrigation head did not arrive until June 19th. The Milner-Gooding canal losses were very heavy at first but due to the energetic and efficient work carried on by the engineers in charge the canal losses were very materially decreased. By the last of July sufficient water was delivered through the canal to supply the South Gooding Tract and considerable acreage on the North Gooding Tract as well as supplying water to the decreed lands entitled to the same. An examination of Table No. 40 will show how the losses decreased as the season advanced.

The flume crossing the lava field between Little Wood River and Big Wood River was completed in July and the first water from American Falls Reservoir was delivered into the channel of Big Wood River on July 15th.

The water came too late to save early crops but considerable late alfalfa and pasture was produced and some seeding was made possible. With the completion of the canal to connect up with the North Gooding Canal this supplemental water supply should give the Big Wood Project and decreed lands below the canal an adequate water supply. The following is a tabulation of the amount of water received from American Falls Reservoir during the irrigation season of 1931.

Amount Delivered on Big Wood River

Second Feet

CANAL NAME	JUNE	JULY	AUGUST	SEPTEMBER	TOTAL
Silva	0	19.1	117.4	61.5	198.0
Butler	0	115.8	382.7	189.6	688.1
Peck	0	14.9	38.0	18.6	71.5
Sims	0	52.9	336.7	177.4	567.0
Kaiser	0	154.7	656.0	366.7	1177.4
Robertson	0	158.8	693.0	404.2	1256.0
Union	0	380.6	1292.1	737.3	2410.0
Savage	0	37.6	91.5	65.5	194.6
Poorman	0	234.6	801.3	438.7	1474.6
Silk	0	12.3	0	0	12.3
Silk-Gooding	0	34.2	72.0	54.4	160.6
Walters	0	87.2	411.9	184.1	683.2
Jones	44.6	114.2	156.0	74.8	389.6
Hash	1.3	3.7	2.5	1.3	8.8
Frost	0	26.2	69.6	27.8	123.9
Thorp	58.2	89.6	245.6	113.2	506.6
Justice	19.2	72.6	191.1	99.7	382.6
	<u>123.3</u>	<u>1609.0</u>	<u>5557.7</u>	<u>3014.8</u>	<u>10304.8</u>

Amount Delivered on Little Wood River

Second Feet

Dietrich	0	383.5	652.0	309.0	1344.5
Lane	0	8.4	11.2	0	19.6
Anderson-Baugh	0	0	4.1	1.2	5.3
Gooding-Mott	39.4	50.0	94.9	37.8	222.1
Village	0	0	6.0	0	6.0
Myers	7.3	51.0	54.6	0	112.9
Hunter	15.8	12.0	19.0	24.2	71.0
Winters	4.8	1.4	13.5	7.3	27.0
Prosser	4.0	0	0	0	4.0
Hitchcock	13.1	32.1	41.0	12.0	98.2
South Gooding	2102.0	3444.0	5233.0	2726.0	13505.0
B-1	259.2	558.3	800.5	377.5	1995.5
Devaney	32.7	26.6	47.7	38.1	145.1

Amount Delivered on Little Wood River
Second Feet (Continued)

CANAL NAME	JUNE	JULY	AUGUST	SEPTEMBER	TOTAL
Kelly	18.1	44.2	70.5	46.0	178.8
Bower	0	29.8	55.7	22.9	108.4
Hunt	7.3	12.5	24.0	10.6	54.4
Silva	0	10.0	3.4	18.7	32.1
Slough	84.5	135.3	256.2	124.3	600.3
City	12.0	28.7	39.7	8.2	88.6
Woodworth	14.9	32.8	63.2	45.8	156.7
Carpenter	1.9	2.6	0	0	4.5
TOTAL	2617.0	4863.2	7490.2	3809.6	18780.0
GRAND TOTAL	2740.5	6472.2	13047.9	6824.4	29084.8

The total amount of water diverted directly from the Milner-Gooding Canal for the Dietrich Tract was 2991 second feet. This added to the above makes a total amount of 32075.8 second feet or 64,152 acre feet of water delivered from the American Falls Reservoir water, for the months June to September, inclusive. The total amount of water at the head of the canal during this period, after deducting the water delivered to the North Side Project, was 189,194 acre feet. The percentage of loss on this water from the head of the canal at Milner to the various diversion points diverting from Big and Little Wood Rivers was 66.09 percent. This loss will be very materially reduced in the future as will be shown from a study of Table No. 40.

LOSSES

The losses in the various sections of Big Wood River below Magic Reservoir will be found on charts No. 36 and 37. Charts Nos. 38 and 39 give the loss in the various sections of Silver Creek and Lower Little Wood River. Chart No. 40 gives the loss in the Milner-Gooding Canal from the diversion at Milner to Station No. 56, near the Little Wood River crossing. The following tabulation gives the loss in the channel of Big Wood River from Hailley to Station No. 2, just above the back waters of Magic Reservoir.

MEAN LOSS OR GAIN IN CUBIC FEET PER SECOND

Stations No. 19 to No. 2						
Year	May	June	July	August	September	Mean for Period
1918			+132.0	+ 85.0		+109.6
1919		+ 64.3	+ 54.6	+ 18.9	- 17.3	+ 30.2
1920	- 73.2	+ 8.5	+ 55.2	+ 24.2	+ 17.3	+ 6.3
1921	- 72.0	- 15.2	+ 84.5	+ 98.5	+ 41.4	+ 26.2
1922	- 10.8	- 74.0	+137.0	+125.0	+ 82.0	+ 29.3
1923	-116.0	- 6.6	+105.0	+ 92.0	+ 81.0	+ 14.8
1924	- 9.6	+ 25.1	+ 1.7	- 12.6	- 13.8	0.0
1925	-150.0	+ 11.7	+107.0	+101.0		+ 16.6
1926	+ 19.5	+ 54.1	+ 35.6	+ 9.9	+ 21.5	+ 28.7
1927	+ 1.1	- 19.4	+150.0	+ 97.8	+ 65.1	+ 58.9
1928	- 18.0	+101.0	+103.0	+ 45.8	+ 20.5	+ 50.3
1929	- 55.4	+ 12.8	+ 55.5	+ 5.4	+ 25.0	+ 8.5
1930	- 71.0	+ 78.9	+ 6.1	+ 80.2	+ 55.0	+ 47.6
1931	- 10.4	+ 23.9	- 9.9	- 14.7	- 16.0	- 5.5

IMPROVEMENTS

Some improvement work was made on Silver Creek to decrease channel losses. This work was in the nature of bank building to keep the creek from overflowing its banks and the water finding its way into sink holes. The work was authorized at the watermaster election in March and a committee was appointed to advise with the watermaster as to the advisability of the work to be done, The amount of money voted to be spent was \$1000.00. The actual amount expended for this work was \$147.00. The creek was so low during 1931 that the affects of the work would hardly show up but the indications are that during a normal year the savings will be well worth the expenditure. The heading at the head of the upper By-pass was repaired at a cost of \$253.25. A new concrete front; new gates and lifts and other improvements were made on the gate. The cost was apportioned against the parties interested in the by-pass saving