

A new gage house and concrete well was constructed at Station No. 10 on Little Wood River near Richfield, Idaho. A new gaging station was established above the Milner-Gooding Canal on Little Wood River, and a Station on the Milner-Gooding feeder for the north side of Big Wood River. This was established at a point a short distance below the Little Wood River crossing.

DECISIONS OF COMMISSIONER OF RECLAMATION

When the water from American Falls Reservoir became available for distribution in Little Wood River in June 1931 the Big Wood Canal Company requested the watermaster to supply the natural flow rights below the said canal with the storage water from American Falls Reservoir and in lieu of this the same amount of water was asked to be turned into the Dietrich Canal and other canals having a right to the waters of the Big Wood Canal Company. Certain water users having adjudicated water rights on the stream objected to this change of point of use, and set up the claim that they would be unable to get their water out of the stream unless their dams were repaired, which they claimed, under normal conditions, were adequate. The watermaster took the position that this change would constitute a change of point of diversion and could not be done to the injury of other appropriators. The matter was presented to the Commissioner of Reclamation, and Mr. R. W. Faris, Commissioner, came to Shoshone and after going over the stream ordered the request to be granted providing the dams were repaired by the parties benefited by the use of the water proposed to be diverted. The water users on the Dietrich Tract repaired the dams and kept same in shape and the water was diverted into the Dietrich Canal and other canals as requested. The water thus diverted resulted in considerable benefit to the parties interested.

When Big Wood River became very low and the loss from the mouth of the upper By-pass to the Black Diversion Point was very large the water users on the Base-Line Canal requested the watermaster to divert the water through Canal No. 55-F and thence by means of an extended by-pass deliver the water to the head of the Black Ditch and to give the said Base-Line Canal the savings. Objections were made by the Big Wood Canal Company on the grounds that the inflow into Magic Reservoir would be decreased and would result in an injury to them. Other objections were made by other water users. The Base-Line Canal Company had a permit from the Commissioner of Reclamation to make this saving but in view of the objections it was thought advisable on the part of the watermaster to get instructions from the Commissioner of Reclamation and Mr. Paris came on the grounds and after an investigation instructed the watermaster to hold up the execution of the permit and to see if something could not be worked out that would be to the satisfaction of all parties in interest. After considerable negotiating a plan was worked out and the saving was made. The water thus saved amounted to approximately 18 second feet and this was the amount determined in making distributions. The savings were distributed as follows: The members of the Base-Line Canal Company were to get 6/18 of the saving and the remainder of the savings was to be delivered to the water users above Magic Reservoir in a fair and just manner.

An agreement was to be signed by all parties receiving any of the water saved. In this agreement each and everyone receiving any of the water saved were to pay a like amount to the Big Wood Canal Company from their decreed rights during the irrigation season of 1932 at a time when the Big Wood Canal Company should make such demand. This agreement gave the watermaster full power to execute same and the signed original is now on file in the office of watermaster at Shoshone. This agreement has a clause which provides that no future claims can be set up based on the distribution of the water saved.

After the terminations of the provisions of the agreement relative to the distribution of the water saved, namely, on September 30th, 1931, the rights of all parties should be the same as if the agreement had never been entered into. No future claims could be set up based on the use of this by-pass for the season of 1931. The water thus saved was of considerable value in saving gradens and trees.

DATE PRIORITIES EXPIRED.

District 7-AB

The method used in determining from time to time what priorities could be supplied can be found in the 1927 watermaster report under the heading of "Distribution."

The following table gives the dates the several priorities here listed expired on Big Wood River, District 7-AB, during the irrigation season of 1931.

<u>PRIORITY</u>	<u>WHEN PRIORITY EXPIRED</u>	<u>WHEN PRIORITY WAS AGAIN SUPPLIED</u>	<u>REMARKS</u>
8 - 1-84	April 12		Above Res.
7 -10-84	April 22		Above Res.
10 -15-84		April 30, 50%	Above Res.
8 - 1-86		May 1 , part	Above Res.
6 -15-86		May 6 , part	Above Res.
4-30-89	May 6		Below Res.
11-31-89		May 13	
5- 1-87	May 18		
6-12-86	May 21		50%
6-12-86	May 22		
5- 1-86	May 23		
5-12-86		May 24	50%
5- 1-87		May 27	
6-12-86	May 29		50%
12-15-87		June 9	Due to rain
6-12-86	June 10		
5- 1-86	June 11		
10-15-84	June 16		
6-11-84	June 17		
8-30-84		June 18	
4-30-84	June 20		
6-15-83	June 28		
5- 1-83	June 29		
3-24-83	July 6		40%

PRIORITY	WHEN PRIORITY EXPIRED	WHEN PRIORITY WAS AGAIN SUPPLIED	REMARKS
3-24-83	July 8		70%
3-10-83	July 9		
12-19-82	July 17		
8- 1-82	July 19		50%
6- 1-82	July 21		
7-31-81	July 24		
4-15-81	July 28		
7- 1-81		July 31	
4-15-81	August 11		
4-15-81		August 20	

District 11-AB

Under the heading "Distribution" in the 1927 watermaster report covering this district will be found the method used from time to time to determine what priorities can be supplied from the available natural flow at any particular time.

The following table gives the dates when priorities here listed expired in 1931:

PRIORITY	WHEN PRIORITY EXPIRED	WHEN PRIORITY WAS AGAIN SUPPLIED	REMARKS
12-24-06	April 15		Part
5-15-90	April 20		
4- 1-86	April 30		
4- 1-85	May 8		
5-15-84	May 15		
4-15-84	June 2		
4-30-84		June 3	
5- 5-84		June 11	5.1 S.F.
4-15-84	July 21		
4- 1-84	July 24		28%
4- 1-84		August 17	

During the latter part of September, due to the older rights ceasing irrigation above Richfield and those below not repairing their dams after the American Falls Water was off, any priority desiring water was supplied.

WATER LITIGATIONS

The action brought against the watermaster by A. W. Warr in 1930 to compel him to deliver certain waters to the water users in the Hiawatha Canal, was ordered canceled by the court and the deliveries reverted back to the status prior to the action.

PRECIPITATION RECORDS.

The following tables gives the accumulative precipitation of rain and water content of snow on Soldier Range Station above Camas Prairie for the years 1910-11 to 1930-31, The table gives the accumulated amount at the end of the month in inches:

YEAR	OCT. & NOV.	DECEMBER	JANUARY	FEBRUARY	MARCH	A. F. Run-off
1910-11	5.8	7.2	13.5	17.2	18.8	
1911-12	4.6	6.2	8.9	10.0	13.7	115,230
1912-13	3.6	4.7	13.2	13.4	14.6	93,720
1913-14	6.8	10.6	16.7	18.6	18.7	112,320
1914-15	3.4	4.5	6.5	10.3	10.6	33,420
1915-16	3.5	7.6	16.8	20.9	23.3	235,020
1916-17	4.0	9.3	11.1	18.5	21.4	207,520
1917-18	3.1	7.3	8.9	13.9	16.4	40,070
1918-19	4.6	5.7	9.3	15.5	18.5	107,300
1919-20	4.3	8.4	9.1	9.7	11.8	21,040
1920-21	8.0	13.8	18.1	21.1	22.4	177,020
1921-22	4.5	7.9	8.6	10.7	14.4	172,720
1922-23	1.5	8.8	12.9	15.5	17.1	95,420
1923-24	4.8	8.1	8.2	10.2	11.6	28,230
1924-25	6.0	9.8	14.3	20.9	22.5	165,720
1925-26	4.2	6.5	8.6	12.8	13.5	15,670
1926-27	10.8	12.6	17.0	26.3	27.5	197,420
1927-28	8.8	11.6	12.7	12.8	15.8	69,700
1928-29	3.6	6.8	9.8	11.3	12.0	77,880
1929-30	0.3	8.2	10.8	13.8	15.8	37,960
1930-31	4.2	4.5	6.1	7.4	10.5	16,600

A study of the table shows that the run-off varies considerable different years. This cannot be explained by the difference in depth of precipitation. However, some idea may be arrived at by a comparison of the depth of precipitation, for any year, with the record here given.

BIG WOOD PROJECT

Duty at River Headgate

Tract	Crop Acreage	MAGIC RESERVOIR		AMERICAN FALLS		TOTALS	
		Ac.Ft. Delvd.	Duty at head	Ac.Ft. Delvd.	Duty at Head	Ac.Ft. Delvd.	Duty at Head
Richfield	10,816	10,734	0.99	00	.00	10,734	0.99
Dietrich	6,603	6,199	0.94	7,356	1.11	13,555	2.05
Shoshone	6,291	6,834	1.09	2,810	0.45	9,644	1.53
North Gooding	6,897	5,877	0.85	11,198	1.62	17,075	2.48
South Gooding	10,832	5,696	0.53	30,906	2.85	36,602	3.38
Sub-Total	41,439	35,340	0.85	52,270	1.26	87,610	2.11
River Div.	1,439	1,213	0.84	3,520	2.45	4,733	3.29
TOTAL	42,878	36,553	0.85	55,790	1.30	92,343	2.15

Duty at Farm Head Gate

Richfield	10,816	6,921	0.64	00	00	6,921	0.64
Dietrich	6,603	3,548	0.54	5,256	0.80	8,804	1.33
Shoshone	6,291	4,353	0.69	2,404	0.38	6,757	1.07
North Gooding	6,897	4,733	0.69	9,272	1.34	14,005	2.03
South Gooding	10,832	4,493	0.42	26,398	2.44	30,891	2.85
Sub-Total	41,439	24,048	0.58	43,330	1.05	67,378	1.63
River Div.	1,439	1,213	0.84	3,520	2.45	4,733	3.29
TOTAL	42,878	25,261	0.59	46,850	1.09	72,111	1.68

Percentage Loss On Tracts

Tract	Magic Reservoir	American Falls Reservoir Water	Total
Richfield	35.52%	00	35.52
Dietrich	42.76	28.55	35.05
Shoshone	36.30	14.45	29.94
North Gooding	19.47	17.20	17.98
South Gooding	21.12	14.59	15.60
TOTAL	31.95	17.10	23.09

NOTE: The above tabulation are figures compiled by S. T. Brer, Manager
Big Wood Canal Co.

CONCLUSIONS

A large amount of data not incorporated in this report is available in the office of watermaster at Shoshone. This data is available to anyone wishing more detailed information.

The Milner-Gooding Canal will undoubtedly be completed during 1932 and with the American Falls Reservoir water available for the lands covered by this canal the water shortages of the past should be eliminated. Latest information indicates that when the canal is completed it is going to show good efficiency.

This report has an index giving the important records and where they may be found in the watermaster reports for the year 1917 to 1930, inclusive; and it is indexed so that losses, canal deliveries, and various other information can be readily found.

The tables have been prepared with the idea in view that any desired, detailed information can be obtained by a study of the several tables in conjunction with each other.