STATE OF IDAHO)
(ss
COUNTY OF ADA)

I, R. W. FARIS, do hereby certify that I am the duly appointed, acting, and qualified Commissioner of Reclamation of the State of Idaho, and that as such Commissioner I am the legal custodian of the records of the said Department of Reclamation of the State of Idaho; and

I FURTHER CERTIFY, That the foregoing is a full, true, and correct copy of:

REPORT ON WATER DISTRIBUTION AND HYDROMETRIC WORK, DISTRICT No. 36, 1927, by G. CLYDE BALDWIN, DEPUTY

as the same appears of record in the Department of Reclamation of the State of Idaho.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Department of Reclamation of the State of Idaho at Boise-Idaho, this 27th day of January, 1932.

R. W. Faris
Commissioner of Reclamation

REAU OF WATER RESOURCES
MYRON SWENDSEN, DIRECTOR

WATER APPROPRIATIONS
CAREY ACT DEVELOPMENT

State of Idaho

H. C. BALDRIDGE, GOVERNOR

DEPARTMENT OF RECLAMATION

GEORGE N. CARTER, COMMISSIONER

BOISE April 12,1928

HONORABLE H. C. BALDRIDGE
Governor of Idaho
Boise, Idaho

SIR:

It is my pleasure to transmit herewith the Ninth annual rsport of G. Clyde Baldwin, the watermaster and special deputy for Water District No. 36, Snake River. The report is similar in form and contains parallel data when referred to the eight previous annual reports of this district.

The continuity of the work of distributing the waters of Snake River in conformity to the decrees of the court and laws of the State, as carried on by Mr. Baldwin, is in itself very substantial proof of the efficacy of the methods and organization employed for this purpose. Great credit is due those who in 1919 conceived the plan and put into effect the policies for management and regulation of the Snake River, which have remained for nine years and promise to continue much longer.

Tnere was nothing of an unusual nature in connection with the 1927 distribution. It was a year of plentiful water supply. The American Falls reservoir was filled to capacity and only a small part of the the storage thus impounded was needed.

There is one matter in this report to which I would direct your attention, that of the menace of Snake River to property in the district affected by last year's flood, which was caused by the breaking of the Gros Ventre river landslide dam in Wyoming. Such a condition created, and existing by reason of an act of nature, seems to warrant the State's aid in protecting the property of its citizens.

May I again take occasion to commend the work of Mr. Baldwin and his organization and express my appreciation on behalf of the State of this invaluable service.

Yours very respectfully,

GEO. N. CARTER
Commissioner of Reclamation

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
GEORGE N. CARTER, COMMISSIONER
G. CLYDE BALDWIN, DEPUTY

WATER DISTRICT NO. 36

BALDRIDGE, GOVERNOR

IDAHO FALLS, IDAHO

April 5, 1928.

Mr. George N. Carter,
Commissioner of Reclamation,
Boise, Idaho.

Dear Sir:

Herewith I take pleasure in submitting the technical report covering all regular water distribution and hydrometric operations in Water District No. 36 for the irrigation season of 1927.

From the standpoint of water supply the year was one of the best of record. Normal stream flow sufficed to fill all requirements until the latter part of July and the amount of stored water needed thereafter was much less than usual. Consequently the season closed with large amounts of hold-over storage remaining in all reservoirs.

Crops were generally good and aside from the damage occasioned by the Gros Ventre Flood the season was a very satisfactory one for the water users. No unusual disputes arose and river administration proceeded in a spirit of harmony seldom experienced in the drier years.

U. S. Geological Survey methods have been used throughout as a standard for the collection and compilation of the hydrometric data which are presented in this report. In this, in the recomputation of records since the close of the irrigation season and in other respects the report is consistent with those which have been issued for the eight preceding years.

The so-called Normal Flow Fund was continued as a means of financing that portion of the work eventually paid for under the annual Water Master Bill. This fund was maintained during the past year through the advance of money by the Water Users Protector Association of the North Fork of Snake River and Tributaries, the Upper Snake River Water Users Protective Union, the Twin Falls Canal Company and the North Side Canal Company, Ltd.

Special acknowledgments are due to the North Fork Reservoir Company, the Utah Power and Light Company, the Idaho and Snake River Valley Irrigation Districts and the Aberdeen-Springfield Canal Company for gage readings and to the U. S. Bureau of Reclamation, the Twin Falls Canal Company and the North Side Canal Company, Ltd. for gage readings, results of current meter measurements and other data which were furnished without charge.

Work in the American Falls Reservoir basin was facilitated and duplication of effort avoided by reason of the careful planning of Thomas R. Newell.

Appreciation should again be accorded to you and to the members of the Water Users Committee of Nine of District No. 36 for continued cooperation and for advice and assistance which were freely given whenever required.

The conscientious service of the hydrographers, deputy water masters and other members of the regular organization must also be recognized and full credit be given for their part in the success of the year's operations.

C. A. McClelland, Mans H. Coffin, H. S. Kollenborn and Miss Helen George assisted materially in the preparation of this report and their work in this connection is gratefully acknowledged.

Respectfully yours,

J. Clyde Baldwin

Deputy.

WATER DISTRIBUTION AND HYDROMETRIC WORK

In District No. 36

1927

by G. Clyde Baldwin

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INTRODUCTION

The annual meeting and election of Water District No. 36 was held at Idaho Falls, Idaho on March 7, 1927. At this time G. Clyde Baldwin was reelected to the position of Water Master and the old members of the Committee of Nine, viz., F. A. Miller, Eph Peterson, John W. Hart, W. O. Cotton, John E. Kelley, L. C. Walker, E. B. Darlington, C. J. Miller and R. E. Shepherd were all continued in office.

After an amendment designed to provide for the determination of the storage transmission loss between Blackfoot and Neeley had been voted down, this meeting finally adopted, by the record vote of 84,507 to 48,985, the following majority report of the resolutions committee as the program or plan for 1927 river operation:

"Your committee have to recommend for the year 1927, water administration of Snake River, Water District No. 36, be had as follows:

I.

That from Jackson Lake (Moran) to Heise storage water shall be charged a transmission loss of 2½%, and in an attempt to establish conditions at Heise as nearly as practicable to pre-reservoir times, that storage water shall be charged a reasonable amount to cover lag and other causes of loss in return flow. Said amount to be repaid and returned to storage water interests before the close of the irrigation season, or before the storage water interests shall have exhausted their rights. It is understood that when a decreed right shall have been cut under river regulations that right shall not be reinstated until such time as its proportion of this amount shall have been repaid.

II.

That from Heise to Lorenzo bridge a minimum 3% channel transmission loss be charged to stored water, and when it shall be shown by a "two day mean method" that there is an additional loss in excess of said 3% the natural or direct flow users must be credited with the additional amount. It being understood that a measuring station will be maintained at or near Lorenzo.

III.

That from Lorenzo to Woodville a loss of 0.5% be chargod storage water.

IV.

That from Woodville to Blackfoot a loss of 6% be charged to storage water.

V.

As to temporary exchanges and temporary transfers this question shall be left to the Committee of Nine to formulate and determine upon a plan at a later date.

VI.

That the salary of the Water Master for the year 1927 be fixed in the same amount paid him for the year 1926, and that said Water Master shall select such assistants and in the same manner as practiced during 1926, and that the total expenditure for river administration be kept within the total expended for like services and administration as that of 1926. That the Water Master's bond be fixed at $500.00 and his bond as treasurer of the Normal Flow fund be fixed at $4,500.00.

VII.

As to further investigation of conditions on Snake River your committee feel that it should be empowered to take such action as in its judgment may be warranted and incur the necessary expense.

(Signed) F. A. Miller
(Signed) W. O. Cotton
(Signed) J. E. Kelley
(Signed) R. E. Shepherd

Members of Committee"

Part of the opposition indicated, was directed exclusively against Paragraph V of the report and immediately after the announcement of the vote the following protest was presented by G. R. Davis who asked that it be incorporated in the minutes of the meeting:

"In behalf of the Fall River Irrigation Company, Twin Groves Canal and Irrigation Company and Wilford Irrigation Company we protest against any transfer or exchange of water in any manner, shape or form or the actions of any committee that will in any way change the natural flow of any stream in District No. 36 other than along the lines of decree."

A resolution endorsing and recommending favorable action by Congress on legislation which would permit the creation of the so-called Bechler or Fall River Meadows Reservoir was again unanimously adopted in substantially the same form as at the previous annual meeting.

The so-called Boise River plan of financing water district operations which is provided for under Senate Bill No. 38 enacted by the 1927 legislature was presented and explained. Since the advantages to be gained through its adoption did not appear to outweigh the objectionable features, the meeting voted to continue the operation of District No. 36 affairs under the same financial plan which was effective during the preceding year.

On March 30, 1927 the Committee of Nine met at Idaho Falls, considered the annual Water Master budget and approved same in the amount of $13,891.80 as the estimated cost of all regular work properly chargeable against normal flow water users.

Action taken upon other matters of importance is outlined in the following quotations from the minutes of this meeting:

"Moved by E. B. Darlington and seconded by J. B. Stocking that the committee postpone taking action relative to the matter of temporary transfers and exchanges of normal flow for storage as applied to 1927 water distribution. After considerable discussion the motion was carried.

Moved by C. J. Miller and seconded by L. C. Walker that a committee of three be appointed by the chair and authorized to arrange for carrying on an investigation during 1927 to determine the effect which the American Falls Reservoir and its operation will have upon river administration in District No. 36, the cost of said investigation not to exceed $5000.00 and to be paid by the American Falls Reservoir interests. Vote on this motion showed all committee members favorable except J. B. Stocking. Motion declared carried.

Chairman Hart appointed C. J. Miller, J. B. Stocking and W. O. Cotton as members of this committee.

Moved by J. B. Stocking and seconded by L. C. Walker that the 1927 operation costs be prorated between stored water and normal flow users on the former 40%-60% basis except those made necessary by the construction and operation of the American Falls Reservoir which should be charged in their entirety against the said reservoir interests.

Motion carried.

Informal discussion of the necessity for 1927 regulation of small canals in the Springfield-Sterling section resulted in a general understanding to the effect that such regulation would not be warranted so long as the injunction granted by Judge Adair of the Sixth Judicial District remains valid.

It was also informally decided to continue the operation of the Robertson Station on Snake River by District No. 36 for another season before deciding upon its final disposition.

In connection with the discussion of the first item of the budget C. J. Miller outlined the unanimous action which was taken at the meeting of the American Falls Reservoir Advisory Board on March 8, 1927, authorizing a $50.00 per month increase in Mr. Baldwin's salary in recognition of the extra work and responsibility devolving upon him on account of the operation of this new reservoir.

Mr. Baldwin then asked for an expression of opinion from the committee as to whether it would be proper for him to accept this salary increase.

Moved by C. J. Miller and seconded by L. C. Walker that the committee endorse the action taken by the American Falls Reservoir Board in the matter of Mr. Baldwin's salary and approve of his accepting extra compensation from that source to the extent of $50.00 per month.

Motion carried.

Mr. Baldwin then asked to have the minutes show a pledge on his part to present the whole matter to the Water Users of District No. 36 at their annual meeting in March 1928 and promised to refund all money paid to him in excess of his regular salary of $4800.00 if the Water Users then decided that he should not have accepted the extra amount.

Moved by W. O. Cotton and seconded by Eph Peterson that the bills of J. H. Peterson for $100.00 and F. A. Miller for $75.00 on account of legal services be approved and ordered included in the 1927 Water Master statement as a special charge against upper valley canals.

Carried."

Shortly after this meeting the special committee, after due consideration of the various problems to be encountered, arranged with Thomas R. Newell to conduct the desired investigation in the American Falls Reservoir basin. This work has now been summarized in a separate report and in consequence will only be referred to herein to the extent necessary to adequately explain the 1927 water segregation and distribution.

The same general cooperative plan which has been described in detail in preceding reports*again formed the basis for the administration of water distribution and also, with the single modification introduced by Mr. Newell's investigations, of hydrometric work conducted within the district in 1927. Funds for securing hydrometric data of a wide-spread interest character were provided by the State of Idaho and the U. S. Geological Survey while operations conducted primarily in connection with water distribution were sustained at the expense of normal flow and stored water users of the district.

Beginning in 1923 the offices of Water Master and Special Deputy were consolidated, but aside from this the organization and division of work has changed but little since the central office at Idaho Falls was first established on a permanent basis in May 1919.

Actual water deliveries, storage transmission via natural stream channels and other phases of river operation have been conducted each year in accordance with certain regulations and schedules usually adopted by the water users at the annual March election meeting.

*Water Distribution and Hydrometric Work in District No. 36, 1919; 1920; 1921; 1922; 1923; 1924; 1925 and 1926 by C. Clyde Baldwin.

These regulations cover points on which the statutes and decrees are not sufficiently definite or concerning which available data are too incomplete to afford satisfactory basis for a single fixed method of procedure. Occasionally also, when unanimous consent has been secured, certain departures from statutory methods prescribed for water distribution have been authorized. The former reports of the Deputy State Commissioner of Reclamation, already referred to, should be consulted for further details or information concerning the changes in these regulations which were in force during former years.

Because of the generally very favorable water supply conditions, regular river riders and deputy water masters were not required to begin their work for the season until June 1, but the hydrographers were engaged for some time prior to this in the re-establishment of gaging stations on both canals and natural streams, the making of necessary minor repairs and in securing measurements for the purpose of defining changes in rating which had occurred since the last previous records were secured.

PERSONNEL

The personnel engaged in the work of distribution during the season of 1927 was as follows:

G. Clyde Baldwin	Deputy State Commissioner of Reclamation, Special Deputy in charge of Jackson Lake, Market Lake and American Falls Stored Water Delivery and Water Master of District No. 36.
Thos. R. Newell	Engineer, American Falls Reservoir investigation.
C. A. McClelland	Hydrographer
Mans H. Coffin	Hydrographer and Deputy Water Master in charge of branch office at St. Anthony, Idaho.
Leo K. Homer	Hydrographer
Leslie Bowen	Hydrographer
C. T. Judah	Hydrographer, American Falls Reservoir Basin
Helen George	Clerk and office assistant, Idaho Falls office
Mrs. Snow Coffin	" " " " St. Anthony "

1927 DISTRIBUTION WATER DISTRICT NO. 36

PLATE NO. 1

MAP OF WATER DISTRICT No. 36

SHOWING PRINCIPAL STREAMS AND GAGING STATIONS

0 — 24 — 48 — 77

Scale 1 inch = 24 Statute Miles.

NO.	REGULAR STATIONS
1	Jackson Lake at Moran Wyo.
2	Snake River near Moran Wyo.
3	Snake River near Heise Ida.
4	Great Feeder Canal near Ririe Ida.
5	Snake River at Lorenzo Ida.
6	Snake River near Shelley Ida.
7	Snake River near Blackfoot Ida. (Blackfoot Bridge)
8	Snake River at Clough's Ranch (formerly listed as near Blackfoot)
9	Snake River at Neeley Ida.
10	Lake Walcott near Minidoka Ida.
11	Snake River near Minidoka Ida.
12	North Side Minidoka Canal near Minidoka, Ida.
13	South Side Minidoka Canal near Minidoka Ida.
14	Lake Milner at Milner Ida.
15	North Side Twin Falls Canal at Milner Ida.
16	South Side Twin Falls Canal at Milner Ida.
17	Snake River at Milner Ida.
18	Henrys Lake Reservoir near Lake Ida.
19	Henrys Fork near Lake Ida.
20	Henrys Fork near Ashton Ida.
21	Henrys Fork at St. Anthony Ida.
22	Henrys Fork near Rexburg Ida.
23	Fall River near Squirrel Ida.
24	Fall River near Chester Ida.
25	Teton River near St. Anthony Ida.
26	Blackfoot River near Blackfoot
27	American Falls Reservoir at American Falls Ida.
28	Snake River at American Falls Ida.

	AUXILIARY STATIONS
A	Snake River at South Boundary Yellowstone Park.
B	Henrys Fork at Warm River Ida.
C	Warm River at Warm River Ida.
D	Robinson Creek at Warm River Ida.
E	Portneuf River at Pocatello Ida.
F	Snake River at Robertson Ranch.

N

MONT.

Henrys Lake Res.

YELLOWSTONE NATIONAL PARK

Lewis Lake

FREMONT CO.

Henrys Fork

Warm River

Ashton

Henrys Fall

St. Anthony

Teton River

JEFFERSON CO.

Rexburg

MADISON CO.

Rigby

TETON CO.

Jackson Lake Res.

SNAKE RIVER

Idaho Falls

BONNEVILLE CO.

Willow Cr.

BINGHAM CO.

Blackfoot

Blackfoot River

Gray's Lake

WYOMING

IDAHO

GOODING CO.

LINCOLN CO.

JEROME CO.

Jerome

MINIDOKA CO.

BLAINE CO.

Lake Walcott

Rupert

SNAKE RIVER

Buhl

Twin Falls

TWIN FALLS CO.

Burley

CASSIA CO.

American Falls Res.

American Falls

POWER CO.

Pocatello

BANNOCK CO.

Portneuf River

Blackfoot Reservoir

CARIBOU CO.

Bruno Albert	Deputy Water Master.	Upper Fall River division
T. W. Luetjen	" " "	St. Anthony division
David I. Gardner	" " "	and hydrographer Teton River division.
Wm. Burton	" " "	Swan Valley canals
W. J. Kremer	" " "	Heise division
Wm. Sauer	" " "	Rigby division
J. W. Ensign	" " "	Idaho Falls division
Delbert Taylor	" " "	Blackfoot division
T. E. Culley	" " "	Minidoka Dam
W. N. McConnel	" " "	and hydrographer, Milner Dam
J. M. McGinn	Gate Tender, Henry's Lake Dam	
Joseph Markham	Superintendent, Jackson Lake Dam	
Frances W. Herre	Forwarding Agent, Ashton, Idaho.	

Mrs. J. L. Carter, Harold Fuqua, Mrs. Irvin Siepert, W. H. Kremer, W. H. Davis, J. A. Clough, A. J. Ayers and H. B. McConnel, Gage Readers.

DESCRIPTIVE OUTLINE OF 1927 DISTRIBUTION

The monthly surveys of the snow accumulated on the area tributary to Jackson Lake, which have been made by Joseph Markham each winter beginning with 1920, early in 1927 indicated that the summer water supply would probably be above normal. Reservoir inflow was retarded somewhat by the unusually cool weather which was generally noted throughout April and May but this same condition was no doubt responsible to a considerable degree for the very well sustained character of the normal stream flow later in the season.

Both Jackson Lake and American Falls Reservoirs were practically empty at the close of the 1926 season but in spite of the fact that they were so operated as to reduce the peak discharges at lower river points, each was filled to capacity several days before there was any need for the release of stored water. This flood prevention value of Jackson Lake Reservoir, in particular, should perhaps be emphasized for the reason that it is so frequently overlooked

at times when the river still reaches a sufficiently high stage to cause damage to adjacent lands. For example, had no water been impounded during June the maximum discharge for the month at points between the dam and the mouth of Henrys Fork would have occurred about the middle of the month and would have been more than 6500 second-feet greater than the peak which was actually noted on June 28.

The normal stream flow sufficed to fill the demands for water until July 19 when all canals were ordered cut to record rights. A small amount of stored water was released on the preceding day but deliveries did not begin until July 20, the latest date for initial storage use which has been noted since 1918.

Diversions under permit and license rights as well as under some of the youngest decrees ceased on July 21.

Thereafter decreed rights were regulated in accordance with the following schedule:

July 29	Cut off rights having a priority date subsequent to		Mar.26, 1903
Aug. 9	" " " " " " " "		Oct.11, 1900
" 16	Reinstated rights having a priority date earlier than		Mar.26, 1903
" 17	" " " " " " " "		June 7, 1905
" 26	Cut off rights having a priority date subsequent to		Mar.26, 1903
" 30	" " " " " " " "		Oct.11, 1900
Sept. 1	General regulation terminated for the season.		

Attention should be called to the fact that both cuts and reinstatements, as listed above, apply particularly to upper valley canals. These, as a rule, were regulated slightly later than canals below American Falls, due largely to the attempt which was made to make some allowance for the so-called lag as provided in paragraph I of the 1927 river operation program (See page 1).

The following letter which was forwarded by Mr. Baldwin under date of August 30 to each of the members of the Committee of Nine,

describes conditions existing at that time and outlines the procedure adopted for river operation during the balance of the season:

"Throughout the entire summer of 1927 up to date, the normal flow of Snake River and its tributaries has been sufficient in amount to supply decreed rights with a priority earlier than October 11, 1900 and for most of the time it has been great enough to fill all rights having a priority earlier than March 26, 1903.

The situation at this time is very similar to that of 1925 except for the materially larger quantities of storage still available for use this year.

It would appear to be unwise to close the gates at the outlet of Jackson Lake until the hold-over storage has been reduced to about 500,000 acre-feet, which condition will not be reached at the present rate of draft much before September 15. Very little of this stored water is being used in the upper valley, however, and with the further material decrease in demand by the canals which may be expected hereafter it seems hardly necessary to attempt to maintain regulation in this section after the end of the present month.

Therefore, if there is no serious objection on your part, I propose to follow the precedent established in other years of favorable water supply and discontinue the services of most of the deputy water masters as well as two of the hydrographers effective August 31, 1927.

Under this program the remaining hydrographers will be able to secure occasional gage readings and measurements at each of the canal stations throughout September to an extent which will make approximate discharge computations possible by interpolation for missing dates.

While the data thus secured will of course be less accurate it is believed the material saving in expense accomplished will warrant the changed procedure, especially since continuous records will be maintained at the river stations.

This plan has been discussed with Chairman Hart and with one or two other members of your committee who all felt that it should be carried out and that conditions did not warrant the calling of a special meeting for the purpose of ratification.

I hope that those of your number whom it has not been practicable for me to see in person will advise immediately if they have any objections and that you will all continue to feel free to offer comments and suggestions at any time concerning the work."

While regulation would doubtless have been continued until nearly the middle of September, had there been no surplus storage available, the actual removal of restrictions on the earlier date did not result in any material increase in the amount diverted. In fact, with the arrival of cooler weather following the heavy rains noted about September 9th, there was a pronounced decrease in the water used and in consequence a considerable amount of stored water was purposely wasted past Milner Dam.

Draft upon Jackson Lake Reservoir ceased on September 19 and with hold-over storage amounting to 503,320 acre-feet, or the largest of record since the construction of the dam, the gates were closed to begin storage for the next season.

In December 1927 and January 1928, when it appeared that the filling of the reservoir would be certain without impounding all available flow, some additional water was released.

Plate II illustrates graphically the manner in which Jackson Lake was filled and drawn down during the period from October 1, 1918 to March 31, 1928. All graphs are plotted on the basis of 1919 capacity tables. (See 1925 report for similar graphs covering the period from November 15, 1914 to September 30, 1918).

WATER SUPPLY

If the comparison of annual run-off at the Moran and Neeley gaging stations which has been included in the seven preceding reports, is extended to include the year ending September 30, 1927 the data may be summarized as follows:

DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY (WATER RESOURCES BRANCH)

HYDROGRAPH FOR JACKSON LAKE, BEGINNING OCTOBER

STORAGE IN ACRE-FEET

800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000

October November December January February March April May June

1921-22
1925-26
1922-23
1916-19
1921-22
1920-21
1923-24
1924-25
1924-25
1926-27
1918-20
1927-28
1922-23
1918-19
1920-21
1923-24
1924-25
1925-26

LOGICAL SURVEY WATER RESOURCES BRANCH

HYDROGRAPH FOR JACKSON LAKE, BEGINNING OCTOBER 1, 1918. PLATE II.

Washington
Wash.

January | February | March | April | May | June | July | August | September

800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000

STORAGE IN ACRE-FEET

1917-18
1925-26
1922-23
1921-22
1913-24
1912-13
1918-19
1920-21
1924-25
1926-27
1923-24
1919-20

Station	Mean annual run-off for 24 years ending September 30, 1927	Run-off for year ending September 30, 1927	% of Mean
Moran	1,107,000	1,417,000	128.0
Neeley	6,522,000	6,470,000	99.2

In this tabulation all Moran records beginning with the year 1910 have been corrected to take account of the storage in Jackson Lake which has been held over from one climatic year to another. Neeley records, on the other hand, represent actual totals measured at the gaging station except during the last two years of the period when adjustments have been made to take into account the American Falls Reservoir hold-overs. Variations in the amount diverted for irrigation, as well as in the quantity of inflow entering between the two stations, also affect the Neeley comparisons. If dependable corrections could be computed to cover all these different factors, their application to the Neeley data would undoubtedly make the records at the latter station more consistent with those at Moran. This has not been attempted because the development of such corrections from the data available would be difficult, if not almost impossible, and for the further reason that total annual run-off is often not a true measure of summer water supply.

Additional information concerning the latter together with comparisons showing the relative normal flow supply and use by months will be found further on in the text of this report and in the tables on Plate XVIII.

This total annual run-off from the drainage area above the Moran station was the largest for any year since the one ending September 30, 1913 while the Neeley records, without attempting detailed analysis of the intervening factors, indicate the largest total for any year since the one ending September 30, 1918.

STORAGE VERSUS FLOOD WATER DIVERSIONS

Because of the fact that both Jackson Lake and American Falls Reservoirs were filled to capacity some time before the regulation of normal flow diversions began, no conflict as to the right to store water under state permits as opposed to direct flow use under prescriptive or non-record rights existed during the 1927 season.

A small unauthorized increase in the Henry's Lake storage attributable to inattention on the part of the local gate-tender was adjusted before the end of the regulation period.

DOMESTIC WATER

The practice first inaugurated in 1920 of making no allowance of water for domestic or culinary use to canals whose entire rights had become invalidated, was again continued.

Ample stored water was available to make up all deficiencies and, in the very few instances where ownership rights were inadequate, this was purchasable for 1927 use upon very reasonable terms. One sale of 2,000 acre-feet at $0.35 per acre-foot and a few of smaller amounts at unknown prices constituted the total of such transactions for the season.

TEMPORARY TRANSFERS AND EXCHANGES

In view of the protest filed at the annual water master election of March 7, 1927 by the Fall River Irrigation Company and others (see page 2) a request was made by the water master for a departmental ruling as to whether or not temporary transfers or exchanges of normal flow for storage would be permissible during 1927.

The following paragraphs quoted from a letter dated March 12, 1927 and signed by Geo. N. Carter, Commissioner of Reclamation are self-explanatory:

"Especial reference is made to the matter contained in the second paragraph of your letter; namely, request for a statement from me as to the position which will be taken upon the question of temporary transfer of water and exchange of normal flow for storage, as this matter has been before the waterusers of District 36 in the preceding years and particularly the year 1926.

So far as I am aware at this time, I am quite fully convinced that the position taken upon this question by W. G. Swendsen, former Commissioner of Reclamation, is sound, and I do not expect to deviate therefrom, as same is quite fully set out in his letter of March 17, 1926, addressed to you as watermaster of Water District 36.*

In accordance with the foregoing, it is my understanding that unless and until the protest voiced by the Fall River Irrigation Company and others, at the regular annual meeting, is removed, there is no authority for you, as watermaster, to allow the temporary transfer of water, or the exchange of normal flow for storage."

No attempt was made therefore to utilize either of these practices at any time during the season.

Under the authority conferred by Section 5560 of the Idaho Compiled Statutes normal flow of Fall River was substituted for storage released from Jackson Lake Reservoir in order to make delivery of the latter to the Enterprise Irrigation District, all in accordance with the procedure adopted in previous years.

*See pages 5 and 6 of 1926 report on Water Distribution and Hydrometric Work in District No. 36.

LITIGATION

In April 1927 the Twin Falls Canal Company started a suit in the District Court of the Eleventh Judicial District against George N. Carter as Commissioner of Reclamation and G. Clyde Baldwin as both Deputy Commissioner of Reclamation and Water Master of District No. 36, for the purpose of abrogating or changing the interpretation heretofore given to the so-called Foster Decree in which the principal water rights of all lower valley canals are fixed.

Since the proposed changes would chiefly affect the rights of the Minidoka Project of the U. S. Bureau of Reclamation, a motion was filed asking that the Secretary of the Interior be made a party defendant in the action. After a hearing before Judge Wm. A. Babcock at Twin Falls, Idaho, on June 1, 1927, this motion was granted. Shortly thereafter, upon motion by attorneys representing the interests of the Government, the case was removed from the State to the Federal District court. It is now understood that a demurrer has been filed by the plaintiffs for the purpose of having the case remanded to the jurisdiction of the State courts but no date for a hearing or argument on this demurrer had been set at the time this resume was written.

The status of all other pending litigation pertaining to the administration of Water District No. 36 remains practically as outlined on pages 17 to 19 of the 1926 report, although some progress is understood to have been made during the past year toward the settlement, by stipulated agreement, of the Woodville or "High Water Decree" case.

GROS VENTRE FLOOD

At about 10 A. M. on May 18, 1927 the large landslide which on June 23, 1925 blocked the channel of Gros Ventre River at a point about two miles above Kelly, Wyoming, suddenly gave way and released some sixty thousand acre-feet of impounded water. The resultant flood caused the death of six persons, practically wiped out the small settlement of Kelly, carried away several important bridges and caused extensive damage to farm lands, irrigation structures and highways within its path.

The flood peak reached the Heise gaging station at 10:50 A. M. May 19 and is estimated to have been equivalent to a discharge of about 60,000 second-feet (uncertainty as to the time when portions of the controlling Anderson Dam washed out makes exact discharge determination impossible). Below this point, in the more open valley, the river overflowed considerable areas of farm land and thus flattened out or spread the short duration maximum to such an extent that little damage resulted at points below Rigby and Lorenzo. In fact the flood peak reached at the Woodville gaging station below Idaho Falls was by no means abnormal and was later exceeded during the ordinary June high water period.

Much of the large amount of drift brought down at this time grounded upon bars in the river channel between Heise and Lorenzo. The net result seems to have been the direction of the main river current more to the southward with consequent increased danger of developing a new channel across the country toward Rigby.

Had the extreme high discharge been continued over a much longer period of time something of this kind would almost assuredly have occurred.

Even now the upper valley is still menaced by this southward trend of the river which, aside from the actual damage at the time, represents the most serious result of the flood.

The lake created by the original slide is now so reduced in size and capacity as to offer little potential danger for the future unless it should be enlarged as a result of new slides - a contingency by no means unlikely if the unstable appearance of the adjacent terrain affords any criterion.

CANAL DELIVERIES

The amount of water diverted daily through each canal heading in Snake River* during the period from June 1 to September 30, 1927 is shown on Plates III, IV, V and VI.

Following the practice inaugurated in the 1919 report, except for a few of the smaller canals where estimates were used, all data were recomputed prior to their presentation herein. This practice affords opportunity to more thoroughly analyze the records at each station than is possible in the limited time available during the field season. Wherever changes in rating have been noted, either because of the growth of vegetation, variation of checks or for any other reason, all meter measurements, notes and other information have been carefully reviewed to the end that the final computed data

*By a decision of the Board of Geographic Names the stream known locally as South Fork of Snake River is considered to be the upper portion of the main stream and given no other designation than Snake River.

DAILY DISCHARGE IN SECOND FEET OF CANALS DIVERTING FROM SNAKE RIVER FOR JUNE 1927.

NAME OF CANAL	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	TOTAL
RILEY	0	0	0	0	0	0	0	0	2	4	13	16	17	0	22	25	23	24	24	29	28	27	28	25	31	30	29	29	27	26	473
ANDERSON	238	241	233	238	240	300	314	314	316	260	262	267	268	270	363	363	354	453	482	486	475	467	483	496	506	493	470	444	444	452	11120
[illegible] ROCK & WILLOW CREEK	[illegible]	61	61	71	80	59	61	80	74	74	74	74	78	438	404	431	451	425	435	435	391	367	575	623	626	659	625	564	562	538	9756
FARMERS FRIEND	123	121	132	144	172	161	184	181	181	176	180	185	183	219	416	421	431	419	417	410	391	391	422	442	429	421	414	378	340	330	8492
ENTERPRISE	30	33	48	48	40	48	49	32	42	[illegible]	[illegible]	[illegible]	173	132	178	176	233	253	264	262	257	253	267	267	250	256	260	266	237	260	5070
[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6	0	0	8	15
[illegible] & CRAIG	4	4	5	5	5	5	6	6	8	8	6	8	10	8	6	6	5	[illegible]	8	11	12	13	18	21	22	24	25	13	15	13	318
[illegible]	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
ROSS & RAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	3	6	3	8	6	6	7	6	6	[illegible]	71
BUTLER ISLAND	18	18	19	22	22	22	21	22	24	19	0	0	0	0	0	0	0	0	0	0	28	24	30	32	31	31	40	44	37	46	390
STEELE	4	4	3	3	3	3	3	3	3	3	6	6	6	3	9	7	10	10	10	7	7	11	8	13	14	12	12	13	14	13	233
HARRISON	177	186	286	285	286	223	236	230	234	267	266	296	296	338	473	459	474	506	500	465	314	490	490	481	505	351	461	524	505	509	11493
CHENEY	4	4	4	3	7	7	4	4	4	4	3	3	3	4	2	7	7	7	7	8	3	8	8	3	8	3	3	2	7	[illegible]	[illegible]
BOWMAN	3	3	4	3	3	3	6	4	6	6	3	3	3	220	361	311	254	285	255	272	236	341	262	276	316	253	316	238	280	298	4918
RUDY	72	121	140	166	97	133	138	138	144	203	231	233	251	289	265	213	310	345	357	349	328	351	328	310	321	64	310	330	335	347	7073
KITE & NORD	0	0	0	1	1	1	1	1	1	1	4	1	3	4	3	3	3	5	3	6	3	6	6	6	7	8	8	8	7	7	116
BURGESS	380	430	474	488	456	503	510	528	555	601	693	724	771	803	1030	1030	1060	1060	1070	1070	1050	1070	1165	1070	1080	1060	980	1070	1060	1080	24342
CLARK & EDWARDS	30	25	28	31	34	38	41	44	48	44	39	39	32	41	[illegible]	91	99	101	103	99	107	107	115	107	110	116	79	114	111	107	2189
LOWDER	1	10	12	19	27	13	14	24	21	22	22	23	31	30	9	37	42	40	28	25	25	35	33	28	49	37	47	51	32	36	910
JENNINGS	1	1	1	1	3	6	7	7	6	6	5	5	7	7	9	8	6	14	12	10	9	7	8	13	14	14	13	13	16	14	240
LA BELLE	40	42	43	43	37	33	62	67	77	71	93	123	125	108	101	108	130	130	131	136	134	143	143	179	190	204	133	141	144	113	3232
CONSOLIDATED FEEDER	24	16	20	49	38	83	67	81	83	80	85	91	83	123	105	110	107	113	127	168	170	182	168	181	160	146	155	144	149	137	3320
LENROOT	30	20	24	43	47	43	31	65	68	[illegible]	118	119	132	163	163	154	173	170	183	202	210	193	221	258	231	226	224	193	161	172	4165
REID	99	100	102	122	132	99	109	89	78	136	109	103	124	163	170	166	190	194	190	163	212	194	207	255	207	205	186	174	169	184	3591
TEXAS FEEDER	248	240	258	302	329	384	426	399	340	430	439	434	437	437	426	441	412	399	384	399	401	374	343	292	446	437	441	439	414	418	11676
NELSON COREY	2	2	2	3	4	5	6	7	8	7	7	13	18	20	17	11	7	36	36	30	25	31	46	55	44	42	32	29	25	30	597
HILL PETTINGER	0	0	0	0	0	0	2	2	2	2	2	3	3	4	4	4	3	3	3	3	3	3	3	3	3	4	4	3	3	3	49
MORGAN	4	4	6	6	6	6	10	10	9	10	8	10	10	12	10	10	10	10	10	12	12	12	12	12	12	10	12	12	12	12	276
ROSTAN	8	8	10	10	10	10	10	10	4	10	8	10	10	12	4	8	8	4	4	8	9	9	8	10	10	10	8	10	10	10	262
LONG ISLAND	71	111	146	153	157	173	184	184	151	145	169	159	203	329	323	313	403	379	349	397	424	441	441	424	423	436	411	423	424	405	8776
ISLAND	97	90	106	108	118	118	119	133	126	124	120	124	124	121	123	146	137	126	139	130	137	154	174	182	186	205	196	192	185	194	4223
RIGBY	94	93	97	103	103	105	110	114	115	109	114	130	140	162	159	162	219	221	224	230	213	197	233	218	225	220	193	219	218	209	4936
DILTS	3	3	3	3	3	3	3	8	7	6	17	24	24	30	29	29	30	31	31	33	32	28	32	43	44	34	36	35	36	33	675
WEST LABELLE	20	20	19	20	22	33	33	43	33	60	92	94	93	92	92	101	99	119	122	123	127	115	136	146	156	136	122	128	129	119	2665
PARKS & LEWISVILLE	202	178	233	261	198	180	192	221	233	203	198	221	213	225	218	316	329	324	380	397	422	413	422	429	406	364	422	422	415	400	9077
NORTH RIGBY	0	0	37	61	43	43	43	42	37	30	60	61	60	38	37	37	35	34	34	70	72	73	76	67	27	69	66	63	58	57	1667
WHITE	7	7	7	8	9	10	11	17	19	14	11	13	13	11	10	10	9	9	8	9	15	14	16	19	25	22	23	29	30	35	398
BRAMWELL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	8	7	11	0	0	6	14	13	14	15	13	14	13	12	147
ELLIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	9	10	10	9	10	10	9	81
INDEPENDENT	20	26	31	33	34	34	34	34	34	35	41	40	31	32	33	41	37	39	32	38	43	43	46	47	47	51	48	51	32	32	1160
BUTTE & MARKET LAKE	137	136	139	167	154	130	142	130	133	0	0	0	168	182	276	254	303	335	369	363	369	391	394	354	383	357	379	379	363	335	7140
SHEPPARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	3	4	4	0	0	4	4	4	4	4	4	42
OSGOOD	34	27	27	28	23	29	32	64	62	82	83	79	70	70	79	80	79	102	102	102	102	105	105	107	103	104	105	105	104	105	2913
KENNEDY & BURGRAFF	15	11	10	13	11	12	7	6	7	6	8	8	8	8	7	9	9	8	8	12	12	12	12	12	10	11	12	11	12	11	296
BEAR ISLAND & SMITH	0	0	0	0	0	0	1	2	1	2	1	0	2	6	3	9	1	0	4	2	0	0	4	4	2	3	3	3	3	2	63
IDAHO	123	111	112	111	131	160	159	165	255	263	347	476	459	624	681	636	655	683	643	666	643	677	716	733	736	725	729	738	691	639	14646
GREAT WESTERN	232	233	236	240	244	250	254	300	320	304	342	352	366	397	435	451	469	463	451	462	478	484	498	499	500	496	481	472	451	446	11606
PORTER	78	77	76	76	78	77	98	116	170	171	173	173	173	224	250	232	277	275	259	277	286	284	290	290	290	295	290	272	266	255	6151
IDAHO FALLS CITY MAIN	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0	0	4	0	0	[illegible]
WOODVILLE	45	47	47	48	32	46	46	56	57	58	58	59	62	71	91	85	80	78	78	79	86	85	90	91	93	88	90	90	82	80	2120
SNAKE RIVER VALLEY	76	74	45	0	56	212	334	388	402	491	597	621	617	611	673	727	727	635	613	679	708	710	704	716	712	683	623	631	645	623	13331
TOTAL DIVERSIONS HEAD TO WOODVILLE	2590	2955	3344	3463	3606	3723	4403	4284	4474	4777	5142	5429	5814	7914	8062	8519	8790	9032	8930	9114	9511	9526	9625	9715	10006	9684	9576	9636	9420	9159	258751
RESERVATION	0	0	0	0	0	0	0	0	138	324	402	430	327	679	794	792	765	775	800	792	794	784	803	801	767	776	781	771	779	763	[illegible]
BLACKFOOT	66	63	74	68	80	111	126	150	195	232	250	318	306	296	294	324	285	314	312	326	330	330	311	332	373	341	299	312	296	321	[illegible]
NEW LAVA SIDE	93	93	98	98	99	101	103	105	108	110	110	112	149	162	163	163	162	132	157	177	164	164	177	172	170	163	164	167	163	171	4210
PEOPLES	279	290	221	229	229	247	330	383	412	409	415	459	497	501	561	545	543	539	529	597	579	587	591	605	597	556	597	597	559	555	14344
AMERICAN FALLS	672	672	672	672	672	673	719	814	825	838	867	906	927	981	1030	1080	1120	1120	1120	1120	1120	1150	1160	1150	1130	1120	1120	1120	1120	1120	28273
CORBETT	66	68	74	76	66	62	87	93	95	99	104	103	110	185	129	138	137	145	144	155	166	162	138	178	164	133	134	133	139	137	3591
NIELSEN HANSEN	2	1	6	9	9	12	10	15	9	10	17	17	17	25	24	25	13	10	14	14	21	19	18	20	22	24	21	22	31	32	483
RIVERSIDE	84	74	78	81	85	86	84	106	108	104	104	105	114	110	112	115	114	117	118	115	118	127	127	144	123	123	129	127	130	121	3377
DANSKIN	70	69	66	66	69	147	207	207	207	209	221	196	209	215	213	215	212	220	215	212	212	211	202	219	211	179	183	187	192	175	5616
TREGO	36	36	34	33	38	41	44	53	56	51	58	58	68	71	68	68	63	67	63	62	67	64	67	78	71	75	76	72	74	70	1778
HENDRICK	46	46	38	38	34	40	40	41	40	41	39	49	47	49	48	49	48	39	54	54	57	64	76	81	65	78	67	57	53	54	1329
WATSON	33	33	33	35	37	135	109	111	116	121	122	122	123	123	125	123	123	122	121	118	118	118	115	118	120	141	122	124	126	127	3443
PARSONS	29	29	29	34	34	31	36	37	37	37	31	36	35	35	35	33	35	34	34	34	34	33	32	33	34	35	34	33	33	35	1011
TOTAL DIVERSIONS WOODVILLE TO BLACKFOOT	1477	1464	1478	1489	1508	1708	1883	2113	2344	2584	2770	2911	3130	3374	3396	3678	3620	3723	3680	3780	3774	3815	3858	3891	3865	3828	3723	3722	3691	3662	90381
SMITH MAXWELL	8	8	8	8	9	10	11	14	17	17	17	17	17	17	17	17	17	16	16	15	14	13	13	23	25	12	13	18	25	16	442
TOTAL DIVERSIONS BLACKFOOT TO [illegible]	1485	1472	1486	1497	1517	1718	1936	2129	2361	2601	2787	2928	3147	3391	3413	3695	3637	3739	3696	3795	3788	3828	3871	3914	3890	3840	3736	3740	3716	3678	[illegible]
NORTH SIDE MINIDOKA	1010	1000	1050	1070	1080	1130	1260	1410	1470	1500	1510	1510	1520	1550	1570	1580	1560	1570	1470	1470	1570	1570	1530	1510	1420	1420	1400	1460	1370	1310	42240
SOUTH SIDE MINIDOKA	553	538	583	634	658	778	858	959	1010	1030	1040	1040	1040	1040	1030	1040	1030	1040	1030	1030	1030	1030	1030	1030	1030	1040	1040	1040	1030	1030	30290
TOTAL MINIDOKA CANALS	1563	1538	1633	1704	1738	1908	2118	2369	2480	2530	2550	2550	2560	2590	2620	2620	2590	2610	2600	2530	2600	2600	2600	2540	2450	2460	2530	2500	2400	2340	72640
PA LATERAL	56	56	56	56	56	56	56	56	56	56	56	56	56	56	55	55	55	55	55	55	55	55	55	55	55	56	55	55	55	55	[illegible]
NORTH SIDE TWIN FALLS	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	3010	[illegible]
MILNER LOW LIFT	74	77	81	91	89	80	94	90	94	60	102	102	104	102	102	103	104	92	104	105	106	106	105	104	104	105	104	103	102	101	[illegible]
SOUTH SIDE TWIN FALLS	2860	2850	2850	2880	2910	2910	2970	3100	3170	3070	3250	3320	3370	3380	3370	3370	3370	3370	3310	3310	3320	3320	3370	3310	3310	3350	3320	3320	3320	3330	96180
TOTAL TWIN FALLS CANALS	6010	6033	6077	6067	6066	6056	6130	6186	6330	6196	6418	6488	6529	6548	6537	6543	6539	6467	6469	6480	6501	6491	6500	6499	6479	6511	6494	6482	6487	6477	191805

DAILY DISCHARGE IN SECOND FEET OF CANALS DIVERTING FROM SNAKE RIVER FOR JULY 1927.

NAME OF CANAL	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	TOTAL
RILEY	28	22	30	29	31	21	31	29	24	26	27	19	17	23	25	29	26	26	24	23	24	23	23	23	22	24	23	23	11	23	6	740
ANDERSON	402	376	363	366	370	363	351	346	344	326	324	323	351	472	399	376	325	389	380	313	317	318	309	346	384	380	362	366	355	360	337	11120
EAGLE ROCK & WILLOW CREEK	502	494	484	482	483	476	448	442	470	564	538	616	624	664	642	618	578	643	437	566	612	620	618	612	603	601	589	576	601	597	606	17716
FARMERS FRIEND	361	338	312	306	316	310	313	344	356	364	346	364	408	406	411	378	349	374	354	332	336	361	366	346	394	382	366	366	326	391	378	10832
ENTERPRISE	284	209	207	209	217	183	178	216	214	198	183	189	212	219	218	216	223	213	191	192	201	218	209	220	211	207	207	194	200	215	217	6446
NELSON	0	0	0	0	0	0	0	0	0	0	0	3	3	3	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	[illegible]
MATTSON & CRAIG	11	9	8	8	8	9	8	5	6	10	12	8	13	13	13	18	14	12	21	21	20	18	14	19	18	18	17	16	13	13	13	417
SAND CREEK	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	2	2	1	1	5	3	1	3	5	5	5	5	4	4	4	4	55
RICKS & RAND	9	7	8	8	8	7	7	7	8	6	6	6	6	6	6	6	6	5	6	5	4	5	6	6	6	5	5	5	5	5	5	189
BUTLER ISLAND	46	44	46	46	46	46	46	46	46	47	46	46	44	51	52	48	51	50	51	52	52	57	51	51	50	50	57	55	55	54	54	1531
STEELE	7	12	7	7	7	7	3	11	11	11	6	8	6	9	12	11	14	13	8	2	5	6	6	6	5	6	6	7	5	5	5	254
HARRISON	396	482	503	478	453	473	509	503	497	484	495	444	349	469	505	434	505	481	475	490	484	506	458	512	509	481	509	509	526	522	509	15216
CHENEY	7	6	7	7	7	7	7	7	7	7	7	7	3	7	6	6	6	5	6	6	6	6	6	6	6	6	5	4	4	4	4	186
BOOMER	244	318	312	284	280	226	169	288	234	249	320	358	278	262	309	304	293	356	309	320	339	339	330	341	334	347	330	338	347	344	348	9744
RUDY	350	321	326	333	286	264	303	275	278	259	264	275	268	297	294	301	283	253	209	190	202	197	199	226	226	223	210	228	233	230	228	7657
RYE & NORD	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	8	9	7	8	7	7	6	7	3	6	6	5	5	6	6	6	203
BURGESS	1030	1010	1070	1030	1050	1050	1030	1040	1000	1000	1030	1000	964	1000	964	1000	964	939	873	859	904	923	947	915	915	901	891	883	919	923	923	29911
CLARK & EDWARDS	128	96	107	104	114	107	105	105	112	104	107	85	84	84	76	90	69	77	88	73	72	72	72	67	68	67	54	48	72	70	69	2645
LORDER	36	18	17	18	23	42	48	43	36	46	42	39	29	34	28	32	26	28	32	44	45	43	41	37	36	35	36	38	41	43	43	1083
JENNINGS	5	6	5	5	4	7	9	9	10	6	7	7	15	16	14	13	3	3	13	7	7	7	7	7	7	7	11	8	7	3	13	241
LA BELLE	104	92	107	104	134	149	142	138	143	127	128	154	127	133	150	139	108	124	136	144	124	113	145	134	134	128	119	118	100	99	123	3947
CONSOLIDATED FEEDER	136	80	97	131	134	123	186	159	155	142	146	128	109	148	130	78	90	93	124	141	141	137	127	124	116	111	104	127	124	132	137	3874
LENROOT	132	102	86	94	121	126	114	119	141	105	111	105	61	179	199	183	136	95	184	164	173	165	151	150	138	118	105	109	128	119	118	3992
REID	76	148	146	114	132	93	173	175	166	150	150	138	104	159	141	115	125	117	112	121	124	154	138	137	131	130	147	150	146	144	140	4189
TEXAS FEEDER	377	292	284	218	266	302	265	238	248	207	197	144	111	114	113	94	61	50	28	35	174	221	221	197	186	173	167	164	204	251	274	5911
NELSON COREY	11	11	7	7	13	8	2	21	24	20	23	21	18	19	19	10	4	10	10	10	14	16	15	15	15	16	14	11	16	14	14	432
HILL PETTINGER	4	4	3	3	3	2	0	3	4	4	4	4	3	4	4	2	1	2	2	2	4	3	3	3	3	3	3	3	3	3	3	92
MORGAN	12	6	12	12	12	12	12	12	6	2	4	4	4	12	12	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	142
BOSYAN	12	6	10	10	10	10	10	10	4	2	4	4	4	10	10	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	120
LONE ISLAND	377	342	340	341	331	320	297	282	343	328	322	334	296	333	314	349	351	303	308	336	318	284	290	257	286	330	345	344	326	314	306	9917
ISLAND	179	167	159	162	156	183	187	188	183	174	167	162	142	162	182	163	142	119	111	137	153	179	113	106	93	157	162	163	147	140	137	4728
RIGBY	199	182	202	190	222	226	223	225	230	221	216	225	186	243	238	233	219	196	189	165	146	164	162	158	157	157	158	156	156	155	155	5934
DILTS	24	20	19	19	20	33	30	36	35	29	33	26	30	34	33	31	10	5	26	28	26	28	32	26	24	26	25	23	22	21	23	797
WEST LABELLE	110	95	94	93	117	114	111	127	126	114	117	113	97	113	106	100	92	83	90	109	95	91	96	79	78	71	67	91	65	65	86	3005
PARKS & LEWISVILLE	341	341	346	340	353	345	353	368	366	316	364	359	346	384	375	359	357	333	353	366	341	350	361	326	357	353	350	353	350	332	329	10921
NORTH RIGBY	31	78	77	78	64	63	77	75	82	77	78	70	63	69	67	64	61	57	63	51	49	48	51	46	46	44	48	47	45	51	50	1846
WHITE	14	14	14	14	13	13	14	13	13	12	12	11	10	11	10	15	15	10	12	8	6	6	6	6	5	7	6	3	4	1	4	309
BRAMWELL	5	2	8	10	10	10	10	8	7	7	4	3	3	7	9	9	3	7	6	14	13	12	13	10	8	6	1	7	0	0	0	216
ELLIS	3	5	4	4	6	6	5	5	5	4	3	3	5	6	0	0	4	2	4	5	4	4	4	4	2	0	0	0	0	0	0	96
INDEPENDENT	32	55	32	51	32	51	50	47	47	46	49	49	48	48	48	45	47	47	47	43	44	41	41	40	39	41	41	41	41	43	43	1427
BUTTE & MARKET LAKE	287	274	236	196	256	256	250	226	229	223	222	211	192	240	258	266	268	277	277	331	328	325	241	276	296	290	319	325	271	262	240	8144
SHEPPARD	4	4	4	0	4	4	4	4	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	4	5	53
OSGOOD	102	102	84	0	100	95	98	100	99	98	99	102	101	103	107	105	104	0	107	109	110	107	107	72	105	105	103	106	100	79	35	2903
[illegible] & BURGRAFF	11	9	11	9	12	13	11	14	13	11	12	13	13	13	13	13	14	0	16	13	16	17	16	14	14	12	11	11	11	13	10	373
BEAR ISLAND & SMITH	4	1	3	1	0	0	0	4	4	2	6	7	1	3	3	1	0	2	4	4	6	3	4	0	5	5	1	4	5	3	0	90
IDAHO	626	651	674	535	563	607	609	603	700	660	752	738	761	761	708	689	670	746	704	716	742	773	777	793	783	783	778	769	789	771	766	22008
GREAT WESTERN	130	0	0	0	272	423	432	460	499	492	482	491	500	505	504	498	493	496	423	394	456	478	476	470	470	466	462	458	462	464	460	12516
PORTER	85	0	0	0	165	234	252	270	281	282	281	291	290	291	291	282	284	286	224	224	231	281	281	281	279	279	281	274	272	279	273	7379
IDAHO FALLS CITY MAIN	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	134
WOODVILLE	80	70	71	68	67	97	96	94	94	92	90	88	87	84	92	92	96	95	92	98	98	100	100	78	76	100	98	96	94	90	70	2768
SNAKE RIVER VALLEY	539	567	523	506	555	561	556	580	651	661	685	710	712	785	733	712	685	723	729	735	737	742	758	746	733	758	762	760	758	734	613	21050
TOTAL DIVERSIONS HEISE TO WOODVILLE	8781	7484	7605	7089	7885	8023	8104	8336	8759	8855	8636	8570	8048	8975	8803	8633	8203	8104	7809	8028	8381	8518	8430	8298	8581	8436	8386	8575	8363	8451	8262	258386
RESERVATION	703	692	664	632	618	628	679	743	805	763	763	796	765	780	822	788	777	744	619	587	594	587	583	591	582	564	542	508	488	466	417	20395
BLACKFOOT	284	289	282	289	317	301	300	373	353	311	287	308	316	338	342	342	329	303	322	336	376	376	348	355	353	340	329	332	330	334	368	9971
NEW LAVA SIDE	176	65	6	4	4	3	168	175	186	177	186	184	181	181	10	170	173	180	139	147	150	150	150	145	143	142	149	152	152	132	142	4138
PEOPLES	469	611	477	466	453	469	491	467	503	236	229	246	469	571	585	333	333	319	427	434	521	487	434	473	431	412	385	393	412	417	429	13573
AMERICAN FALLS	1140	650	3	3	3	717	1080	1070	1150	1160	1180	1190	1190	1180	1200	1200	1210	1210	1210	1230	1230	1280	1240	1250	1240	1240	1250	1250	1250	1230	1240	33676
CORBETT	139	132	125	118	116	120	118	140	138	149	146	167	161	176	168	165	164	160	149	163	164	181	131	120	100	90	103	121	123	121	127	4275
NIELSEN HANSEN	56	22	16	13	13	12	11	10	10	10	7	6	6	4	4	4	4	2	2	2	2	0	5	5	2	2	6	5	0	3	10	234
RIVERSIDE	122	117	110	105	121	118	126	132	135	146	142	133	133	138	140	136	135	96	108	94	102	100	100	100	0	0	114	108	109	108	104	3430
DANSKIN	151	145	133	129	130	196	201	185	239	241	233	226	223	231	236	225	216	204	186	187	184	180	181	175	177	181	183	180	182	180	182	5899
TREGO	64	57	54	49	63	63	70	65	72	76	68	65	62	71	70	68	62	56	59	63	63	67	65	68	61	56	53	44	38	35	38	1870
WEARYRICK	54	54	53	52	48	48	48	46	44	44	44	61	53	58	57	56	54	51	57	43	41	13	44	41	42	41	41	43	41	40	40	1483
WATSON	128	124	121	118	117	116	114	110	108	109	123	122	117	113	113	110	114	112	104	102	98	98	101	98	97	94	95	94	106	97	100	3399
PARSONS	38	37	34	32	35	35	34	33	31	30	34	33	32	30	36	33	33	31	26	22	22	21	21	21	21	20	21	20	20	20	23	870
TOTAL DIVERSIONS [illegible] TO BLACKFOOT	3808	2860	2019	2525	2840	3416	3401	3468	3703	3472	3444	3534	3713	3871	3783	3832	3806	3670	3428	3410	3512	3415	3403	3442	3233	3182	3300	3272	3271	3248	3320	102279
SMITH MAXWELL	16	14	12	11	10	10	9	8	7	6	5	4	2	3	1	0	0	0	0	0	0	13	12	12	12	11	19	19	15	35	27	263
TOTAL DIVERSIONS BLACKFOOT TO [illegible]	3808	2874	2501	2540	2520	2836	3409	3436	3713	3478	3449	3538	3713	3874	3744	3850	3806	3670	3428	3410	3512	3428	3415	3424	3165	3159	3319	3291	3186	3263	3307	102553
NORTH SIDE MINIDOKA	1310	1310	1310	1300	1340	1420	1480	1560	1560	1570	1570	1570	1570	1570	1570	1570	1570	1580	1580	1580	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	1570	47520
SOUTH SIDE MINIDOKA	1010	1000	1010	1020	1020	1030	1042	1033	1040	1070	1070	1070	1070	1070	1070	1060	1070	1060	1060	1060	1060	1070	1070	1060	1060	1060	1060	1060	1060	1060	1040	32340
TOTAL MINIDOKA CANALS	2320	2310	2320	2320	2360	2450	2520	2570	2600	2640	2640	2640	2640	2640	2640	2630	2640	2640	2660	2640	2630	2640	2640	2640	2650	2630	2630	2630	2630	2650	2610	79740
PA LATERAL	56	56	56	56	56	55	55	56	57	57	57	57	57	57	57	57	57	58	58	57	57	57	57	57	57	57	57	57	57	57	57	1753
NORTH SIDE TWIN FALLS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3070	[illegible]	94050
MILNER LOW LIFT	100	96	100	102	101	102	102	102	102	103	102	102	103	102	102	103	104	104	95	101	101	93	89	85	97	97	91	96	99	100	103	3080
SOUTH SIDE TWIN FALLS	3280	3110	3250	3270	3310	3350	3390	3440	3465	3580	3700	3700	3665	3640	3640	3630	3630	3600	3570	3470	3470	3470	3540	3500	3520	3630	3600	3560	3600	3600	3700	109160
TOTAL TWIN FALLS CANALS	6462	6439	6419	6407	6506	6507	6577	6707	6669	6780	6899	6879	6865	6859	6319	6820	6841	6863	6578	6698	6708	6360	6825	6785	6696	6834	6768	6713	6826	6806	6930	208340

DAILY DISCHARGE IN SECOND FEET OF CANALS DIVERTING FROM SNAKE RIVER FOR AUGUST 1927.

NAME OF CANAL	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	TOTAL
[illegible]	24	28	27	26	25	25	26	23	24	24	23	23	23	23	22	22	21	20	19	19	19	19	14	14	14	14	13	13	12	13	14	633
ANDERSON	355	355	351	376	402	396	392	390	390	386	383	382	379	380	384	377	370	366	360	361	361	367	362	362	356	353	351	351	349	352	351	11491
EAGLE ROCK & [illegible] CREEK	416	412	501	[illegible]	460	463	[illegible]	436	474	414	413	468	466	476	478	395	393	385	416	417	414	422	420	420	416	412	417	414	412	342	342	[illegible]
[illegible]	373	396	403	394	396	396	[illegible]	406	403	403	403	403	393	363	342	356	361	213	201	208	199	203	203	202	197	194	195	199	193	199	190	9125
[illegible]	274	273	273	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	182	139	130	139	136	144	131	131	174	180	183	155	166	153	156	161	183	161	[illegible]
[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	2	1	0	0	2	1	1	1	1	1	1	1	1	1	34
[illegible]	7	6	6	7	6	6	5	5	6	6	7	7	6	10	9	4	8	7	7	9	9	10	9	4	7	6	8	2	1	1	1	186
[illegible] & [illegible]	3	3	6	7	3	3	2	2	3	3	3	3	3	4	4	3	3	4	4	4	4	5	5	5	5	5	5	5	5	5	2	131
[illegible]	3	6	6	6	3	3	4	3	2	3	3	3	3	3	3	3	3	3	2	2	2	3	2	2	3	3	3	3	3	3	3	103
[illegible] ISLAND	55	56	54	55	56	56	56	56	55	57	56	54	57	54	52	40	40	10	32	32	34	34	34	34	34	32	32	32	32	32	33	1349
STEELE	5	5	5	5	6	6	6	6	6	5	5	5	5	4	6	11	10	10	10	9	9	10	9	9	8	8	8	8	8	8	8	223
HARRISON	307	322	322	312	312	312	312	309	306	306	303	490	472	417	329	318	162	162	214	214	213	221	316	312	312	307	301	218	216	218	221	[illegible]
[illegible]	6	6	6	6	6	6	6	5	5	5	5	4	4	3	3	3	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	117
BROWER	347	343	341	334	327	311	298	298	294	308	291	303	294	291	206	204	171	142	134	124	120	128	119	117	114	257	256	256	257	254	259	7625
[illegible]	228	223	214	224	221	221	191	162	148	149	148	149	157	155	161	153	164	184	172	132	179	181	174	173	171	150	145	146	176	159	136	5344
KITE & FORD	7	7	7	7	8	8	8	7	7	6	6	5	6	5	5	5	6	6	6	5	5	5	4	4	4	4	3	4	4	4	4	171
[illegible]	927	942	919	897	883	879	883	895	891	879	859	899	831	771	776	612	616	624	646	724	716	728	712	720	720	693	693	701	693	697	705	24156
CLARK & EDWARDS	71	72	67	68	69	68	68	68	68	68	68	67	68	68	68	66	67	68	67	66	65	67	66	64	63	61	60	60	59	60	60	2045
[illegible]	42	42	39	34	37	36	32	32	44	41	42	41	42	43	44	30	28	28	26	26	26	27	26	26	30	38	35	34	30	39	40	1034
JENNINGS	3	3	6	8	8	8	11	10	11	10	10	10	10	10	10	10	10	9	9	9	8	9	9	9	9	7	6	4	3	4	3	250
LA BELLE	174	135	148	142	136	126	138	143	137	136	129	117	113	131	139	93	103	161	90	82	96	107	93	90	130	113	113	120	118	121	128	3620
CONSOLIDATED FEEDER	132	130	123	117	114	111	108	109	109	99	99	98	86	91	39	41	39	83	99	90	91	98	91	111	101	97	82	81	103	104	80	2956
LENROOT	124	120	97	103	90	82	75	79	67	120	115	118	102	115	90	78	70	58	56	64	68	84	78	81	88	103	100	106	107	114	120	2866
REID	74	74	94	138	142	140	136	130	132	128	120	126	76	81	90	91	93	67	64	65	68	78	72	72	67	86	86	111	111	111	116	3723
TEXAS FEEDER	272	263	253	241	241	234	231	224	224	219	216	217	265	272	272	280	272	270	261	252	258	275	265	255	244	226	224	224	221	227	234	7634
[illegible]	15	13	11	7	5	5	5	7	10	11	10	10	12	13	16	18	18	18	17	17	17	18	16	16	15	14	14	15	15	15	17	398
[illegible] PETTINGER	3	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	2	0	49
LONG ISLAND	304	290	274	268	254	247	246	244	261	307	341	337	342	348	357	363	357	349	344	336	349	363	358	354	354	350	347	349	347	353	357	10060
ISLAND	75	75	107	98	91	87	88	84	94	119	120	129	129	141	145	149	149	144	139	138	138	143	134	134	129	126	125	120	117	123	128	3719
RIGBY	135	136	152	152	153	157	158	161	159	161	159	129	161	161	158	134	134	132	131	128	127	128	123	123	120	116	116	115	115	97	100	4300
[illegible]	24	25	24	25	23	30	29	31	31	30	30	28	22	30	23	22	11	10	10	9	7	7	22	21	20	22	22	23	22	23	24	702
WEST LABELLE	96	104	112	112	109	99	101	104	101	100	94	84	92	94	55	58	58	57	56	55	53	55	68	63	66	63	64	83	81	83	84	2506
PARKS & LEWISVILLE	316	343	350	324	322	317	319	319	317	316	295	295	204	129	132	192	208	206	204	204	202	208	202	202	200	198	197	197	197	198	200	7516
NORTH RIGBY	50	52	48	50	49	48	47	48	46	46	47	46	48	49	48	48	48	46	44	43	43	44	43	43	42	40	40	40	40	40	40	1435
WHITE	6	8	6	7	7	7	7	7	7	7	7	7	8	8	4	2	2	2	2	2	2	1	1	5	6	2	2	2	2	5	6	147
BRAMWELL	11	11	13	14	13	13	13	13	13	13	12	11	11	12	12	12	12	12	12	12	12	12	12	12	11	11	10	10	11	11	11	358
[illegible]	5	5	5	3	3	5	5	3	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	3	4	4	4	133
INDEPENDENT	41	42	40	41	38	35	34	34	33	32	39	41	41	42	42	47	46	45	44	44	45	45	45	44	44	43	43	38	41	40	41	1270
BUTTE & MARKET LAKE	182	194	208	238	232	232	202	196	196	188	192	149	141	110	152	141	138	136	137	130	146	160	166	168	166	163	166	163	168	171	166	5300
SHEPPARD	3	4	4	0	0	0	0	0	0	0	0	0	0	0	4	3	3	4	4	0	0	0	0	0	0	0	0	0	0	3	3	37
[illegible]	102	106	101	106	104	106	109	104	105	102	107	109	105	109	110	110	109	109	108	106	105	106	103	104	108	105	105	107	109	109	109	3301
[illegible] & [illegible]	10	10	10	6	5	7	6	6	6	8	8	8	8	9	12	13	13	13	12	11	11	12	11	11	10	10	10	10	10	10	10	302
[illegible] ISLAND & SMITH	1	1	1	1	4	3	1	1	0	1	1	3	4	0	5	2	0	0	0	1	0	1	1	1	5	5	4	0	0	1	0	55
IDAHO	761	723	727	727	736	727	681	665	664	672	652	594	613	594	558	604	553	545	545	566	547	561	549	522	611	626	636	642	621	628	642	19684
GREAT WESTERN	357	450	440	440	446	446	442	442	438	426	414	411	400	388	367	362	359	354	353	352	352	353	353	351	362	366	362	354	354	356	352	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	275	272	272	270	263	255	259	263	255	255	254	261	259	252	248	250	212	210	207	207	204	204	259	261	255	257	259	259	7776
IDAHO FALLS CITY MAIN	4	2	2	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	8
WOODVILLE	94	81	82	80	76	74	72	72	71	68	66	65	64	63	68	64	63	61	60	59	58	58	56	55	56	67	66	65	66	66	63	2070
SNAKE RIVER VALLEY	578	569	630	635	671	675	683	651	637	613	577	575	563	558	544	522	522	522	520	516	514	516	516	514	510	508	508	508	508	508	512	17286
TOTAL DIVERSIONS ABOVE [illegible]	7067	7304	7393	7205	7099	8027	7789	7702	7670	7700	7659	7483	7279	7065	6809	6568	6110	5999	6040	6036	6070	6292	6261	6232	6827	6487	6590	6552	6361	6336	6388	215,963
RESERVATION	562	553	542	519	413	443	434	424	416	403	405	418	430	484	560	583	513	519	429	247	193	194	285	400	479	506	494	492	492	492	510	13958
BLACKFOOT	348	344	364	330	336	312	335	328	314	298	248	288	244	269	204	214	217	219	192	186	173	214	241	239	236	230	234	228	228	227	186	8050
[illegible] LAKE SIDE	72	126	131	132	132	148	43	137	145	145	144	144	149	130	117	152	156	142	138	132	133	132	135	130	130	6	4	122	102	133	47	3154
[illegible]	427	427	432	434	444	442	366	374	377	372	374	374	328	278	260	269	260	260	260	254	248	237	272	317	339	342	374	374	364	363	366	[illegible]
AMERICAN FALLS	1135	1170	1180	1060	1060	1060	1090	1070	1060	1040	999	990	891	733	658	658	659	679	432	434	613	613	610	629	713	729	736	742	707	704	707	25808
[illegible]	103	103	102	113	112	113	97	90	94	88	86	92	86	79	84	85	85	86	82	75	78	79	83	95	89	94	99	95	101	82	104	2253
[illegible] HANSEN	15	15	15	14	11	11	75	71	72	72	72	72	73	10	7	7	1	7	7	10	10	10	10	13	13	13	13	13	12	9	9	373
RIVERSIDE	100	100	100	100	98	98	98	98	94	98	97	98	95	90	85	81	81	89	92	94	94	92	98	98	96	98	98	100	100	100	100	2949
DANSKIN	183	179	179	179	176	172	177	176	175	163	139	126	86	89	89	53	53	94	116	117	117	115	148	177	172	177	179	175	175	175	177	4508
[illegible]	0	65	67	68	68	63	63	68	62	64	66	64	62	63	46	45	45	46	45	44	45	45	47	51	52	56	58	54	54	48	48	1681
NEARYRICK	41	40	40	26	40	39	40	40	40	39	40	39	40	38	39	41	41	41	40	40	40	40	40	39	39	40	40	39	41	41	42	1224
[illegible]	97	102	97	92	93	97	95	97	92	94	97	98	102	97	102	98	99	95	93	92	92	92	92	89	85	85	85	82	85	82	83	2884
[illegible]	23	23	23	23	23	22	23	23	23	23	23	23	24	23	23	23	23	23	23	23	22	23	23	22	22	22	22	22	22	23	23	705
TOTAL DIVERSIONS ABOVE [illegible] TO BLACKFOOT	3271	3280	3228	3113	3092	3026	2998	2906	2896	2839	2780	2771	2545	2603	2295	2302	2232	2243	1961	1748	1859	1886	2092	2300	2464	2448	2461	2538	2514	2486	2600	73472
SMITH MAXWELL	19	18	19	18	17	15	17	19	19	15	18	17	3	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0	2	226
TOTAL DIVERSIONS [illegible] BLACKFOOT TO [illegible]	3290	3298	3244	3131	3109	3041	3016	2925	2915	2854	2798	2788	2548	2405	2297	2304	2233	2244	1962	1749	1860	1887	2092	2300	2464	2448	2461	2538	2514	2486	2602	73703
NORTH SIDE MINIDOKA	1580	1560	1500	1460	1460	1450	1460	1440	1400	1310	1260	1250	1290	1290	1230	1210	1210	1210	1220	1220	1210	1230	1390	1460	1490	1490	1490	1440	1390	1390	1390	42400
SOUTH SIDE MINIDOKA	1050	1040	1040	1040	1040	1030	1020	1020	1010	1010	1010	1010	1010	983	932	932	921	876	869	861	871	937	950	1020	1040	1040	1040	1040	1050	1050	1040	30746
TOTAL MINIDOKA CANALS	2630	2600	2540	2500	2500	2480	2480	2460	2410	2310	2270	2260	2300	2273	2162	2142	2131	2086	2078	2071	2081	2167	2340	2480	2530	2530	2530	2480	2440	2440	2430	73156
[illegible] LATERAL	56	56	56	56	56	56	56	56	56	56	56	56	56	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	1717
NORTH SIDE TWIN FALLS	3000	2990	3000	3000	3010	3000	2980	3010	3000	3010	3010	2980	2970	2980	3010	3020	3010	3000	2990	2940	2950	2940	2960	2920	2930	2980	3000	2990	2960	2960	2960	92450
[illegible] LIFT	95	101	98	84	94	94	94	94	94	97	97	92	94	96	98	97	99	92	91	90	84	88	103	102	105	105	101	103	92	95	93	2962
SOUTH SIDE TWIN FALLS	3680	3650	3630	3690	3630	3620	3600	3620	3590	3580	3580	3570	3540	3560	3610	3650	3620	3610	3590	3560	3520	3540	3600	3580	3570	3560	3630	3620	3630	3620	3620	111475
TOTAL TWIN FALLS CANALS	6887	6777	6784	6770	6790	6770	6714	6780	6740	6743	6742	6657	6639	6691	6773	6803	6774	6757	6726	6645	6569	6617	6357	6667	6657	6646	6787	6777	6777	6676	6773	208874

DAILY DISCHARGE IN SECOND FEET OF CANALS DIVERTING FROM SNAKE RIVER FOR SEPTEMBER 1927.

NAME OF CANAL	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	Total
BELT	8	9	8	8	2	2	2	2	2	2	2	2	2	3	3	3	0	1	3	2	1	2	2	2	2	3	2	2	2	2	2	2	61
BLANTON	320	321	319	316	312	310	310	309	311	313	314	316	313	304	270	260	240	241	244	239	234	229	224	194	179	187	194	201	210	217	11	11	7333
BOISE, BOISE & WILSON CREEK	336	327	327	325	319	317	320	320	322	326	326	326	326	318	309	292	321	322	326	321	299	290	282	183	180	190	195	198	198	198	198	198	10161
BOISE-PARRETT	196	200	204	206	214	218	204	200	198	198	198	198	198	177	163	113	113	93	126	129	143	141	118	103	93	100	108	116	118	118	118	118	4599
BOISE-STEELE	139	142	139	140	142	142	142	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	4154
CARLSON	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
CARTWRIGHT & CRAIG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31
CASSIA CREEK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31
CLEAR CREEK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31
CLEAR LAKE	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	25	25	25	25	25	25	27	27	744
CLOVER	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	93
CRANE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	93
DARLINGTON	217	215	211	210	208	206	201	197	195	198	200	202	212	214	212	206	200	193	187	181	177	164	159	146	142	152	155	157	160	163	166	166	5604
DEEP	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	62
DENVER	256	242	228	188	187	84	76	67	58	60	60	61	63	58	59	53	56	52	53	58	104	129	164	196	177	198	200	212	223	202	210	210	5701
DIVIDE	93	93	93	93	190	93	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	3241
EVA & NORD	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	155
EXCELSIOR	667	629	591	553	515	477	508	539	570	574	578	582	586	577	567	558	548	538	529	519	509	480	455	430	405	419	435	450	465	480	495	510	16178
FALK & EDWARDS	61	61	62	62	63	60	57	54	55	56	57	58	59	57	57	56	55	54	54	45	34	27	19	21	24	27	30	31	33	33	33	33	1439
FENDER	39	27	20	13	7	0	0	0	0	0	0	0	0	1	1	2	3	3	4	3	2	1	0	0	0	0	0	0	0	0	0	0	120
JENNINGS	2	2	2	1	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	7
LABELLE	9	108	102	93	84	75	66	66	57	88	100	111	122	112	101	91	81	70	60	46	32	19	5	8	11	14	18	21	24	27	30	33	1975
CONSOLIDATED FEEDER	87	84	86	86	88	89	90	92	93	94	87	80	73	66	59	52	49	46	42	38	35	31	28	27	27	26	26	27	27	28	1746
LENHART	96	92	88	84	80	96	101	106	112	118	103	88	73	58	43	28	24	20	16	12	8	4	0	0	0	0	0	0	0	0	0	0	1422
MILO	103	101	103	104	105	104	106	107	108	109	93	78	62	46	31	15	13	11	9	6	4	3	0	0	0	0	0	0	0	0	0	0	1424
MILO FEEDER	219	197	196	196	196	196	196	195	195	194	177	161	144	127	111	94	83	72	61	51	40	29	18	20	20	20	20	20	20	20	20	20	3233
NELSON LEVEY	16	16	16	16	16	16	16	15	16	15	16	14	15	9	7	5	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	233
NILL PFEFFINGER	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20
LONG ISLAND	316	313	292	289	287	286	282	268	256	243	230	217	204	192	178	176	173	171	168	166	157	149	142	134	127	119	110	106	106	106	106	106	5882
MILNER	128	126	126	124	124	122	120	113	111	106	102	95	80	65	81	79	76	73	70	68	61	55	49	41	35	29	22	21	21	21	21	21	2377
RUBEL	101	101	102	103	103	102	102	102	101	101	120	97	93	89	91	94	97	100	103	106	98	91	84	77	69	63	55	55	53	53	53	53	2624
SILKA	28	31	30	29	19	19	16	16	15	15	14	13	13	13	13	13	13	13	13	13	12	11	10	9	8	8	6	5	5	5	4	4	391
WEST LABELLE	81	78	75	71	68	65	62	62	62	63	63	64	59	58	56	54	52	50	49	47	45	42	39	36	33	30	27	24	24	24	24	24	1398
PARIS & LEWISVILLE	200	200	200	201	201	201	202	202	202	202	199	196	192	189	186	184	182	180	178	176	174	172	170	169	167	165	163	160	160	160	160	160	5533
NORTH FORT	41	41	42	43	44	44	45	45	46	46	45	44	44	43	42	41	40	40	39	38	39	40	41	41	42	43	44	44	44	44	1275		
WHITE	6	6	6	7	7	7	6	6	6	6	6	6	6	6	5	5	5	6	6	6	5	5	4	4	3	3	2	2	2	2	169		
APPAREL	10	5	5	6	5	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	77		
BOISE	3	3	3	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	43		
INDEPENDENT	40	39	38	36	36	34	33	32	31	31	31	31	30	30	30	29	29	29	29	28	27	27	26	25	24	24	23	23	23	23	890		
BUTTE & MARKET LAKE	165	164	164	163	162	161	158	155	152	149	146	143	144	146	147	149	150	148	145	143	141	139	136	134	133	133	132	131	131	130	4384		
CHERRY	3	2	2	1	1	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		
DIETZ	104	99	94	90	85	80	80	80	80	80	80	80	80	80	81	81	81	80	80	80	80	80	79	80	80	80	80	81	81	2475			
KENNEDY & BURNCRAFT	9	9	8	7	7	6	6	6	6	6	6	6	5	5	5	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	145		
MEAD, SUZAN & SMITH	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	2	3	3	3	3	3	3	3	3	3	50		
MINTA	649	651	654	658	662	666	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	649	19470		
SQUAW CREEK	348	344	344	342	339	339	337	337	335	333	331	329	327	325	323	321	319	317	315	313	311	309	307	305	303	301	299	297	295	293	9610		
TWIN FALLS CITY MAIN	260	261	260	258	256	255	254	252	251	250	249	248	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	231	230	7441		
WOODVILLE	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		
SNAKE RIVER VALLEY	64	68	71	70	70	70	69	69	69	68	62	56	50	45	39	33	27	23	20	6	13	9	6	2	1	1	1	1	1	0	1096		
TOTAL DIVERSIONS ABOVE TO WOODVILLE	4709	4690	4652	4644	4633	4617	4652	4678	4690	4631	4669	4761	4876	5111	5046	4795	4721	4700	4679	4656	4607	4563	4469	4488	4484	4502	4535	4519	4519	4519	137,272		
RESERVATION	416	416	416	416	416	457	490	524	549	567	619	659	270	242	236	262	316	306	307	296	282	268	254	216	205	232	247	69	0	0	9808		
BLACKFOOT	94	96	97	94	91	137	184	181	176	171	166	160	155	150	136	121	133	144	156	167	178	190	187	183	180	177	173	170	66	65	3227		
BIG LOST SIDE	138	149	150	139	149	139	149	148	139	130	122	113	104	95	92	90	94	99	104	108	113	118	116	115	114	113	112	111	110	109	3501		
BOISES	323	323	321	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	317	9827		
AMERICAN FALLS	703	704	704	704	704	704	701	699	697	695	693	691	689	687	685	683	681	679	677	675	673	671	669	667	665	663	661	659	657	655	20,615		
CORBETT	100	96	103	94	94	96	97	97	92	87	82	78	73	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	2576		
GILLEN HANSEN	10	11	12	11	11	9	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	124		
RIVERSIDE	99	101	103	106	106	108	110	112	104	96	88	79	71	63	62	60	67	73	80	87	93	100	96	92	88	84	80	76	72	68	2783		
RANSOM	179	178	176	175	174	173	171	170	158	146	134	121	109	97	92	87	94	100	107	114	120	127	121	114	108	102	95	89	83	77	3300		
TREGO	60	60	60	60	51	51	51	51	50	49	48	46	45	44	40	36	36	34	34	33	32	31	31	30	30	29	28	27	27	27	1133		
WEARYRICK	42	42	42	42	42	42	42	42	41	41	41	41	41	40	38	36	35	34	34	33	32	31	31	30	30	29	29	28	28	27	1092		
WATSON	83	81	78	76	74	72	69	67	65	66	69	70	70	71	69	67	66	64	62	61	59	61	63	65	67	69	71	73	70	70	2078		
PARSONS	23	23	23	23	23	23	23	22	22	22	22	22	22	21	20	18	19	20	22	23	24	23	23	23	22	22	22	22	21	20	20	657	
TOTAL DIVERSIONS ABOVE TO BLACKFOOT	2462	2392	2357	2326	2362	2388	2403	2443	2402	2378	2336	2287	1844	1740	1630	1619	1708	1728	1762	1810	1839	1865	1793	1686	1671	1764	1763	1467	1439	1331	59124		
SMITH MAXWELL	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
TOTAL DIVERSIONS BLACKFOOT TO MINIDOKA	2462	2392	2357	2326	2362	2388	2403	2443	2402	2378	2336	2288	1845	1741	1631	1620	1709	1729	1762	1810	1839	1865	1793	1686	1671	1764	1763	1467	1439	1331	59155		
NORTH SIDE MINIDOKA	1420	1410	1370	1370	1350	1310	1320	1260	1200	1120	1040	995	866	799	793	796	799	801	806	808	778	759	738	763	783	759	739	719	712	706	639	29,511	
SOUTH SIDE MINIDOKA	1040	1050	1060	1000	1000	1010	1020	1020	1000	969	940	892	777	677	637	639	634	638	640	643	645	645	645	645	645	645	645	645	645	645	645	29,511	
TOTAL MINIDOKA CANALS	2460	2460	2430	2370	2350	2320	2340	2280	2200	2089	1980	1887	1643	1476	1430	1434	1433	1439	1446	1451	1423	1404	1383	1408	1428	1404	1384	1364	1357	1351	1284	58,022	
LATERAL																																	
NORTH SIDE TWIN FALLS	55	56	56	55	56	56	55	55	55	55	55	55	55	54	40	28	28	27	27	27	27	26	26	26	25	25	24	24	24	24	1196		
HIGHER LOW LIFT	2410	2400	2330	2270	2270	2210	2260	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	2210	68,510		
SOUTH SIDE TWIN FALLS	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	2976		
TOTAL TWIN FALLS CANALS	2561	2552	2482	2421	2422	2362	2411	2361	2361	2361	2361	2361	2361	2360	2346	2334	2334	2333	2333	2333	2333	2332	2332	2332	2331	2331	2330	2330	2330	2330	72,308		

may represent the most reasonable interpretation of these changes, particularly as regards time. On days when more than one stage has been observed mean discharges have been recorded. Daily summaries showing the total diversions between river gaging stations have also been included.

River riders were employed continuously from June 1 to August 31 and for this period records are based upon daily gage readings at each station. September discharges depend upon less regular and generally less frequent readings with data for intervening dates supplied through interpolation or by estimates.

Following the practice of preceding years, the small river channel from which the Morgan and Rostan canals divert, was completely damned off on July 19. Thereafter no attempt was made to either regulate or record the flow through these ditches.

Laterals which divert from several of the canals above the main gaging stations are, in these tables, in each case included with the flow in the main canal.

The canals are listed by divisions, each of which represents the territory covered by a deputy water master or river rider. The canals of each division in general are shown in down stream order.

RIVER DATA

The extensive tables found on Plates VII and VIII summarize data in regard to total flow, normal and stored water segregation, diversions, losses and gains for each section of the river between Jackson Lake and Milner.

These tables are prepared upon the following time interval basis:

Time from Jackson Lake In Hours	Gaging Station	Period used for comparable daily means.
0	Jackson Lake and Moran	Day ending at 4 a. m.
24	Heise	Day ending at 4 a. m. 1st day following
28	Lorenzo and Rexburg	Day ending at 8 a. m. 1st day following
42	Woodville	Day ending at 10 p. m. 1st day following
50	Blackfoot Bridge	Day ending at 6 a. m. 2nd day following
53	Blackfoot (Robertson)	Day ending at 9 a. m. 2nd day following
54	Blackfoot (Cloughs)	Day ending at 10 a. m. 2nd day following
66½	American Falls	Day ending at 10:30 p. m. 2nd day following
68	Neeley	Day ending at 12 midnight 2nd day following
92	Minidoka	Day ending at 12 midnight 3rd day following
116	Milner	Day ending at 12 midnight 4th day following.

This schedule is the same as the one adopted for the eight preceding years except that for American Falls the time from Jackson Lake has been lengthened from 66 to 66½ hours to make the results coincide with those presented in the special investigation report of T. R. Newell. While not exactly correct for all stages of the river, the intervals listed are believed to be fairly representative of average conditions and in consequence have been used throughout the entire period of record.

The dates given on these two plates are those which agree most nearly with the midday hour on this schedule, but the discharges for all river stations have been computed from recording gage records

1927 DISTRIBUTION WATER DISTRICT NO. 36.

DATE	JACKSON LAKE			MORAN				DATE	HEISE					MORAN-HEISE			LORENDO STORED	HEISE TO LORENDO LOSS STORED	REXBURG		HEISE RILEY & REABG	DATE	DIV HEISE-WOOD			WOOD THEO BAL
1927	GAGE	CAPAC AC FT	DRAFT AC FT	GAGE	DISCH	STOR	NOR	1927	GAGE	DISCH	+ RILEY	STD.	NOR.	TOTAL GAIN	LOSS STD	GAIN NOR			GAGE	DISCH		1927	TOTAL	STD	NOR	
MAY 31	5966	406090		045	71		71	MAY 31	4.19	12430	12430		12430	12359		12359			783	4920	17610	JUN 1	2790		2790	14770
31	5944	411680		045	71		71	JUN 1	4.10	12240	12240		12240	12169		12169			775	4760	17000	2	2355		2355	12645
JUN 1	5911	417240		043	67		67	2	4.14	12410	12410		12410	12343		12343			762	4670	17080	3	3324		3324	15756
2	5883	423330		041	62		62	3	4.35	13360	13360		13360	13293		13293			752	4490	16920	4	3315		3315	19071
3	5871	431270		040	60		60	4	4.80	15430	15430		15430	15370		15370			732	4200	20630	5	3505		3505	17576
4	5826	439180		042	64		64	5	5.06	16650	16650		16650	16586		16586			816	6770	22420	6	3723		3723	18853
5	5779	448960		054	87		87	6	5.40	18340	18340		18340	18253		18253			844	6270	24610	7	4003		4003	20060
6	5730	461010		069	122		122	7	5.92	21010	21010		21010	20888		20888			877	6830	27840	8	4254		4254	23610
7	5667	475910		089	180		180	8	6.58	24520	24520		24520	24340		24340			912	7400	31920	9	4474		4474	27484
8	5592	493160		113	266		266	9	6.86	26090	26090		26090	25824		25824			938	7890	33980	10	4722		4722	29256
9	5520	511200		095	190		190	10	6.88	26250	26254		26254	26064		26064			948	8110	34364	11	5142		5142	34398
10	5608	531660		103	212		212	11	7.03	27120	27135		27135	26923		26923			964	8290	35485	12	5462		5462	34398
11	5705	554370		131	316		316	12	7.22	28170	28186		28186	27870		27870			958	8440	36676	13	5814		5814	30862
12	5804	577700		128	295		295	13	7.33	28830	28847		28847	28552		28552			968	8670	37617	14	7014		7014	30508
13	5910	602860		125	278		278	14	7.41	29340	29340		29340	29062		29062			973	8850	38190	15	8062		8062	30128
14	6013	627480		172	493		493	15	7.34	28940	28962		28962	28469		28469			982	9040	38042	16	8319		8319	29723
15	6115	652040		162	420		420	16	7.14	27840	27865		27865	27445		27445			978	8980	36725	17	8790		8790	27935
16	6219	675790		192	582		582	17	6.99	27020	27045		27045	26463		26463			975	8660	35705	18	9032		9032	26673
17	6303	697740		184	536		536	18	6.85	26250	26274		26274	25738		25738			969	8420	34694	19	8930		8930	25764
18	6394	720090		179	509		509	19	6.94	26740	26764		26764	26255		26255			959	8150	34914	20	9114		9114	25800
19	6488	743320		190	571		571	20	7.03	27240	27269		27269	26698		26698			954	7930	35199	21	9511		9511	25688
20	6578	765770		190	571		571	21	6.94	26200	26228		26228	25657		25657			951	7780	34008	22	9536		9536	24472
21	6652	779770		H.D.	2260		2260	22	6.78	25870	25897		25897	23637		23637			948	7520	33417	23	9605		9605	23812
22	6668	788240		H.D.	1420		1420	23	7.37	29220	29248		29248	21828		21828			935	7220	36468	24	9715		9715	26753
23	6686	797750		8.06	9610		9610	24	7.85	31980	32009		32009	22399		22399			930	7000	39009	25	10006		10006	29003
24	6653	794510		9.06	11900		11900	25	8.22	34200	34231		34231	22331		22331			940	7460	41691	26	9524		9524	32167
25	6658	795760		9.18	12170		12170	26	8.28	34660	34690		34690	22520		22520			958	8010	42700	27	9576		9576	33124
26	6715	800050		8.62	10880		10880	27	8.26	34600	34629		34629	23745		23749			975	8540	43169	28	9674		9674	33495
27	6733	804600		8.76	11200		11200	28	8.37	35360	35389		35389	24189		24189			993	9140	44529	29	9420		9420	35109
28	6747	808140		8.68	11020		11020	29	8.25	34660	34687		34687	23667		23667			986	9440	44127	30	9159		9159	34968
29	6763	809650		7.94	9340		9340	30	7.58	30850	30870		30870	21530		21530			965	8450	39320	JUL 1	8082		8082	31238
30	6762	811930		7.28	7920		7920	JUL 1	6.90	27070	27095		27095	19175		19175			942	7510	34605	2	7486		7486	27119
JUL 1	6771	814200		6.48	6300		6300	2	6.39	24250	24272		24272	17972		17972			911	6490	30762	3	7605		7605	23257
2	6771	816220		6.46	6270		6270	3	6.23	23460	23490		23490	17220		17220			885	6100	29390	4	7089		7089	22501
3	6769	818750		6.44	6230		6230	4	6.31	23880	23909		23909	17679		17679			868	5820	23729	5	7483		7483	21846
4	6802	822030		6.46	6270		6270	5	6.46	24680	24711		24711	13441		18441			865	5690	30401	6	8023		8023	22378
5	6805	822800		6.68	6710		6710	6	6.23	23460	23485		23485	16775		16775			841	5330	28515	7	8104		8104	20671
6	6808	823560		6.11	5660		5660	7	5.85	21470	21501		21501	15841		15841			807	4880	26381	8	8375		8375	18006
7	6810	824070		6.10	5640		5640	8	5.76	21010	21039		21039	15399		15399			774	4440	25479	9	8759		8759	16720
8	6826	828140		5.10	4000		4000	9	5.54	19880	19908		19908	13908		15908			762	4230	24138	10	8333		8333	15805
9	6846	833230		4.50	3150		3150	10	5.25	18440	18466		18466	15316		15316			756	4230	22496	11	8536		8536	14269
10	6866	838320		4.54	2950		2950	11	5.14	17900	17927		17927	14977		14977			747	4200	22127	12	8570		8570	13699
11	6888	843920		3.61	2080		2080	12	4.87	16600	16619		16619	14539		14539			727	4060	20679	13	8048		8048	12631
12	6898	846460		4.45	3110		3110	13	4.85	16500	16517		16517	13407		13407			694	3790	20307	14	8925		8925	11382
13	6898	846460		5.23	4260		4260	14	4.95	16280	17003		17003	12743		12743			664	3560	20563	15	8853		8853	11712
14	6898	846460		5.18	4190		4190	15	4.82	16360	16385		16385	12795		12795			623	3210	19595	16	8633		8633	10962
15	6901	847230		4.41	3090		3090	16	4.51	14330	14959		14959	11869		11869			577	2810	17769	17	8203		8203	9759
16	6903	847740		4.24	2890		2890	17	4.27	13850	13876		13876	10986		10986			553	2460	16336	18	8104		8104	8232
17	6903	847740		4.40	3090		3090	18	4.21	13580	13606		13606	10516		10516			512	2270	15876	19	7809		7809	8067
18	6897	846210	1630	4.90	3820	771	3049	19	4.30	13980	14004	732	13252	10184	19	10203	670	82	480	1990	15994	20	8025	245	7780	7911
19	6911	843920	2290	5.16	4230	1154	3076	20	4.35	14200	14223	1125	13098	9993	29	10022	1018	107	456	1800	16023	21	8381	547	7834	7316
20	6911	843920	2290	5.16	4230	1154	3076	20	4.35	14200	14044	1254	12790	9804	32	9836	1144	110	427	1570	15614	22	8510	702	7808	7316
20	6911	843920	2290	5.16	4230	1286	2954	21	4.31	14020	13793	1377	12406	9513	33	9608	1282	95	401	1380	15163	23	8430	694	7736	6973
21	6865	838370	2800	5.15	4210	1412	2798	22	4.25	13760	13433	1499	11934	9223	39	9262	1411	88	380	1240	14673	24	8292	743	7549	6806
22	6833	835520	3050	5.15	4210	1538	2672	23	4.17	13410	13213	1750	11463	8983	43	9028	1648	102	378	1200	14252	25	8351	766	7585	6842
23	6811	831960	3560	5.16	4230	1795	2435	24	4.12	13190	12952	1878	11074	8692	48	8740	1778	100	374	1200	13804	26	8336	710	7626	6883
24	6775	828140	3820	5.18	4260	1926	2334	25	4.06	12930	12604	2001	10603	8374	51	8425	1903	96	374	1200	13433	27	8333	659	7774	7115
25	6776	824070	4070	5.16	4230	2052	2178	26	3.98	12580	12353	1996	10357	8143	51	8194	1974	82	363	1130	13203	28	8365	810	7555	7305
26	6744	820010	4060	5.15	4210	2047	2163	27	3.92	12070	12093	2109	9984	7883	54	7937	2012	97	360	1110	13031	30	8451	948	7503	6555
27	6717	815770	4290	5.15	4210	2163	2047	28	3.86	11900	11911	2114	9797	7701	54	7785	1994	120	362	1120	13031	31	8262	765	7497	6732
28	6693	811430	4300	5.15	4210	2168	2042	29	3.82	11820	11843	2236	9607	7633	58	7691	2091	145	351	1310	13153	AUG 1	8065	744	7321	6577
29	6644	806470	4560	5.15	4210	2194	1976	30	3.80	11700	11736	2232	9474	7496	57	7533	2078	134	418	1500	13206					
30	6624	802330	4540	5.15	4210	2289	1921	31	3.77	11700																

DAILY SUMMARY OF DATA AT AND BETWEEN SNAKE RIVER GAGING

HEISE TO RIVERTON LOSS STORAGE	REXBURG		HEISE & RILEY CREEKS	DATE	DIV. HEISE-WOOD			WOOD. THEO. BAL	WOODVILLE				LOR WOOD LOSS STD	HEISE-WOOD			DIV. WOOD-BL. BR			BL. BR. THEO. BAL.	BLACKFOOT BR.			WOOD-BLACK BR			SMITH MAX. CAN.	BLACK R.		BLACK ROCK TO BLACK	GLO	
	GAGE	DISCH			TOTAL	STD.	NOR.		GAGE	DISCH	STD	NOR		TOTAL GAIN	LOSS STD	GAIN NOR	TOTAL	STD.	NOR.		DISCH	STOR	NOR	TOTAL GAIN	LOSS STD	GAIN NOR		GAGE	DISCH		GAGE	DI
718	6920	17610	JUN 1	2890			2890	14720	367	15760		15760		-1040			1477		1477	14283	13870		13870	-413		-413	3	669	3			
683	6760	17000	2	3355			2955	14045	953	16200		16200		-1155			1464		1464	13796	13340		13340	-456		-456	3	680	4			
665	6620	17030	3	3344			3344	13686	978	15000		15000		-1374			1478		1478	13522	13280		13280	-242		-242	4	650	2			
722	6950	18090	4	3469			3469	14621	972	15960		15960		-1339			1489		1489	14471	13960		13960	-511		-511	4	633	2			
718	6900	20630	5	3505			3505	17125	1034	18470		18470		-1345			1508		1508	16962	16190		16190	-772		-772	9	624	2			
816	5770	22420	6	3723			3723	18697	1068	19880		19880		-1183			1708		1708	18172	17610		17610	-562		-562	10	620	2			
744	6370	21610	7	4003			4003	20607	1110	21640		21640		-1033			1895		1895								11	598	2			
717	6850	27840	8	4228			4228	23676	1164	23930		23930		-374			2115		2115								14	582	1			
912	7480	31920	9	4474			4474	27446	1229	26730		26730		-716			2344		2344								17	483	1			
930	7890	33980	10	4722			4722	29758	1277	28810		28810		-448			2584		2584								17	433	1			
948	8110	34964	11	5142			5142	29272	1289	29340		29340		118			2740		2740								17	454	1			
954	8280	35415	12	5419			5419	29986	1297	29690		29690		-296			2911		2911								17	454	1			
958	8440	36626	13	5814			5814	30812	1311	30300		30300		-512			3130		3130								17	454	1			
968	8670	37517	14	7014			7014	30503	1318	30610		30610		107			3374		3374								17	470	1			
973	8850	38190	15	8062			8062	30128	1322	30790		30790		662			3596		3596								17	495	3			
978	8860	38042	16	8319			8319	29723	1317	30570		30570		847			3678		3678								17	520	6			
975	8660	36775	17	8790			8790	27935	1292	29470		29470		1535			3630		3630								17	542	3			
969	8420	35705	18	9032			9032	26673	1269	28460		28460		1787			3723		3723								16	492	3			
959	8150	34694	19	8930			8930	25764	1252	27720		27720		1956			3685		3685								16	513	5			
954	7930	34914	20	9114			9114	25800	1237	27070		27070		1270			3740		3740								15	514	5			
951	7780	35199	21	9511			9511	25698	1240	27200		27200		1512			3774		3774								14	434	6			
948	7580	34008	22	9586			9586	24422	1220	26340		26340		1918			3815		3815								13	425	3			
935	7520	33417	23	9605			9605	23812	1194	25220		25220		1408			3838		3838								13	430	4			
930	7000	39009	25	10006			10006	29003	1287	29250		29250		247			3865		3865								23	494	9			
940	7460	41691	26	9524			9524	32167	1337	31450		31450		-717			3828		3828								25	537	4			
958	8010	42700	27	9576			9576	33124	1370	32900		32900		-224			3713		3713								12	532	17			
975	8540	43169	28	9674			9674	33495	1392	33870		33870		375			3722		3722								13	628	28			
993	9140	44529	29	9420			9420	35109	1423	35230		35230		121			3691		3691								18	608	23			
986	9440	44127	30	9159			9159	34968	1443	36120		36120		1152			3665		3665								25	606	29			
965	8450	39320	JUL 1	8082			8082	31238	1428	35450		35450		4212			3509		3509								16	635	28			
942	7510	34605	2	7486			7486	27119	1345	31800		31800		4681			2860		2860								16	670	38			
911	6490	30762	3	7505			7505	23257	1243	27330		27330		4073			2019		2019								14	648	33			
885	6100	29590	4	7089			7089	22501	1200	25480		25480		2979			1929		1929								12	681	44			
868	5820	29759	5	7833			7833	21846	1183	24960		24960		3114			1940		1940								11	705	48			
865	5690	30401	6	8023			8023	22378	1183	24750		24750		2372			2826		2826								10	715	49			
841	5330	25815	7	8104			8104	20711	1146	23160		23160		2449			3450		3450								10	643	31			
807	4880	26381	8	8375			8375	18006	1086	20630		20630		2624			3448		3448	17182	16460		16460	-722		-722	9	573	13			
774	4440	23479	9	8759			8759	16720	1052	19210		19210		2490			3708		3708	15502	15090		15090	-412		-412	8	532	21	16533	89	
762	4230	24138	10	8333			8333	15805	1013	17610		17610		1805			3472		3472	14138	13770		13770	-368		-368	7	537	22	15171	86	
756	4730	22646	11	8536			8536	14160	983	16400		16400		2240			3444		3444	12956	12500		12500	-456		-456	5	516	20	13881	82	
747	4200	22127	12	8570			8570	13357	958	15400		15400		1843			3334		3334	11866	11360		11360	-506		-506	4	536	21	12855	75	
727	4060	20679	13	8048			8048	12631	923	14030		14030		1399			3713		3713	10917	10380		10380	63		63	2	542	18	11443	76	
694	3790	20307	14	8925			8925	11382	905	13330		13330		1948			3871		3871	9459	9620		9620	161		161	3	524	20	10472	72	
644	3580	20563	15	8853			8853	11710	897	13030		13030		1320			3783		3783	9247	9060		9060	-187		-187	1	509	23	10957	67	
623	3210	19595	16	8633			8633	10962	871	12040		12040		1078			3892		3892	8208	8110		8110	-98		-98	0	490	35	8845	69	
577	2810	17769	17	8203			8203	9566	832	10590		10590		1024			3806		3806	6784	6770		6770	-14		-14	0	457	11	6781	80	
533	2460	16336	18	8104			8104	8232	792	9160		9160		928			3670		3670	5490	5678		5678	188		188	0	457	11	6439	83	
512	2270	15876	19	7809			7809	8067	773	8500		8500		433			3428		3428	5072	5108		5108	36		36	0	446	9	5117	33	
480	1990	13994	20	8023	245	7778	7971	777	8640	422	8218	3	669	85	734	3410	10	3400	5230	5090	347	4703	-140	25	-115	0	474	8	5033	53	
456	1800	16023	21	8381	547	7834	7642	772	8460	466	7994	5	818	112	930	3512	97	3415	4948	4905	347	4558	-43	22	-21	0	460	13	4826	51	
427	1570	15614	22	8518	702	7816	7096	757	7950	436	7514	6	854	116	970	3415	69	3357	4535	4485	351	4134	-50	22	-28	13	460	15	4467	41	
401	1380	15163	23	8430	694	7736	6733	740	7380	582	6793	6	647	101	748	3403	10	3393	3977	3964	538	3426	-13	34	21	12	446	9	3961	36	
380	1240	14673	24	8292	743	7549	6381	731	7080	661	6419	7	699	95	794	3442	49	3393	3638	3752	575	3177	114	37	151	12	444	8	3745	29	
378	1230	14433	25	8331	791	7560	6082	724	6860	849	6011	8	778	110	888	3253	7	3246	3607	3569	731	2793	-18	51	33	12	447	8	3504	29	
374	1200	14152	26	8436	766	7670	5716	714	6540	1003	5537	9	824	109	939	3182		3182	3358	3278	943	2335	-80	60	-20	11	439	6	3373	24	
369	1180	13983	27	8336	710	7676	5418	704	6290	1185	5045	10	812	106	918	3300		3300	2930	2878	1114	1764	-52	71	19	19	438	6	2865	24	
360	1110	13703	29	8373	659	7714	5110	693	5900	1245	4655	10	790	92	892	3272		3272	2628	2556	1170	1386	-72	75	3	19	458	9	2565	31	
352	1120	13031	30	8451	948	7503	4580	685	5660	1036	4624	10	1080	130	921	3271		3271	2389	2327	1121	1206	-62	71	9	15	448	9	2321	31	
331	1310	13153	31	8262	765	7497	4891	693	5900	1315	4585	11	1009	136	1210	3248		3248	2412	2156	974	1182	-256	62	-194	15	481	10	2119	31	
418	1900	13706	AUG 1	8065	744	7321	5141	703	6200	1324	4876	10	1039	164	1165	3320	5	3315	2580	2526	1231	1295	-54	79	25	17	502	24	1835	31	
															1223	3271	3	3268	2929	2904	1242	1662	-25	79	54	19	553	15	3000	42	

BLACKFOOT BRIDGE DATA NOT DEPENDABLE DURING HIGH RIVER STAGE PERIOD AND IN CONSEQUENCE OMITTED

ER GAGING STATIONS FROM JACKSON LAKE WYOMING TO MILNER IDAHO.

	BL BR CLOUGH TYED BAL	CLOUGHS GAGE	CLOUGHS DISCH	CLOUGHS STOR	CLOUGHS NOR	BL BR CLOUGH GAIN	WOOD & BLACK RIVER	DIVERS WOOD CLOUGH	WOOD-CL. TIED BL CLOUGHS	WOOD-CL. TOTAL GAIN	DATE 1927	GAGE	AMERICAN FALLS CAPAC AC FT	AMERICAN FALLS DRAFT AC FT	AMERICAN FALLS DRAFT SEC FT	MEAS INFLOW CL-N	COMP INFLOW CL-N	NEELEY GAGE	NEELEY DISCH	NEELEY STOR	NEELEY NOR	CLOUGH NEELEY GAIN	DATE 1927	LAKE WALCOTT GAGE	LAKE WALCOTT CAPAC AC FT	LAKE WALCOTT DRAFT SEC FT
76	12235	827	14520		14520	282	16136	1485	14651	- 131	June 2	4349.00	1405340	0	0	1766	3195	8.73	17640		17640	3120	June 3	4243.[illegible]	1031[illegible]	[illegible]
24	13736	813	13930		13980	244	15604	1472	14732	- 132	3	4302	1406370	-1030	- 512	1761	3188	8.00	16590		16590	3129	4	4[illegible]	1024[illegible]	- 121
29	13601	807	13760		13760	159	15329	1486	13843	- 83	4	4311	1411000	-4830	- 2394	1735	3153	7.33	14650		14650	3104	5	4[illegible]	1025[illegible]	- 247
17	12239	832	14720		14720	481	16247	1497	14750	- 30	5	4313	1417170	-6170	- 3111	1713	3124	7.55	14620		14620	3011	6	4[illegible]	1026[illegible]	0
45	13447	887	16910		16910	463	18736	1517	17219	- 309	6	4323	1426940	-9770	- 4926	1704	3112	7.62	14920		14920	2936	7	4[illegible]	1031[illegible]	- 171
56	17856	916	18100		18100	244	20136	1718	18418	- 318	7	4963	1437730	-10790	- 5440	1664	3059	7.72	15350		15350	2690	8	4[illegible]	1035[illegible]	- 121
23		945	19320		19320		21843	1906	19937	- 617	8	4987	1450080	-12950	- 6227	1648	3037	7.82	15790		15790	2697	9	4[illegible]	1038[illegible]	- 60
27		991	21290		21790		24007	2129	21878	- 588	9	5017	1465660	-15380	- 7835	1668	3064	7.97	16460		16460	3075	10	4[illegible]	1036[illegible]	- 61
13		1056	24170		24170		26743	2361	24382	- 212	10	5035	1485560	-19900	-10033	1656	3048	8.08	16960		16950	2713	11	4[illegible]	1043[illegible]	- 863
10		1094	25880		25880		28820	2601	26219	- 339	11	5096	1507030	-21470	-10824	1623	3005	8.25	17730		17730	2674	12	4[illegible]	1049[illegible]	- 808
3		1116	26890		26890		29693	2928	26765	125	12	5136	1528290	-21260	-10719	1613	2991	8.40	18420		18420	2599	13	4[illegible]	1053[illegible]	- 811
3		1126	27350		27350		30303	3147	27156	194	13	5170	1546390	-18100	- 9125	1621	3001	8.84	20510		20510	2745	14	4[illegible]	1033[illegible]	939
2		1126	27350		27350		30612	3391	27221	129	14	5199	1561830	-15440	- 7784	1586	2955	9.16	22070		22070	2504	15	4[illegible]	1033[illegible]	0
98		1125	27300		27300		30828	3613	27215	85	15	5233	1580290	-18460	- 9307	1577	2935	8.76	20130		20130	2087	16	4[illegible]	1053[illegible]	- 973
95		1121	27120		27120		30635	3695	26940	180	16	5261	1595510	-15220	- 7673	1560	2920	9.08	21680		21680	2053	17	4[illegible]	1057[illegible]	- 242
96		1096	25970		25970		29566	3647	25919	51	17	5283	1607460	-11950	- 6025	1549	2904	9.38	23170		23170	2075	18	4[illegible]	1057[illegible]	368
97		1069	24760		24760		28497	3739	24758	2	18	5300	1616700	- 9240	- 4658	1536	2888	9.56	23170		23170	1858	19	4[illegible]	1081[illegible]	- 40
57		1050	23900		23900		27777	3701	24076	- 176	19	5311	1622780	- 6080	- 3065	1529	2879	9.43	23520		23520	1925	20	4[illegible]	1045[illegible]	307
58		1039	23410		23410		27128	3795	23333	77	20	5316	1625540	- 2760	- 1392	1503	2841	9.62	24380		24380	1872	21	4[illegible]	1037[illegible]	424
51		1034	23190		23190		27205	3788	23417	- 227	21	5316	1625540	0	0	1472	2803	9.84	25510		25510	2100	22	4[illegible]	1031[illegible]	240
3		1007	22000		22000		26343	3828	22515	515	22	5318	1626650	- 1110	- 560	1445	2767	9.68	24690		24690	2060	23	4[illegible]	1016[illegible]	792
4		990	21250		21250		25274	3851	21373	- 123	23	5315	1624990	1660	837	1431	2748	9.71	24840		24840	2003	24	4[illegible]	1007[illegible]	494
19		1037	23320		23320		27019	3954	23065	255	24	5312	1623330	1660	837	1423	2737	9.50	23770		23770	1683	25	4[illegible]	1003[illegible]	248
88		1090	25700		25700		29338	3890	25448	252	25	5319	1627200	- 3870	- 1951	1408	2717	9.37	23120		23120	1731	26	4[illegible]	1003[illegible]	- 61
74		1140	27990		27990		31624	3840	27784	206	26	5334	1635490	- 8290	- 4180	1403	2711	9.44	23470		23470	1950	27	4[illegible]	1004[illegible]	- 60
82		1176	29650		29650		33182	3726	29456	194	27	5357	1648200	-12710	- 6408	1412	2723	9.49	23670		23670	2022	28	4[illegible]	997[illegible]	368
34		1199	30730		30730		34104	3740	30364	366	29	5408	1676460	-13330	- 6721	1426	2740	9.95	26080		24540	2417	29	4[illegible]	1001[illegible]	- 187
30		1229	32140		32140		35460	3716	31744	396	30	5429	1688230	-11770	- 5934	1442	2763	10.34	28150		26080	2071	30	4[illegible]	1025[illegible]	-1215
99		1253	33270		33270		36419	3681	32738	532	July 1	43.5445	1697200	- 8970	- 4522	1443	2764	10.76	30430		28150	1944	June 1	424[illegible]	1037[illegible]	- 303
86		1247	32660		32660		35836	3525	32311	349	2	5451	1700560	- 3360	- 1694	1443	2764	11.18	32770		30430	1682	2	4[illegible]	1036[illegible]	- 242
32		1178	29050		29050		32132	2874	29258	- 208	3	5040	1694400	6160	3106	1468	2797	11.35	33740		33740	1587	4	4[illegible]	1032[illegible]	- 61
14		1095	24940		24940		27744	2031	25713	- 773	4	5417	1681500	12900	6504	1442	2763	11.26	33720		33720	1776	5	4[illegible]	1025[illegible]	369
52		1057	23230		23230		25962	1940	24022	- 792	5	5400	1671970	9530	4803	1433	2751	HD	29750		29750	1715	6	4[illegible]	1038[illegible]	- 424
99		1042	22570		22570		25459	1950	23509	- 939	6	5393	1668110	3860	1946	1424	2739	9.93	26240		26240	1724	7	4[illegible]	1007[illegible]	1276
19		1011	21210		21210		25069	2836	22233	-1023	7	5389	1665890	2220	1119	1399	2705	HD	24030		24030	1701	8	4[illegible]	994[illegible]	931
55		960	19030		19030		23315	3459	19856	- 826	8	5400	1671970	- 6080	- 3065	1409	2719	HD	17660		17660	1695	9	4[illegible]	981[illegible]	303
31	16533	896	16380		16380	- 153	20711	3456	17255	- 875	9	5424	1685430	-13460	- 6786	1464	2792	6.72	11240		11240	1646	10	4[illegible]	984[illegible]	183
48	15171	860	14990		14990	- 181	19298	3715	15583	- 593	10	5442	1695520	-10090	- 5087	1407	2716	6.75	11360		11360	1457	11	4[illegible]	1001[illegible]	- 793
77	13841	825	13640		13640	- 201	17687	3478	14209	- 569	11	5452	1701120	- 5600	- 2823	1378	2677	7.06	12260		12260	1445	12	4[illegible]	1032[illegible]	-1639
40	12555	791	12410		12410	- 145	16460	3449	13011	- 601	12	5459	1705040	- 3920	- 1976	1353	2644	7.07	11980		11950	1546	13	4[illegible]	1043[illegible]	- 484
87	11443	767	11540		11540	97	15487	3538	11949	- 409	13	5457	1703920	1120	565	1334	2646	7.52	13430		13436	1376	14	4[illegible]	1028[illegible]	973
96	10474	722	10040		10040	- 434	14126	3715	10411	- 371	14	5454	1702240	1680	847	1344	2632	7.22	12260		12260	1373	15	4[illegible]	1009[illegible]	666
70	9657	700	9350		9350	- 337	13400	3874	9526	- 176	15	5459	1705040	- 2800	- 1412	1337	2623	6.46	9380		9380	1442	16	4[illegible]	988[illegible]	1[illegible]
63	9112	685	8910		8910	- 202	13083	3784	9299	- 389	16	5466	1708960	- 3920	- 1976	1310	2557	6.26	8680		8680	1446	17	4[illegible]	977[illegible]	555
35	8145	657	8050		8050	- 95	12075	3832	8243	- 193	17	5468	1710080	- 1120	- 565	1323	2604	6.42	9240		9240	1353	18	4[illegible]	1008[illegible]	- 459
11	6781	601	6480		6480	- 301	10601	3806	6795	- 315	18	5462	1706720	3360	1694	1338	2651	6.67	10140	1005	9131	1966	19	4[illegible]	1007[illegible]	- 536
11	5689	553	5300		5300	- 389	9171	3670	5501	- 201	19	5450	1700000	6720	3388	1366	2661	6.85	10820	2859	7961	1733	20	4[illegible]	1033[illegible]	- 1330
9	5117	531	5000		5000	- 117	8509	3428	5081	- 81	20	5437	1692710	7290	3675	1354	2645	6.81	10670	3023	7645	1995	21	4[illegible]	1042[illegible]	- 1220
8	5093	533	5240	387	4833	142	8648	3410	5238	2	21	5428	1687670	5040	2541	1342	2629	6.56	9740	2258	7483	1959	22	4[illegible]	1038[illegible]	- 1380
15	4920	525	5100	347	4753	180	8475	3512	4963	137	22	5422	1684310	3360	1694	1328	2611	6.30	8960	1576	7384	2158	23	4[illegible]	1038[illegible]	- 1330
15	4407	497	4540	351	4189	53	7965	3428	4537	3	23	5411	1678140	6170	3111	1337	2623	6.51	9810	2998	6812	2159	24	4[illegible]	1039[illegible]	- 1[illegible]
9	3961	473	4090	538	3552	129	7389	3415	3974	116	24	5398	1670870	7270	3665	1339	2625	6.52	9960	3783	6720	2205	25	4[illegible]	1039[illegible]	67
8	3748	460	3840	575	3765	92	7088	3454	3634	88	25	5394	1663130	7740	3902	1348	2637	6.43	9780	3878	5902	2038	26	4[illegible]	1040[illegible]	2[illegible]
7	3714	452	3690	791	2899	- 94	6867	3265	3602	- 3	26	5371	1653940	7190	3625	1346	2635	6.31	9350	3816	5534	2035	27	4[illegible]	1035[illegible]	2[illegible]
6	3473	433	3350	943	2407	77	6546	3193	3353	73	27	5368	1648760	7180	3620	1328	2611	6.28	9240	4222	5018	2270	28	4[illegible]	1038[illegible]	2[illegible]
6	3265	412	2990	1114	1876	125	6236	3319	2917	32	28	5344	1641020	7740	3902	1320	2600	6.25	9170	4694	4476	2279	29	4[illegible]	1033[illegible]	2[illegible]
9	2966	393	2670	1170	1500	124	5909	3291	2618	77	30	5329	1632730	8290	4179	1319	2595	6.16	8820	4850	3970	2175	31	4[illegible]	1008[illegible]	2[illegible]
9	2721	379	2460	1121	1339	139	5669	3286	2383	- 135	31	5314	1624430	8300	4185	1343	2631	6.26	9170	5274	3956	2161	August 1	424[illegible]	1019[illegible]	2[illegible]
28	2469	369	2290	974	1316	121	5688	3263	2425	- 131	August 1	5297	1615070	9360	4719	1330	2640	6.47	9920	5860	4060	2077	2	4[illegible]	1027[illegible]	2[illegible]
26	2255	332	2140	1231	1409	85	5946	3337	2609	85	2	5278	1604760	10320	5203	1353	2651	6.47	9890	5357	4533	2122	3	4[illegible]	1033[illegible]	2[illegible]
													1595510	9240	4658	1369	2665	6.46								

Y NOR	SUMMER NEELEY GAIN	DATE 1927	LAKE WALCOTT GAGE	CAPAC AC FT	DRAFT SEC FT	NS MIN. CAN. GAGE	NS MIN. CAN. DISCH	SS MIN CAN. GAGE	SS MIN CAN. DISCH	NS+SS MIN. CAN. TOTAL	NS+SS MIN. CAN. STD	NS+SS MIN. CAN. NOR	MIN THEO BAL.	MINIDOKA GAGE	MINIDOKA DISCH	STOR	NOR	NEELEY MINID LOSS	DATE 1927	LAKE MILNER GAGE	PA LAT. GAGE	PA LAT. DISCH	NSTFCAN GAGE	NSTFCAN DISCH	PA+NSTFCAN. TOTAL	PA+NSTFCAN. STD	PA+NSTFCAN. NOR	SS GAGE	SS
17640	3120	Nov 3	4565.58	102170	350	773	1050	396	583	1633		1633	116537	957	16510		16510	1047	JUNE	1092	194	36	861	3030	3046		3046	9.17	
17590	3124	4	4560	102410	- 121	735	1070	419	694	1704		1704	124785	882	17300		17300	1965	3	1092	194	36	865	3030	3046		3046	9.22	
17530	3104	5	4564	102980	- 245	746	1080	427	653	1733		1733	122550	874	17320		17320	30	6	1092	194	36	865	3030	3046		3046	9.22	
17420	3036	7	4566	102900	0	809	1130	477	772	1902		1902	134718	878	17660		17660	58	7	1092	193	36	865	3030	3046		3046	9.23	
17350	2690	8	4568	103140	- 121	860	1260	572	858	2118		2118	12681	884	17870		17870	- 189	8	1093	193	36	865	3030	3046		3046	9.23	
17390	2697	9	4569	103380	- 121	922	1410	550	959	2369		2369	12860	881	17760		17760	100	9	1094	194	36	865	3030	3046		3046	9.24	
17460	3023	10	4570	103620	- 61	954	1500	576	1030	2530		2530	13819	910	17540		17540	- 220	10	1094	194	36	866	3030	3066		3066	9.17	
17950	2883	11	4576	104340	- 363	960	1510	579	1040	2550		2550	14037	919	17730		17730	190	11	1096	194	36	866	3030	3066		3066	HD	
17730	2674	12	4581	104940	- 303	961	1510	580	1040	2550		2550	14077	949	16780		16780	- 73	12	1097	193	36	866	3030	3066		3066	9.20	
18470	2798	13	4584	105310	- 181	965	1520	580	1040	2560		2560	15673	985	16370		16370	- 303	13	1095	192	35	864	3000	3035		3035	9.19	
20510	2745	14	4568	103380	973	976	1550	581	1040	2590		2590	13893	10.72	19980		19980	- 1087	14	1094	192	35	863	3010	3046		3046	10.01	
22070	2504	15	4568	103380	0	981	1570	584	1050	2620		2620	19450	10.07	17410		17410	2040	15	1093	192	35	863	3010	3045		3045	9.99	
20130	2087	16	4584	105310	- 973	985	1580	582	1040	2620		2620	16337	10.02	17220		17220	- 683	16	1096	192	35	867	3020	3075		3075	10.00	
21620	2053	17	4588	105790	- 242	979	1560	578	1030	2590		2590	18848	10.62	19580		19580	- 732	17	1095	192	35	866	3010	3065		3065	10.00	
23170	2073	18	4582	105070	363	982	1570	580	1040	2610		2610	20923	10.81	20340		20340	583	18	1095	192	35	864	3000	3035		3035	9.92	
23170	1858	19	4583	105190	- 60	982	1570	580	1040	2610		2610	20510	10.78	20220		20220	290	19	1096	192	35	864	3000	3035		3035	9.90	
23520	1823	20	4578	104580	308	982	1570	578	1030	2600		2600	20510	10.78	20220		21280	- 42	20	1096	192	35	865	3010	3065		3065	9.90	
24380	1872	21	4571	103740	424	984	1570	578	1030	2600		2600	21238	11.04	21280		23190	- 986	21	1100	192	35	865	3020	3075		3075	9.92	
25510	2100	22	4567	103260	242	983	1570	579	1030	2600		2600	22204	11.50	23190		21940	1212	22	1098	192	35	866	3010	3065		3065	9.91	
24690	2060	23	4554	101690	792	976	1550	579	1030	2580		2580	22902	11.21	21980		21980	922	23	1100	192	35	867	3020	3075		3075	9.91	
24840	2003	24	4546	100730	494	960	1510	578	1030	2540		2540	22784	11.22	22020		22020	764	24	1096	192	35	867	3020	3075		3075	9.92	
23770	1683	25	4542	100250	242	962	1520	579	1030	2550		2550	21462	10.88	20650		20650	832	25	1096	192	35	865	3010	3065		3065	9.90	
23120	1731	26	4543	100370	- 61	962	1520	582	1040	2560		2560	20499	10.74	20060		20060	439	26	1098	193	36	869	3030	3086		3086	9.91	
23470	1950	27	4544	100490	- 60	953	1490	582	1040	2530		2530	20880	10.86	20350		20550	330	27	1099	192	35	867	3020	3075		3075	9.91	
23670	2088	28	4538	99760	368	939	1460	581	1040	2500		2500	21538	11.24	22100		22100	- 562	28	1098	192	35	868	3020	3075		3075	9.91	
24540	2417	29	4541	100130	- 187	905	1370	579	1030	2400		2400	21953	11.50	23190		23190	- 1237	29	1100	192	35	867	3020	3075		3075	9.92	
26080	2071	30	4561	102540	-1215	882	1310	577	1020	2330		2330	22535	11.74	24200		24200	-1665	JULY 1	1100	192	35	866	3010	3065		3065	9.90	
21350	1944	Jun 1	4245.66	103140	- 303	883	1310	577	1010	2320		2320	25527	12.59	27870		27870	-2343	2	1099	192	35	867	3020	3075		3075	9.84	
22430	1682	2	4570	103620	- 242	880	1310	570	1000	2310		2310	27873	12.98	29580		29580	-1702	3	1101	192	35	866	3030	3065		3065	9.85	
22770	1804	3	4566	103140	242	881	1310	573	1010	2320		2320	30692	13.44	31630		31630	- 938	4	1100	192	35	866	3030	3065		3065	9.77	
22740	1584	4	4567	103260	- 61	880	1310	575	1020	2330		2330	31349	13.34	31180		31180	169	5	1099	192	35	866	3040	3065		3065	9.90	
23220	1776	5	4561	102540	363	894	1340	575	1020	2360		2360	31223	HD	29260		29260	1963	6	1097	192	35	864	3030	3085		3085	9.92	
23750	1715	6	4568	103380	- 424	924	1420	578	1030	2450		2450	26876	11.47	23060		23060	3816	7	1100	192	35	865	3030	3095		3085	10.03	
23240	1724	7	4547	100850	1276	949	1480	581	1040	2520		2520	24996	11.45	22980		22980	2016	8	1098	191	35	862	3020	3075		3075	10.06	
22030	1701	8	4535	99400	731	971	1540	580	1030	2570		2570	22191	HD	16800		16800	5391	9	1100	196	37	864	3030	3087		3087	10.16	
21660	1695	9	4530	98800	303	980	1560	582	1040	2600		2600	15363	7.90	9730		9730	5633	10	1104	196	37	866	3040	3097		3097	10.34	
21240	1646	10	4527	98440	182	983	1570	592	1070	2640		2640	8782	7.34	8010		8010	772	11	1102	196	37	866	3040	3097		3097	10.33	
21360	1457	11	4540	100010	- 792	984	1570	594	1070	2640		2640	7928	7.37	8100		8100	- 172	12	1103	196	37	866	3040	3097		3097	10.33	
21260	1443	12	4567	103260	-1639	984	1570	593	1070	2640		2640	7931	7.29	7860		7860	121	13	1102	196	37	866	3040	3097		3097	10.47	
21830	1546	13	4575	104220	- 494	984	1570	592	1070	2640		2640	8356	7.84	9540		9540	- 684	14	1104	196	37	866	3040	3097		3097	10.45	
21480	1375	14	4559	102290	973	984	1570	593	1070	2640		2640	11313	8.22	11000		11000	813	15	1103	196	37	866	3040	3097		3097	10.43	
21260	1373	15	4548	100970	666	984	1570	594	1070	2640		2640	10286	7.42	8250		8250	2036	16	1104	196	37	865	3030	3087		3087	10.42	
21350	1442	16	4530	98800	1094	984	1570	588	1060	2630		2630	7344	7.04	7140		7140	704	17	1106	197	37	868	3030	3107		3107	10.41	
21330	1746	17	4516	97110	852	984	1570	592	1070	2640		2640	6892	7.06	7190		7190	- 298	18	1104	198	38	869	3060	3117		3117	10.44	
21270	1755	18	4524	98030	- 489	985	1580	591	1060	2640		2640	6111	6.86	6630		6630	- 519	19	1094	198	38	869	3000	3058		3058	10.23	
21231	1966	19	4546	100730	-1336	985	1580	589	1060	2640		2640	6164	6.81	6490	- 1	6491	- 326	20	1096	193	37	862	3020	3077		3077	10.16	
21161	2132	20	4568	103330	-1336	985	1580	588	1060	2640	679	1761	6844	6.82	6520	520	6000	324	21	1095	193	37	861	3040	3097	97	3000	10.33	
21245	1995	21	4575	104220	- 424	984	1570	591	1060	2630	904	1726	7616	6.87	6660	741	5919	356	22	1100	193	37	866	3040	3097	173	2931	10.33	
21222	1959	22	4572	103860	182	984	1570	592	1070	2640	914	1726	7282	6.83	6540	784	5756	742	23	1096	193	37	866	3040	3097	341	2756	10.44	
21161	2166	23	4578	104580	- 363	983	1570	592	1070	2640	914	1726	5957	6.81	6490	852	5639	- 533	24	1096	193	37	862	3030	3087	449	2638	10.29	
21132	2159	24	4586	105530	- 489	984	1570	592	1070	2640	914	1726	6681	6.79	6490	1342	5086	351	25	1094	198	37	863	3020	3077	991	2086	10.24	
21171	2105	25	4589	105910	- 182	984	1570	591	1060	2630	904	1726	7148	6.80	6460	1009	4451	688	26	1101	198	37	867	3050	3107	656	1451	10.32	
21172	2038	26	4584	103790	60	984	1570	590	1060	2630	904	1726	7210	6.80	6460	2284	4176	750	27	1095	198	37	869	3000	3057	2249	808	10.31	
21184	2035	27	4582	105070	363	984	1570	589	1060	2630	904	1726	7083	6.79	6430	3622	3808	633	28	1084	198	37	867	3020	3107	3707	400	10.40	
21191	2270	28	4572	103860	610	983	1570	590	1060	2630	1012	1618	7220	6.86	6630	3230	3400	590	29	1102	198	37	865	3030	3087	2687	400	10.40	
21196	2278	29	4568	103380	242	984	1570	593	1060	2630	1554	1076	6782	6.86	6630	3230	3400	152	30	1100	198	37	871	3070	3127	2727	400	10.33	
21209	2211	30	4554	101690	852	984	1570	588	1050	2620	1921	699	7292	6.85	6600	3200	3400	692	31	1103	198	37	868	3050	3100	2704	400	10.45	
21210	2175	31	4547	100850	424	984	1570	586	1040	2610	2040	570	6634	6.86	6630	3230	3400	4	AUG 1	1102	198	37	867	3040	3107	2746	400	10.41	
21161	AUG 1	4245.53	101570	- 363	985	1580	590	1050	2630	2074	556	6177	6.86	6630	3230	3400	- 453	2	1102	197	36	867	3040	3107	2746	400	10.45	
21177	2	4562	102660	- 550	978	1560	589	1040	2600	1940	660	6770	6.81	6490	3090	3400	280	3	1103	198	36	868	3000	3036	2636	400	10.41	
21222	3	4568	103380	- 363	955	1500	589	1040	2540	1407	1133	6987	6.81	6490	3090	3400	497	4	1105	198	36	868	3000	3036	2636	400	10.41	

PLATE NO. VII.

Min. Theo. Bal.	MINIDOKA Gage	MINIDOKA Disch	Stor.	Nor.	Weekly Minid. Loss	Date 1927	Lake Milner Gage	PA Lat. Gage	PA Lat. Disch	N.S.T.F. Can. Gage	N.S.T.F. Can. Disch	PA+NSTFCan. Total	PA+NSTFCan. Std.	S.S.T.F. Canal Nor.	S.S.T.F. Canal Gage	S.S.T.F. Canal Disch	Stor.	Nor.	Milner Low Lift C. Gage	Milner Low Lift C. Disch	Stor.	Nor.	Milner Theo. Bal.	MILNER Gage	MILNER Disch	MILNER Std.	MILNER Nor.	Minid.-Mil. Gain
6551	9.33	15310		15310	1047	JUN 4	10.92	1.94	5.6	8.61	3030	3086		3086	9.17	2880		2880	2.76	91		91	9453	H.D.	7460		7460	21993
6763	9.35	15300		15300	1365	5	10.96	1.94	5.6	8.65	3010	3066		3066	9.22	2910		2910	2.72	89		89	6735	10.81	6320		6320	- 215
6550	9.34	15320		15320	30	6	10.93	1.94	5.6	8.65	3010	3066		3066	9.22	2910		2910	2.78	89		89	6414	10.92	6610		6610	176
6418	9.28	15360		15360	58	7	10.97	1.93	5.6	8.63	3010	3066		3066	9.33	2970		2970	2.83	94		94	6530	10.98	6700		6700	170
6241	9.24	15370		15370	- 189	8	10.98	1.93	5.6	8.63	3010	3066		3066	9.34	3100		3100	2.75	90		90	6614	H.D.	6026		6026	594
6360	9.31	15360		15360	100	9	10.96	1.94	5.6	8.65	3010	3066		3066	9.67	3170		3170	2.83	94		94	6430	11.22	6970		6970	340
6330	9.03	15340		15340	- 290	10	10.94	1.94	5.6	8.66	3010	3066		3066	H.D	3070		3070	2.74	60		60	7344	11.44	7210		7210	- 134
6169	9.70	15790		15790	79	11	10.96	1.94	5.6	8.66	3010	3066		3066	9.80	3250		3250	2.99	102		102	7372	11.52	7300		7300	- 72
6134	9.13	15710		15710	- 73	12	10.97	1.93	5.6	8.66	3010	3066		3066	9.91	3320		3320	2.99	102		102	7622	12.35	8210		8210	338
6077	9.45	15780		15780	- 303	13	10.95	1.92	5.5	8.64	3000	3055		3055	9.99	3370		3370	3.01	104		104	8651	13.10	9110		9110	459
6023	9.35	16370		16370	- 397	14	10.95	1.93	5.6	8.65	3010	3066		3066	10.01	3380		3380	2.98	102		102	10022	H.D.	13680		13680	3458
5993	10.72	19980		19980	-1087	15	10.94	1.92	5.5	8.65	3010	3065		3065	9.99	3370		3370	2.98	102		102	13423	H.D.	11980		11980	-1463
5950	9.07	17410		17410	2040	16	10.95	1.92	5.5	8.67	3020	3075		3075	10.00	3370		3370	3.00	103		103	10362	14.04	10400		10400	- 462
5937	10.82	17220		17220	- 683	17	10.96	1.92	5.5	8.66	3010	3065		3065	10.00	3370		3370	3.02	104		104	10681	H.D.	12920		12920	2249
5948	10.62	19580		19580	- 732	18	10.95	1.92	5.5	8.64	3000	3055		3055	9.92	3320		3320	2.78	92		92	13118	16.35	14610		14610	1497
5923	10.81	20340		20340	583	19	10.96	1.92	5.5	8.64	3000	3055		3055	9.90	3310		3310	3.03	104		104	13871	16.72	14350		14350	479
5910	10.78	20220		20220	290	20	10.96	1.92	5.5	8.65	3010	3065		3065	9.90	3310		3310	3.04	105		105	13740	16.45	15210		15210	1470
5838	11.04	21280		21280	- 42	21	11.00	1.92	5.5	8.68	3020	3075		3075	9.92	3320		3320	3.05	106		106	14779	17.55	17120		17120	2341
5824	11.50	23190		23190	- 986	22	10.96	1.92	5.5	8.66	3010	3065		3065	9.91	3320		3320	3.05	106		106	16699	17.32	16620		16620	- 79
5852	11.20	21940		21940	1212	23	10.98	1.92	5.5	8.67	3020	3075		3075	9.91	3320		3320	3.04	105		105	15440	17.00	15950		15950	510
5902	11.21	21980		21980	922	24	11.00	1.92	5.5	8.67	3020	3075		3075	9.92	3320		3320	3.03	104		104	15451	17.28	16540		16540	1059
5884	11.22	22020		22020	764	25	10.96	1.92	5.5	8.65	3010	3065		3065	9.90	3310		3310	3.03	104		104	15541	16.70	15320		15320	- 221
5962	10.88	20630		20630	832	26	10.98	1.93	5.6	8.69	3030	3086		3086	9.91	3320		3320	3.04	105		105	14119	16.04	13990		13990	- 129
5999	10.74	20060		20060	439	27	10.99	1.92	5.5	8.67	3020	3075		3075	9.91	3320		3320	3.02	104		104	13561	16.20	14310		14310	749
5980	10.86	20350		20350	330	28	10.98	1.92	5.5	8.68	3020	3075		3075	9.91	3320		3320	3.02	103		103	14052	H.D.	15590		15590	1538
6039	11.24	22100		22100	- 562	29	11.00	1.92	5.5	8.67	3020	3075		3075	9.92	3320		3320	3.02	102		102	15603	17.68	17410		17410	1807
6053	11.50	23190		23190	-1237	30	11.01	1.92	5.5	8.66	3010	3065		3065	9.90	3310		3310	3.02	102		102	16713	H.D.	17210		17210	497
6135	11.74	24200		24200	-1665	JUL 1	11.00	1.92	5.5	8.68	3020	3075		3075	9.84	3280		3280	3.00	100		100	17745	19.35	21530		21530	3785
6241	12.59	27870		27870	-2343	2	10.99	1.92	5.5	8.67	3020	3075		3075	9.77	3230		3230	2.73	86		86	21479	20.02	23470		23470	1991
6253	12.98	29580		29580	-1702	3	11.01	1.92	5.5	8.66	3030	3085		3085	9.77	3230		3230	3.01	100		100	23165	20.55	25110		25110	1945
6292	13.44	31630		31630	- 938	4	11.00	1.92	5.5	8.66	3030	3085		3085	9.83	3270		3270	3.03	102		102	25173	20.55	25110		25110	- 63
6289	13.34	31180		31180	169	5	10.99	1.92	5.5	8.66	3040	3095		3095	9.90	3310		3310	3.02	101		101	24674	20.42	24700		24700	26
6283	H.D.	29260		29260	1963	6	10.97	1.92	5.5	8.64	3030	3085		3085	9.92	3320		3320	3.03	102		102	22753	H.D.	18360		18360	-4393
6276	11.47	23060		23060	3816	7	11.00	1.92	5.5	8.65	3030	3085		3085	10.03	3390		3390	3.04	102		102	16483	17.56	17150		17150	667
6246	11.45	22980		22980	2016	8	10.98	1.91	5.5	8.62	3020	3075		3075	10.26	3530		3530	3.05	102		102	16273	H.D.	12590		12590	-3683
6213	H.D.	16800		16800	5391	9	11.00	1.96	5.7	8.64	3030	3087		3087	10.18	3480		3480	3.05	102		102	10131	H.D.	4320		4320	-5811
6203	7.90	9730		9730	5633	10	11.04	1.96	5.7	8.66	3040	3097		3097	10.34	3580		3580	3.06	103		103	2950	H.D.	2300		2300	- 650
6182	7.34	8010		8010	772	11	11.02	1.96	5.7	8.66	3040	3097		3097	10.33	3700		3700	3.05	102		102	1111	H.D.	1160		1160	49
6161	7.37	8100		8100	- 172	12	11.03	1.96	5.7	8.66	3040	3097		3097	10.33	3700		3700	3.05	102		102	1201	H.D.	1310		1310	109
6141	7.29	7960		7960	121	13	11.02	1.96	5.7	8.66	3040	3097		3097	10.47	3660		3660	3.06	103		103	1000	H.D.	2130		2130	1130
6126	7.84	9540		9540	- 684	14	11.04	1.96	5.7	8.66	3040	3097		3097	10.43	3640		3640	3.05	102		102	2701	8.92	4480		4480	1779
6105	8.29	11000		11000	813	15	11.03	1.96	5.7	8.66	3040	3097		3097	10.43	3640		3640	3.05	102		102	4161	6.33	1990		1990	-2171
6085	7.42	8260		8260	7036	16	11.04	1.96	5.7	8.65	3030	3087		3087	10.42	3630		3630	3.06	103		103	1436	H.D.	738		738	- 692
6064	7.04	7740		7740	704	17	11.06	1.97	5.7	8.68	3050	3107		3107	10.41	3630		3630	3.07	104		104	299	H.D.	617		617	313
6045	7.06	7790		7790	- 292	18	11.04	1.98	5.8	8.69	3060	3113		3113	10.44	3640		3640	3.10	105		105	327	H.D.	476		476	149
6026	6.86	6630		6630	- 519	19	10.94	1.98	5.8	8.59	3000	3058		3058	10.73	3510		3510	H.D.	25		25	37	H.D.	221		221	184
6011	6.81	6490	- 1	6491	- 326	20	10.96	1.98	5.7	8.62	3020	3077		3077	10.76	3470	56	3414	3.02	101	101	0	- 153	262	86	86	0	244
5992	6.52	6320	520	6000	324	21	10.95	1.98	5.7	8.66	3040	3097	97	3000	10.38	3610	610	3000	3.02	101	101	0	- 288	209	35	35	0	323
5977	6.60	6460	141	3919	956	22	11.00	1.98	5.7	8.66	3040	3097	173	2919	10.49	3670	670	3000	H.D.	93	93	0	- 200	205	33	33	0	293
5963	6.52	6320	184	3736	742	23	10.96	1.98	5.7	8.66	3040	3097	341	2756	10.44	3640	640	3000	2.77	88	88	0	- 285	204	32	32	0	317
5949	6.41	6200	252	3639	- 333	24	10.96	1.98	5.7	8.64	3030	3087	449	2638	10.29	3630	550	3000	2.90	95	95	0	- 242	185	23	23	0	265
5930	6.29	6090	344	3446	251	25	10.94	1.98	5.7	8.63	3020	3077	991	2086	10.24	3520	520	3000	2.94	97	97	0	- 264	185	23	23	0	287
5910	6.40	6200	207	4451	648	26	11.01	1.98	5.7	8.67	3030	3107	1656	1451	10.42	3630	630	3000	2.94	97	97	0	- 374	186	24	24	0	394
5891	6.60	6460	224	4176	760	27	10.95	1.98	5.7	8.60	3010	3067	1891	1176	10.37	3600	600	3000	H.D.	81	81	0	- 283	187	24	24	0	312
5872	6.30	6170	272	3808	653	28	10.84	1.98	5.7	8.59	3000	3057	2249	808	10.31	3560	560	3000	2.91	96	96	0	- 283	191	26	26	0	309
5846	6.30	6230	330	3400	590	29	11.02	1.98	5.7	8.67	3050	3107	2707	400	10.46	3620	620	3000	2.98	99	99	0	- 196	196	28	28	0	224
5826	6.30	6230	330	3400	152	30	11.00	1.98	5.7	8.65	3030	3087	2687	400	10.40	3620	620	3000	3.02	101	101	0	- 173	183	24	24	0	202
5806	6.60	6530	230	3400	692	31	11.03	1.98	5.7	8.71	3070	3127	2727	400	10.53	3620	620	3000	3.06	103	103	0	- 330	200	30	30	0	360
5786	6.60	6530	230	3400	4	AUG 1	11.05	1.98	5.7	8.68	3050	3107	2702	400	10.45	3700	700	3000	2.90	93	93	0	- 217	219	42	42	0	259
5766	6.30	6230	330	3400	- 453	2	11.02	1.97	5.6	8.67	2990	3046	2646	400	10.41	3650	650	3000	3.02	101	101	0	- 141	191	26	26	0	173
5747	6.40	6390	290	3400	280	3	11.03	1.98	5.6	8.68	3000	3056	2656	400	10.42	3630	630	3000	3.00	98	98	0	- 294	192	26	26	0	320
5731	6.40	6390	290	3400	497	4	11.05	1.98	5.6	8.68	3000	3056	2656	400	10.41	3630	630	3000	2.77	84	84	0	- 280	196	28	28	0	308

1927 DISTRIBUTION WATER DISTRICT NO 36.

DATE 1927	JACKSON LAKE GAGE	JACKSON LAKE CAPAC. AC.FT.	JACKSON LAKE DRAFT AC.FT.	MORAN GAGE	MORAN DISCH	MORAN STOR	MORAN NOR	DATE 1927	HEISE GAGE	HEISE DISCH
[illegible]	[illegible]	[illegible]	4800	315	4210	2426	1790	Aug 1	373	11530
[illegible]	[illegible]	[illegible]	4780	316	4230	2410	1820	2	374	11570
2	[illegible]	[illegible]	3010	316	4230	2626	1704	3	367	11290
3	[illegible]	[illegible]	3520	316	4230	2783	1447	4	359	10960
4	[illegible]	776430	3770	316	4230	2909	1321	5	353	10720
5	[illegible]	770230	3760	316	4230	2904	1326	6	349	10560
6	[illegible]	764960	3730	316	4230	2339	1341	7	347	10450
7	[illegible]	759250	3730	315	4210	2889	1321	8	344	10370
8	[illegible]	753510	3720	317	4240	2884	1356	9	343	10335
9	[illegible]	747530	3980	317	4240	3015	1225	10	340	10210
10	[illegible]	741590	3940	316	4210	2995	1215	11	336	10050
11	6437	735630	3940	315	4210	2935	1215	12	334	9920
12	[illegible]	[illegible]	3190	315	4210	2617	1593	13	334	[illegible]
13	[illegible]	726010	4450	316	4230	2243	1987	14	337	[illegible]
14	6398	721070	4940	314	4190	2491	1699	15	336	10050
15	[illegible]	[illegible]	3890	315	4210	2969	1241	16	333	[illegible]
16	6349	709040	6140	316	4230	3096	1134	17	327	9710
17	6323	702650	6390	315	4210	3222	988	18	321	[illegible]
18	6298	696030	6620	316	4230	3338	892	19	317	9370
19	6270	690660	3370	314	4190	2707	1483	20	320	9420
20	6249	684570	6090	330	4550	3070	1480	21	327	9710
21	6219	677250	7820	346	4910	3690	1220	22	334	[illegible]
22	6189	669960	7290	345	4890	3676	1215	23	330	9820
23	6160	662930	7030	346	4910	3544	1366	24	330	9820
24	6130	655670	7260	344	4870	3660	1210	25	327	9710
25	6099	648160	7310	346	4890	3786	1104	26	324	9590
26	6067	640470	7690	345	4890	3877	1013	27	321	9460
27	6035	632770	7700	346	4910	3882	1028	28	321	9460
28	6003	626040	7690	345	4890	3877	1013	29	321	9460
29	5973	617910	7170	346	4910	3615	1295	30	325	9650
30	5943	610740	7170	346	4910	3615	1295	31	325	9650
31	5912	603340	7400	344	4870	3731	1139	Sept 1	322	[illegible]
Sept 1	5880	[illegible]	7610	344	4870	3837	1033	2	314	9220
2	5847	[illegible]	7830	347	4920	3948	972	3	314	9220
3	[illegible]	580070	7830	346	4910	3944	952	4	313	9180
4	5781	[illegible]	7800	345	4890	3932	[illegible]	5	311	9110
5	5747	[illegible]	8010	346	4910	4034	[illegible]	6	310	[illegible]
6	5714	556490	7770	347	4920	3917	1003	7	310	9070
7	[illegible]	[illegible]	7510	347	4920	3786	1134	8	311	9110
8	[illegible]	[illegible]	7010	345	4890	3339	[illegible]	9	314	[illegible]
9	[illegible]	[illegible]	4450	345	4890	2243	1647	10	370	11410
10	[illegible]	530960	6550	346	4910	3302	1608	11	365	11230
11	[illegible]	523750	7210	344	4870	3835	1225	12	[illegible]	[illegible]
12	[illegible]	517240	6570	[illegible]	[illegible]	3712	1068	13	331	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1407	1225	14	[illegible]	[illegible]
14	[illegible]	513060	[illegible]	321	1830	701	1139	15	[illegible]	[illegible]
15	[illegible]	[illegible]	930	[illegible]	1440	459	977	16	[illegible]	[illegible]
16	[illegible]	[illegible]	2330	[illegible]	2020	1179	[illegible]	17	[illegible]	[illegible]
17	[illegible]	[illegible]	2790	[illegible]	2810	1407	903	18	[illegible]	[illegible]
18	[illegible]	[illegible]	3600	[illegible]	2320	1312	[illegible]	19	[illegible]	[illegible]
19	[illegible]	[illegible]	690	[illegible]	1810	348	[illegible]	20	[illegible]	[illegible]
20	[illegible]	[illegible]		[illegible]	30		30	21	[illegible]	[illegible]
21	[illegible]	[illegible]		[illegible]	36		36	22	[illegible]	[illegible]
22	[illegible]	[illegible]		[illegible]	36		36	23	[illegible]	[illegible]
23	[illegible]	[illegible]		[illegible]	40		40	24	[illegible]	[illegible]
24	[illegible]	[illegible]		[illegible]	30		30	25	[illegible]	[illegible]
25	[illegible]	[illegible]		[illegible]	36		36	26	[illegible]	[illegible]
26	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	27	[illegible]	[illegible]
27	[illegible]	[illegible]		[illegible]	43		[illegible]	28	[illegible]	[illegible]
28	[illegible]	[illegible]		[illegible]	40		40	29	[illegible]	[illegible]
29	[illegible]	[illegible]		[illegible]	41		41	30	[illegible]	[illegible]
[illegible]			[illegible]		[illegible]	[illegible]	[illegible]			[illegible]

HEISE +RILEY	HEISE STD.	HEISE NOR.	MORAN-HEISE TOTAL GAIN	MORAN-HEISE LOSS STD	MORAN-HEISE GAIN NOR	LORENZO STORED	HEISE TO LORENZO LOSS STORED	REXBURG GAGE	REXBURG DISCH	HEISE + RILEY + REXBG	DATE 1927	DIV HEISE-WOOD TOTAL	DIV HEISE-WOOD STD	DIV HEISE-WOOD NOR
[illegible]	2359	9195	7344	61	7405	2215	144	474	1550	13104	[illegible]	[illegible]	261	7980
[illegible]	2350	9248	7368	60	7428	2232	118	421	1520	13118	[illegible]	8193	394	7799
[illegible]	2163	8854	7087	63	7150	2350	113	407	1420	12737	[illegible]	[illegible]	389	7314
[illegible]	2713	8273	6756	70	6826	2591	122	383	1260	12246	[illegible]	[illegible]	[illegible]	7281
[illegible]	2836	7909	6516	73	6589	2728	108	363	1130	11875	[illegible]	8027	830	7197
[illegible]	2831	7734	6355	73	6428	2740	91	345	1020	11605	[illegible]	7789	648	7141
10506	2817	7689	6276	72	6348	2713	104	338	991	11497	[illegible]	7702	596	7106
[illegible]	2817	7578	6185	72	6257	2702	115	332	968	11363	[illegible]	7670	561	7109
10354	2812	7542	6114	72	6186	2694	118	325	940	11294	[illegible]	7700	565	7135
10234	2940	7294	5994	75	6069	2805	135	320	923	11157	[illegible]	7629	513	7116
[illegible]	2920	[illegible]	5864	75	5939	2777	143	323	951	11025	12	7283	324	6959
[illegible]	2920	7083	5793	75	5868	2797	123	330	997	11000	13	7279	410	6869
[illegible]	2532	[illegible]	5793	65	5888	2455	97	341	1070	11073	14	7265	312	6953
[illegible]	2737	[illegible]	5883	56	5939	2647	90	372	1280	11383	15	6809	255	6554
[illegible]	2429	7143	5882	62	5944	2329	100	400	1500	11572	16	6368	161	6207
[illegible]	[illegible]	[illegible]	[illegible]	74	5926	2308	87	427	1720	11682	17	6110	151	5959
[illegible]	3019	6712	5501	77	5378	2928	91	444	1860	11591	18	5999	45	5954
[illegible]	3141	6359	5290	81	5371	3047	94	426	1730	11230	19	6046	42	5993
[illegible]	[illegible]	6134	5159	83	5242	3157	93	416	1650	11039	20	6036	9	6027
[illegible]	2639	[illegible]	[illegible]	68	5337	2860	79	412	1630	11089	21	6070	6	6064
[illegible]	2993	[illegible]	5179	77	5256	2903	90	411	1630	11359	22	6292	8	6284
[illegible]	3598	6401	5089	92	5181	3490	108	399	1540	11539	23	6261	7	6254
[illegible]	3583	6261	4944	92	5036	3476	107	401	1560	11394	24	6232	7	6225
[illegible]	3455	6179	[illegible]	89	5013	3331	104	399	1560	11394	25	6327	11	6316
[illegible]	3569	6135	[illegible]	91	4945	3462	107	407	1620	11344	26	6457	[illegible]	6378
[illegible]	3491	5913	4774	95	[illegible]	3509	122	402	1590	11134	27	6396	183	[illegible]
[illegible]	3730	5713	[illegible]	97	4700	3636	144	392	1520	11013	28	6332	174	6178
[illegible]	3785	5708	[illegible]	97	4680	3634	151	388	1500	10993	29	6361	122	6239
[illegible]	3780	5712	4602	97	4699	3633	147	397	1570	11062	30	6336	129	6207
[illegible]	3625	6178	4733	90	4823	3405	120	405	1640	11233	31	6388	101	6287
[illegible]	3526	6123	[illegible]	90	4829	3416	109	418	1730	11398	Sept 1	[illegible]	43	[illegible]
[illegible]	3639	[illegible]	[illegible]	[illegible]	4671	3325	113	409	1680	11068	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	3741	[illegible]	[illegible]	[illegible]	4465	3570	[illegible]	408	1630	10919	3	[illegible]	39	[illegible]
[illegible]	3849	[illegible]	[illegible]	99	4417	3673	176	407	1630	10918	4	[illegible]	34	[illegible]
[illegible]	3849	[illegible]	[illegible]	99	4337	3673	176	402	1650	10846	5	[illegible]	29	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4330	3659	175	406	1680	10802	6	[illegible]	27	[illegible]
[illegible]	3937	[illegible]	4172	101	[illegible]	3757	180	401	1650	10732	7	[illegible]	12	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	98	4260	3645	174	[illegible]	1610	10692	8	[illegible]	59	[illegible]
[illegible]	3691	[illegible]	[illegible]	95	[illegible]	3523	168	[illegible]	1600	10722	9	[illegible]	90	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3294	137	[illegible]	1630	11018	10	[illegible]	109	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	56	[illegible]	2087	100	403	1690	13120	11	[illegible]	225	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	83	[illegible]	3072	147	429	1840	13159	12	[illegible]	110	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	91	[illegible]	3382	162	430	1910	12248	13	[illegible]	104	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5600	3054	146	431	1920	11788	14	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1309	63	439	1930	10395	15	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5163	652	31	436	2130	9110	16	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5113	436	21	438	2150	8691	17	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	5116	[illegible]	[illegible]	4271	1034	[illegible]	[illegible]	2110	8372	18	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	5330	4392	35	4417	1309	63	444	2030	8722	19	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	4231	38	4229	1407	67	431	1920	8491	20	[illegible]	[illegible]	[illegible]
[illegible]	339	5823	3742	9	3751	324	13	429	1900	8862	21	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	4592		4592			[illegible]	1860	[illegible]	22	[illegible]		[illegible]
[illegible]		[illegible]	4236		4236			411	1760	[illegible]	23	[illegible]		[illegible]
[illegible]		[illegible]	[illegible]		[illegible]			[illegible]	[illegible]	[illegible]	24	[illegible]		[illegible]
[illegible]		[illegible]	[illegible]		[illegible]			417	1810	[illegible]	25	[illegible]		[illegible]
[illegible]		[illegible]	[illegible]		4392			[illegible]	[illegible]	[illegible]	26	[illegible]		[illegible]
[illegible]		[illegible]	[illegible]		[illegible]			[illegible]	2000	[illegible]	27	[illegible]		[illegible]
[illegible]		[illegible]	[illegible]		[illegible]			[illegible]	[illegible]	[illegible]	28	[illegible]		[illegible]
[illegible]		[illegible]	[illegible]		[illegible]			[illegible]	[illegible]	[illegible]	29	[illegible]		[illegible]
[illegible]		[illegible]	4601		4601			[illegible]	[illegible]	[illegible]	30	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

DAILY SUMMARY OF DATA AT AND BETWEEN SNAKE RIVER GAGING STATIONS

DIV HEISE-WOOD			WOOD THEO BAL.	WOODVILLE				LOR. WOOD LOSS STD.	HEISE-WOOD			DIV WOOD-BL BR			BL BR THEO. BAL.	BLACKFOOT BR.			WOOD.-BLACK BR.			SMITH MAX CAN.	BLACK	BL BR CLOUGHS THEO. BAL.	CLOUGHS				BL CLOUGHS
TOTAL	STD.	NOR.		GAGE	DISCH	STD.	NOR.		TOTAL GAIN	LOSS STD.	GAIN NOR.	TOTAL	STD.	NOR.		DISCH	STOR	NOR.	TOTAL GAIN	LOSS STD.	GAIN NOR.		GAGE		GAGE	DISCH	STOR	NOR.	
3241	361	7335	4363	701	6140	1343	4797	11	1277	535	1432	3283	3	3230	2857	2874	1260	1614	17	80	97	18	5.63	3000	423	3120	1760	1360	
3193	394	7299	4325	699	6080	1327	4753	11	1255	529	1284	3283	1	3224	2855	2839	1246	1593	- 16	80	64	19	5.50	3343	440	3070	1726	1344	
3203	389	7314	4334	693	5900	1449	4451	12	1366	126	1431	3113	10	3103	2787	2776	1353	1423	- 11	96	75	18	5.38	3374	394	2950	1353	597	
3099	248	7251	4147	682	5630	1730	3350	13	1433	135	1568	3093	20	3072	2488	2507	1607	900	19	103	122	17	5.34	3253	395	2650	1607	1043	
3017	830	7197	3843	672	5290	1834	3406	14	1443	122	1564	3026	18	3008	2264	2247	1754	493	- 17	112	95	15	5.16	3303	374	2370	1784	586	
2778	648	7141	3816	669	5200	2078	3122	14	1384	105	1489	2938		2918	2202	2224	1953	271	22	125	147	17	5.42	3247	341	2360	1853	507	
2702	546	7106	3735	668	5170	2103	3067	14	1375	118	1493	2956		2956	2214	2257	1977	280	43	176	169	19	5.39	3253	317	2300	1977	323	
2670	561	7109	3693	664	5060	2127	2933	14	1367	129	1496	2896		2896	2164	2179	1999	180	15	125	143	19	5.36	3253	331	2310	1999	311	
2700	563	7135	3594	662	5010	2116	2894	13	1416	131	1547	2839		2839	2171	2149	1989	160	- 22	127	105	15	5.33	3249	314	2340	2046	294	361
2723	573	7116	3522	660	4930	2278	2672	14	1422	149	1571	2730		2730	2220	2230	2141	89	10	137	147	18	5.60	3340	342	2440	2141	299	
2753	524	6959	3542	661	4980	2239	2741	14	1433	157	1590	2771		2771	2209	2277	2103	172	68	134	202	17	5.83	3436	332	2240	2106	134	
2749	410	6869	3721	667	5130	2373	2777	14	1429	137	1566	2745		2745	2605	2636	2231	405	31	142	173	3	6.04	3403	411	2420	2231	189	
2745	313	6753	4008	623	5610	2131	3479	12	1602	109	1711	2403		2403	3207	3360	2003	1357	153	124	277	2	6.60	3426	460	3670	2003	1667	-
6809	295	6514	4544	703	6200	1832	4368	11	1616	101	1717	2295		2295	3905	4042	1722	2320	137	110	247	2	7.35	3487	503	4500	1722	2778	-
6968	161	6207	5204	722	6790	2156	4634	12	1586	112	1698	2302		2302	4458	4545	2027	2518	57	129	186	2	7.82	3587	591	5100	2027	3073	
6110	151	5959	5572	730	7050	2643	4407	14	1478	101	1579	2232		2232	4818	4863	2454	2984	50	159	209	1	7.35	3443	647	5370	2484	2886	
5993	45	5954	5592	733	7150	2868	4282	15	1558	106	1664	2243		2243	4907	4932	2696	2236	25	172	197	1	7.88	3490	651	5540	2515	2844	
6040	42	5998	5190	724	6860	2990	3870	15	1670	103	1773	1961		1961	4899	4863	2811	2054	- 34	173	145	1	7.85	3516	662	5570	2811	2759	
6036	9	6027	5003	716	6610	3132	3478	16	1607	114	1721	1748		1748	4862	4748	2944	1804	- 114	188	74	1	7.22	3141	537	5240	2944	2296	
6070	6	6064	5019	715	6580	2541	4039	13	1561	92	1653	1859		1859	4721	4653	2388	2297	- 36	183	117	1	6.96	3477	517	5050	2388	2662	
6292	8	6284	5067	720	6730	2880	3850	15	1663	105	1768	1886		1886	4814	4740	2707	2033	- 104	178	69	1	6.90	3503	528	5100	2707	2393	
6261	7	6254	5278	722	6790	3466	3324	17	1512	125	1637	2092		2092	4698	4602	3258	1344	- 96	208	112	0	5.98	3485	517	4870	3258	1612	
6232	7	6225	5162	715	6580	3452	3128	17	1418	124	1542	2300		2300	4280	4197	3245	952	- 83	207	124	0	5.83	3467	486	4400	3245	1155	
6327	11	6316	5067	708	6360	3323	3037	17	1293	121	1414	2464		2464	3896	3810	3124	686	- 86	199	113	0	5.61	3534	476	3700	3124	576	
6237	39	6378	4907	703	6200	3326	2814	17	1293	124	1417	2448		2443	3732	3665	3183	482	- 87	203	116	0	5.58	3783	443	3460	3183	277	
6390	185	6205	4804	700	6110	3366	2744	18	1306	140	1446	2461		2461	3649	3496	3164	332	- 153	202	49	0	5.64	3683	459	3690	3164	526	
6332	174	6178	4661	697	6020	3444	2576	18	1359	162	1521	2538		2538	3492	3426	3237	189	- 56	207	151	0	5.86	3702	440	3710	3237	473	
6361	122	6239	4632	698	6050	3494	2556	18	1418	169	1587	2514		2514	3536	3490	3284	206	- 46	210	164	0	6.15	3724	467	3840	3284	556	
6336	129	6207	4726	699	6080	3486	2594	18	1354	165	1519	2486		2486	3594	3476	3277	219	- 28	209	181	0	6.20	3752	444	3820	3277	543	
6388	101	6287	4895	706	6300	3287	3013	17	1403	137	1542	2502		2502	3798	3665	3090	575	- 133	197	64	0	6.17	3814	476	3960	3090	870	
6309	43	6166	5189	711	6450	3336	3094	17	1261	126	1387	2461		2461	3939	3864	3155	709	- 125	201	76	0	6.38	4168	418	4250	3163	1035	
6908	40	5868	5160	715	6580	3467	3113	18	1420	131	1551	2392		2392	4188	4036	3259	777	- 152	208	56	0	6.02	4369	492	4580	3259	1321	
5722	39	3623	5197	710	6420	3513	2907	18	1223	189	1412	2397		2397	4073	3935	3302	633	- 38	211	173	0	5.57	4102	435	4190	3302	888	
5645	34	5611	5273	712	6480	3621	2859	18	1207	194	1401	2376		2376	4104	3932	3404	548	- 152	217	65	0	5.46	4059	434	4120	3404	716	
5527	29	5498	3321	711	6450	3626	2824	18	1129	194	1323	2362		2362	4088	3979	3408	571	- 109	218	109	0	5.47	4078	424	4170	3408	762	
5352	27	5325	5450	710	6420	3614	2806	18	970	193	1163	2388		2388	4032	3979	3397	582	- 53	217	164	0	5.78	4033	422	4130	3397	733	
5378	12	5366	5334	705	6260	3726	2534	18	906	198	1104	2403		2403	3857	3824	3502	322	- 33	224	191	0	4.94	3960	477	3940	3502	438	
5590	59	5531	5102	704	6230	3568	2662	18	1128	192	1320	2443		2443	3787	3679	3354	325	- 108	214	106	0	5.07	3727	467	3910	3354	556	
5631	90	5541	5091	706	6300	3415	2883	18	1209	186	1395	2402		2402	3898	3753	3210	543	- 145	205	60	0	5.42	3844	429	3960	3210	750	
5659	109	5550	5359	712	6480	3169	3311	16	1131	178	1294	2378		2378	4102	4012	2979	1033	- 90	190	100	0	5.69	4187	436	4270	2979	1291	
5761	225	5536	7359	762	7780	1852	5928	10	421	110	531	2356		2356	5394	5406	1741	3665	12	111	123	0	6.73	3535	350	3660	1741	3919	
5875	110	5265	7784	769	8360	2947	5413	15	576	162	738	2137		2137	6223	6100	2770	3330	- 123	177	54	1	6.78	4083	393	6760	2770	3990	
5111	106	5005	7737	758	7930	3259	4721	17	843	179	1022	1844		1844	6736	6740	3063	3077	4	196	200	1	6.23	4457	393	6760	3063	3697	
4546	2	4544	7242	734	7850	3037	4813	15	608	161	769	1750		1750	6100	6010	2853	3155	- 90	182	92	1	5.90	4184	372	6460	2853	3607	
4295	2	4293	6100	731	7080	1300	5780	7	980	70	1050	1630		1630	5450	5404	1222	4182	- 46	71	25	1	5.33	3960	365	5760	1222	4538	
4121	1	4120	4989	705	6260	648	5612	3	1271	34	1305	1619		1619	4641	4623	609	4019	- 13	39	26	1	5.86	4303	386	4940	609	4331	
4166		4100	4591	690	5310	434	5376	2	1219	23	1242	1708		1708	4102	4138	408	3730	36	26	62	0	6.04	4356	405	4480	408	3592	
4094		4094	4278	678	5460	1089	4371	5	1182	37	1219	1723		1723	3732	3740	1024	2716	- 8	65	73	0	6.14	4388	481	4710	1024	3686	
4079		4079	4643	681	5550	1302	4248	7	907	74	981	1762		1762	3763	3760	1224	2536	- 28	78	50	0	6.24	4078	435	4750	1224	3526	
3956		3956	4533	675	5330	1400	3980	7	845	17	862	1810		1810	3570	3536	1316	2220	- 34	84	50	0	5.95	4332	464	4840	1316	3524	
3807		3807	4755	668	5170	322	4848	2	915		915	1839		1839	3331	3350	303	3047	19	19	38	0	5.43	4320	420	5600	303	5297	
3634		3634	2868	643	4550		4550		1682		1682	1851		1851	2699	2454		2454	- 245		- 245	0	5.62	3910	404	4110		4110	
3536		3536	2526	623	4000		4000		1474		1474	1793		1793	2207	1938		1938	- 269		- 269	0	5.44	3877	364	3700		3700	
3455		3455	2547	608	3660		3660		1113		1113	1683		1683	1975	1890		1890	- 85		- 85	0	5.35	3777	353	3630		3630	
3419		3419	2664	601	3500		3500		836		836	1671		1671	1839	1814		1814	- 25		- 25	0	5.38	3733	353	3570		3570	
3426		3426	2934	607	3630		3630		696		696	1764		1764	1866	1877		1877	11		11	0	5.46	3763	363	3670		3670	
3414		3414	3132	613	3770		3770		632		632	1763		1763	2002	1948		1948	- 54		- 54	0	5.68	3763	363	3670		3670	
3527		3527	3095	608	3660		3660		565		565	1567		1567	2093	1925		1925	- 168		- 168	0	5.91	3763	363	3670		3670	
3582		3582	3010	610	3700		3700		690		690	1479		1479	2221	2153		2153	- 68		- 68	0	6.73	3763	363	3670		3670	
3519		3519	3963	633	4240		4240		877		877	1331		1331	2909	3102		3102	193		193	0	6.73	3763	363	3670		3670	
141112	11973	141805	1445248		1603320	141305	1462015	210	44805	3824	48629	331024	396	330728			132548				3451		342	3000			26538	12548	13990	

VER GAGING STATIONS FROM JACKSON LAKE WYOMING TO MILNER IDAHO.

R.M. DISCH	BL BR CLOUGH THEO. BAL	CLOUGHS GAGE	CLOUGHS DISCH	CLOUGHS STOR	CLOUGHS NOR.	BL BR CLOUGH GAIN	WOOD & BLACK RIVER	DIVERS WOOD CLOUGH	WOOD-GL THEO BL CLOUGHS	WOOD-GL TOTAL GAIN	DATE 1927
144	3000	423	3120	1260	1860	120	6284	3301	2983	137	AUG 3
109	2823	420	3070	1246	1824	141	6189	3244	2945	137	
90	2748	414	2950	1353	1597	102	5990	3131	2859	125	4
84	2574	395	2650	1607	1043	76	5664	3109	2555	91	5
60	2432	374	2320	1784	566	23	5350	3041	2309	93	6
36	2303	377	2360	1959	407	57	5296	3013	2281	11	7
193	2497	387	2500	1977	523	63	5369	2975	2394	79	8
183	2343	381	2410	1999	411	67	5243	2915	2328	106	9
145	2249	377	2340	1989	351	91	5185	2854	2271	82	10
128	2340	384	2440	2141	299	100	5078	2748	2330	69	11
176	2436	392	2540	2105	435	104	5156	2788	2368	110	12
235	2908	417	2920	2231	689	12	5373	2548	2827	172	13
162	3720	460	3670	2003	1667	- 50	5972	2405	3567	93	14
549	4589	503	4500	1722	2778	- 89	6749	2297	4452	103	15
544	5087	531	5100	2027	3073	13	7334	2304	5030	48	16
576	5443	547	5470	2484	2986	27	7626	2233	5393	70	17
559	5490	551	5540	2696	2844	50	7709	2244	5465	77	18
532	5476	552	5570	2811	2759	154	7412	1962	5450	75	19
394	5141	537	5240	2944	2296	99	7004	1749	5255	120	20
394	4978	517	5050	2388	2662	72	6874	1860	5014	- 15	21
220	5019	528	5100	2707	2393	81	7010	1887	5123	36	22
203	4885	517	4870	3258	1612	65	6993	2092	4901	- 23	23
170	4367	495	4400	3245	1155	33	6750	2300	4450	- 31	24
124	3934	475	3990	3124	866	56	6484	2464	4020	- 50	25
118	3783	468	3860	3183	677	77	6318	2448	3870	- 30	26
130	3626	459	3690	3164	526	64	6240	2461	3779	- 10	27
176	3602	460	3710	3237	473	108	6196	2538	3658	- 89	28
144	3734	467	3840	3284	556	106	6294	2514	3780	52	29
156	3752	466	3820	3277	543	68	6336	2486	3850	60	30
149	3914	473	3960	3090	870	46	6549	2502	4047	- 30	31
199	4163	488	4250	3155	1095	87	6749	2461	4288	- 87	SEP 1
213	4249	494	4380	3259	1121	131	6793	2392	4401	- 38	2
177	4102	485	4190	3302	888	88	6537	2397	4140	- 21	3
128	4050	484	4170	3404	766	120	6578	2376	4202	50	4
99	4073	484	4170	3408	762	92	6549	2362	4187	- 82	5
89	4033	482	4130	3397	733	92	6479	2388	4091	- 17	6
36	3860	472	3940	3502	438	80	6296	2403	3893	39	7
48	3727	467	3840	3354	486	113	6278	2443	3835	47	8
91	3844	473	3960	3270	760	116	6391	2402	3989	5	9
70	4132	486	4210	2979	1231	53	6620	2378	4242	- 29	10
39	3643	551	3660	1741	3919	15	8019	2336	5633	- 32	11
199	6495	593	6760	2770	3990	262	8759	2138	6621	27	12
178	6417	593	6760	3063	3697	343	8258	1843	6413	139	13
183	6194	582	6460	2855	3605	266	8033	1751	6284	147	14
170	5993	555	5760	1272	4538	187	7250	1631	5619	176	15
176	4803	520	4940	609	4331	137	6436	1620	4816	141	16
178	4566	495	4400	408	3992	44	6028	1708	4320	124	17
242	3982	481	4110	1024	3086	128	5702	1728	3974	80	18
246	4026	493	4150	1222	2926	124	5816	1762	4054	136	19
216	3732	467	3940	1316	2624	108	5576	1810	3766	96	20
170	3520	454	3600	303	3297	80	5340	1839	3501	74	21
226	2230	402	2710		2710	130	4676	1851	2825	99	22
224	2083	367	2200		2200	168	4094	1793	2301	- 113	23
211	1971	359	2080		2080	109	3741	1685	2056	- 101	24
183	1959	355	2030		2030	71	3535	1671	1914	24	25
201	1975	363	2040		2040	65	3723	1764	1964	116	26
204	2046	368	2170		2170	84	3903	1768	2140	- 76	27
211	2112	368	2210		2210	98	3947	1767	2280	- 30	28
193	2245	397	2640		2640	95	4092	1479	2613	- 70	29
213	2518	459	3620		3620	132	4626	1331	3295	27	30
202			126346	101548	116402		162352	331966	129556	325	OCT 1
										-6206	

AMERICAN FALLS GAGE	AMERICAN FALLS CAPAC. AC FT.	AMERICAN FALLS DRAFT AC FT.	AMERICAN FALLS DRAFT SEC FT	MEAS. INFLOW CL-N	COMP INFLOW CL-N.	NEELEY GAGE	NEELEY DISCH	NEELEY STOR	NEELEY NOR	CLOUGH NEELEY GAIN	DATE 1927
4335.44	1526270	9240	4638	1373	2671	6.44	9310	5279	4331	2032	AUG 4
4337	1577030	9240	4658	1396	2701	6.47	9350	5326	4620	2122	5
4312	1568840	8750	4409	1387	2685	6.33	9310	5024	4286	2251	6
4297	1560760	8720	4094	1406	2705	6.20	9240	5022	3758	2036	7
4290	1551770	9050	4563	1441	2761	6.32	9000	5673	3327	2117	8
4283	1542660	9050	4563	1492	2816	6.37	9240	6017	3223	2317	9
4277	1534140	8520	4295	1509	2844	6.37	9200	5933	3367	2403	10
4271	1525620	8520	4295	1527	2876	6.36	9100	5813	3287	2395	11
4266	1517690	7990	4028	1526	2873	6.28	8820	5396	3424	2452	12
4262	1510180	7450	3756	1520	2867	6.21	8680	5414	3166	2384	13
4259	1505450	4730	2385	1515	2860	6.20	8640	5245	3295	3615	14
4254	1500740	4710	2375	1561	2908	6.20	8640	4943	3597	3245	15
4250	1497080	3660	1845	1632	2963	6.18	8470	3840	4630	2935	16
4246	1494460	2620	1321	1621	3001	6.18	8470	2691	5779	2649	17
4243	1492890	1570	792	1629	3012	6.19	8510	2425	6085	2678	18
4242	1492360	530	267	1632	3016	6.18	8470	2468	6002	2733	19
4241	1491840	520	262	1608	2984	6.20	8540	2712	5828	2738	20
4240	1491320	520	262	1587	2966	6.20	8540	2725	5715	2708	21
4239	1489750	1570	792	1533	2887	6.19	8510	3327	5183	2479	22
4238	1488180	1570	792	1581	2949	6.19	8510	2900	5610	2663	23
4237	1486610	1570	792	1602	2976	6.18	8470	3101	5369	2572	24
4236	1484510	2100	1059	1593	2964	6.17	8440	3964	4576	2511	25
4235	1480850	3660	1845	1542	2896	6.22	8610	4569	4051	2365	26
4234	1475610	5240	2642	1499	2839	6.33	9000	5296	3705	2263	27
4233	1469850	5760	2904	1503	2844	6.33	9030	5609	3521	2266	28
4232	1463570	6280	3166	1513	2857	6.40	9310	5927	3383	2454	29
4231	1457810	5760	2904	1530	2880	6.37	9240	5487	3353	2676	30
4990	1451620	6190	3121	1557	2916	6.34	9170	5638	3472	2709	31
4978	1445450	6170	3111	1564	2925	6.33	9170	5702	3468	2233	SEP 1
4349.67	1439790	5660	2854	1562	2923	6.31	9140	5347	3793	2376	2
4938	1435160	4630	2334	1522	2949	6.29	9100	5056	4044	2516	3
4930	1431050	4110	2072	1566	2928	6.27	9100	5051	4049	2643	4
4941	1426420	4630	2334	1521	2895	6.24	9030	5247	3783	2506	5
4931	1421280	5140	2592	1535	2887	6.22	9000	5347	3653	2338	6
4921	1416140	5140	2592	1516	2861	6.21	9000	5377	3623	2233	7
4912	1411510	4630	2334	1497	2836	6.17	8890	5321	3569	2426	8
4902	1406370	5140	2592	1492	2829	6.18	8960	5693	3767	2423	9
4894	1402310	4060	2047	1505	2847	6.12	8780	5447	3333	2393	10
4887	1398780	3530	1780	1550	2907	6.02	8440	4789	3657	2700	11
4880	1395250	3530	1780	1571	2935	6.00	8370	4204	4166	2380	12
4882	1396260	-1010	-509	1593	2964	6.02	8130	1247	6883	2479	13
4889	1399790	-3530	-1780	1671	3068	6.16	7600	542	7058	2620	14
4896	1403320	-3530	-1780	1699	3092	6.23	7570	731	6789	2590	15
4902	1406370	-3050	-1538	1720	3133	6.29	7380	642	6738	2453	16
4906	1408430	-2060	-1038	1692	3096	6.33	7220	414	7154	2498	17
4906	1408430	0	0	1683	3084	6.34	7250	165	7416	2310	18
4905	1407910	520	262	1675	3073	6.35	7280	215	7065	2618	19
4904	1407400	510	257	1677	3076	6.33	7220	1058	6162	2353	20
4903	1406880	520	262	1678	3077	6.34	7280	1277	6003	2268	21
4901	1405850	1030	519	1684	3085	6.33	7280	1671	5609	2321	22
4897	1403830	2020	1018	1680	3080	6.33	7280	903	6377	2662	23
4890	1400300	3530	1780	1668	3056	6.33	7280	1514	5766	2790	24
4885	1397730	2570	1270	1646	3033	6.33	6400	1165	5235	2430	25
4881	1395760	2020	1018	1619	2992	6.14	6170	691	5079	2672	26
4877	1393740	2020	1018	1603	2980	6.12	6170	730	5010	2692	27
4873	1391720	2020	1018	1633	3017	6.04	6510	453	5057	2452	28
4871	1390720	1000	504	1661	3055	6.00	6390	165	5225	2776	29
4871	1390720	0	0	1670	3067	6.02	6390	53	5277	3120	30
4871	1393740	-3020	-1522	1706	3116	6.12	6390	-225	5765	3712	OCT 1
4885	1397280	-4040	-2037	1773	3124	6.23	6390	-2364	6742	2807	3
		*7560	+3812	12513	549306		574500	260416	1814084		

LAKE WALCOTT GAGE	LAKE WALCOTT CAPAC. AC FT.	LAKE WALCOTT DRAFT
4265.78	104580	-
67	104580	
72	103960	
77	103740	-
82	103280	-
87	104580	-
92	103960	
97	103520	-
4302	103020	
07	102660	-
12	102780	-
17	102660	
22	102410	
27	101640	-
32	100490	
37	99040	
42	97240	-
47	96630	
52	95910	
57	95350	
62	95180	
67	93670	-
72	93150	-
77	92660	-
82	100370	-
87	102050	-
92	103580	-
4397	106510	-
4402	106870	
07	104320	
12	103330	
17	103140	
22	103360	-
27	104700	
32	105770	
37	106650	
42	106750	
47	106150	
52	105770	
57	105790	
62	105470	
67	104550	
72	104700	
77	103820	
82	103020	
87	101930	
92	101030	
97	101930	

Date 1927	Lake Walcott Gage	Lake Walcott Capac. Ac. Ft.	Lake Walcott Draft Sec. Ft.	NS Min Can. Gage	NS Min Can. Disch	SS Min Can. Gage	SS Min Can. Disch	NS+SS Min. Can. Total	NS+SS Min. Can. Std	NS+SS Min. Can. Nor	Min. Theo. Bal.
4	4245.78	104580	-605	940	1460	589	1040	2500	1369	1131	6705
5	4578	104580	0	940	1460	590	1040	2500	1375	1125	7350
6	4572	103960	363	938	1450	588	1030	2480	1594	886	7193
7	4570	103820	121	939	1460	586	1020	2480	2122	338	6421
8	4571	103740	-60	931	1440	580	1020	2460	2460	0	6430
9	4572	103860	-61	918	1400	582	1010	2410	2410	0	6769
10	4578	104480	-363	880	1310	579	1000	2310	2310	0	6527
11	4572	103860	363	861	1260	576	1010	2270	2270	0	7193
12	4570	103620	121	858	1230	577	1010	2260	2260	0	6681
13	4566	103020	302	874	1290	577	1010	2300	2300	0	6582
14	4562	102660	182	872	1290	568	983	2273	2273	0	6449
15	4563	102780	-60	849	1230	549	932	2162	1965	197	6318
16	4562	102660	60	840	1210	549	932	2142	912	1230	6388
17	4560	102410	126	840	1210	545	921	2131	405	1726	6465
18	4561	102540	-66	840	1210	528	876	2086	360	1726	6332
19	4562	102660	-61	840	1210	523	863	2073	347	1726	6332
20	4560	102410	126	840	1210	522	861	2071	345	1726	6395
21	4554	101690	363	840	1210	526	871	2081	355	1726	6822
22	4544	100490	605	867	1270	536	897	2167	441	1726	6943
23	4532	99040	731	915	1390	556	950	2340	614	1726	6901
24	4522	97840	605	941	1460	582	1020	2480	754	1726	6395
25	4512	96630	610	950	1490	587	1040	2530	1354	1176	6520
26	4506	95910	363	950	1490	588	1040	2530	1879	651	6443
27	4503	95550	182	951	1490	590	1040	2530	2225	305	6632
28	4500	95180	187	932	1440	590	1040	2480	2359	121	6737
29	4504	95670	-247	915	1390	591	1050	2440	2440	0	6623
30	4508	96150	-242	915	1390	592	1050	2440	2440	0	6558
31	4507	96030	61	915	1390	590	1040	2430	2358	72	6801
1	4246.09	96270	-121	925	1420	590	1040	2460	2392	68	6589
2	4514	96870	-302	920	1410	591	1050	2460	2067	393	6378
3	4512	96630	121	905	1370	583	1020	2390	1746	644	6831
4	4516	97110	-242	904	1370	575	1000	2370	1721	649	6488
5	4520	97590	-242	897	1350	576	1000	2350	1967	383	6438
6	4518	97350	121	882	1310	577	1010	2320	2067	253	6801
7	4528	98560	-610	884	1320	581	1020	2340	2117	223	6050
8	4543	100370	-913	862	1260	582	1020	2280	2111	169	5697
9	4557	102050	-847	837	1200	576	1000	2200	2200	0	5913
10	4569	103500	-731	803	1120	563	969	2089	2089	0	5960
11	4582	105070	-792	770	1040	552	940	1980	1723	257	5668
12	4594	106510	-726	751	993	534	892	1887	1121	766	5757
13	4597	106870	-182	690	856	489	777	1633	0	1633	6315
14	4580	104820	1034	664	799	448	677	1476	0	1476	7158
15	4568	103380	726	661	793	430	637	1430	0	1430	6866
16	4566	103140	121	662	795	431	639	1434	0	1434	6667
17	4572	103860	-363	664	799	402	574	1373	0	1373	5424
18	4579	104700	-423	665	801	385	538	1339	0	1339	5488
19	4588	105790	-550	667	806	386	540	1346	0	1346	5384
20	4595	106630	-424	668	808	387	543	1351	0	1351	5445
21	4596	106750	-60	654	778	388	545	1323	0	1323	5797
22	4596	106750	0	645	759	388	545	1304	0	1304	5976
23	4592	106270	242	643	759	388	545	1304	0	1304	6218
24	4588	105790	242	643	759	388	545	1304	0	1304	6218
25	4587	105670	61	643	759	388	545	1304	0	1304	5757
26	4586	105550	60	643	759	364	495	1254	0	1254	4578
27	4579	104700	429	636	759	351	469	1228	0	1228	4941
28	4573	103980	344	632	752	333	473	1225	0	1225	4829
29	4565	103070	303	620	706	351	469	1175	0	1175	4325
30	4555	101930	550	587	639	350	467	1106	0	1106	4724
1	4551	101330	301	556	578	350	467	1045	0	1045	4017
2	4556	101930	-301	556	574	349	469	1043	0	1043	3924
			670		140107		113421	273528	86402	186926	[illegible]

Minidoka Gage	Minidoka Disch	Minidoka Stor	Minidoka Nor	Netley Minid. Loss	Date 1927	Lake Milner Gage	PA Lat. Gage	PA Lat. Disch	NSTF Can Gage	NSTF Can Disch	PA+NSTF Can. Total	PA+NSTF Can. Std.	PA+NSTF Can. Nor	SSTF Can. Gage	SSTF Can. Disch
682	6520	3120	3400	185	Aug 5	11.08	1.98	56	8.70	3010	3066	2666	400	10.41	3630
685	6600	3200	3400	750	6	11.06	1.97	56	8.69	3000	3056	2656	400	10.40	3620
680	6460	3060	3400	733	7	11.01	1.97	56	8.64	2980	3036	2636	400	10.37	3600
680	6460	3060	3400	-39	8	11.06	1.97	56	8.71	3010	3066	2666	400	10.40	3620
682	6320	3193	3127	-40	9	11.05	1.97	56	8.69	3000	3056	2665	391	10.36	3590
680	6460	3237	3223	309	10	11.10	1.97	56	8.71	3010	3066	2687	379	10.33	3580
679	6430	3063	3367	97	11	11.06	1.96	55	8.70	3010	3065	2669	396	10.33	3580
679	6430	3143	3287	763	12	10.90	1.95	55	8.54	2920	2975	2588	387	10.24	3520
677	6380	3156	3224	301	13	11.01	1.95	55	8.62	2970	3025	2646	379	10.27	3540
676	6350	3184	3166	232	14	10.99	1.96	55	8.64	2980	3035	2663	372	10.31	3560
677	6380	3085	3295	69	15	11.09	1.96	55	8.71	3010	3065	2677	388	10.38	3610
676	6350	2950	3400	-32	16	11.10	1.96	55	8.72	3020	3075	2675	400	10.42	3630
673	6270	2870	3400	118	17	11.08	1.96	55	8.71	3010	3065	2665	400	10.39	3610
674	6300	2247	4053	165	18	11.08	1.96	55	8.69	3000	3055	2002	1053	10.38	3610
673	6270	1911	4359	88	19	11.04	1.96	55	8.66	2990	3045	1686	1359	10.36	3590
668	6140	1864	4276	196	20	10.96	1.96	55	8.57	2940	2995	1719	1276	10.30	3560
667	6110	2008	4102	485	21	10.90	1.96	55	8.51	2910	2965	1863	1102	10.28	3520
678	6410	2421	3989	412	22	10.94	1.96	55	8.58	2940	2995	2006	989	10.28	3540
688	6680	3223	3457	268	23	11.04	1.96	55	8.66	2990	3045	2588	457	10.39	3610
685	6600	2716	3884	301	24	10.96	1.96	55	8.56	2930	2985	2101	884	10.33	3580
679	6430	2787	3643	165	25	10.90	1.96	55	8.55	2930	2985	2342	643	10.32	3570
681	6490	3090	3400	30	26	10.88	1.95	55	8.55	2930	2985	2585	400	10.31	3560
679	6710	3310	3400	-267	27	11.04	1.95	55	8.68	3000	3055	2655	400	10.41	3630
691	6770	3370	3400	-118	28	11.02	1.95	55	8.66	2990	3045	2645	400	10.42	3630
686	6630	3230	3400	107	29	11.04	1.95	55	8.68	3000	3055	2655	400	10.42	3630
685	6600	3217	3383	23	30	10.92	1.95	55	8.58	2940	2995	2597	398	10.34	3580
684	6570	3217	3353	-12	31	11.02	1.95	55	8.66	2990	3045	2651	394	10.41	3630
685	6600	3200	3400	201	Sep 1	11.01	1.95	55	8.64	2980	3035	2635	400	10.30	3560
682	6520	3120	3400	69	2	11.04	1.95	55	8.66	2980	3035	2635	400	10.26	3530
672	6240	2840	3400	138	3	10.92	1.95	55	8.56	2930	2985	2585	400	10.20	3490
677	6380	2980	3400	431	4	11.00	1.95	55	8.64	2970	3025	2625	400	10.23	3490
680	6460	3060	3400	28	5	11.00	1.96	55	8.64	2970	3025	2625	400	10.23	3490
675	6320	2920	3400	118	6	10.59	1.96	55	8.42	2850	2905	2505	400	10.08	3390
669	6160	2760	3400	641	7	10.82	1.96	55	8.44	2860	2915	2515	400	10.02	3350
655	5790	2390	3400	260	8	10.84	1.96	55	8.45	2870	2925	2525	400	9.76	3180
646	5560	2160	3400	137	9	10.80	1.96	55	8.42	2840	2895	2495	400	9.47	3000
640	5410	2143	3267	503	10	10.83	1.96	55	8.32	2790	2845	2418	427	9.19	2840
629	5140	1807	3333	820	11	10.85	1.96	55	8.26	2760	2815	2312	503	9.20	2830
626	5060	1660	3400	608	12	10.86	1.95	55	8.14	2700	2755	2185	570	9.20	2830
632	5210	1810	3400	347	13	10.89	1.95	55	7.94	2590	2645	2005	640	9.09	2760
646	5560	310	5250	755	14	10.90	1.94	54	7.78	2520	2574	0	2574	8.74	2560
698	6960	1378	5582	198	15	10.85	1.71	40	7.62	2430	2470	0	2470	8.29	2320
688	6680	1321	5359	186	16	10.68	1.60	28	7.43	2340	2368	0	2368	7.77	2050
681	3690	386	3304	377	17	10.38	1.50	28	7.29	2270	2298	0	2298	7.56	1950
680	5160	-1101	6261	324	18	10.36	1.49	27	7.30	2270	2297	0	2297	7.67	2000
673	4990	-1086	6076	498	19	10.46	1.49	27	7.28	2260	2287	0	2287	8.56	2450
673	4990	-729	5719	394	20	10.39	1.48	27	7.14	2200	2227	0	2227	9.43	2930
673	4990	179	4811	455	21	10.42	1.48	27	7.14	2200	2227	416	1811	9.53	3000
659	5360	680	4680	337	22	10.31	1.46	26	7.10	2180	2206	326	1880	9.61	3030
664	5510	1205	4305	466	23	10.34	1.45	25	7.03	2140	2165	570	1595	9.04	2710
665	5540	467	5073	678	24	10.32	1.46	26	6.90	2080	2106	0	2106	[illegible]	2160
661	5440	978	4462	778	25	10.33	1.45	25	6.75	2010	2035	0	2035	7.78	2050
654	4540	609	3931	617	26	10.17	1.43	23	6.60	1960	1983	74	1909	[illegible]	2240
599	4230	605	3625	146	27	10.02	1.42	24	6.53	1910	1934	129	1805	[illegible]	2030
594	4320	538	3782	621	28	9.83	1.40	23	6.52	1910	1933	51	1882	7.26	1900
603	4320	698	3632	309	29	10.06	1.42	24	6.50	1900	1924	0	1924	7.22	1820
599	4430	380	4050	83	30	10.00	1.42	24	6.28	1800	1824	0	1824	7.22	1790
586	4360	189	4171	414	Oct 1	9.96	DRY	0	6.13	1730	1730	0	1730	7.16	1760
555	3500	-1210	4710	587	2	9.43	DRY	0	3.77	1580	1580	0	1580	7.04	1710
525	2940	-2761	5701	104	3	9.72	DRY	0	5.09	1300	1300	0	1300	7.08	1720
	359670	143261	111407	42332				6185		345890	352845	137118	[illegible]		[illegible]

PLATE NO. VIII

ATE '27	LAKE WIN GAGE	LAKE WIN CA'L	PA+NSTF CAN. TOTAL	PA+NSTF CAN. STO.	PA+NSTF CAN. NOR	SSTF CANAL GAGE	SSTF CANAL DISCH	SSTF CANAL STOR	SSTF CANAL NOR.	MILNER LOW LIFT C. GAGE	MILNER LOW LIFT C. DISCH	MILNER LOW LIFT C. STOR	MILNER LOW LIFT C. NOR	MILNER THEO BAL	MILNER GAGE	MILNER DISCH	MILNER STO	MILNER NOR	MWID MILNER GAIN
4	424578	1040	3066	2666	400	1041	3630	630	3000	294	94	94	0	- 270	197	29	29	0	299
5	4578	1040	3056	2656	400	1040	3620	620	3000	298	94	94	0	- 170	194	27	27	0	297
6	4572	1030	3036	2636	400	1037	3600	600	3000	265	78	78	0	- 254	188	24	24	0	197
7	4570	1030	3066	2666	400	1040	3620	620	3000	297	94	94	0	- 320	193	27	27	0	278
8	4571	1030	3056	2665	391	1036	3590	654	2936	298	94	94	0	- 270	HD	184	184	0	347
9	4572	1030	3066	2687	379	1033	3580	736	2844	303	97	97	0	- 283	204	32	32	0	404
10	4578	1040	3065	2669	396	1033	3580	609	2971	303	97	97	0	- 312	HD	77	77	0	345
11	4572	1030	2975	2588	387	1024	3520	620	2900	294	92	92	0	- 157	186	24	24	0	387
12	4570	1030	3025	2646	379	1027	3540	695	2845	298	94	94	0	- 279	192	26	26	0	191
13	4565	1030	3035	2663	372	1031	3560	766	2794	296	96	96	0	- 341	190	25	25	0	365
14	4562	1020	3065	2677	388	1038	3610	703	2907	295	98	98	0	- 393	HD	85	85	0	366
15	4563	1020	3075	2675	400	1042	3630	630	3000	301	98	98	0	- 453	204	32	32	0	478
16	4562	1020	3065	2665	400	1039	3610	610	3000	307	99	99	0	- 504	202	31	31	0	445
17	4560	1020	3055	2002	1053	1038	3610	610	3000	294	92	92	0	- 457	HD	216	216	0	335
18	4561	1020	3045	1686	1359	1036	3590	590	3000	291	91	91	0	- 456	191	26	26	0	673
19	4562	1020	2995	1719	1276	1030	3560	560	3000	290	90	90	0	- 505	182	22	22	0	482
20	4560	1020	2965	1863	1102	1024	3520	520	3000	278	84	84	0	- 459	178	21	21	0	527
21	4554	1010	2995	2006	989	1028	3540	540	3000	263	82	82	0	- 207	180	21	21	0	480
22	4544	1000	3045	2588	457	1039	3610	610	3000	305	102	102	0	- 77	190	25	25	0	228
23	4532	990	2985	2101	884	1033	3580	580	3000	303	102	102	0	- 67	186	24	24	0	102
24	4522	970	2985	2342	643	1032	3570	570	3000	303	102	102	0	- 227	187	24	24	0	91
25	4512	960	2985	2585	400	1031	3560	560	3000	302	101	101	0	- 156	178	21	21	0	251
26	4506	950	3055	2655	400	1041	3630	630	3000	303	102	102	0	- 77	HD	109	109	0	177
27	4503	950	3045	2645	400	1042	3630	630	3000	304	102	102	0	- 7	214	38	38	0	186
28	4500	950	3055	2655	400	1042	3630	630	3000	284	92	92	0	- 147	181	22	22	0	45
29	4504	950	2995	2597	398	1034	3580	595	2985	298	99	99	0	- 74	HD	181	181	0	169
30	4508	960	3045	2651	394	1041	3630	671	2959	301	98	98	0	- 203	180	21	21	0	255
31	4507	960	3035	2635	400	1030	3560	560	3000	298	94	94	0	- 89	176	20	20	0	224
21	424509	960	3035	2635	400	1026	3530	530	3000	301	96	96	0	- 141	HD	80	80	0	109
2	4514	960	2985	2585	400	1020	3490	490	3000	300	96	96	0	- 331	177	20	20	0	221
3	4512	960	3025	2625	400	1023	3490	490	3000	299	95	95	0	- 230	HD	185	185	0	351
4	4516	970	3025	2625	400	1023	3490	490	3000	300	96	96	0	- 151	HD	251	251	0	415
5	4520	970	2905	2505	400	1008	3390	390	3000	257	74	74	0	- 49	177	20	20	0	402
6	4518	970	2915	2515	400	1002	3350	350	3000	285	88	88	0	- 193	176	20	20	0	69
7	4522	980	2925	2525	400	976	3180	180	3000	280	86	86	0	- 401	176	20	20	0	213
8	4543	1000	2895	2495	400	947	3000	0	3000	278	84	84	0	- 419	182	22	22	0	421
9	4537	1020	2845	2418	427	919	2840	0	2840	276	84	84	0	- 359	191	26	26	0	441
10	4569	1030	2815	2312	503	920	2830	0	2830	278	84	84	0	- 589	190	25	25	0	385
11	4582	1050	2755	2185	570	920	2830	0	2830	274	82	82	0	- 607	HD	124	124	0	614
12	4594	1060	2645	2005	640	909	2760	0	2760	275	83	83	0	- 278	HD	514	514	0	731
13	4597	1060	2574	0	2574	874	2560	0	2560	275	83	0	83	343	HD	2490	2397	33	792
14	4580	1040	2470	0	2470	829	2320	0	2320	275	83	0	83	2087	750	3050	2341	709	2087
15	4568	1030	2368	0	2368	777	2050	0	2050	274	82	0	82	2180	711	2680	1821	859	963
16	4566	1030	2298	0	2298	756	1950	0	1950	271	81	0	81	1361	654	2140	1165	975	500
17	4572	1030	2297	0	2297	767	2000	0	2000	263	77	0	77	786	577	1460	- 427	1887	779
18	4579	1040	2287	0	2287	856	2450	0	2450	269	80	0	80	173	518	1020	- 239	1259	674
19	4583	1050	2277	0	2277	943	2930	0	2930	269	80	0	80	- 247	HD	460	- 22	432	847
20	4595	1060	2277	416	1811	956	3000	0	3000	265	78	78	0	- 315	473	447	447	0	707
21	4596	1060	2206	326	1680	961	3030	30	3000	267	79	79	0	45	476	754	754	0	762
22	4596	1060	2163	370	1595	904	2710	0	2710	272	82	82	0	553	HD	1440	1440	0	709
23	4592	1060	2106	0	2106	800	2160	0	2160	276	84	0	84	1190	628	1900	1177	723	887
24	4588	1050	2035	0	2035	778	2050	0	2050	276	84	0	84	1271	595	1610	1317	293	710
25	4587	1050	1965	74	1891	775	2040	0	2040	278	84	84	0	451	568	1390	1390	0	339
26	4586	1050	1934	129	1805	771	2020	0	2020	280	86	86	0	390	HD	957	957	0	939
27	4579	1040	1933	51	1882	746	1900	0	1900	282	86	86	0	401	HD	284	284	0	561
28	4570	1030	1924	0	1924	728	1820	0	1820	282	86	0	86	690	HD	1480	1478	2	- 117
29	4565	1030	1824	0	1824	722	1790	0	1790	282	86	0	86	730	HD	1950	1600	350	790
30	4556	1010	1730	0	1730	716	1760	0	1760	DRY	0	0	0	870	636	1970	1289	681	1220
31	4551	1010	1580	0	1580	704	1710	0	1710	DRY	0	0	0	210	HD	424	- 996	1420	1100
2	4556	1010	1300	0	1300	708	1720	0	1720	DRY	0	0	0	- 80	394	376	-2305	2681	214
			351045	177118	224927		394300	29618	36462		11144	5731	5413	502181			19099	25406	42354

and agree exactly with the schedule. The summaries of diversions or canal totals are for the dates indicated on the tables.

Only stored water quantities are tabulated for the Lorenzo station. Complete segregation of flow would, in this case, involve consideration of all water by-passed through the Great Feeder and this could hardly be shown satisfactorily without the addition of complicated tables to the already voluminous summary herein presented. Losses and gains between the Heise and Lorenzo stations were computed to determine the amounts deducted throughout the season as storage transmission loss and will be discussed further on in this report.

No attempt was made to deliver stored water from the small Emma Matilda and Two Ocean Lake Reservoirs of the Utah-Idaho Sugar Company although, during the latter part of the season, some water was released as a precautionary measure. For this reason the Twin Lakes column shown in the similar tables contained in previous reports has been omitted.

The outlet from the socalled Market Lake Springs was affected by back water from the river during a portion of the season but a sufficiently dependable record was secured to make certain that the inflow from this source was enough to supply the storage requirements of the Sheppard canal. No attempt has been made to include this record in the general tabulations both for the above reason and also because of the very small quantity of water involved (usually not in excess of 5 second-feet).

Hydrometric conditions at the Robertson station on Snake River were decidedly unfavorable during 1927 and little record of value was secured prior to August 1. Likewise, because of the overflow and by-pass of water during the high-water period, part of the data for Blackfoot Bridge are also considered unreliable. All of the records for the former station and a portion of those for the latter have therefore been omitted from these tables but most of the information available for both during August and September will be given in another part of this report (See Plates XIV and XV). Because of these facts columns have been inserted to show gains and losses from Woodville through to Cloughs as well as for the shorter sections introduced by using Blackfoot Bridge as an intermediate station.

The American Falls Reservoir data, the measured and computed inflow between the Clough and Neeley gaging stations are all identical with these quantities as listed in the special report of T. R. Newell, to which reference has previously been made, and will be discussed in more detail in connection with the storage deliveries to lower valley canals.

In most other respects the river data presented herein conform and are consistent with the similar tables contained in former reports.

SEGREGATION OF FLOW

Plate IX shows graphically both the total discharge and the computed normal flow past the Moran and Heise gaging stations during the season of 1927. The difference between the total and normal flow graphs on any date, of course, indicates storage.

HYDROGRAPHS SHOWING TOTAL AND NORMAL FLOW AT THE MORAN AND HEISE STATIONS
1927 DISTRIBUTION WATER DISTRICT No. 36

PLATE IX

LEGEND

ACTUAL TOTAL DISCHARGE ——

COMPUTED NORMAL FLOW .....

DISCHARGE IN CUBIC FEET PER SECOND

20,000

16,000

12,000

8,000

4,000

HEISE

MORAN

HEISE

HEISE

MORAN

MORAN

MORAN

20,000

16,000

12,000

8,000

4,000

These graphs are plotted from the special day discharges with the time interval adjusted to make them coincide with the nearest regular day at Heise. For example, the Heise data shown for July 20 really represent mean quantities for the 24 hour period ending at 4 a.m. on July 21, while the indicated Moran data for July 20 are means for the 24 hour period ending at 4 a.m. on July 20.

While these diagrams are merely a graphical representation of some of the numerical quantities contained in the tables of Plates VII and VIII, they will be of interest and perhaps of assistance in connection with the explanations and discussions which have preceded as well as those which follow.

The very uniform summer discharge past the Moran Station is indicative of what may be reasonably expected during future years of favorable water supply when most of the more exact regulation can be made at the outlet of the American Falls Reservoir.

While the pronounced peak shown on both the Heise total and normal flow and on the Moran normal flow graph for September 10 is due almost entirely to heavy rains, some of the later irregularities in the Heise normal are doubtless attributable to the failure of a single time interval to remain strictly applicable at all stages of river flow. (See page 24 of the 1926 report for more complete discussion).

The Gros Ventre flood is clearly shown at the Heise Station on May 19 although the mean discharge for that day (36,400 second-feet) extends beyond the edge of the sheet.

UPPER VALLEY STORAGE DELIVERIES

The amount of stored water released each day from Jackson Lake was determined from the reservoir capacity tables by noting the quantity corresponding to the daily decrease in stage indicated by the lake gage readings. Occasional irregularities in the latter, attributable to wind effect, were largely eliminated by short period interpolations or adjustments.

This method of determining the proportion of the total daily flow passing the dam and the Moran gaging station, which is stored water, has been in use for several years. Its use assumes a certain balancing of comparatively unknown factors. Normal flow rights should obtain the benefit of such natural storage as would have been created in the old lake during flood periods and they should not be required to stand the extra evaporation loss attributable to the larger flooded area of the present reservoir. On the other hand the storage owners should be credited with all the additional ground or bank storage which results from the increased elevation of the water surface in the lake.

The primary object of the investigations conducted during 1924 by Thomas R. Newell and for several years previous by employees of the U. S. Bureau of Reclamation was to secure a more accurate segregation between stored water and normal flow at the outlet of the reservoir. The data thus secured indicate that the method just described is not strictly applicable under all conditions of river flow and reservoir operation, but hardly suffice as yet to warrant the preparation and adoption of any more equitable plan of division.

The sterage transmission loss schedule agreed upon for 1927 (which is the same as that used in 1924, 1925 and 1926) provided for flat deductions of 2.5 per cent between Moran and Heise, 0.5 per cent between Lorenzo and Woodville and 6.0 per cent between Woodville and Blackfoot Bridge, but after fixing a minimum of 3.0 per cent left the actual amount to be deducted for the section from Heise to Lorenzo to be determined by what is called the "two day mean method". Under this method the percentage loss actually applied each day is the mean of the computed losses for the two preceding days as these are evolved from the following equation:

$$\text{Percentage loss} = \frac{\text{Actual daily loss}}{\text{Approximate average flow in section}} \times \frac{U + T - D - L}{\frac{1}{2}(U + T + L)}$$

Where U equals total flow at upper river station (Heise in this case)
T " inflow from tributary streams entering within section
D " total diversions throughout section
L " total flow at lower river station (Lorenzo)

3.0 per cent, however, was always applied on days for which the mean loss, thus derived, was less than this amount.

Plate X contains hydrographs for both the Heise and Lorenzo stations together with curves, which exhibit the computed daily losses and gains between the two points, not only in percentage, but also in second-feet. These diagrams have all been adjusted to make them correspond to the nearest Heise dates.

Because of high water conditions dependable discharge data for Lowder and Bannock Jim Sloughs could not be obtained during the early part of the season with existing station equipment, while during September the employment of special gage readers to secure these readings was not deemed warranted. For these reasons the loss graphs cover only the principal stored water delivery period.

HYDROGRAPHS ILLUSTRATING NET LOSSES AND GAINS BETWEEN THE HEISE AND LORENZO STATIONS
1921 DISTRIBUTION WATER DISTRICT NO. 36

PLATE 2

HEISE TO LORENZO - LOSS (SECOND-FEET)

HEISE TO LORENZO - LOSS (PER CENT)

GAIN

LOSS

1,000

0

1,000

5

0

5

20,000

16,000

12,000

8,000

4,000

DISCHARGE IN CUBIC FEET PER SECOND

HEISE

LORENZO

The average loss applied prior to that month was used for September storage calculations. In percentage this amounted to 4.2610 in comparison with 3.9507 in 1926, 4.1763 in 1925 and 5.2424 in 1924. When the variations in water supply and in other factors involved in loss determinations are taken into consideration the close agreement of these different season averages is somewhat surprising and indicates that for the purpose of simplifying river operation the future use of 4.4076 per cent or the mean of these four years might well be agreed upon.

Transmission deductions for all storage delivered to canals diverting above the Blackfoot Bridge gaging station were computed upon the basis of losses to Woodville, as specified in the purchase contracts. Coviously it would be impracticable to calculate losses to the heading of each individual canal and this group method was doubtless originally adopted to avoid the necessity for such procedure. Since more than half the Jackson Lake storage owned in the upper valley is diverted above the Woodville station and the balance within a distance of about twelve miles below that point, this plan would seem to be at least reasonably fair to all concerned. 1927 computations show that upon the basis of the final seasonal loss these canals should have received at their headgates 92.67915 per cent of the stored water turned out for them at Moran.

The Minidoka and Twin Falls canals were charged with prorata transmission losses to the Blackfoot Bridge station and on the basis of season deliveries were entitled to receive at their headgates 97.3064 per cent of the amounts released for them at the Jackson Lake outlet Dams.

No losses were charged against the inflow from Market Lake Springs because this water was supplied to the Sheppard Canal and diverted immediately below its point of entrance into the river.

Plate XI shows 1927 daily and total storage deliveries together with summaries of the season allocation of both Jackson Lake and American Falls storage.

Attention is directed to the fact that no minus quantities appear in this table or in any of the stored water diversion columns on Plates VII and VIII. Exchange of normal flow for storage was not permitted and in consequence it was unnecessary to indicate any credits for underdraft. In the daily reports prepared during the summer, plus and minus storage items were still used to some extent to simplify the bookkeeping but it now seems possible that even this practice may be largely, if not entirely, eliminated under similar conditions in the future.

Equitable segregation of stored water deliveries to lower valley canals as between the three principal reservoir sources of supply has become almost impossible and has not been attempted in this summary. So long as the distinction between normal flow and storage is maintained and the relative values of those items are known, it does not appear to be vital whether the Twin Falls Canal Company, for instance, is supplied with stored water from Jackson Lake, American Falls or even Lake Walcott, provided their use during any period in question is limited to their total storage rights.

In order to afford comparison between season use and storage available, all upper valley totals have been shown upon a

1927 DISTRIBUTION WATER DISTRICT NO. 36.

DAILY

	JULY 20	21	22	23	24	25	26	27	28	29	30	31	AUG 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
POPLAR IRRIGATION DIST.														4	8	2	1	1	2	1	12	24	24	23	23	23	22
PROGRESSIVE IRRIG. DIST.	99	139	138	127	158	192	181	171	141	139	157	165	157	163	155	197	182	163	151	76	66	60	51	50	45	52	62
FARMERS FRIEND CAN. CO.			19	25	3	51	39	23	3		48	35	29	57	65	51	53	23	7	68	60	62	60	62	55	15	
ENTERPRISE CANAL CO.		13	30	21	32	23	19	19	10	12	30	29	26	35	31	25	24	23	21	21	17	3	2	2	2	2	1
HARRISON CAN. & IRRIG CO.	37	33	56	8	62	58	37	59	60	74	71	58	56	69	69	62	59	59	59	56	53	53	50	37	19		
IDAHO IRRIG. DIST. (BOOMER & IDAHO)	36	81	112	127	134	117	130	105	107	117	119	104	109	102	98	91	63	98		1					1		
RUDY CANAL CO.		11	6	8	25	35	32	19	37	60	75	73	73	68	64	69	66	66	42	7					2		6
BURGESS CAN. & IRRIG. CO.	58	102	122	146	114	114	106	90	82	118	122	122	126	146	118	86	82	78	82	94	90	78	58	58	30		
LOWDER CANAL CO.																											
SUNNYDELL IRRIG DIST.																											
LENROOT CANAL CO.													4									55	55	54	42	47	
REID CANAL CO.																											
ENTERPRISE IRRIG DIST.														60	101	100	101	100	100	102	101	103	102	103	103	103	103
DILTS CANAL CO.																											
BUTTE & MARKET LAKE CAN. CO.									3	4	4	5	5	4	4												4
SHEPPARD & CO.																											
UTAH-IDAHO SUGAR CO.																											
J.D. KENNEDY																											
K.M. NANDORFF (BEAR ISL.)																											
C.D. SMITH		1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
NEW SWEDEN IRRIG DIST.		127	161	158	153	151	147	145	139	136	141	135	132	127	124	124	120	119	114	107	99	87	84	74	68	50	3
MARTIN CANAL CO.		13	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	20	20	20	20	2
WOODVILLE CANAL CO.																											
SNAKE RIVER VALLEY IRR. DIS.	15	27	32	48	36	23	48	52	50	103	154	13			36	55	71	73	43	41	37	13					
TOTAL DIVERS. HEISE-WOOD.	245	547	702	694	743	791	766	710	659	810	948	765	744	861	894	889	848	830	648	596	561	566	513	524	410	312	26
BLACKFOOT IRRIG. CO.																											
PEOPLES CANAL & IRRIG CO.	10	97	63	10	49	7						5	3	3	1	10	20	18									
ABERDEEN-SPRING CAN. CO.																											
CORBETT SLOUGH DITCH CO.																											
TREGO DITCH CO.																											
												5	3	3	1	10	20	18									
TOTAL DIV. WOOD-BLACK.	10	97	63	10	49	7																					
MINIDOKA PROJECT CANALS	679	904	914	914	914	904	904	904	1012	1554	1921	2040	2074	1940	1407	1369	1375	1594	2122	2466	2410	2310	2270	2760	2300	2273	1
NORTH SIDE CANAL CO.	16	112	200	362	459	1001	1669	1902	2261	2724	2700	2746	2719	2661	2671	2673	2634	2672	2649	2682	2634	2708	2636	2699	2661	2674	
TWIN FALLS CANAL CO.	74	630	681	651	563	533	641	613	574	631	631	711	661	641	641	641	641	631	611	631	665	747	620	633	706	786	
MILNER LOW LIFT IRRIG DIS.	101	101	93	88	95	97	97	81	96	99	101	103	95	101	98	84	94	94	78	94	94	97	97	92	92	96	
TOTAL LOWER VALLEY CANALS	870	1747	1888	2015	2031	2533	3311	3500	3943	5008	5353	5600	5549	5343	4817	4767	4734	4991	5460	5367	5353	5862	5673	5884	5761	5823	

DAILY STORAGE DELIVERY TABULATION & SUMMARY

	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
	24	23	23	23	22										
	51	50	45	52	62										
	60	62	55	15											
	2	2	2	2	1	3	4	4	3	3	3	4	3	3	2
	50	37	19				4	3	4	4	3	3	3	3	3
			1												
			2		6	4				1					
	58	98	30												
	55	54	42	47											
	102	103	103	103	103	102	101								
					4	3	3	4	4						
	1	1			1					1		1	1	1	1
	84	74	68	50	36	29	19	14	11						
	26	20	20	20	20	20	20	20	20						5
	513	524	410	312	255	161	151	45	42	9	6	8	7	7	11
	2270	2260	2300	2273	1965	912	405	360	347	345	355	441	614	754	1354
	2686	2599	2661	2674	2695	2696	2685	2019	1701	1729	1873	2016	2602	2112	2333
	620	633	706	780	714	641	621	621	601	572	531	551	621	593	583
	97	92	94	96	98	98	99	92	91	90	84	82	102	102	102
	5673	5584	5761	5823	5472	4347	3810	3092	2740	2736	2843	3090	3939	3561	4392

	26	27	28	29	30	31	Sept 1	2	3	4	5	6	7	8	9	10	11	12	13
					13	18													
															59	90	109	124	108
	3	2	3	2	3	2	3	2	3	2	3	2	2						
	2	3	2	3	2	3	2	3	2	3	2	3	1					1	1
				1															
				21	4													1	1
					60	36													
	129	128	52																
					3	3	2	2	2	1	1								
	1				1														
	33	31	21	23	23	19	16	13	12	8	3	2							
	20	20	20	20	20	20	20	20	20	20	20	20	9						
	59	185	174	122	129	101	43	40	39	34	29	27	12	59	90	109	285	110	106
	879	2225	2359	2440	2440	2358	2392	2067	1746	1721	1967	2067	2117	2111	2200	2089	783	1121	0
	2595	2674	2662	2666	2607	2661	2644	2644	2594	2634	2634	2514	2524	2534	2506	2430	1973	2194	2014
	571	641	641	641	607	682	571	541	501	501	501	401	361	191	12	14	14	11	11
	101	102	102	92	99	98	94	96	96	95	96	74	88	86	84	84	84	82	83
	5146	5642	5764	5839	5753	5799	5701	5348	4937	4951	5193	5056	5096	4922	4801	4617	4444	4408	2108

11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
224	108	103													
1	1	2	1	1	1										
	1	1	1	1											
225	110	106	2	2	1										
1723	1121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2323	2194	2014	9	9	9	9	9	9	9	426	536	580	10	10	84
14	11	11	11	11	11	11	11	11	11	12	42	12	12	12	12
84	82	83	0	0	0	0	0	0	0	78	79	82	0	0	84
4144	3408	2108	20	20	20	20	20	20	20	516	657	674	22	22	184

27	28	29	30	OCT. 1	2	3	TOTAL SEC. FT.	TOTAL AC. FT.	J. LAKE EQUIV. AC. FT.	JACKSON LAKE RT. AC. FT.	J.L. EQ. AM. FALLS AC. FT.	TOTAL EQUIV. J.L. RTS. AC. FT.
							196	389	419	1200	700	1900
							4150	8231	8862		14600	14000
							908	1801	1939	2000		2000
							544	1079	1162	6100	9800	15500
							1379	2735	2945	5000	11200	16200
							1854	3677	3959		25200	25200
							873	1732	1865	2000		2000
							2462	4883	5257	5120	7000	12120
							0	0	0	1040		1040
							349	692	745	4000		4000
							4	8	9	3000	4200	7200
							0	0	0		2200	2200
							1894	3757	4045		2000	2000
							0	0	0		500	980
							0	0	0		2800	2800
							61	121	130			
							0	0	0		14000	14000
							0	0	0			365
							0	0	0		210	210
							24	48	52		70	70
							3335	6615	7122	5000	25200	30264
							973	1930	2078	1500	2100	3600
							0	0	0		8400	8400
							969	1922	2069	15000	28000	43000
							19914	39499	42528			
											14000	14000
							296	587	632	8000	21000	29000
										42685	36464	79149
											5600	5600
											1400	1400
							296	587	632			
0	0	0	0	0	0	0	86602	171773				
139	61	10	10	10	10	10	128068	254019				
12	12	12	12	12	12	12	30507	60510				
86	86	0	0	0	0	0	5731	11367				
237	169	22	22	22	22	22						
		EXTRA WASTE					17237	34229				
		UNALLOTTED										
		UNITED STATES										
		IDAHO POWER CO.										
		TOTALS										

PLA

—NOTES—

4 140% OF ORIGINAL PURCH
ADDED TO COVER REBA
ALLOWANCE.

4 2000 ACRE FEET ADDITI
PURCHASED FOR USE DUR
THE BLACKFOOT IRRIGATIO
PERMANENT RIGHTS ACQ
CLOSE OF THE IRRIGATION
INCLUDED

4 SEE 4

4 SHEPPARD STORAGE C
TOTALS

1927 AMER FLS. EQUIVALENT AC. FT.	AMERICAN FALLS RIGHT AC. FT.	TOTAL 1927 AMER. FALLS EQUIVALENTS AC. FT.
30622	77372	285188	362560
320571	281624	263549	545573
110359	85000	141107	226107
		23000	23000
		631	631
		936125	936125
		45000	45000
		1700604	
487740			

19	20	21	22	23	24	25	26	27	28	29	30	Oct. 1	2	3	Total Sec. Ft.	Total Ac. Ft.	J. Lake Equiv. Ac. Ft.	Jackson Lake Rt. Ac. Ft.	Am. Fls. Rt. Ac. Ft.	Total Seas. J.L. Rts. Ac. Ft.	1927 Amer. Fls. Equivalent Ac. Ft.	American Falls Right Ac. Ft.	Total 1927 Amer. Falls Equivalent Ac. Ft.
															196	389	419	1200	700	1900			
															4150	8231	8862		14000	14000			
															908	1801	1939	2000		2000			
															544	1079	1162	6100	9800	15900			
															1379	2735	2945	5000	11200	16200			
															1854	3677	3959		25200	25200			
															873	1732	1865	2000		2000			
															2462	4883	5257	5120	7000	12120			
															0	0	0	1040		1040			
															349	692	745	4000		4000			
															4	8	9	3000	4200	7200			
															0	0	0		2800	2800			
															1894	3757	4045		2000	2000 [b]			
															0	0	0		980	980			
															0	0	0		2800	2800			
															61	121	130						
															0	0	0		14000	14000			
															0	0	0			355			
															0	0	0		210	210			
															24	48	52		70	70			
															3335	6615	7122	5000	25264	30264			
															973	1930	2078	1500	2100	3600			
															0	0	0		8400	8400			
															969	1922	2069	15000	28000	43000			
															19914 [d]	39499 [d]	42528 [d]						
																			14000	14000 [c]			
															296	587	632	8000	21000	29000			
																		42685	36464	79149			
																			5600	5600			
																			1400	1400			
															296	587	632						
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86602	171773				88622	77372	285188	362560
9	9	426	536	580	10	10	84	139	61	10	10	10	10	10	128068	254019				322571	281624	263949	545573
1	11	12	42	12	12	12	12	12	12	12	12	12	12	12	30507	60510				97359	85000	141107	226107
0	0	78	79	82	0	0	84	86	86	0	0	0	0	0	5731	11367						28000	28000
20	20	516	657	674	22	22	180	237	159	22	22	22	22	22									
										EXTRA WASTE					17237	34229							
										UNALLOTTED												631	631
										UNITED STATES												936125	936125
										IDAHO POWER CO.												45000	45000
										TOTALS										947740		1700000	

PLATE NO XI

—NOTES—

[a] 140% of original purchase. Extra 40% added to cover rebate storage allowance.

[b] 2000 acre feet additional water purchased for use during 1927 from the Blackfoot Irrigation Co.—additional permanent rights acquired after the close of the irrigation season not included.

[c] See [b]

[d] Sheppard storage omitted from totals

Jackson Lake basis while these of the lower valley have all been reduced to American Falls equivalents.

In the case of only three canals did the actual draft come within 10 per cent of the right available for use while the average stored water diversions (Government and Power Company rights excluded) amounted to but little more than a third of the supply which might have been drawn had the need for the water existed.

19,099 second-feet of stored water was wasted past Milner Dam during the season of which only 1635 second-feet can be classed as ordinary or unavoidable waste and 207 second-feet as loss due to maintaining Lake Milner at above normal stages to permit continued heavy draft by the North Side Canal Company. The balance of 17,257 second-feet together with 6,354 second-feet of normal flow may be considered as intentional waste which could easily have been avoided had there been any need for larger reservoir carry-overs.

The ordinary Milner waste was again prorated 5/11 against the North Side Canal Company and 6/11 against the Twin Falls Canal Company while the special 207 second-feet was all charged against the former. These items have been included in the individual daily deliveries as listed on Plate XI and account for the differences noted in comparison with the stored water diversions as shown on Plates VII and VIII.

Plate XII contains a supplemental summary or accounting for all lower valley storage and is largely self-explanatory.

The American Falls equivalent of the Sheppard & Company storage is set up to compensate for the fact that on Plates VII and VIII this item was erroneously included with the Jackson Lake

1927 DISTRIBUTION WATER DIST NO 36

PLATE NO. XII

SUMMARY OF LOWER VALLEY STORAGE OR EQUIVALENT RIGHTS

CHARACTER OF RIGHT	MINIDOKA PROJECT	NORTH SIDE CANAL CO	TWIN FALLS CANAL CO.	MILNER LOW LIFT IRR. CO.	OTHER INTERESTS	TOTAL SECOND FEET	TOTAL ACRE FEET
JACKSON LAKE	39009	141985	42854			223848	443995
AMERICAN FALLS	143782	133074	71141	14117	494969	857083	1700000
PAYETTE-WEISER CAPAC. ADJ.	5082					5082	10080
LAKE WALCOTT	49448					49448	98080
NET GAIN NEELEY-MIL.	9691					9691	19221
TOTAL	247012	275059	113996	14117	494969	1145152	2271376

1927 UTILIZATION OF LOWER VALLEY STORAGE OR EQUIVALENT RIGHTS

AMERICAN FALLS EQUIVALENT SHEPPARD & CO. STOR[a]	57	113
AMERICAN FALLS EQUIV. UNUSED JACKSON L. RIGHTS	91244	180980
OVERALL LOSS IN AMERICAN FALLS RESERVOIR	29582	58675
STORAGE USED BY LOWER VALLEY CANALS	250908	497669
HOLDOVER AMER. FALLS RES. END OF SEASON	704714	1397780
HOLDOVER AT LAKE WALCOTT END OF SEASON	51390	101930
EXTRAORDINARY WASTE PAST MILNER DAM	17257	34229
TOTAL	1145152	2271376

[a] ERRONEOUSLY TREATED AS JACKSON LAKE STORAGE ON PLATES VII & VIII. SEE TEXT FOR FURTHER EXPLANATION.

[b] INCLUDES 1635 SECOND FEET CONSIDERED ORDINARY WASTE PAST MILNER DAM AND PRORATED,
892 SECOND FEET AGAINST TWIN FALLS CANAL CO,
743 SECOND FEET AGAINST NORTH SIDE CANAL CO
AND 207 SECOND FEET SPECIAL WASTE DUE TO HIGH STAGE MAINTAINED IN LAKE MILNER. ALL CHARGED AGAINST NORTH SIDE CANAL CO LTD.

NOTE
ALL QUANTITIES IN ABOVE TABLES LISTED UPON A NEELEY OR HEADGATE DELIVERY BASIS.

diversions instead of being omitted altogether in the manner adopted for the corresponding inflow from Market Lake Springs. Correct segregation would increase the stored water passing the Clough Station, decrease the normal flow at Neeley and consequently increase the indicated lower valley stored water diversions all by the amount of 57 second-feet or an amount considered too small to justify the numerous revisions required.

The capacity tables indicated 1,710,080 acre-feet of storage to be available at American Falls when draft upon that reservoir began, while, at the same time, only 98,080 acre-feet were impounded at Lake Walcott. The latter has therefore been credited with the 10,080 acre-feet excess from the former in the interest both of equity and simplicity of records.

Under the interpretation which has been placed upon the Foster decree, normal flow to which all lower valley canals are entitled is measured at the Neeley gaging station while storage deliveries are computed, after due allowance for time interval, as the difference between total draft and normal flow.

Great importance is therefore attached to the equitable determination of the normal flow at Neeley. Although in former years this was a comparatively simple matter it has now, due to the American Falls Reservoir, become a very complex problem.

In anticipation of this difficulty, gaging stations were established at points above the reservoir flow line and the measurement of surface inflow to the basin was initiated by U. S. Bureau of Reclamation hydrographers in 1924. This work was continued during the two succeeding years and was supplemented in the last of

those (1926) by measurements and other data secured by employees of District No. 36 and of the Twin Falls Canal Company.

Analysis of the first two season's records indicated that about 53 per cent of the total inflow between the Clough and Neeley gaging stations was actually measured in 27 separate streams. Difficulty was experienced in attempting to use this coefficient for 1926 river operation and eventually it became apparent that only about 50% of the inflow was actually measured at the same stations during that year.

During 1927 arrangements were made, as previously described, for the continuation of this work under the supervision of Thos. R. Newell with assistance from C. T. Judah of the regular District No. 36 organization.

For operation use during the regulation period, the summation of measured inflow at these 27 stations was furnished daily by Mr. Newell but it was still necessary to rely upon the work of former years for a basis upon which to convert this quantity into total inflow. Further study showed that as the amount of the measured inflow decreased, so also did its proportional relationship to the total. Coefficients ranging from 55.2% with a measured inflow of about 1680 second-feet down to 51.5% with a measured quantity of about 1320 second-feet were thereafter applied according to the judgment of the Water Master.

In his report on the segregation of Water Resources in the American Falls Basin Newell develops the following formula as apparently applicable to 1927 conditions:

Total tributary inflow Clough's to Neeley = 4/3 (measured gain Clough's to Neeley) + 840 second-feet.

This method therefore, rather than the more indefinite one previously described, has been used in the computations contained herein, so the two reports are entirely consistent.

Additional comment upon this subject together with a comparison of results obtained by the two methods will be included in connection with the discussion of Plate XVI.

The actual normal flow at the Neeley station is of course the sum of the corresponding quantity passing the Clough station and the total inflow or gain between the two points.

RIVER LOSSES AND GAINS

Losses and gains throughout different sections of Snake River are included in the data contained on Plates VII and VIII but the changes in the quantities and the relation which these changes have to the discharge of the river at different points are much more readily noted when indicated graphically.

Plate XIII contains hydrographs of the total flow passing the Heise, Woodville and Blackfoot Bridge gaging stations, together with graphs showing the net losses and gains in the two intervening sections and also in the section from Woodville to Clough's. The latter has been added because of the incompleteness of the Blackfoot Bridge record. All are plotted to the same scale and with a time interval allowance to make them coincide with Heise dates.

The general characteristics of these curves are not materially different from those of former years. The gain and loss curves are most irregular during periods of high discharge and rapid

DIAGRAMMATIC ILLUSTRATING NET LOSSES AND GAINS BETWEEN THE HEISE AND CLOUGH GAGING STATIONS
U.S.G.S. DISTRIBUTION WATER DISTRICT NO. 36

PLATE XIII

DISCHARGE IN CUBIC FEET PER SECOND

20,000
16,000
12,000
8,000
4,000

HEISE TO WOODVILLE

WOODVILLE TO BLACKFOOT BRIDGE

WOODVILLE TO CLOUGHS

GAIN
LOSS
2,000
1,000
0
1,000
2,000

HEISE
WOODVILLE
BLACKFOOT BRIDGE

change of stage, with the previously noted trend toward a decrease in the gain or an increase in the loss accompanying a rapid rise in river stage and the reverse condition attendant upon a rapid drop, still in evidence. The extremely large gain noted between Heise and Woodville July 1-4 is probably attributable in part to errors in river station ratings, although at this particular time large increase in the waste from adjacent canal systems as well as in the ground water return seems reasonable.

Larger mid-season gains and correspondingly smaller losses than those of the preceding year are consistent with the more abundant water supply which was available throughout 1927.

At different times during the years 1921 to 1926 ten separate sets of measurements have been obtained covering surface waste and return flow entering Snake River between the Woodville and Clough gaging stations, all of which have been summarized and discussed in previous reports.

The following tabulation makes available the results of one more such investigation conducted during the 1927 season:

Right Bank River			Left Bank River		
Name	Date	Amt.	Name	Date	Amt.
Fugal Gulch	8/10	0.00			
Roadside	"	0.00			
Woodville Bridge					
			(Snake River Valley)	8/10	0.80
				"	0.30
				"	0.30
#1	8/10	0.00	#1		
#2	"	0.00	#2		
#3	"	0.20	#2a		
#4	"	0.10			
#5	"	0.00			
#6 (Woodville waste)	"	3.00			
#6a	"	0.00			
#6b	"	0.30			
#6c	"	0.50			

Right Bank River

Name	Date	Amt.
	8/10	4.00
#7	"	0.50
#7a (New Sweden)	"	0.10
#7b	"	3.00
#7c (New Sweden regular)		53.40
#8		

Lower Shelley Bridge

	8/10	0.80
#10	"	2.00
#11	"	0.60
#12	"	0.10
#13	"	0.30
#14-25		

Firth Bridge

	8/10	0.90
#25a	"	0.00
#25b	"	42.20
#26 (New Sweden)	"	1.70
#27-29	"	9.18
#30 (New Lava Side)	"	1.00
#31 (Riverside)	"	0.00
#32		

Porterville Bridge

	8/11	0.60
#33-43	"	16.80
#44 (Danskin)	"	0.20
#45		

Blackfoot Bridge

	8/11	0.20
#46	"	0.40
#47-51	"	18.67
#52 (Trego)	"	0.00
#52a (Thorsen)	"	0.20
#53 (Parsons)	"	0.80
#54 (Watson)	"	60.48
#55 (Combined wasteway)	"	0.60
#55a	"	1.60
#56 (Peoples)	"	0.40
#57	"	1.50
#58		

Blackfoot Gaging Station (Clouchs) on Snake River

Total Right Bank 226.33 Total Left Bank

Left Bank River

Name	Date	Amt.
#1	8/10	0.20
#2	"	0.20
#3 (Snake River Valley)	"	0.30
#3a " " "	"	23.20
#3b " " "	"	0.00
#4 " " "		
#5-10		

	8/10	0.30
#11	"	0.00
#12-15	"	0.40
#16 (Nielsen-Hansen)	"	0.00
#17-19	"	1.00
#20	"	0.00
#21		

	8/11	2.65
#22	"	0.00
#23	"	31.30
#24 (Blackfoot Waste)	"	3.50
#24a " "	"	0.40
#24b " "	"	0.80
#25 " Sewer)		

	8/11	2.50
#26	"	1.00
#27	"	0.70
#28	"	0.20
#29	"	1.00
#30	"	0.30
#31	"	2.00
#32		

73.35

These special return flow measurements have been made for the purpose of affording additional information concerning the reasonableness of the 6 per cent which has, for several years, been charged against stored water as transmission loss through this section of the river. The results obtained, however, can hardly be considered as in any sense conclusive because of the effect of preceding river conditions and, when reduced to percentage, of the marked variations introduced by the different amounts of total flow pertaining at the time of the particular investigation. For example; analysis shows actual net differences ranging in amount from an indicated net gain of 43 second-feet up to an average loss of 510 second-feet or from an apparent gain of 1.28 per cent up to a loss of 24.4 per cent. It should be noted also that the largest actual loss which was shown for the first test represents only 6 per cent because the average river flow in the section at that time amounted to about 8500 second-feet while the 24.4 per cent loss which is the result of the 1926 series of measurements corresponds to an actual loss of only 264 second-feet since the average total discharge of the river was then slightly less than 1100 second-feet.

If the 299.7 second-feet of surface waste measured or estimated during the 1927 test is added as measured inflow an apparent net gain in this section of 89.5 second-feet is changed to a net loss of 210.2 second-feet or 5.4 per cent of the approximate mean river discharge.

To arrive at really dependable average percentage losses would require carrying on these special measurements continuously (with recording gage records on all important wasteways) for a period of several years. However, the short time tests afford some additional

information and, if the 1924 and 1926 series which were made at extremely low river stages (under conditions which do not pertain when any appreciable quantity of storage is being run past Blackfoot) are excluded, indicate that the 6 per cent loss which has been charged is probably not seriously in error.

Plates XIV and XV afford a study of the gains and losses in the river sections immediately above and below the Robertson station and have been inserted as much to show the doubtful character of the 1927 record at this point as for any real value to be derived from the data.

Both the information on Plate XIV and the graphs on Plate XV correspond with the nearest calendar dates for the three stations involved. The Clough hydrograph has been added to the latter to facilitate the determination of the effect of changing river stage upon the gains and losses.

Examination of these plates shows immediately a very pronounced tendency toward increased gains between Robertson and Clough's as the losses become greater between Blackfoot Bridge and Robertson. This is particularly noticeable when the discharge at Clough's is in excess of about 3500 second-feet. At the same time the gain and loss graph from Blackfoot Bridge through to Clough's remains fairly uniform. The natural conclusion to be derived from these conditions is that too little water is shown by the Robertson record.

Possibly this situation may be due entirely to poor definition of the Robertson rating at higher stages but it might also be explained by some undiscovered by-pass of water which is non-existent when the river discharge is less.

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
WATER-RESOURCES BRANCH

File Number { Washington ..... District .....

PLATE XIV.

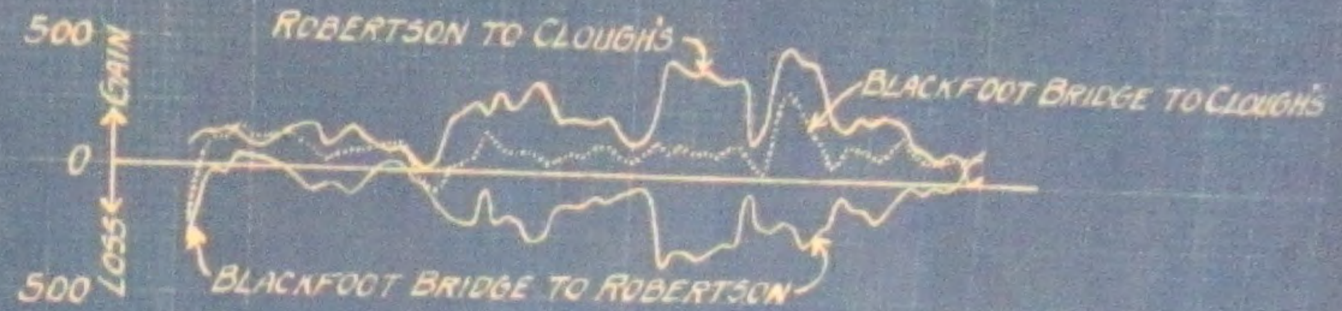
1921 DISTRIBUTION WATER DISTRICT NO. 36

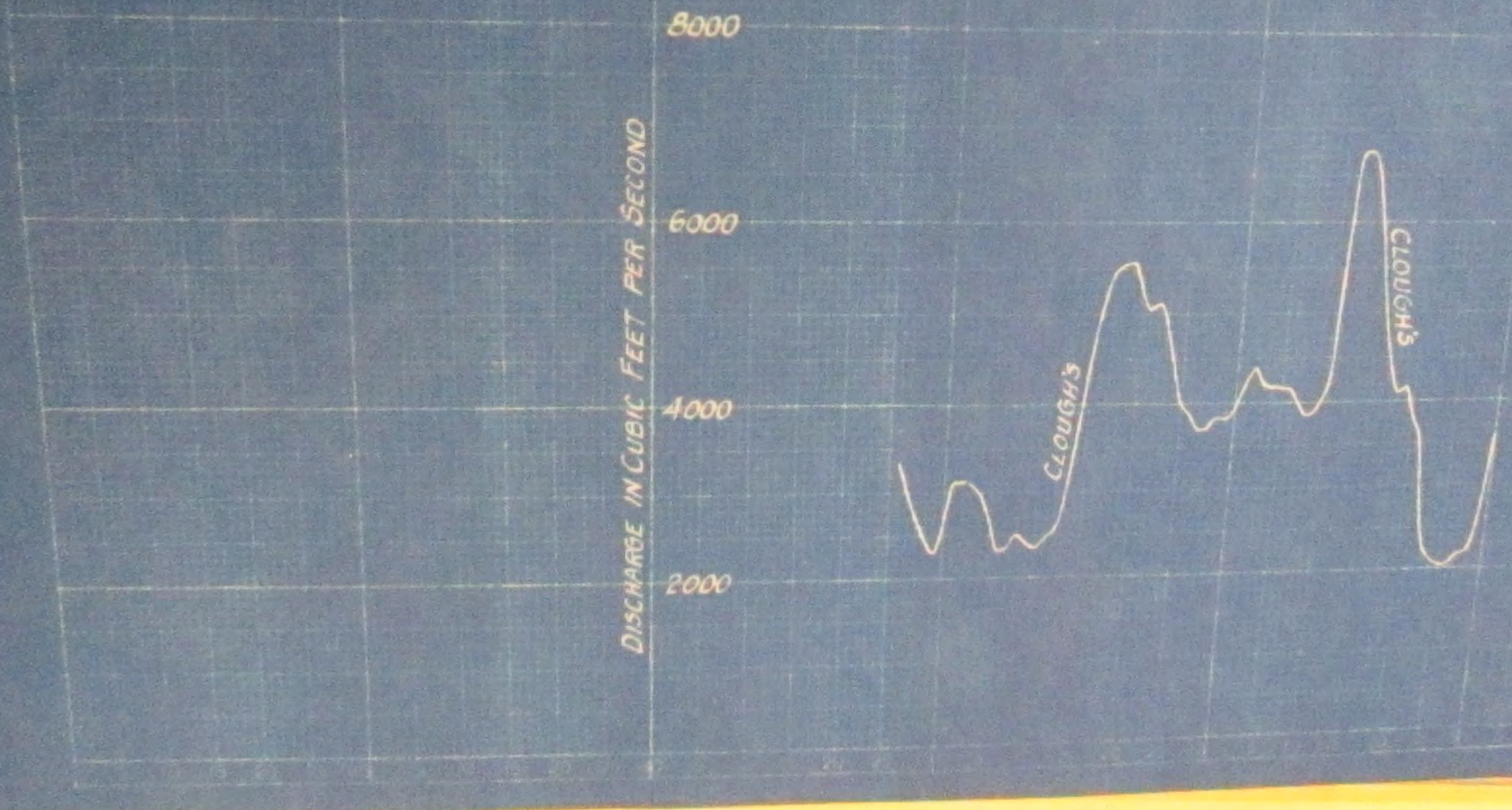
GAINS AND LOSSES ABOVE AND BELOW ROBERTSON GAGING STATION

DATE	AUGUST						SEPTEMBER					
	BL. BR. MINUS S.M.CAN.	ROBERTSN	LOSS	ROBERTSN PLUS BL. RIVER	CLOUGH'S	GAIN	BL. BR. MINUS S.M.CAN.	ROBERTSN	LOSS	ROBERTSN PLUS BL. RIVER	CLOUGH'S	GAIN
1	2885	2910	- 25	3025	3110	85	3864	3810	54	4109	4250	141
2	2856	2860	- 4	3004	3120	116	4036	3900	136	4113	4380	267
3	2820	2810	10	2919	3070	151	3985	3620	365	3737	4190	453
4	2758	2700	58	2790	2950	160	3952	3650	302	3748	4170	422
5	2490	2400	90	2484	2650	166	3979	3670	309	3769	4170	401
6	2232	2170	62	2230	2320	90	3979	3650	329	3709	4130	421
7	2207	2140	67	2236	2360	124	3824	3520	304	3556	3940	384
8	2238	2140	98	2339	2500	161	3679	3410	269	3458	3840	382
9	2160	2100	60	2283	2410	127	3753	3480	273	3571	3960	389
10	2134	2130	4	2245	2340	95	4012	3940	72	4080	4210	130
11	2212	2240	- 28	2368	2440	72	5406	5210	196	5449	5660	211
12	2260	2280	- 20	2456	2540	84	6099	5890	209	6289	6760	471
13	2683	2640	43	2865	2920	55	6139	5960	179	6238	6760	522
14	3358	3300	58	3662	3670	8	6009	5810	199	5995	6460	465
15	4040	3900	140	4449	4500	51	5403	5130	273	5300	5760	460
16	4543	4360	183	4904	5100	196	4627	4410	217	4586	4940	354
17	4867	4660	207	5236	5470	234	4138	3950	188	4168	4400	232
18	4931	4720	211	5279	5540	261	3740	3670	70	3912	4110	198
19	4864	4790	74	5342	5570	228	3760	3640	120	3906	4150	244
20	4747	4540	207	4934	5240	306	3536	3410	126	3606	3840	234
21	4684	4510	174	4804	5050	246	3350	3180	170	3350	3600	250
22	4739	4530	209	4810	5100	290	2454	2340	114	2466	2710	244
23	4602	4320	282	4523	4870	347	1938	1880	58	1974	2200	226
24	4197	3940	257	4110	4400	290	1890	1870	20	1951	2080	129
25	3810	3670	140	3794	3990	196	1874	1830	44	1915	2030	115
26	3665	3530	135	3648	3860	212	1877	1860	17	1958	2040	82
27	3496	3360	136	3490	3690	200	1948	1920	28	2058	2170	112
28	3426	3330	96	3506	3710	204	1925	1920	5	2107	2210	103
29	3490	3380	110	3624	3840	216	2153	2250	- 97	2642	2640	- 2
30	3496	3410	86	3666	3820	154	3102	3210	- 108	3596	3620	24
31	3665	3600	65	3849	3960	111						
TOTAL			3,185			5,236			4,441			8,064

HYDROGRAPHS ILLUSTRATING GAINS AND LOSSES IN SECTIONS ADJACENT TO ROBERTSON STATION
1927 DISTRIBUTION WATER DISTRICT NO 36.

PLATE XV.





Measuring conditions are poor at nearly all stages and the known overflow or by-pass is so great as to make the station practically worthless during any really high discharge periods.

For these reasons it seems advisable not to place very much dependence upon the 1927 Robertson data.

Plate XVI affords a graphical study of the inflow between the Clough and Neeley gaging stations and its relation to changes in the amount of storage impounded in the American Falls Reservoir. The Neeley total discharge hydrograph has been added for the convenience of those who may desire to make comparisons of reservoir inflow and outflow.

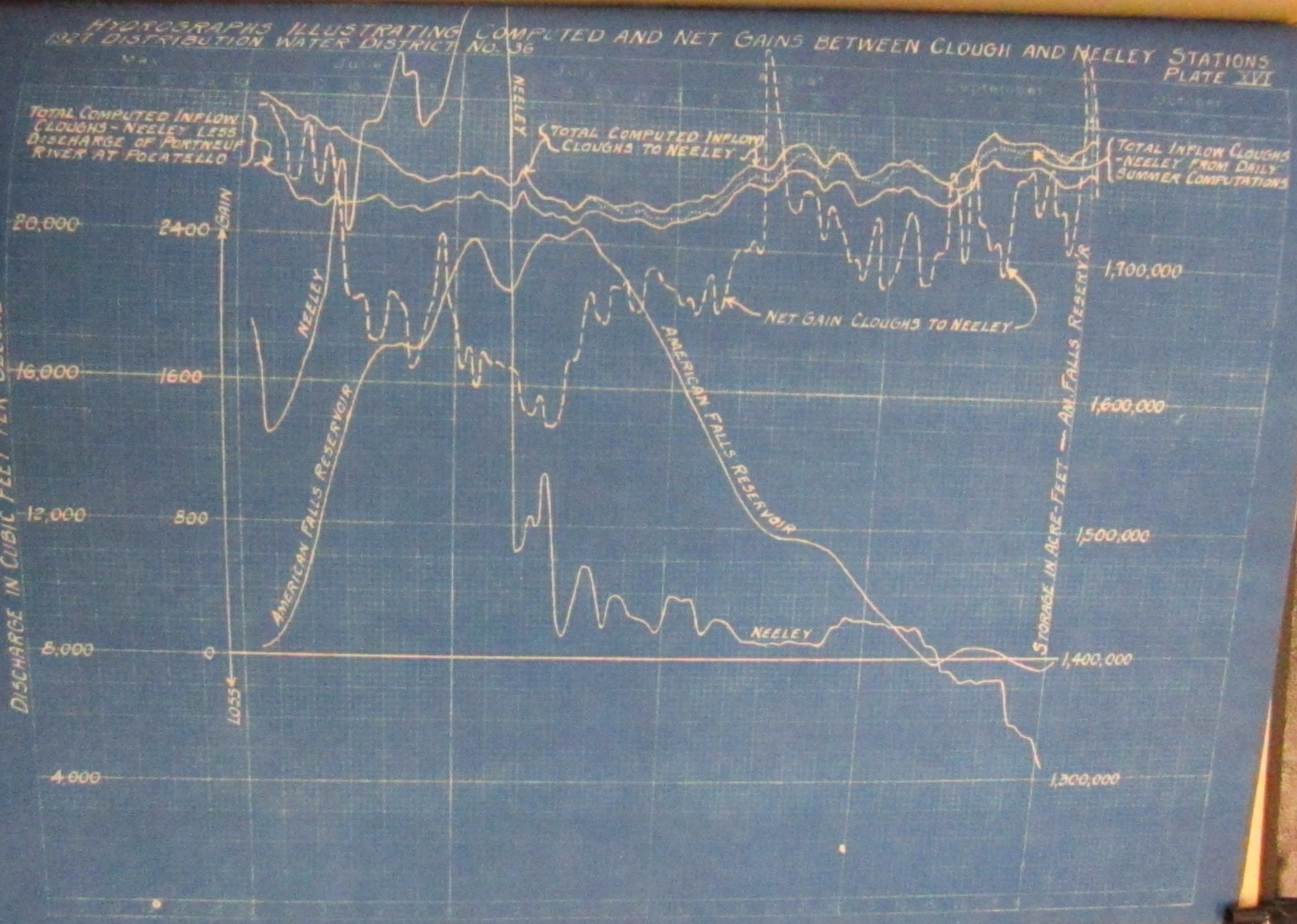
The dotted curve represents the total inflow as determined from day to day during the summer in accordance with the method described on page 28. While this curve crosses the one for the total computed inflow prepared from the Newell or final report data, the latter, in general, is slightly greater. For the period of comparative record this difference averages 42.8 second-feet or 1.5 per cent - a variation believed to be well within allowable range.

The graph showing the net gain between the Clough and Neeley stations introduces the reservoir factors and, as might be expected, is decidedly irregular. The difference between it and the total computed inflow represents the over-all or net loss through the reservoir, most of which is accounted for by the heavy evaporation. The fact that the losses are generally heavier on a rising than on a falling reservoir stage and are largest during mid-summer when the reservoir was practically full should be noted.

For more detailed study and discussion of the different factors affecting stream flow in this section of the river the reader

HYDROGRAPHS ILLUSTRATING COMPUTED AND NET GAINS BETWEEN CLOUGH AND NEELEY STATIONS
1927 DISTRIBUTION WATER DISTRICT NO. 36

PLATE XVI



is referred to the Newell report issued during February 1928, to which reference has so frequently been made.

Before leaving this subject entirely, however, it may be well to repeat the table showing average June to September inflow in second-feet which was shown on page 40 of the 1926 report, with similar data for 1927 added:

Year	Gain	Year	Gain
1919	2340	1924	2279
1920	2435	1925	2495
1921	2529	1926	2456
1922	2564	1927	2693
1923	2701		

9 year average 2499

Note. Discharges in above table represent the total inflow between the Clough and Neeley stations (net gain for pre-reservoir years) less the flow of Portneuf River at Pocatello.

When the general water supply conditions during these years are taken into consideration, the 1927 data appear fairly reasonable and more consistent with the other records than 1923 which seems too large and 1925 which looks small.

Plate XVII shows net gain or loss graphs for the two sections between the Neeley and Minidoka and the Minidoka and Milner gaging stations respectively. It also includes curves showing the fluctuations in water surface elevation at both Lake Walcott and Lake Milner, together with hydrographs for the river stations below the Minidoka and Milner dams. All these are plotted to coincide with Lake Walcott or Minidoka dates.

The heavy September waste past Milner Dam has already been explained. (See pages 10 and 26).

HYDROGRAPHS ILLUSTRATING NET LOSSES AND GAINS BETWEEN THE NEELEY AND MILNER STATIONS
1927 DISTRIBUTION WATER DISTRICT No 36

PLATE XVII

May

DISCHARGE IN CUBIC FEET PER SECOND

GAGE HEIGHT IN FEET (LAKE MILNER)

GAGE HEIGHT IN FEET (LAKE WALCOTT)

MINIDOKA

LAKE WALCOTT

LAKE MILNER

MILNER

MINIDOKA

MILNER

NEELEY TO MINIDOKA

MINIDOKA TO MILNER

GAIN

GAIN LOSS

LOSS

Extreme irregularity of the gain and loss curves during the early part of the season is no doubt chiefly due to the fact that the time intervals used are too long for the high river discharges then experienced. With uniform stage changes of small magnitude a considerable error in time interval would have only a slight effect upon these graphs but when these variations are both sudden and large in amount the indicated gains and losses are bound to fluctuate over a much wider range.

The average net loss for the entire season for the section from Neeley to Minidoka amounted to 347 second-feet while for the corresponding period the average net gain recorded between Minidoka and Milner was 347.5 second-feet, making almost an exact balance for the combined section. The gain in the lower section is very consistent with that noted during 1925, the year which probably most closely resembles 1927 as regards water supply conditions, but the loss through the upper stretch is considerably larger than would be expected. Possibly the unusually low stage in Lake Walcott (half capacity or less) which was maintained from October 1926 until the early part of February 1927, a condition which did not exist prior to the 1925 season, may have lowered the ground water table sufficiently to account in part for this heavier loss. At any rate these figures show no indication of the by-passing of water around the American Falls Dam.

During the 1927 storage delivery period (July 18 to October 1, Neeley dates), when the river station ratings were well defined and the gain or loss graphs more uniform, the records show an average daily

loss of 311 second-feet between Neeley and Minidoka and a mean daily gain of 438 second-feet between the latter station and Milner.

No very good opportunity existed to obtain data concerning the gain from bank storage which is to be expected when there is a material and rapid draft upon Lake Walcott.

NORMAL FLOW COMPARISON

The purpose of Plate XVIII is to afford a condensed comparison of the normal flow water supply available during the respective irrigation seasons 1919-1927 for the so-called Idaho Falls area. It consists of a table showing by months the principal component parts which make up the normal flow of Snake River and the extent to which water of this character is used in the territory between the Heise and Rexburg gaging stations at the upper end and the Blackfoot or Clough station at the lower end of this section.

The quantities listed are all summarized from the more extensive river data tables contained in District No. 36 Water Distribution Reports. Time intervals have been adjusted to correspond as nearly as practicable to Heise dates.*

The following brief explanation which is almost identical with that contained in the 1926 report is included for the convenience of the reader:

Columns 1-4 Sufficiently described by headings.

Column 5 Net gain in the section. To be complete it should probably have added to it the quantities contained in the same lines in Column 6.

*1922 and 1923 reports erroneously state that these records have been adjusted to correspond with actual canal diversion dates.

SUMMARY BY MONTHS OF NORMAL FLOW CONDITIONS BETWEEN THE HEISE-REXBURG AND BLACKFOOT GAGING STATIONS IRRIGATION SEASONS 1919-1927.

1927 DISTRIBUTION WATER DISTRICT NO. 36.

PLATE NO. XVIII

YEAR	HEISE NORMAL FLOW	REXBURG	BLACKFOOT RIVER	RETURN FLOW HEISE TO BLACKFOOT	NORMAL FLOW GAINS FROM STORED LOSS	TOTAL NORMAL FLOW SUPPLY	TOTAL DIVERSIONS HEISE TO BLACKFOOT	STORED DIVERS. HEISE TO BLACKFOOT	NORMAL FLOW DIVERS HEISE TO BLACKFOOT	BALANCE BLACKFOOT STA.	NOF FLOW PASSING BLACKFOOT STA.
JUNE											
1919	241439	22477	400	-18994	16728	262050	264752	10433	254319	7731	7731
1920	552010	84910	3205	-14579	0	625546	310026	0	310026	315520	315520
1921	683677	153110	5039	-33854	0	807972	277462	0	277462	530510	530510
1922	595489	113110	8190	- 2304	0	714485	331545	0	331545	382940	382940
1923	482579	90200	11597	23918	0	608294	262414	0	262414	345880	345880
1924	303207	15476	201	10631	4577	334092	233547	-66484	300031	34061	@34061
1925	499874	123010	4830	25290	0	653004	314594	0	314594	338410	@338410
1926	273756	24483	78	12507	14003	324827	27980	-29310	301290	23537	@23537
1927	769629	222720	3547	22579	0	1018475	302135	0	302136	716340	@716340
JULY											
1919	121226	21652	14	-4693	12321	150520	180218	35521	144697	5823	5823
1920	353997	31670	4810	8812	6048	405337	317285	7089	310196	95141	95141
1921	308767	30480	3213	5651	7803	355914	323826	11031	312795	43119	43119
1922	297375	31066	6471	25067	10796	370775	321988	4681	317307	53468	53468
1923	365108	28661	5864	22459	10881	432973	328971	4020	324951	108022	108022
1924	171278	17345	655	23098	9853	222229	255842	39689	216153	6076	@6076
1925	431518	82730	4470	38754	7175	564647	331306	3577	327729	236918	@236918
1926	161280	28155	54	18374	14360	222223	243236	24417	218819	3404	@3404
1927	500607	98850	3160	41057	2171	645845	357867	9368	348499	297346	@297346
AUGUST											
1919	98839	19894	78	3938	5123	127872	129054	2217	126837	1035	1035
1920	177244	24553	5266	34866	6390	248319	259201	25851	233350	14969	14969
1921	*182975	35843	8209	29756	5620	*262403	260670	10608	250062	12341	12341
1922	192659	34222	6897	37086	7071	277935	252849	15156	237693	40242	40242
1923	178904	28659	5979	35700	11008	260250	265384	23833	241551	18699	18699
1924	101953	25686	16	13484	6060	147199	210169	67074	143095	4104	@4104
1925	213661	45400	5963	32383	15047	312454	281504	3753	277751	34703	@34703
1926	127966	28940	134	14822	5264	177126	198605	23454	175151	1975	@1975
1927	218894	43590	7688	45871	8748	324791	292973	10018	282955	41836	@41836
SEPTEMBER											
1919	87115	22501	345	2234	0	112195	107517	0	107517	4678	4678
°1920	°66389	°21130	°2290	°10585	°521	°100915	°71638	°0	°71638	°29277	°29277
1921	129235	50960	4525	26655	184	211559	149132	0	149132	62427	62427
1922	133751	39758	1996	15950	0	191455	142769	0	142769	48686	48686
1923	120623	30825	3798	23299	5571	184116	194718	22851	171867	12249	12249
1924	87479	24983	503	15364	1890	130219	141596	15613	125983	4236	@4236
1925	°142414	°56000	°9268	°23884	°2280	°233846	°150283	°0	°150283	°83563	@83563
1926	95080	29468	1064	10731	2172	138515	142137	4869	137268	1247	@1247
1927	161014	53890	5027	30467	5566	255904	188009	885	187124	68780	@68780

NOTES. - ALL DISCHARGE QUANTITIES LISTED IN SECOND FEET.
@ THEORETICAL; SEE TEXT FOR EXPLANATION.
° INCLUDES EMMA MATILDA AND TWO OCEAN LAKE STORAGE RECORDS FOR SEPTEMBER 1-15 (INCLUSIVE) ONLY.
* RECORDS FOR SEPTEMBER 1-28 (INCLUSIVE) ONLY.

Column 6 If the storage transmission loss is correctly determined, any indicated normal flow gain from that source is really additional return flow. The quantities shown in this column reflect changes in transmission loss schedules which should be taken into account in comparing the data for different years.

Column 7 The algebraic sum of the quantities listed in the five preceding columns.

Columns 8-10 Headings afford sufficient explanation.

Column 11 "Total Normal Flow Supply" less "Normal Flow Diversions Heise to Blackfoot."

Column 12 Equivalent to column 11 on which it affords a check, as the results here given for all years except 1924, 1925, 1926 and 1927 were taken direct from the river data sheets. Because of the use of the Blackfoot Bridge instead of the older Blackfoot or Clough station as an adjustment point, theoretical rather than actual totals must be used for the latter point in these four years if a check on column 11 is to be secured.

The 1924 and 1925 segregations of diversions as between stored water and normal flow are complicated by the exchanges which were made. For example, the minus storage shown as being diverted during June of these years represents the excess of the normal flow accepted for exchange over actual storage diversions while the normal flow shown as diverted in the same month very evidently is a theoretical rather than an actual quantity.

The analysis of 1927 conditions to be derived from this summary emphasizes certain more or less pronounced peculiarities, some of which have already been mentioned.

(1) The total normal flow supply was consistently, throughout the entire summer, the largest of the nine years listed, although the excess over 1925 was very slight during August and September.

(2) The return flow entering between Heise and Blackfoot during July. August and September was the largest recorded for these months during the nine year period.

(3) More water was diverted between Heise and Blackfoot during July, August and September and during the whole four months than in any other year listed.

(4) With the single exception of 1925, the amount of stored water used in this section during the season was the smallest of record during the nine years.

(5) More normal flow passed Blackfoot during June, July and August and also during the entire four months period than in any other year since 1918, at least.

GROUND WATER

In connection with the Meeker investigation, records were maintained during the 1923 irrigation season on 134 wells distributed over what was designated as the Snake River Cone -- a triangular area extending in a general northwesterly direction from an apex at the Heise gaging station.

The ground water levels throughout this triangle are believed to have a material influence not only upon the river losses between the Heise and Lorenzo gaging stations, but also on the amount of return flow noted as entering between Lorenzo and Woodville. For this reason it seemed advisable to secure additional observations during subsequent seasons. Because of the more intensive regular work required during the water shortage year of 1924 only one set of measurements was then obtained but in 1925 records were secured once each month from May to September inclusive. In 1927, as in 1926, from three to five wells (27 in all) were selected in each of the following described six groups and were measured once each month from June to September.

Group No. 1.

Wells located on the south side of the Great Feeder Canal and east of the Yellowstone Branch of the O.S.L.R.R.

Group No. 2.

Wells located on the south side of the Great Feeder Canal and west of the Yellowstone Branch of the O.S.L.R.R.

Group No. 3.

Wells located on the north side of Snake River between Heise and the Yellowstone Branch of the O.S.L.R.R.

Group No. 4.

Wells located between Snake River and the Great Feeder Canal and east of the Yellowstone Branch of the O.S.L.R.R.

Group No. 5.

Wells located between Snake River and the Great Feeder Canal and west of the Yellowstone Branch of the O.S.L.R.R.

Group No. 6.

Wells located on the north side of Snake River and west of the Yellowstone Branch of the O.S.L.R.R.

This segregation corresponds to that described in all preceding reports but the diagrams shown on Plate XIX are consistent only with those contained in the 1926 summary.

With the smaller number of wells under observation during 1926 and 1927 it is still possible to show the general trend and characteristics of the ground water changes, although the data obtained are necessarily less comprehensive and consequently less dependable than the information secured during 1923 and 1926.

The progressive changes in elevation noted on Plate XIX indicate that 1927 conditions were quite similar to those of the years 1923 and 1925 and that August and September levels, in

DIAGRAMS SHOWING PROGRESSIVE CHANGES IN GROUND WATER LEVELS ON SO-CALLED HEISE-LORENZO CONE 1923-1927.
DEE DISTRIBUTION WATER DISTRICT NO. 36.

PLATE XIX

particular, were much better sustained than during the less favorable water supply years of 1924 and 1926. Less use of water for irrigation during May probably accounts for the delayed ground water rise in comparison with other years and apparently had a much greater effect than did the overflow of some of this area at the time of the Gros Ventre flood.

WATER DISTRIBUTION AND HYDROMETRIC WORK IN THE HENRYS FORK - FALL RIVER - TETON AREA

Hans R. Coffin filled the position of hydrographer and deputy water master in direct charge of hydrometric work and water distribution in the so-called North Fork section during 1927. All other deputies and assistants working in this area reported to and received their instructions from him, while he in turn worked under general orders issued from the office at Idaho Falls.

Through the courtesy of the Fremont County Commissioners the jury room at the Court House, St. Anthony, Idaho, was made available for use as summer headquarters.

The following abstract from a report prepared by Mr. Coffin affords a brief general summary of the work in this part of District No. 36:

> Canal and river measurements, gage readings and minor repairs to station equipment as usual occupied the time of the available personnel during the early part of the season.
>
> Beginning May 24, David I. Gardner assisted with this work, while from June 1 to August 31 he filled the combined position of hydrographer and deputy water master for the Teton River Division.
>
> Regular daily gage readings and reports began June 1 and continued until the end of August. During this period Mrs. Coffin was employed upon a half time basis to act as clerk in the St. Anthony office while Bruno Albert and T. W. Luetjen served respectively as deputy water masters in the Upper Fall River and Henry's Fork sections. The latter was retained as general assistant and

hydrographer throughout the month of September when Mr. Gardner was transferred to other work in the vicinity of Idaho Falls.

The stream discharge was well sustained and at no time during the season did it become necessary to cut any rights in advance of the main river schedule.

Normal flow was sufficient to fill the necessary requirements of all canals except that of the Enterprise Irrigation District whose shortage was compensated by the purchase of Jackson Lake storage delivered under the substitution method.

No demand was made for the release of stored water from Henrys Lake Reservoir and in consequence nearly 49,000 acre-feet remained available as a carry-over at the end of the season.

The new dam at the forks of Teton River evidently functioned satisfactorily as no complaints were received. In fact no unusual difficulties were experienced in connection with the water distribution in any part of the district administered through the St. Anthony office.

Actual deliveries to the canals diverting from Henrys Fork, Fall and Teton Rivers are shown on Plates XX, XXI, XXII and XXIII. These are based upon daily gage readings except during September when, because of personnel depletion, the readings were obtained at less frequent intervals. Discharges for days when no observations were made have been supplied by interpolation or by estimates.

In the matter of recomputation of data, as well as in other respects, the records here presented correspond and are consistent with those contained on Plates III, IV, V and VI.

Plates XXIV and XXV summarize data in regard to the flow of the three principal streams, diversions therefrom, losses and gains throughout different sections, in so far as it is practicable to show all these facts in such tables.

DAILY DISCHARGE IN SECOND FEET OF CANALS DIVERTING FROM HENRYS FORK AND TRIBUTARIES FOR JUNE 1927

FALL RIVER CANALS

	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	TOTAL
WILLOW STONE	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	
HARRINGFELD	0	0	0	0	0	0	0	18	17	17	19	20	22	22	20	24	22	0	19	23	21	23	26	31	22	22	0	0	0	0	
MARYSVILLE	0	0	36	49	39	39	41	46	47	46	45	46	46	47	45	46	46	0	19	23	21	23	26	31	22	22	0	0	0	0	
TOTAL DIV ABOVE SQUIRREL	0	0	36	49	39	39	41	64	64	63	64	66	68	69	65	70	68	0	38	46	42	46	52	62	44	44	0	0	0	0	
FARMERS OWN	0	0	0	0	0	0	0	0	0	0	0	0	1	6	10	13	30	35	32	38	41	42	45	49	49	49	50	47	50	49	
ALMY	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
ENTERPRISE	56	38	41	49	49	62	69	31	18	18	79	100	113	139	146	142	144	140	149	142	146	145	166	178	164	167	156	169	168	166	
BELL	0	0	0	0	0	2	2	2	3	3	12	12	12	12	12	12	12	12	12	12	12	12	12	13	14	14	14	14	14	14	
FALL RIVER	234	230	230	234	230	300	300	240	240	466	416	358	341	403	398	398	402	410	418	426	434	442	462	482	466	478	442	341	438	78	
MCBEE	3	1	1	1	1	1	1	1	1	1	10	11	11	11	16	12	12	12	13	13	12	13	13	14	16	16	15	15	11	11	
CHESTER	42	41	44	44	46	46	48	31	49	51	48	89	80	83	87	103	98	101	100	94	95	96	95	96	93	93	95	93	93	89	
SILKEY	1	1	1	1	1	13	13	17	16	16	16	20	20	21	21	23	23	23	23	24	23	23	20	20	20	20	23	19			
CURH	4	4	4	4	4	4	4	4	34	33	38	42	43	42	41	42	41	42	43	38	36	38	37	38	38	38	38	38	34	36	
WHITE	0	1	0	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4	4	4	4	3	4	4	4	5	4	4	4	
TOTAL DIV SQUIRR TO CHESTER	345	401	330	339	403	434	436	414	360	587	644	622	626	722	740	761	768	764	790	797	876	918	960	996	946	956	878	820	869	784	

HENRYS FORK CANALS

	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	TOTAL
DEWEY	5	6	5	5	5	6	11	11	9	9	9	12	20	19	19	21	20	20	20	23	22	25	25	24	23	20	6	5	21	22	454
LAST CHANCE	58	57	57	58	59	63	83	85	83	82	82	85	82	84	80	90	89	88	88	85	83	86	85	85	87	91	90	87	83	86	2606
STANTHONY UNION	369	361	376	320	333	311	293	303	372	458	461	431	450	458	466	426	426	431	457	458	431	423	425	420	431	435	449	373	365	291	12170
FARMERS FRIEND	39	150	164	171	171	178	174	186	178	170	162	185	168	171	175	176	179	185	185	204	173	163	184	185	202	204	187	180	71	71	5108
TWIN GROVES	121	138	131	139	145	141	143	146	142	130	142	148	145	143	143	144	143	141	143	144	142	143	140	144	148	148	139	140	117	122	4228
SALEM UNION	149	132	133	133	135	162	165	133	133	133	132	157	244	239	247	246	230	236	247	246	241	250	249	232	260	262	197	192	149	153	5972
TOTAL DIV ASHTON TO STANTH	796	836	900	826	866	861	867	864	937	1018	1028	1018	1107	1116	1130	1103	1087	1101	1136	1160	1109	1111	1112	1118	1153	1184	1058	974	906	841	31377
EGIN	257	279	299	295	250	254	277	279	243	223	251	266	279	284	292	290	295	291	293	291	290	280	290	312	315	319	329	297	281	288	8450
STANTHONY UNION FEEDER	61	59	53	57	59	56	57	60	60	60	60	61	58	59	55	57	56	56	52	57	57	53	54	55	56	58	54	51	55	46	1685
INDEPENDENT	240	275	261	267	197	199	226	232	208	210	220	234	261	275	294	286	292	279	271	271	267	281	283	285	268	290	286	280	277	262	7843
CONSOLIDATED FARMERS	238	241	240	241	242	242	242	241	238	210	232	233	235	234	234	235	234	232	232	230	230	232	232	264	264	267	255	224	210	217	7322
TOTAL DIV STANTH TO REXBURG	816	854	867	868	749	751	804	812	749	705	767	796	841	852	879	870	876	858	853	849	834	806	809	934	943	934	924	846	853	789	25330

TETON RIVER CANALS

	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	TOTAL
SIDDOWAY	0	0	0	0	6	13	17	20	22	20	20	17	19	6	6	7	7	17	9	10	10	9	12	20	21	21	23	21	22	22	396
WILFORD	89	87	89	92	95	96	93	117	124	126	101	109	111	114	113	112	116	118	107	100	98	231	236	233	237	170	116	110	97	94	4,096
TETON IRRIGATION	38	39	40	40	42	38	40	46	61	64	56	49	50	36	36	52	46	44	44	45	52	62	58	66	99	108	93	77	86	94	1387
GOOD LUCK	13	13	11	16	5	5	5	6	24	22	21	11	12	13	10	10	10	9	9	9	34	38	37	33	33	33	32	32	31	39	538
PIONEER	4	4	4	5	6	9	11	33	36	36	36	36	36	36	27	26	27	26	25	27	26	24	26	29	34	33	34	34	34	32	780
STEWART	4	4	4	4	5	4	5	5	6	6	5	6	34	28	28	13	28	23	51	40	58	37	34	56	53	28	27	28	33	23	636
PINCOCK AVINGTON	1	1	2	2	7	7	18	20	20	21	21	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	508
PINCOCK GARNER	23	26	27	34	33	26	34	19	37	11	20	10	10	10	10	10	10	6	5	5	5	5	11	1	3	20	30	25	28	26	514
TETON ISLAND FEEDER	189	194	196	217	236	241	434	196	199	199	201	230	223	236	230	317	311	311	363	327	338	414	424	432	416	424	246	230	230	230	6913
NORTH SALEM	16	15	13	16	15	15	19	17	19	21	23	25	27	29	30	31	32	33	33	33	33	36	33	41	42	42	41	41	44	41	37	1007
MORANA	10	10	33	41	39	30	30	30	49	39	28	33	37	31	32	37	35	33	29	28	26	26	25	40	38	31	30	39	45	44	28	11	905
ISLAND WARD	17	16	16	16	17	17	18	19	39	39	31	31	30	29	30	30	29	28	26	26	25	40	38	31	30	39	45	44	28	11	905
WOODMANSEE JOHNSON	49	49	50	51	55	56	56	56	63	18	37	53	56	58	56	57	57	57	63	61	61	61	62	62	63	63	66	63	64	66	1853
CITY OF REXBURG	32	38	38	37	43	43	46	39	61	60	64	71	71	72	68	68	70	78	79	86	84	79	75	78	80	80	81	78	80	80	2138
REXBURG IRRIGATION	178	178	178	179	185	190	192	197	201	205	210	214	220	202	233	240	235	244	246	251	309	270	270	252	260	267	266	304	303	283	7,000
TOTAL DIVERSIONS	661	676	701	731	799	794	933	850	963	899	915	1007	1040	1009	1002	1090	1075	1094	1071	1020	1097	1401	1408	1451	1457	1409	1318	1281	1188	38218

1927 Big Wood River Water District No 36

Plate No XII

Daily Discharge in Second Feet of Canals Diverting From Henrys Fork and Tributaries For July 1927

Fall River Canals

	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	TOTAL
YELLOWSTONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	7	8	8	10	9	12	6	12	12	12	12	116
HARRISFELD	22	23	25	27	26	26	26	27	26	27	27	26	11	0	0	0	0	0	0	3	13	12	10	9	9	8	8	7	7	7	7	419
MARYSVILLE	170	179	179	133	160	173	172	178	182	182	176	178	180	0	185	186	164	157	176	171	171	171	174	176	174	170	170	174	178	176	176	5137
TOTAL DIV ABOVE SQUIRREL	192	202	204	160	186	199	198	205	208	209	203	204	191	0	185	186	164	157	182	174	193	191	192	195	192	190	192	193	197	195	195	5672
FARMERS OWN	47	49	48	48	47	49	51	51	52	52	52	52	51	52	53	53	50	51	52	51	47	56	53	51	50	50	50	47	40	40	35	1541
ALMY	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	69
ENTERPRISE	160	166	163	165	162	165	166	167	165	167	164	162	170	166	166	164	162	161	151	144	146	130	137	134	135	137	137	135	61	0	0	4416
BELL	13	13	13	12	12	13	13	1	1	12	11	11	10	9	9	8	8	9	6	5	3	3	4	1	1	1	2	3	3	4	4	219
FALL RIVER	430	455	446	455	470	446	420	424	440	449	427	440	416	411	413	416	391	380	378	380	385	400	396	387	332	319	365	358	336	365	350	12,479
McBEE	5	4	3	5	4	8	8	0	0	11	8	7	6	5	3	4	7	8	7	8	6	6	5	4	5	3	3	3	4	7	7	172
CHESTER	77	66	64	68	73	71	70	71	70	74	67	64	62	60	60	59	51	52	51	50	49	71	79	55	52	66	63	80	77	70	69	2050
SILKEY	17	17	15	16	18	17	13	15	16	24	21	18	17	20	20	21	13	13	12	12	9	10	10	9	11	19	22	23	23	28	27	532
CURR	37	36	40	39	31	9	7	10	9	22	23	21	21	18	22	22	15	18	17	26	33	34	31	31	32	27	25	24	24	26	28	738
WHITE	3	2	3	3	2	0	4	3	2	3	3	1	1	1	0	0	0	2	2	2	2	2	2	0	0	1	1	0	0	0	1	46
TOTAL DIV. SQUIRR TO CHESTER	797	811	796	814	790	781	761	748	750	817	775	779	737	745	749	751	706	696	670	680	679	721	720	673	619	626	669	676	597	561	550	28,280

Henrys Fork Canals

	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	TOTAL
DEWEY	21	20	22	21	21	24	24	24	23	24	23	22	23	23	23	22	22	22	21	21	20	22	20	20	21	21	22	21	21	22	23	601
LAST CHANCE	76	75	81	77	81	63	57	60	69	61	63	76	52	50	61	59	50	57	45	46	44	0	29	32	34	51	35	34	35	48	46	1837
ST ANTHONY UNION	383	380	379	381	372	361	445	431	434	433	426	439	385	380	375	420	415	457	471	520	515	512	512	503	503	498	481	479	491	367	471	13602
FARMERS FRIEND	65	62	62	65	74	75	82	80	79	121	129	123	121	137	127	129	150	163	162	165	170	161	155	159	163	152	135	161	71	74	30	3647
TWIN GROVES	122	119	119	79	68	66	95	94	94	129	123	121	118	124	128	122	141	158	152	151	152	151	150	152	150	149	150	124	109	112	110	3031
SALEM UNION	149	144	141	153	173	180	177	155	157	196	191	10	135	156	216	214	236	204	203	208	226	220	224	214	215	210	187	171	169	171	174	5579
TOTAL DIV ASHTON TO ST ANTH.	816	800	803	776	789	769	880	944	956	964	955	791	834	870	930	966	1022	1063	1059	1111	1127	1066	1090	1079	1076	1080	1035	990	986	794	834	28707
EGIN	261	257	257	247	261	247	213	268	269	278	297	297	291	286	282	282	254	254	248	293	295	261	261	214	213	230	293	263	294	266	258	8136
ST ANTHONY UNION FEEDER	41	40	40	40	40	43	59	70	61	52	49	50	32	33	34	47	42	47	45	48	50	40	41	53	53	50	49	46	49	4	0	1350
INDEPENDENT	262	250	246	252	269	240	267	271	267	269	271	278	260	264	262	314	294	275	300	296	294	277	288	281	277	275	278	260	264	226	199	8388
CONSOLIDATED FARMERS	211	212	211	210	210	206	205	205	228	228	228	229	228	229	229	228	224	222	222	222	228	228	230	247	242	230	235	228	230	250	229	6960
TOTAL DIV STANTH TO REXBURG	775	759	754	749	780	744	744	814	814	822	845	849	811	812	807	871	814	798	815	859	865	806	828	795	785	859	852	799	797	670	635	24764

Teton River Canals

	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	TOTAL
SIDDOWAY	22	17	16	16	17	20	12	15	22	21	16	16	16	14	16	17	15	18	17	19	17	18	17	19	19	19	19	12	18	18	17	531
WILFORD	78	67	114	122	123	195	194	194	202	159	178	178	175	164	162	158	181	180	176	176	176	171	163	160	165	161	158	155	159	153	181	190	4930
TETON IRRIGATION	105	94	90	102	93	98	65	51	53	56	40	53	54	60	74	76	18	54	94	81	87	100	106	100	14	63	94	63	70	70	69	2270
GOOD LUCK	29	29	29	26	24	23	21	20	19	18	22	19	17	17	16	16	21	20	19	19	18	16	31	31	35	34	18	19	19	19	19	605
PIONEER	32	24	20	18	17	52	25	29	27	22	18	16	10	11	21	19	17	16	16	6	26	25	25	25	25	23	22	21	21	20	20	578
STEWART	31	27	26	27	27	25	20	27	30	36	33	31	27	25	37	30	36	36	35	35	31	29	27	25	22	20	24	16	16	15	23	808
PINCOCK BYINGTON	21	21	21	21	15	10	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	13	12	2	2	2	2	2	192
PINCOCK GARNER	7	1	0	0	0	20	3	5	5	5	1	0	0	3	3	2	1	5	8	8	8	15	20	20	3	8	2	2	5	3	3	169
TETON ISLAND FEEDER	269	246	235	246	230	293	278	311	329	300	270	339	327	308	319	311	302	305	293	324	302	330	366	342	340	309	311	293	290	272	264	9264
NORTH SALEM	39	33	30	30	31	26	24	23	21	19	17	15	13	13	16	16	13	14	13	16	13	13	14	14	13	13	12	12	11	11	11	369
ROXANA	30	25	21	19	23	22	18	13	14	16	9	5	4	4	7	3	2	2	10	11	34	16	10	10	7	16	20	22	19	21	19	436
ISLAND WARD	10	10	9	7	7	7	27	40	26	26	17	15	15	14	14	42	42	38	35	46	42	50	38	34	34	33	4	4	37	62	43	636
WOODMANSEE JOHNSON	62	60	63	64	66	60	50	29	29	27	34	32	47	43	41	35	36	35	32	40	32	46	47	37	37	38	38	37	36	36	35	1414
CITY OF REXBURG	66	76	58	80	80	78	76	71	71	70	67	67	69	65	64	59	58	52	40	44	44	42	41	42	39	37	37	36	36	35	35	1869
REXBURG IRRIGATION	277	257	259	235	243	234	224	224	216	186	196	211	203	193	179	176	160	201	190	189	195	206	206	203	210	192	178	169	191	197	196	6404
TOTAL DIVERSIONS	1075	967	964	1003	1008	1148	1031	1086	1099	990	950	1013	960	958	987	969	908	957	1002	1007	1024	1036	1129	1102	1068	1013	978	926	946	948	937	31,194

Daily Discharge in Second Feet of Canals Diverting From Henrys Fork And Tributaries For August 1927

Fall River Canals

	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	TOTAL
McCLAIN LINE	14	15	16	16	16	16	16	18	20	20	21	21	21	20	21	21	21	20	19	20	21	22	22	22	22	22	22	22	22	22	22	615
HARRIS FLD	7	19	18	18	17	17	17	17	16	16	17	16	16	16	16	15	15	15	13	13	13	11	10	10	9	10	7	7	7	6	15	480
MARYSVILLE	164	154	154	154	153	132	142	120	117	119	117	104	90	89	91	79	72	70	61	60	61	54	54	60	57	56	54	53	50	46	2770	
TOTAL DIV ARDINE SQUIRREL	185	187	188	170	186	165	174	155	153	155	155	141	127	125	128	115	108	105	96	93	96	87	91	92	90	90	87	82	87	84	83	3815
FARMERS OWN	35	35	35	30	22	22	22	21	21	21	21	20	29	28	28	29	29	29	25	25	24	23	24	24	25	24	13	13	14	12	10	747
ALNEY	1	1	1	1	2	2	2	2	2	2	2	3	2	1	2	2	2	2	2	1	2	2	1	2	2	2	1	1	1	1	1	70
ENTERPRISE	100	101	100	101	100	100	102	101	103	102	104	103	103	103	102	101	102	130	129	128	127	127	129	125	129	129	128	32	0	0	0	3026
BELL	3	3	3	3	3	2	3	2	3	3	3	3	3	3	4	4	3	4	4	4	4	1	1	1	1	1	1	1	2	4	81	
FALL RIVER	336	352	350	350	330	343	328	328	320	317	326	294	296	298	298	292	246	244	240	240	240	240	240	226	224	224	224	222	222	230	220	8670
MABLE	6	3	3	3	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	2	3	4	5	121
CHESTER	80	76	77	77	73	23	33	12	23	69	69	70	73	73	6	10	78	77	35	35	34	33	33	34	33	32	32	31	32	37	30	2279
SILKEY	23	22	23	22	21	20	23	22	22	21	20	20	20	22	23	23	10	14	12	12	11	3	3	3	3	3	3	3	3	3	3	427
CURA	24	23	23	20	26	21	24	23	35	30	35	28	29	30	30	29	3	29	34	30	30	28	29	29	31	31	30	30	21	21	22	853
WHITE	1	1	1	1	0	0	0	0	0	0	2	2	2	2	1	1	1	3	3	3	3	2	2	2	2	2	2	2	2	2	2	52
TOTAL DIV SQUIR TO CHESTER	589	615	620	611	590	599	591	577	580	581	596	557	561	568	571	561	507	533	488	485	488	446	447	451	451	441	437	359	299	311	314	15852

Henrys Fork Canals

	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	TOTAL
DEWEY	23	23	22	22	22	21	21	22	21	21	20	20	20	21	21	20	21	20	22	21	22	22	22	21	20	21	21	20	20	21	21	654
LAST CHANCE	36	41	42	41	36	36	36	40	39	41	41	40	40	47	47	46	48	47	48	48	48	48	48	47	46	46	44	44	43	43	35	1367
STANTHONY UNION	218	245	330	404	339	455	452	429	426	79	365	339	407	40	43	37	32	243	276	273	274	279	284	282	287	276	274	273	272	279	280	10,202
FARMERS FRIEND	67	64	60	60	64	50	38	65	62	65	64	64	40	46	43	30	10	18	12	12	12	10	10	10	10	6	6	6	49	53	36	1214
TWIN GROVES	107	108	104	108	108	107	104	123	119	122	126	124	103	107	110	55	50	49	95	91	88	94	92	90	74	75	72	72	75	72	49	2864
SALEM UNION	177	181	150	153	92	156	133	133	162	169	167	164	158	160	166	75	60	67	91	82	85	82	84	82	79	80	81	84	84	131	132	3774
TOTAL DIV ASHTON TO STANTH	640	711	708	742	679	831	824	832	831	809	804	780	774	796	782	550	440	479	531	530	534	540	537	533	505	500	497	477	551	619	590	20092
FOIN	190	170	190	192	233	241	240	233	240	242	272	270	181	184	179	175	216	219	231	243	250	242	247	104	200	200	195	200	200	202	200	6,232
ST ANTHONY UNION FEEDER	0	0	50	52	70	71	65	78	76	76	51	51	33	36	41	39	54	52	63	65	65	64	64	43	42	42	41	44	42	42	41	1559
INDEPENDENT	214	238	232	230	238	214	240	216	240	250	250	240	254	212	214	187	191	208	193	193	206	204	228	187	18	187	182	189	178	178	44	6,110
CONSOLIDATED FARMERS	235	236	234	232	228	223	220	216	212	214	216	216	218	229	226	200	200	148	139	137	137	137	137	137	137	137	137	137	139	141	56	5693
TOTAL DIV STANTH TO REXBURG	699	644	706	706	769	788	803	781	778	782	789	777	706	661	651	621	661	627	636	638	658	650	676	553	586	567	555	570	557	559	526	20692

Teton River Canals

	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	TOTAL
SIDEOWAY	17	17	17	17	0	0	0	16	16	15	20	20	21	22	17	16	16	14	13	12	12	16	14	15	15	13	13	15	15	8	8	443
WILFORD	126	123	124	122	122	119	119	117	118	116	118	118	120	122	80	68	65	64	37	37	37	59	46	61	60	67	64	65	62	53	52	2948
TETON IRRIGATION	68	62	65	65	71	66	38	11	32	60	74	69	68	58	64	64	65	53	30	32	32	52	50	54	52	50	50	50	48	53	52	1757
GOOD LUCK	28	29	30	29	28	27	26	25	19	28	23	23	27	27	28	31	29	14	12	11	11	10	10	10	8	13	13	12	11	12	12	636
PIONEER	19	18	19	17	20	21	21	21	22	23	23	23	23	26	26	26	26	24	24	24	24	23	21	24	23	22	21	20	18	17	16	677
STEWART	31	29	26	24	23	22	20	17	14	19	21	20	21	22	24	24	23	21	20	20	20	29	22	22	24	22	23	25	12	12	8	791
PHCOCK AYINGTON	2	11	11	11	11	10	10	10	10	10	5	4	5	5	6	6	5	5	5	5	5	5	5	4	4	4	2	2	3	3	3	337
PHCOCK GARNER	5	8	8	7	8	6	6	21	21	21	21	20	20	20	22	26	25	22	22	22	22	21	21	19	22	20	20	17	17	16	16	1242
TETON ISLAND FEEDER	264	256	252	244	236	235	230	217	214	214	211	211	280	244	270	236	208	244	241	241	240	244	227	253	233	219	198	191	186	186	186	7242
NORTH SALEM	11	11	11	11	10	13	17	20	21	21	21	21	21	22	21	17	18	16	15	14	13	12	12	11	10	9	9	9	8	8	8	433
ROXANA	19	17	17	15	14	13	12	13	14	11	11	10	14	6	4	4	4	4	8	9	10	9	9	9	9	8	9	9	9	8	8	313
ISLAND WARD	52	50	37	10	9	8	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	8	7	6	6	6	0	242
WOODMANSEE UNION	33	32	32	30	28	28	43	41	40	39	39	39	42	44	44	43	43	42	42	44	41	40	42	38	40	37	40	39	38	38	38	1388
CITY OF REXBURG	51	50	50	49	49	49	51	50	50	49	50	42	51	49	50	51	46	38	43	43	43	44	43	43	43	46	44	41	41	40	41	1446
REXBURG IRRIGATION	179	172	180	181	178	182	178	179	179	180	169	162	169	186	196	186	183	185	184	185	185	141	143	183	146	143	146	141	141	140	141	2361
TOTAL DIVERSIONS	925	895	867	846	805	863	860	760	706	786	799	740	806	864	826	722	685	714	698	699	705	709	734	730	700	677	660	670	666	658	641	23615

DAILY DISCHARGE IN SECOND FEET OF CANALS DIVERTING FROM HENRYS FORK AND TRIBUTARIES FOR SEPTEMBER

FALL RIVER CANALS

	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	TOTAL
YELLOWSTONE	20	18	16	15	13	11	11	11	11	11	12	12	12	12	12	12	12	12	11	11	11	11	10	10	10	10	10	10	10	9	336
HARRINGTON	14	14	13	12	12	11	11	11	11	11	12	12	12	12	12	12	11	11	11	10	10	10	9	9	9	9	10	10	10	10	329
MARYSVILLE	44	41	39	37	34	32	31	31	31	31	30	30	30	30	29	28	28	28	28	28	28	27	26	26	26	26	25	25	25	24	878
TOTAL DIV ABOVE SQUIRREL	78	73	68	64	59	54	53	53	53	53	54	54	54	54	53	51	51	51	49	49	49	47	45	45	45	46	45	45	45	43	1501
FARMERS OWN	9	9	9	9	9	8	8	8	8	8	7	7	7	7	7	6	9	10	12	13	14	15	14	13	12	11	10	9	8	8	230
ALROY	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
ENTERPRISE	75	90	91	92	94	95	96	99	102	106	110	113	117	116	118	119	118	116	116	116	117	117	116	116	117	118	119	120	121	122	123	3295
BELL	3	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	23
FALL RIVER	225	222	221	220	220	219	216	216	214	190	167	144	120	119	118	117	117	117	117	117	117	117	117	117	100	81	66	47	32	15	4231
McBEE	4	4	4	4	3	3	3	3	3	3	2	2	2	2	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3	90
CHESTER	37	36	35	34	34	33	32	32	32	32	32	31	31	31	31	30	30	30	29	29	29	29	30	32	33	35	36	36	38	39	973
SILKEY	3	3	3	3	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	77
CUAR	20	18	17	17	17	16	16	16	15	15	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	15	15	15	455
WHITE	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31
TOTAL DIV SQUAR TO CHESTER	378	385	385	380	369	378	377	379	378	358	331	317	296	296	292	285	284	286	290	297	290	299	296	297	280	267	254	230	223	209	9417

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HENRYS FORK CANALS

	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	TOTAL
DEWEY	19	17	15	12	10	8	6	5	5	5	5	4	3	3	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	133
LAST CHANCE	53	53	53	53	53	53	52	47	42	38	33	28	23	24	26	27	28	29	31	32	32	31	31	33	34	36	37	39	40	42	1063
STANTHONY UNION	240	232	240	239	231	236	232	230	198	202	206	210	214	202	190	178	179	180	180	181	196	210	210	210	198	186	174	163	151	139	6063
FARMERS FRIEND	47	38	28	19	10	11	11	11	11	11	11	11	12	11	9	8	8	8	8	9	9	9	10	10	10	10	10	10	10	10	330
TWIN GROVES	39	41	42	44	45	44	44	44	44	43	43	43	42	42	41	41	41	42	42	42	42	42	43	44	44	45	46	47	48	49	1299
SALEM UNION	129	126	123	120	117	114	110	107	104	101	98	94	91	87	82	78	76	76	77	78	79	80	81	82	83	84	84	83	84	85	2817
TOTAL DIV ASHTON TO ST ANTH	347	307	301	487	472	466	455	444	404	400	396	391	386	371	356	341	342	344	346	348	360	362	363	368	379	370	361	351	345	337	11930
EGIN	182	169	146	145	144	144	144	143	143	129	114	100	98	95	92	90	90	89	89	89	90	89	89	89	89	89	89	90	92	94	3328
ST ANTHONY UNION FEEDER	42	44	45	57	69	63	57	51	46	45	44	44	44	44	44	44	41	39	36	36	36	35	35	36	37	37	36	37	40	41	1098
INDEPENDENT	138	132	126	135	144	142	140	138	136	136	135	135	129	123	117	111	111	110	110	110	110	110	109	108	108	107	106	108	110	110	3644
CONSOLIDATED FARMERS	141	141	139	139	138	137	137	135	132	131	131	132	135	134	131	130	131	131	132	132	132	131	131	131	130	130	130	128	128	128	3968
TOTAL DIV ST ANTH TO REXBURG	503	481	456	476	495	486	478	467	456	441	424	411	406	396	384	375	373	369	367	367	367	366	364	364	365	364	364	364	365	369	12346

TETON RIVER CANALS

	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	TOTAL
SIDDOWAY	16	15	15	14	13	12	12	11	10	10	10	10	9	9	7	7	7	7	7	6	6	6	6	6	6	6	6	7	7	8	270
WILFORD	100	93	86	79	71	64	60	60	59	57	61	65	61	63	61	62	61	60	59	60	60	60	61	61	62	63	64	65	66	67	2377
TETON IRRIGATION	51	50	48	47	46	45	43	42	39	37	34	31	29	26	25	24	23	22	21	20	20	20	20	21	21	21	22	23	24	25	796
GOOD LUCK	12	12	12	12	12	12	12	12	11	11	12	12	13	12	10	9	8	6	5	5	5	5	5	4	4	4	5	6	6	7	330
PIONEER	16	15	15	16	17	18	18	18	18	18	20	22	20	18	16	14	11	9	7	5	5	5	5	4	4	4	5	6	8	10	330
STEWART	16	16	16	18	19	19	19	18	18	18	20	21	19	16	14	11	9	7	6	4	4	4	4	3	3	3	3	4	4	4	102
PINCOCK PYINGTON	3	3	3	3	3	3	3	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	446
PINCOCK GARNER	16	16	16	16	16	16	16	16	16	17	17	18	18	18	19	18	16	15	14	12	11	12	12	12	12	12	12	12	12	13	5465
TETON ISLAND FEEDER	188	191	192	194	195	197	198	200	201	199	198	199	199	155	144	132	139	147	159	161	167	176	179	181	194	196	199	191	194	196	199	5340
NORTH SALEM	4	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	64
ROXANA	7	6	6	5	5	5	4	4	4	4	4	4	4	5	5	5	4	4	4	3	3	2	2	3	3	4	4	5	5	6	131
ISLAND WARD	2	4	6	8	8	8	8	7	9	9	9	9	10	10	10	10	10	10	10	9	9	9	10	10	10	11	11	11	12	12	294
WOODMANSEE JOHNSON	24	24	23	23	23	23	23	26	26	26	29	26	26	26	23	23	23	23	23	24	24	24	24	24	24	24	24	24	24	24	586
CITY OF REXBURG	39	39	40	40	40	41	41	41	42	43	44	46	47	48	49	48	48	47	47	47	46	47	47	48	48	48	49	49	50	51	1207
REXBURG IRRIGATION	179	177	175	173	174	174	171	170	170	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	171	5130
TOTAL DIVERSIONS	655	625	610	612	606	601	596	597	595	592	592	579	561	543	523	523	520	516	519	514	519	530	528	526	529	532	539	530	550	572	16,000

The time interval basis used therein for the presentation of river records is as follows:

Time from Henrys Lake in hours	Gaging Station	Period used for comparable daily means
0	Henrys Lake Outlet near Lake	Day ending at 2 p.m.
40	Henrys Fork at Warm River	Day ending at 6 a.m. 2nd day following
50	Henrys Fork near Ashton	Day ending at 4 p.m. 2nd day following
	Fall River near Squirrel	*Day ending at 10 a.m. 2nd day following
	Fall River near Chester	Day ending at 5 p.m. 2nd day following
54	Henrys Fork at St. Anthony	Day ending at 8 p.m. 2nd day following
	Teton River near St. Anthony	Day ending at 6 p.m. 2nd day following
66	Henrys Fork near Rexburg	Day ending at 8 a.m. 3rd day following

This schedule is so arranged as to make the river records correspond as regards time with those on Plates VII and VIII. The dates indicated on the tables are for the nearest midnight to midnight or calendar days.

Water was passing the lowest diversion dams on both Henrys Fork and Teton River at all times during the season and in consequence no attempt was made to estimate or measure the flow at these points.

Fall River water delivered to the Enterprise Irrigation District as a substitute for equivalent Jackson Lake storage which was released for the use of Snake River normal flow users, is shown in these tabulations as stored water. No other storage deliveries were made to canals in this area during the entire season.

*Approximate means used. No recording gage records available.

1927 DISTRIBUTION WATER DISTRICT NO.36

DAILY SUMMARY OF DATA AT AND BETWEEN GAGING STATIONS ON HENRY

Henrys Lake Reservoir and Henrys Fork – Lake

1927 DATE	HENRYS LAKE RESERVOIR GAGE	HENRYS LAKE RESERVOIR CAPAC. AC. FT.	LAKE GAGE	LAKE DISCH.
JUN 1	26.75	30818	0.71	19
2	26.76	30871	0.71	19
3	26.83	31246	0.73	20
4	26.85	31352	0.77	22
5	26.92	31727	0.77	22
6	26.95	31888	0.79	23
7	27.02	32265	0.82	25
8	27.10	32703	0.83	26
9	27.15	32976	0.84	27
10	27.20	33251	0.95	35
11	27.35	34072	1.03	41
12	27.35	34072	0.92	33
13	27.52	35004	0.86	28
14	27.64	35661	0.84	27
15	27.76	36316	0.84	27
16	27.83	36702	0.84	27
17	27.95	37359	0.84	26
18	28.05	37913	0.85	27
19	28.18	38642	0.85	27
20	28.30	39315	0.88	29
21	28.37	39707	0.88	29
22	28.47	40267	0.88	29
23	28.55	40716	0.88	28
24	28.65	41276	0.89	29
25	28.80	42117	0.88	28
26	28.85	42397	0.88	28
27	28.92	42790	0.90	30
28	29.01	43296	0.91	30
29	29.07	43640	0.91	30
30	29.15	44098	0.91	30
JUL 1	29.32	45072	0.92	30
2	29.41	45588	0.93	31
3	29.50	46104	0.93	30
4	29.50	46104	0.94	31
5	29.53	46276	0.95	32
6	29.55	46390	0.95	32
7	29.57	46506	0.94	31
8	29.60	46677	0.95	32
9	29.70	47250	0.96	32
10	29.75	47537	0.95	31
11	29.77	47652	0.95	31
12	29.85	48110	0.96	32
13	29.84	48053	0.96	32
14	29.86	48168	0.97	32
15	29.87	48225	0.99	33
16	29.90	48397	0.98	33
17	29.90	48397	0.98	33
18	29.90	48397	0.98	33
19	29.92	48511	1.00	33
20	29.92	48511	1.00	33
21	29.92	48511	1.01	34
22	29.92	48511	1.02	36
23	29.92	48511	1.04	37
24	29.92	48511	1.06	38
25	29.92	48511	1.06	37
26	29.92	48511	1.06	37
27	29.92	48511	1.06	37
28	29.92	48511	1.04	36
29	29.95	48684	1.08	38
30				37
31				37

Henrys Fork – Warm River

DATE	GAGE	DISCH.
MAY 31	5.70	1990
JUN 1	5.63	1940
2	5.62	1930
3	5.64	1940
4	5.68	1980
5	5.74	2020
6	5.83	2100
7	6.02	2250
8	6.14	2350
9	6.20	2400
10	6.16	2370
11	6.13	2340
12	6.15	2360
13	6.16	2370
14	6.18	2380
15	6.15	2360
16	6.14	2350
17	6.07	2290
18	5.95	2190
19	5.88	2130
20	5.86	2110
21	5.81	2070
22	5.70	1970
23	5.63	1900
24	5.61	1890
25	5.58	1860
26	5.57	1850
27	5.55	1820
28	5.44	1740
29	5.31	1630
30	5.24	1580
JUL 1	5.17	1510
2	5.10	1450
3	5.06	1420
4	5.03	1390
5	4.99	1360
6	4.96	1330
7	4.93	1310
8	4.92	1290
9	4.88	1260
10	4.86	1240
11	4.86	1240
12	4.80	1190
13	4.79	1180
14	4.79	1180
15	4.78	1170
16	4.76	1150
17	4.76	1150
18	4.74	1140
19	4.74	1140
20	4.73	1130
21	4.73	1130
22	4.72	1130
23	4.69	1110
24	4.68	1100
25	4.68	1100
26	4.72	1130
27	4.74	1140
28	4.72	1130
29	4.72	1130
30	4.73	1130
31	4.73	1130
AUG 1	4.71	1120

Henrys Fork – Ashton

DATE	GAGE	DISCH
JUN 1	1.81	3040
2	1.81	3040
3	1.78	2980
4	1.78	2980
5	1.84	3100
6	1.88	3170
7	1.99	3420
8	2.09	3640
9	2.05	3550
10	2.07	3590
11	2.07	3590
12	2.03	3510
13	2.08	3620
14	2.10	3660
15	2.09	3640
16	1.97	3380
17	1.99	3420
18	1.98	3400
19	1.89	3210
20	1.78	2980
21	1.81	3040
22	1.80	3020
23	1.69	2790
24	1.68	2770
25	1.60	2610
26	1.54	2490
27	1.59	2590
28	1.59	2590
29	1.52	2450
30	1.45	2320
JUL 1	1.37	2160
2	1.34	2110
3	1.25	1940
4	1.27	1980
5	1.29	2010
6	1.23	1900
7	1.20	1850
8	1.18	1820
9	1.18	1820
10	1.13	1730
11	1.12	1710
12	1.12	1710
13	1.10	1680
14	1.10	1660
15	1.10	1640
16	1.07	1630
17	1.07	1630
18	1.06	1610
19	1.03	1560
20	1.00	1510
21	1.00	1510
22	1.01	1530
23	1.04	1580
24	1.05	1600
25	1.05	1580
26	1.03	1560
27	1.03	1560
28	1.03	1560
29	1.05	1590
30	1.06	1600
31	1.06	1600
AUG 1	1.04	1560
2	1.04	1540

Fall River – Squirrel

SQUIRREL DATE	GAGE	DISCH	CANALS ABOVE STATION	SQUIR + CANALS ABOVE
MAY 31	3.24	1640	1	1641
JUN 1	3.20	1590	0	1590
2	3.18	1560	0	1560
3	3.30	1720	36	1756
4	3.45	1910	49	1959
5	3.65	2050	38	2088
6	3.70	2260	39	2299
7	4.10	2840	41	2881
8	4.32	3160	64	3224
9	4.25	3060	61	3121
10	4.30	3140	61	3201
11	4.55	3510	64	3574
12	4.70	3750	66	3816
13	4.65	3670	88	3758
14	5.00	4230	94	4324
15	4.89	4080	117	4167
16	4.90	4070	123	4193
17	4.90	4070	134	4204
18	4.85	3990	119	4109
19	5.05	4310	135	4445
20	5.10	4390	147	4537
21	5.00	4230	148	4378
22	5.00	4230	168	4398
23	5.10	4390	170	4560
24	5.30	4710	189	4899
25	5.82	5650	200	5850
26	5.85	5760	195	5955
27	6.25	6440	179	6619
28	5.90	5840	164	6004
29	5.30	4820	198	5018
30	4.90	4180	184	4364
JUL 1	4.60	3700	192	3892
2	4.60	3700	202	3902
3	4.55	3620	204	3824
4	4.60	3700	160	3860
5	4.55	3620	166	[illegible]
6	4.25	3160	199	3359
7	4.20	3090	198	3288
8	4.35	3320	205	3525
9	4.24	3150	209	3358
10	4.50	3540	219	3759
11	4.20	3090	203	3293
12	4.15	3020	204	3224
13	3.90	2640	191	2831
14	4.00	2790	0	2790
15	3.70	2360	185	2545
16	3.55	2150	106	2256
17	3.40	1940	164	2104
18	3.50	2080	157	2237
19	3.44	2000	182	2182
20	3.40	1940	174	2114
21	3.20	1680	193	1873
22	3.05	1490	191	1681
23	2.95	1370	192	1562
24	2.85	1260	195	1455
25	2.80	1200	192	1392
26	2.75	1140	198	1338
27	2.65	1070	192	1262
28	2.65	1070	193	1263
29	2.65	1070	197	1267
30	2.64	1030	195	1225
31	2.60	990	195	1185
AUG 1	2.62	1010	185	1195

Fall River – Diversions, Chester

DIVERSIONS DATE	STORED	NORMAL	THEO. BAL. AT CHESTER	CHESTER GAGE	CHESTER DISCH.	GAIN ABOVE CHESTER	ASHTON + CHESTER
JUN 1		365	1276	3.83	1770	494	4810
2		401	1189	3.79	1720	531	4760
3		426	1134	3.88	1830	696	4810
4		446	1310	4.01	2000	690	4980
5		441	1618	4.14	2180	562	5280
6		473	1615	4.25	2330	715	5500
7		477	1822	4.47	2640	818	6060
8		476	2403	4.74	3050	647	6690
9		421	2803	4.91	3330	527	6880
10		648	2473	4.85	3230	757	6820
11		708	2493	4.90	3310	817	6900
12		688	2886	5.04	3610	724	7120
13		714	3102	5.15	3720	618	7340
14		816	2942	5.22	3540	598	7500
15		857	3467	5.37	4010	543	7650
16		884	3245	5.25	3850	614	7180
17		902	3291	5.26	3910	619	7330
18		903	3301	5.20	3810	509	7210
19		931	3178	5.28	3950	772	7160
20		944	3501	5.27	3930	429	6910
21		954	3583	5.20	3810	227	6850
22		956	3392	5.16	3740	348	[illegible]
23		1030	3368	5.17	3760	392	6550
24		1085	3475	5.36	4080	605	6850
25		1066	3833	5.70	4690	857	7300
26		1071	4779	5.85	4960	181	7450
27		1017	4938	6.14	5510	572	8100
28		984	5715	6.13	5490	- 225	8080
29		1016	4186	5.60	4510	- 476	6760
30		647	4371	5.18	3780	- 591	6100
JUL 1		789	3375	4.94	3370	- 5	5530
2		1013	2879	4.59	2820	- 59	4930
3		1000	2902	4.62	2870	- 32	4810
4		972	2850	4.72	3020	170	5000
5		778	2884	4.63	2880	- 4	4890
6		780	2826	4.54	2460	- 366	4360
7		959	2400	4.57	2500	100	4350
8		933	2335	4.28	2370	35	4190
9		964	2559	4.26	2340	- 219	4160
10		1036	2322	4.60	2840	518	4570
11		974	2781	4.40	2540	- 241	4250
12		953	2310	4.16	2230	- 110	3910
13		925	2276	4.00	1990	- 286	[illegible]
14		925	2056	4.01	2000	- 53	[illegible]
15		934	1856	3.82	1760	- 96	[illegible]
16		851	1639	3.68	1590	- 99	3220
17		810	1369	3.48	1360	- 26	[illegible]
18		853	1331	3.44	1350	59	[illegible]
19		900	1377	3.42	1290	- 53	[illegible]
20		854	1328	3.34	1210	- 118	[illegible]
21		972	1542	3.17	1040	- 203	[illegible]
22		912	961	2.94	920	- 41	[illegible]
23		912	763	2.85	742	- 271	[illegible]
24		866	624	2.74	603	- 41	[illegible]
25		811	644	2.63	614	- 30	[illegible]
26		824	566	2.65	594	16	[illegible]
27		861	477	2.54	506	29	[illegible]
28		851	535	2.38	402	9	[illegible]
29		724	429	2.38	402	- 67	[illegible]
30		755	311	2.36	319	8	[illegible]
31		745	480	2.54	479	19	[illegible]
AUG 1	60	714	411	2.49	465	34	[illegible]
2	101	687	455	2.46	440	35	[illegible]

DATA AT AND BETWEEN GAGING STATIONS ON HENRY'S FORK AND TRIBUTARIES

PLATE NO. XXIV

FALL RIVER – SQUIRREL Date	SQUIRREL Gage	SQUIRREL Disch	Canals Above Station	Squir. + Canals Above	DIVERSIONS Date	DIVERSIONS Stored	DIVERSIONS Normal	Theo. Bal. at Chester	CHESTER Gage	CHESTER Disch.	Gain Above Chester	HENRYS FORK – Ashton + Chester	Divers. Above St. Anth.	Theo. Bal. at St. Anth.	ST. ANTHONY Gage	ST. ANTHONY Disch.	Gain Ashton St. Anth.	Divers. Below St. Anth.	Theo. Bal. Below	TETON RIVER – ST. ANTHONY Gage	ST. ANTHONY Disch.	ST. ANTHONY Divers.	Theo. Bal. Below	Theo. Bal. Hen. Fork St. Anth. + Teton R.	Henrys Fork Near Rexbg.	Gain Below St. Anthony
MAY 31	3.24	1640	1	1641	JUN 1		365	1276	3.83	1770	494	4810	796	4014	4.97	4100	86	816	3284	2.17	1520	661	859	4143	4760	617
JUN 1	3.20	1590	0	1590	2		401	1189	3.79	1720	531	4760	878	3882	4.92	3980	98	854	3126	2.10	1470	676	794	3920	4620	700
2	3.18	1560	0	1560	3		426	1134	3.88	1830	696	4810	900	3910	4.95	4060	150	867	3193	2.22	1550	701	849	4042	4730	688
3	3.30	1720	36	1756	4		446	1310	4.01	2000	690	4980	896	4084	5.02	4230	146	862	3368	2.55	1790	751	1039	4407	5200	793
4	3.45	1910	49	1959	5		441	1518	4.14	2180	662	5280	866	4414	5.00	4180	-234	739	3441	3.06	2170	799	1371	4812	5770	958
5	3.55	2030	38	2068	6		473	1615	4.25	2330	715	5520	861	4659	4.99	4160	-499	751	3409	3.35	2400	794	1606	5015	6270	1255
6	3.70	2260	39	2299	7		477	1822	4.47	2640	818	6060	867	5193	5.32	5000	-193	804	4196	3.65	2640	993	1647	5843	6830	987
7	4.10	2840	41	2881	8		478	2403	4.74	3050	647	6690	864	5826	5.61	5790	-36	812	4978	4.26	3130	850	2280	7258	7400	142
8	4.32	3160	64	3224	9		421	2803	4.91	3330	527	6880	937	5943	5.66	5930	-13	719	5211	4.85	3600	963	2637	7848	7890	42
9	4.25	3060	61	3121	10		648	2473	4.85	3230	757	6820	1018	5802	5.69	6010	208	703	5307	4.87	3590	889	2701	8008	8110	102
10	4.30	3140	61	3201	11		708	2493	4.90	3310	817	6900	1028	5872	5.77	6240	368	767	5473	5.02	3680	915	2765	8238	8280	42
11	4.55	3510	64	3574	12		688	2886	5.08	3610	724	7120	1018	6102	5.81	6350	248	796	5554	5.29	3890	1007	2883	8437	8440	3
12	4.70	3750	66	3816	13		714	3102	5.15	3720	618	7340	1107	6233	5.88	6540	307	841	5699	5.36	3920	1040	2880	8579	8670	91
13	4.65	3670	88	3758	14		816	2942	5.22	3840	898	7500	1116	6384	5.94	6720	336	852	5868	5.44	3960	1109	2851	8719	8850	131
14	5.00	4230	94	4324	15		857	3467	5.32	4010	543	7650	1130	6520	5.94	6720	200	879	5841	5.57	4080	1022	3058	8899	9080	181
15	4.89	4050	117	4167	16		884	3283	5.25	3900	617	7280	1103	6177	5.89	6570	393	870	5700	5.46	3980	1096	2884	8584	8860	276
16	4.90	4070	123	4193	17		902	3291	5.26	3910	619	7330	1087	6243	5.91	6630	387	875	5755	5.35	3880	1175	2705	8460	8660	200
17	4.90	4070	134	4204	18		903	3301	5.20	3810	509	7210	1101	6109	5.80	6320	211	858	5462	5.22	3770	1194	2576	8038	8420	382
18	4.85	3990	119	4109	19		931	3178	5.28	3950	772	7160	1136	6024	5.75	6180	156	853	5327	5.14	3700	1171	2529	7856	8150	294
19	5.05	4310	135	4445	20		944	3501	5.27	3930	429	6910	1160	5750	5.74	6150	400	849	5301	5.21	3760	1210	2550	7851	7930	79
20	5.10	4390	147	4537	21		954	3583	5.20	3810	227	6850	1109	5741	5.70	6040	299	894	5146	5.23	3780	1297	2483	7629	7780	151
21	5.00	4230	148	4378	22		986	3392	5.16	3740	348	6760	1111	5649	5.71	6070	421	908	5162	4.96	3550	1349	2201	7363	7520	157
22	5.00	4230	165	4398	23		1030	3368	5.17	3760	392	6550	1112	5438	5.62	5820	382	909	4911	4.78	3390	1401	1989	6900	7220	320
23	5.10	4390	170	4560	24		1085	3475	5.36	4080	605	6850	1118	5732	5.62	5820	88	934	4886	4.92	3550	1408	2142	7028	7000	-28
24	5.30	4710	189	4899	25		1066	3833	5.70	4690	857	7300	1153	6147	5.78	6260	113	943	5317	5.07	3700	1451	2249	7566	7460	-106
25	5.82	5650	200	5850	26		1071	4779	5.85	4960	181	7450	1184	6266	5.88	6540	274	954	5586	5.03	3700	1457	2243	7829	8010	181
26	5.85	5760	195	5955	27		1017	4938	6.14	5510	572	8100	1058	7042	6.16	7350	308	924	6426	5.26	3930	1418	2512	8938	8540	-398
27	6.25	6440	179	6619	28		904	5715	6.13	5490	-225	8080	974	7106	6.13	7270	164	846	6424	5.41	4100	1187	2913	9337	9140	-197
28	5.90	5840	164	6004	29		1018	4986	5.60	4510	-476	6960	806	6154	5.83	6400	246	833	5567	5.34	4080	1161	2919	8486	9440	954
29	5.30	4820	198	5018	30		647	4371	5.18	3780	-591	6100	845	5255	5.54	5600	345	789	4811	5.13	3920	1133	2787	7598	8450	852
30	4.90	4180	184	4364	JUL. 1		989	3375	4.94	3370	-5	5330	816	4714	5.26	4850	136	775	4075	4.79	3630	1075	2555	6630	7510	880
JUL 1	4.60	3700	192	3892	2		1013	2879	4.59	2820	-59	4930	800	4130	5.03	4260	130	759	3501	4.25	3170	987	2183	5684	6490	806
2	4.60	3700	202	3902	3		1000	2902	4.62	2870	-32	4810	803	4007	5.00	4160	153	754	3406	3.95	2920	964	1956	5362	6100	738
3	4.55	3620	204	3824	4		974	2850	4.72	3020	170	5000	776	4224	5.00	4160	-64	749	3411	4.05	3000	1003	1997	5408	5820	412
4	4.60	3700	160	3860	5		976	2884	4.63	2880	-4	4890	789	4101	4.96	4060	-41	780	3280	4.15	3090	1002	2088	5368	5690	322
5	4.55	3620	186	3806	6		980	2826	4.34	2460	-366	4360	769	3591	4.74	3500	-91	744	2756	3.95	2920	1148	1772	4528	5330	802
6	4.25	3160	199	3359	7		959	2400	4.37	2500	100	4350	882	3468	4.68	3360	-108	744	2616	3.58	2610	1051	1559	4175	4880	705
7	4.20	3090	198	3288	8		953	2335	4.28	2370	35	4190	844	3346	4.67	3340	-6	814	2526	3.46	2520	1086	1434	3960	4440	480
8	4.35	3320	205	3525	9		966	2559	4.26	2340	-219	4160	858	3302	4.67	3310	8	814	2496	3.53	2570	1099	1471	3967	4230	263
9	4.24	3150	208	3358	10		1036	2322	4.60	2840	518	4570	964	3606	4.66	3290	-316	822	2468	3.34	2420	998	1422	3890	4230	340
10	4.50	3540	219	3759	11		978	2781	4.40	2540	-241	4250	955	3295	4.62	3170	-125	845	2325	3.17	2280	958	1322	3647	4200	553
11	4.20	3090	203	3293	12		983	2310	4.16	2200	-110	3910	791	3119	4.60	3130	11	849	2281	2.97	2120	1013	1107	3388	4060	672
12	4.15	3020	204	3224	13		948	2276	4.00	1990	-286	3670	834	2836	4.48	2860	24	811	2049	2.76	1970	968	1002	3051	3790	739
13	3.90	2640	191	2831	14		745	2086	4.01	2000	-86	3680	870	2810	4.44	2750	-60	812	1938	2.35	1810	932	878	2816	3540	724
14	4.00	2790	0	2790	15		934	1856	3.82	1760	-96	3440	930	2510	4.33	2510	0	807	1703	2.42	1720	987	733	2436	3210	774
15	3.70	2360	185	2545	16		857	1688	3.68	1590	-98	3220	966	2254	4.17	2150	-104	871	1279	2.29	1620	989	631	1910	2810	900
16	3.55	2150	106	2256	17		870	1386	3.48	1360	-26	2990	1022	1968	4.04	1890	-78	814	1076	2.12	1500	908	592	1668	2460	792
17	3.40	1940	164	2104	18		853	1251	3.47	1350	99	2960	1063	1897	4.02	1850	-47	798	1052	2.05	1460	951	509	1561	2270	709
18	3.50	2080	157	2237	19		860	1377	3.42	1290	-87	2850	1054	1796	3.95	1700	-96	815	885	2.03	1440	1002	438	1323	1990	667
19	3.44	2000	182	2182	20		854	1328	3.34	1210	-118	2720	1111	1609	3.90	1610	1	859	751	2.01	1430	1007	423	1174	1800	626
20	3.40	1940	174	2114	21		872	1242	3.17	1040	-202	2550	1127	1423	3.74	1350	-73	865	485	1.94	1390	1024	366	851	1570	719
21	3.20	1680	193	1873	22		912	961	2.94	820	-141	2350	1066	1284	3.65	1200	-84	806	394	1.85	1330	1056	274	668	1380	712
22	3.05	1490	191	1681	23		912	769	2.85	742	-27	2322	1090	1232	3.62	1160	-72	828	332	1.82	1290	1129	161	493	1240	747
23	2.95	1370	192	1562	24		868	694	2.74	653	-41	2253	1079	1174	3.54	1050	-124	795	255	1.79	1260	1102	158	413	1220	807
24	2.85	1260	193	1455	25		811	644	2.69	614	-30	2194	1076	1118	3.52	1020	-98	785	235	1.77	1240	1004	236	471	1200	729
25	2.80	1200	192	1392	26		824	568	2.65	584	16	2184	1060	1124	3.55	1060	-64	853	207	1.73	1200	1013	187	394	1200	806
26	2.75	1140	198	1338	27		861	477	2.54	506	29	2066	1028	1038	3.51	1010	-28	852	158	1.74	1200	978	222	380	1130	750
27	2.68	1070	192	1262	28		869	393	2.38	402	9	1962	990	972	3.46	947	-25	799	148	1.69	1170	926	244	392	1110	718
28	[illegible]	1070	193	1263	29		794	469	2.38	402	-67	1982	886	1096	3.48	983	-112	797	186	1.64	1140	944	196	382	1120	738
29	[illegible]	1070	197	1267	30		756	511	2.56	519	8	2119	794	1325	3.56	1100	-225	670	430	1.64	1140	943	197	627	1310	683
30	[illegible]	1030	195	1225	31		745	480	2.54	479	19	2099	894	1205	3.56	1110	-95	678	432	1.60	1120	937	183	615	1500	885
31	[illegible]	990	195	1185	AUG. 1	60	714	411	2.49	465	54	2025	640	1385	3.66	1270	-115	699	571		1050	925	125	696	1550	854
AUG 1	2.62	1010	185	1195	2	101	685	405	2.46	440	35	1980	711	1269	3.66	1290	21	644	646	1.37	985	895	90	736	1520	784

1927 DISTRIBUTION WATER DISTRICT 36

DAILY SUMMARY OF DATA AT AND BETWEEN GAGING STATIONS ON HENRY'S FORK AND FALL RIVER

1927	HENRYS LAKE RESERVOIR		HENRYS FORK								FALL RIVER																		
			LAKE		WARM RIVER			ASHTON			SQUIRREL			CANALS ABOVE STATION	SQUIRT CANALS ABOVE	DIVERSIONS			THEO BALAT CHESTER	CHESTER		GAIN ABOVE CHESTER	ASHTON + CHESTER	DIVERS ABOVE STANITA	THEO BALAT STANITA	HE
DATE	GAGE	CAPAC. ACFT.	GAGE	DISCH.	DATE	GAGE	DISCH.	DATE	GAGE	DISCH.	DATE	GAGE	DISCH.			DATE	STORED	NORMAL		GAGE	DISCH.					
AUG 1				37	AUG 2	4.70	1110	AUG 3	1.05	1540	AUG 2	2.60	990	167	1157	AUG 3	100	688	369	2.41	402	33	1742	706	1224	
2				36	3	4.69	1110	4	1.05	1540	3	2.60	990	168	1158	4	101	687	370	2.36	384	14	1892	792	1332	
3				36	4	4.68	1100	5	1.05	1540	4	2.65	1040	170	1210	5	100	646	424	1.33	361	- 103	1901	779	1132	
4	30.05	49262	110	35	5	4.67	1090	6	1.04	1530	5	2.55	942	166	1108	6	100	636	352	2.31	353	- 19	1863	831	1032	
5	30.05	49262	110	34	7	4.69	1110	8	1.03	1510	6	2.62	914	167	1081	7	102	636	343	2.33	344	- 1	1884	824	1930	
6	30.05	49262	110	33	8	4.67	1090	9	0.99	1450	7	2.52	914	157	1071	8	101	631	339	2.31	328	- 11	1796	832	1826	
7	30.04	49321	111	33	9	4.66	1080	10	0.97	1430	8	2.50	895	155	1050	9	103	630	317	2.29	317	0	1747	831	1774	
10	30.04	49438	112	33	10	4.65	1080	11	1.02	1480	9	2.48	877	155	1030	10	102	634	324	2.26	301	- 7	1751	807	1752	
11	30.04	49438	112	33	11	4.63	1060	12	1.03	1490	10	2.47	868	155	1023	11	103	648	292	2.30	323	31	1901	802	1901	
12	30.04	49436	114	33	12	4.62	1060	13	1.04	1490	11	2.42	914	155	1069	12	103	633	317	2.32	344	27	1893	824	1901	
13	30.03	49438	115	33	13	4.63	1060	14	1.03	1480	12	2.38	877	141	1018	13	103	565	330	2.34	344	14	1844	774	1860	
14	30.03	49436	142	55	14	4.64	1070	15	1.00	1430	13	2.50	895	127	1022	14	103	520	329	2.40	372	43	1892	774	1860	
15	30.03	49438	171	84	15	4.68	1100	16	1.03	1480	14	2.50	895	125	1020	15	102	597	321	2.42	390	69	1920	772	1908	
16	30.03	49438	135	47	17	4.65	1080	18	1.02	1460	15	2.54	933	128	1061	16	101	575	385	2.47	420	35	1900	850	1980	
17	30.03	49438	135	46	18	4.63	1060	19	1.02	1460	16	2.50	895	115	1010	17		615	375	2.49	433	58	2013	920	1980	
18	30.03	49438	140	51	19	4.64	1070	20	1.05	1510	17	2.46	839	108	967	18		678	349	2.44	402	73	1862	879	1980	
19	30.03	49438	157	66	20	4.67	1090	21	1.04	1490	18	2.44	841	105	946	19		584	362	2.45	408	46	1868	931	1980	
20	30.03	49438	162	70	21	4.67	1080	22	0.98	1400	19	2.42	823	96	919	20		578	341	2.44	402	61	1912	926	1980	
21	30.03	49438	164	71	22	4.66	1080	23	1.03	1480	20	2.42	823	95	918	21		584	334	2.44	402	68	1892	934	1980	
22	30.10	49555	164	70	23	4.65	1060	24	1.05	1510	21	2.42	823	96	919	22		593	366	2.43	396	30	1895	940	1980	
23	30.09	49436	179	86	24	4.65	1060	25	1.04	1490	22	2.40	805	87	892	23		558	334	2.41	384	50	1864	937	1954	
24	30.10	49555	180	86	25	4.65	1060	26	1.01	1450	23	2.39	796	91	887	24		545	342	2.40	378	37	1881	935	1954	
25	30.10	49555	182	87	26	4.64	1050	27	0.98	1400	24	2.40	805	92	897	25		541	356	2.40	378	23	1869	905	1900	
26	30.09	49436	190	94	27	4.67	1070	28	0.99	1410	25	2.35	762	90	852	26	122	402	321	2.39	378	52	1823	900	1900	
27	29.97	49378	250	144	28	4.71	1090	29	1.02	1460	26	2.36	771	90	861	27	128	378	335	2.39	378	38	1773	897	1900	
28	29.97	48434	199	105	29	4.67	1060	30	1.08	1560	27	2.35	762	87	849	28	42	335	402	2.41	432	- 13	1723	861	1826	
29	29.90	48377	133	38	30	4.61	1020	31	1.04	1490	28	2.35	762	85	850	29		385	465	2.32	432	- 33	1977	937	1954	
30	29.92	48511	134	40	31	4.61	1020	SEPT. 1	0.99	1410	29	2.36	771	87	858	30		397	461	2.36	420	17	2038	819	1954	
31	29.90	48377	134	40	SEP. 1	4.63	1020	2	0.98	1400	30	2.35	762	86	848	31		397	451	2.70	577	126	2067	890	1978	
SEP. 1			147	43	2	4.66	1040	3	1.02	1460	31	2.47	868	83	951	SEP. 1		456	495	2.63	526	31	1936	947	1978	
2			138	44	3	4.62	1010	4	1.01	1450	SEPT. 1	2.45	850	78	928	2		458	470	2.56	548	8	1918	907	1978	
3			139	45	4	4.62	1010	5	1.03	1480	2	2.42	823	73	896	3		451	445	2.50	450	5	1900	901	1978	
4			140	46	5	4.63	1020	6	0.98	1400	3	2.38	788	68	856	4		446	410	2.46	414	4	1864	887	1978	
5			137	45	6	4.61	1000	7	1.00	1430	4	2.38	788	64	852	5		440	412	2.46	414	2	1824	872	1978	
6			107	23	7	4.58	983	8	0.97	1380	5	2.37	780	59	839	6		432	407	2.46	414	7	1814	866	1978	
7			107	24	8	4.58	983	9	0.97	1380	6	2.36	771	54	825	7		430	395	2.45	408	13	1858	855	1978	
8			111	25	9	4.60	1000	10	0.96	1370	7	2.36	771	53	824	8		431	393	2.45	408	15	1768	842	1978	
9			0.93	15	10	4.60	1010	11	1.00	1430	8	2.34	754	53	807	9		431	376	2.44	402	26	1782	804	1978	
10			0.92	15	11	4.59	1020	12	1.00	1430	9	2.34	754	53	807	10		411	396	2.51	384	- 12	1903	847	1978	
11			0.92	15	12	4.59	1020	13	0.99	1410	10	2.66	1050	53	1103	11		351	772	2.72	660	- 52	2090	1376	1978	
12			0.89	13	13	4.63	1040	14	0.97	1410	11	2.42	823	54	877	12		371	506	2.53	512	- 3	1949	1371	1978	
13			0.87	12	14	4.64	1040	15	1.01	1450	12	2.40	805	54	859	13		350	509	2.50	459	- 10	1967	1386	1978	
14			0.88	12	15	4.60	1040	16	1.01	1450	13	2.40	805	54	859	14		340	501	2.44	426	37	2013	1411	1978	
15			0.90	13	16	4.58	1030	17	1.00	1430	14	2.42	823	54	877	15		327	550	2.43	426	- 16	2056	1556	1978	
16			0.92	15	17	4.57	1020	18	0.97	1410	15	2.38	788	53	841	16		346	455	2.38	384	59	2004	1344	1978	
17			0.92	15	18	4.57	1020	19	0.95	1350	16	2.36	771	51	822	17		345	477	2.36	348	43	1970	1312	1978	
18			0.90	13	19	4.56	1020	20	0.95	1340	17	2.34	754	51	805	18		347	458	2.33	378	67	1929	1323	1978	
19			0.89	13	20	4.56	1020	21	0.94	1340	18	2.32	737	51	788	19		321	421	2.33	348	73	1869	1248	1978	
20			0.88	12	21	4.56	1020	22	0.93	1330	19	2.30	720	49	769	20		346	423	2.31	306	83	1836	1253	1978	
21			0.88	12	22	4.55	1010	23	1.00	1430	20	2.30	720	49	769	21		327	422	2.29	402	70	1852	1285	1978	
22			0.88	12	23	4.56	1020	24	1.01	1450	21	2.30	720	49	769	22		344	425	2.27	378	53	1818	1282	1978	
23			0.87	12	24	4.57	1020	25	0.98	1400	22	2.29	712	49	761	23		311	418	2.29	426	10	1838	1254	1978	
24			0.87	12	25	4.57	1020	26	0.97	1380	23	2.29	712	48	757	24		342	415	2.37	543	12	1871	1264	1978	
25			0.86	12	26	4.55	1010	27	0.98	1400	24	2.44	841	47	886	25		327	353	2.42	660	101	2110	1398	1978	
26			0.90	13	27	4.56	1020	28	1.00	1430	25	2.38	788	45	833	26		313	320	2.64	534	79	1993	1370	1978	
27			0.89	13	28	4.63	1060	29	1.01	1450	26	2.37	780	45	825	27		321	340	2.53	462	- 8	1942	1341	1978	
28			0.88	12	29	4.64	1070	30	1.00	1430	27	2.40	805	45	850	28		283	367	2.58	534	- 13	1954	1354	1978	
29			0.87	13	30	4.63	1060	OCT. 1	1.00	1430	28	2.40	805	45	850	29		268	381	2.75	684	- 102	2114	1375	1978	
30			0.89	13							29	2.44	841	43	886	30		250	036	2.78	1085	72	2158	1337	1978	
											30	2.40	805	43	848														

AT AND BETWEEN GAGING STATIONS ON HENRY'S FORK AND TRIBUTARIES.

PLATE NO. XXV

FALL RIVER: SQUIRREL GAGE	FALL RIVER: SQUIRREL DISCH	FALL RIVER: CANALS ABOVE STATION	FALL RIVER: SQUIRR. + CANALS ABOVE	DIVERSIONS: DATE	DIVERSIONS: STORED	DIVERSIONS: NORMAL	THEO BAL AT CHESTER	CHESTER: GAGE	CHESTER: DISCH.	GAIN ABOVE CHESTER	HENRYS FORK: ASHTON + CHESTER	HENRYS FORK: DIVERS. ABOVE ST. ANTH.	HENRYS FORK: THEO. BAL AT ST. ANTH.	HENRYS FORK: ST. ANTHONY GAGE	HENRYS FORK: ST. ANTHONY DISCH	HENRYS FORK: GAIN ASHTON ST. ANTH.	HENRYS FORK: DIVERS. BELOW ST. ANTH.	HENRYS FORK: THEO. BAL. BELOW	TETON RIVER: ST. ANTHONY GAGE	TETON RIVER: ST. ANTHONY DISCH.	TETON RIVER: ST. ANTHONY DIVERS	TETON RIVER: THEO. BAL. BELOW	THEO. BAL. HEN. FK. ST. ANTH. + TETON RIVER	HENRYS FORK NEAR REXBURG	GAIN BELOW ST. ANTHONY
260	990	167	1157	AUG. 3	100	688	369	2.41	402	33	1742	708	1234	3.57	1160	− 74	706	454	1.36	979	897	92	546	1420	874
260	990	168	1158	4	101	687	370	2.38	384	14	1824	792	1132	3.50	1060	− 72	706	354	1.30	944	842	102	456	1260	804
265	1040	170	1210	5	100	646	464	2.35	361	− 103	1901	779	1122	3.50	1060	− 62	789	271	1.26	922	805	117	368	1130	742
255	942	166	1108	6	100	656	352	2.31	333	− 19	1863	831	1032	3.49	1050	8	788	262	1.22	879	803	96	358	1020	662
252	914	167	1081	7	102	636	343	2.33	344	1	1854	824	1030	3.46	1020	− 10	803	217	1.20	888	780	108	325	971	646
252	914	157	1071	8	101	631	339	2.31	323	− 11	1778	832	946	3.44	996	50	785	211	1.18	877	760	117	328	968	640
250	895	155	1050	9	103	630	317	2.29	317	0	1747	831	916	3.44	996	80	776	220	1.17	871	786	85	305	940	635
248	877	155	1030	10	102	634	294	2.26	301	7	1731	809	922	3.46	1020	98	782	238	1.14	855	786	69	307	923	616
247	868	155	1023	11	103	648	272	2.30	323	51	1803	802	1001	3.50	1070	69	789	281	1.15	860	799	61	342	951	609
252	914	155	1069	12	103	595	371	2.32	333	− 38	1823	811	1012	3.49	1060	48	797	263	1.16	866	790	76	337	997	648
248	877	141	1018	13	103	585	330	2.34	344	14	1834	774	1060	3.53	1110	50	706	404	1.16	866	805	61	465	1070	605
250	895	127	1022	14	103	590	329	2.40	379	60	1859	796	1063	3.62	1240	177	661	579	1.26	922	864	58	437	1280	843
250	895	125	1020	15	102	597	321	2.42	390	69	1820	722	1098	3.65	1290	192	651	639	1.30	942	826	118	757	1500	743
254	933	128	1061	16	101	575	385	2.47	420	35	1900	550	1350	3.78	1490	140	621	869	1.30	944	822	122	991	1720	729
250	895	115	1010	17		615	395	2.49	433	38	2013	440	1573	3.87	1670	97	661	1007	1.22	899	785	114	1123	1860	737
246	859	108	967	18		638	329	2.44	402	73	1862	479	1383	3.77	1510	127	627	883	1.13	849	714	135	1018	1730	712
244	841	105	946	19		584	362	2.45	408	46	1868	531	1337	3.75	1480	143	626	854	1.11	838	698	140	994	1650	656
242	823	96	919	20		578	341	2.44	402	61	1912	528	1384	3.75	1480	96	638	842	1.10	828	699	129	971	1630	659
242	823	95	918	21		584	334	2.44	402	68	1892	534	1358	3.71	1410	52	658	752	1.13	844	705	139	891	1630	739
242	823	96	919	22		553	366	2.43	396	30	1796	540	1256	3.68	1360	104	650	710	1.10	828	709	119	829	1540	711
240	805	87	892	23		558	334	2.41	384	50	1864	537	1327	3.69	1380	53	676	704	1.07	811	734	77	781	1560	779
239	796	91	887	24		545	342	2.40	379	37	1889	535	1354	3.68	1360	6	553	807	1.09	817	738	79	886	1560	674
240	805	92	897	25		541	356	2.40	379	23	1869	505	1364	3.70	1400	36	566	834	1.07	806	700	106	940	1620	680
235	762	90	852	26	129	402	321	2.39	373	52	1823	500	1323	3.67	1350	27	567	783	1.03	785	677	108	891	1590	699
236	771	90	861	27	128	398	335	2.39	373	38	1773	497	1276	3.63	1290	14	555	735	0.98	753	668	85	820	1520	700
235	762	87	849	28	32	395	402	2.41	384	− 18	1794	497	1297	3.64	1300	3	570	730	0.96	743	670	73	803	1500	697
235	762	88	850	29		385	465	2.52	452	− 13	1912	551	1361	3.72	1430	69	557	873	0.97	717	666	51	924	1570	646
236	771	87	858	30		397	461	2.56	478	17	2038	619	1419	3.76	1470	71	559	731	0.90	711	638	73	1004	1640	636
235	762	86	848	31		397	451	2.70	577	126	2067	590	1477	3.81	1580	103	526	1054	0.90	711	641	70	1124	1750	626
247	868	83	951	SEP. 1		456	495	2.63	526	31	1936	547	1389	3.72	1430	41	503	927	0.86	691	633	58	985	1680	695
245	850	78	928	2		458	470	2.56	476	8	1878	507	1371	3.72	1430	59	481	949	0.88	701	625	76	1025	1680	655
242	823	73	896	3		451	445	2.50	440	5	1900	501	1399	3.73	1440	41	456	984	0.88	701	618	83	1067	1680	613
238	788	68	856	4		446	410	2.46	414	4	1864	487	1377	3.73	1440	63	476	964	0.85	686	612	74	1038	1650	612
238	788	64	852	5		440	412	2.46	414	2	1894	472	1422	3.77	1510	88	495	1015	0.84	681	606	75	1090	1680	590
237	780	59	839	6		432	407	2.46	414	7	1814	466	1348	3.73	1440	92	486	954	0.85	686	601	85	1039	1650	611
236	771	54	825	7		430	395	2.45	408	13	1838	455	1383	3.74	1460	77	478	982	0.84	681	598	83	1065	1610	545
236	771	53	824	8		431	393	2.45	408	15	1788	444	1344	3.74	1460	116	467	993	0.81	666	597	69	1060	1600	540
234	754	53	807	9		431	376	2.44	402	26	1782	404	1378	3.74	1460	82	456	1004	0.84	681	595	86	1090	1630	540
234	754	53	807	10		411	396	2.55	533	137	1903	400	1503	3.76	1490	− 13	441	1049	0.90	717	582	135	1184	1690	506
266	1050	53	1103	11		391	712	2.72	660	− 52	2090	396	1694	3.87	1670	− 4	424	1246	1.10	828	582	246	1512	1870	472
242	823	54	877	12		371	506	2.53	519	3	1949	391	1558	3.81	1580	22	411	1169	0.98	769	575	194	1363	1910	547
240	805	54	859	13		350	509	2.50	499	− 10	1909	386	1523	3.77	1510	− 13	406	1104	0.95	764	561	203	1207	1920	613
240	805	54	859	14		350	509	2.65	606	97	2016	371	1645	3.82	1600	− 45	396	1204	1.00	795	523	272	1551	1940	523
242	823	54	877	15		347	530	2.65	606	76	2056	356	1700	3.85	1650	− 50	384	1266	1.05	828	525	303	1569	2130	561
238	788	53	841	16		346	495	2.58	564	59	2004	344	1663	3.84	1630	− 33	376	1255	0.99	801	523	278	1533	2150	617
236	771	51	822	17		345	477	2.56	540	63	1970	342	1628	3.82	1600	− 28	373	1227	0.94	774	520	254	1481	2110	629
234	754	51	805	18		347	458	2.53	519	61	1929	344	1585	3.82	1600	15	369	1231	0.87	737	516	221	1452	2030	578
232	737	51	788	19		347	441	2.53	519	78	1869	348	1521	3.76	1490	− 31	367	1123	0.87	711	513	198	1321	1920	599
230	720	49	769	20		346	423	2.51	506	83	1866	353	1503	3.78	1530	27	367	1163	0.80	701	514	187	1350	1900	550
230	720	49	769	21		347	422	2.49	492	70	1832	368	1464	3.78	1530	66	366	1164	0.77	696	519	177	1341	1860	519
230	720	49	769	22		344	425	2.47	478	53	1818	382	1436	3.72	1430	− 6	364	1066	0.75	691	520	171	1237	1760	523
229	712	47	759	23		341	418	2.47	478	60	1828	383	1445	3.73	1440	− 5	364	1076	0.77	686	522	164	1240	1730	490
229	712	45	757	24		342	415	2.57	547	132	1977	388	1589	3.80	1560	− 29	365	1195	0.81	706	526	180	1375	1810	435
244	841	45	886	25		327	559	2.72	660	101	2110	379	1731	3.91	1760	29	364	1396	0.88	743	529	214	1610	1980	370
239	788	45	833	26		313	520	2.64	599	79	1999	370	1629	3.93	1800	171	364	1436	0.92	764	532	232	1668	2000	332
242	823	46	869	27		299	570	2.59	562	− 8	1942	361	1581	3.90	1740	159	364	1376	0.88	743	539	204	1580	2000	420
240	805	45	850	28		283	567	2.58	554	− 13	1954	354	1600	3.90	1740	140	363	1377	0.84	722	550	172	1549	2020	471
240	805	45	850	29		268	582	2.75	684	102	2114	345	1769	3.97	1870	101	368	1502	0.97	790	568	232	1734	2240	506
244	841	45	886	30		250	636	2.78	708	72	2158	337	1821	4.00	1930	109	373	1557	1.10	860	572	288	1845	2460	615
240	805	43	848																						

From the time regulation began until September 14 the entire normal stream flow should have been continuously allowed to pass the dam at the outlet of Henrys Lake. It will be noted, however, that about one thousand acre-feet of stored water was actually impounded during the latter part of July and the first three weeks of August but was released again prior to September 1. These irregularities were due to insufficient care and attention given to the adjustment of the reservoir outlet gates by the operator, Mr. McGinn. The resultant fluctuations in the normal flow were too small to be of any great importance in a year like 1927 but should nevertheless have been eliminated.

Plate XXVI contains hydrographs for the two gaging stations on Fall River and a graph showing indicated net gains or losses above the lower or Chester station. These are plotted to coincide with the dates at the upper station.

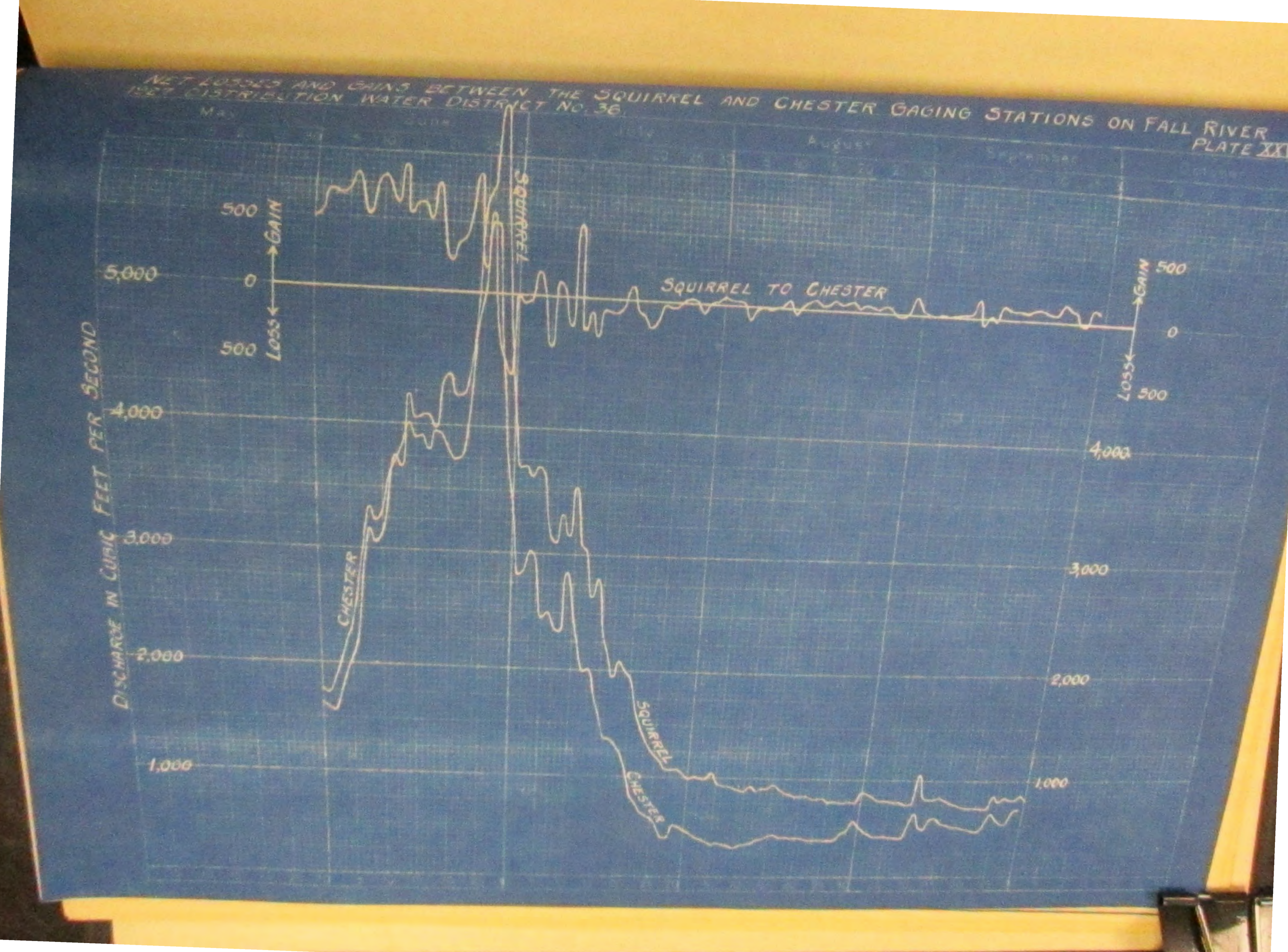
The heavy gains noted during June are probably due to the unmeasured tributary inflow (chiefly from Squirrel Creek) while the irregularities in the gain or loss curve are doubtless largely attributable to the inaccurate daily mean discharges computed for the Squirrel Station at which only staff gage readings were secured.

Hydrographs for the Ashton, St. Anthony and Rexburg gaging stations on Henrys Fork together with curves showing gains or losses in the intermediate sections are included on Plate XXVII. All are plotted to agree with the Rexburg dates.

Attention is directed to the fact that the gain or loss graphs are plotted to a different scale from that used for the hydrographs. Differences in the shape of the latter result from the

NET LOSSES AND GAINS BETWEEN THE SQUIRREL AND CHESTER GAGING STATIONS ON FALL RIVER
1921 DISTRIBUTION WATER DISTRICT No. 36.

PLATE XX



NET LOSSES AND GAINS BETWEEN THE ASHTON AND ST ANTHONY GAGING STATIONS ON HENRY'S FORK
1927 DISTRIBUTION WATER DISTRICT NO. 36

PLATE XXVII

May June July August September October

DISCHARGE IN CUBIC FEET PER SECOND

10,000
8,000
6,000
4,000
2,000

500 GAIN
0
500 LOSS

ASHTON TO ST. ANTHONY

500 GAIN
0
500 LOSS

REXBURG
ST. ANTHONY
ASHTON

ST. ANTHONY TO REXBURG

1,000 GAIN
500
0
500 LOSS

REXBURG
ST. ANTHONY
ASHTON

relatively large tributary contributions from Fall and Teton Rivers and from variations in the total amount of intervening canal diversions.

The small gain noted between St. Anthony and Roxburg during June may be attributed in part to ground water losses during this period, occasioned by overflow of adjacent lowlands, and partially to possible errors in the high stage river ratings. With this exception the gain or loss graphs exhibit no marked peculiarities which are not readily explainable by climatic or seasonal differences to which attention has already been called.

DISTRIBUTION IN SWAN VALLEY

Wm. Burton was again appointed as deputy water master for the Swan Valley section but his salary and other expenses incident to the work were paid directly by the local water users, in accordance with the custom followed during preceding years. Copies of all instructions regarding cuts and reinstatements were forwarded to him by mail and he was directed to regulate all diversions in accordance with these orders. Aside from the slight delay resulting from the method of communication, regulation in this section was therefore consistent with that in other portions of the district.

No unusual difficulties or controversies with the respective users in this territory were reported.

DISTRIBUTION ON SAND CREEK, FREMONT COUNTY

Water distribution on Sand Creek in Fremont County in 1927 was handled strictly as a local problem. No request for the appointment of a deputy water master was made and since this stream is really not a surface tributary of Henrys Fork during the ordinary regulation period, it was entirely neglected as a part of District No. 36 work.

CLIMATOLOGICAL DATA

Study of the U. S. Weather Bureau monthly and annual climatological summaries covering the twelve months ending September 30, 1927 affords much information of interest and serves to explain certain phases of the year's water supply which might otherwise be difficult to understand.

The following notes from the Idaho and Wyoming section reports describe the principal monthly peculiarities:

October	1926	Temperature considerably above but precipitation below normal. Good harvest weather.
November	1926	Precipitation extremely heavy - in Idaho, the greatest recorded for this month since 1909 and in Wyoming, 200% of normal. Temperature much higher than usual.
December	1926	Average temperature but slight deficiency in precipitation.
January	1927	Both temperature and precipitation about normal.
February	1927	Slightly warmer than usual. Precipitation in excess of the normal amount.
March	1927	An average month with respect to temperature but subnormal as regards precipitation.
April	1927	Idaho Stations reported no material departure from ordinary weather conditions. Colder than usual in Wyoming.
May	1927	Another cold month with above normal precipitation in Wyoming. Idaho conditions nearly average.
June	1927	No very unusual weather reported in the upper Snake area. Slight deficiency in rainfall.
July	1927	Nearly normal temperature. Precipitation a little below the average amount.
August	1927	Slightly colder than usual but otherwise a normal month.
September	1927	Weather generally cool with much more than the ordinary amount of rainfall.

Early crop development was somewhat retarded but normal growth was experienced throughout the summer and since little damage from early fall frosts was noted, the season was generally considered to have been a good one from the standpoint of weather conditions as well as water supply.

The amount and distribution of precipitation at the principal observation points throughout District No. 36 territory is shown graphically for the irrigation season on Plates XXVIII and XXIX.

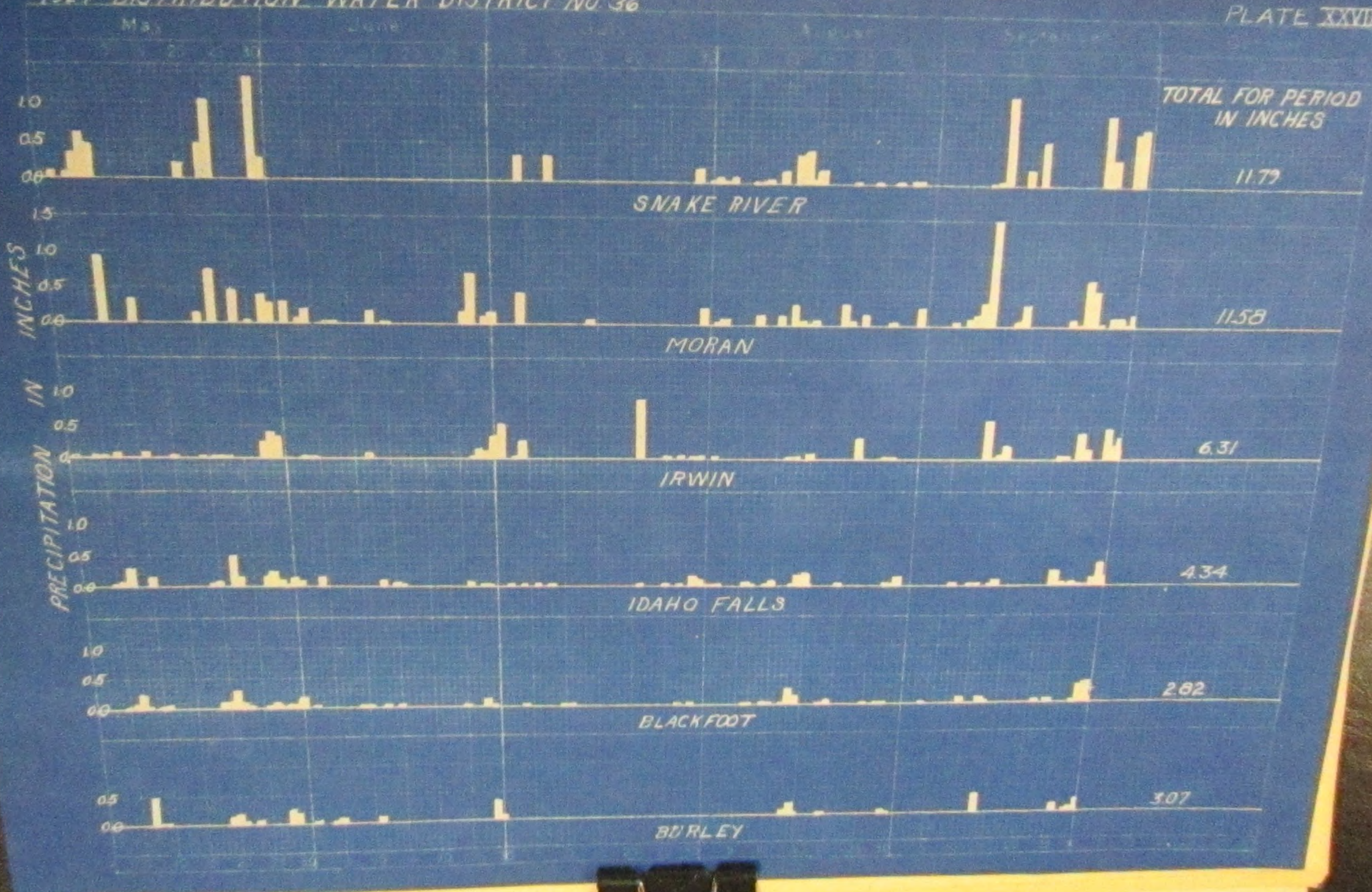
The record at Riverside near the west entrance to Yellowstone National Park is not altogether consistent with those for the other stations but has been included because of its proximity to Henrys Lake.

The following table summarizes precipitation data for Snake River, Moran, Irwin, Ashton, Idaho Falls, Blackfoot, Pocatello and Twin Falls by months for the year ending September 30, 1927:

Month	Total Number of Stations	Number Above Normal	Number Below Normal	Monthly Aver. Precip. in Inches for All years of Record	Average Precip.in Inches for Specific Month	Mean Departure from Average Amount in Inches.
1926						
October	8	0	8	1.349	0.680	-0.669
November	8	6	2	1.251	2.614	+1.363
December	8	2	6	1.434	1.291	-0.143
1927					1.786	-0.051
January	8	3	5	1.839	2.005	+0.619
February	8	7	1	1.386	0.769	-0.811
March	8	0	8	1.580	1.231	-0.124
April	8	2	6	1.355	2.579	+0.740
May	8	5	3	1.839	1.022	-0.253
June	8	2	6	1.275	0.540	-0.385
July	8	2	6	0.925	0.708	-0.071
August	8	1	7	0.779	2.290	+1.150
September	8	7	1	1.140		
Total				16.152	17.517	+1.365

1927 DAILY PRECIPITATION DIAGRAM - SNAKE RIVER AREA
1927 DISTRIBUTION WATER DISTRICT NO 36

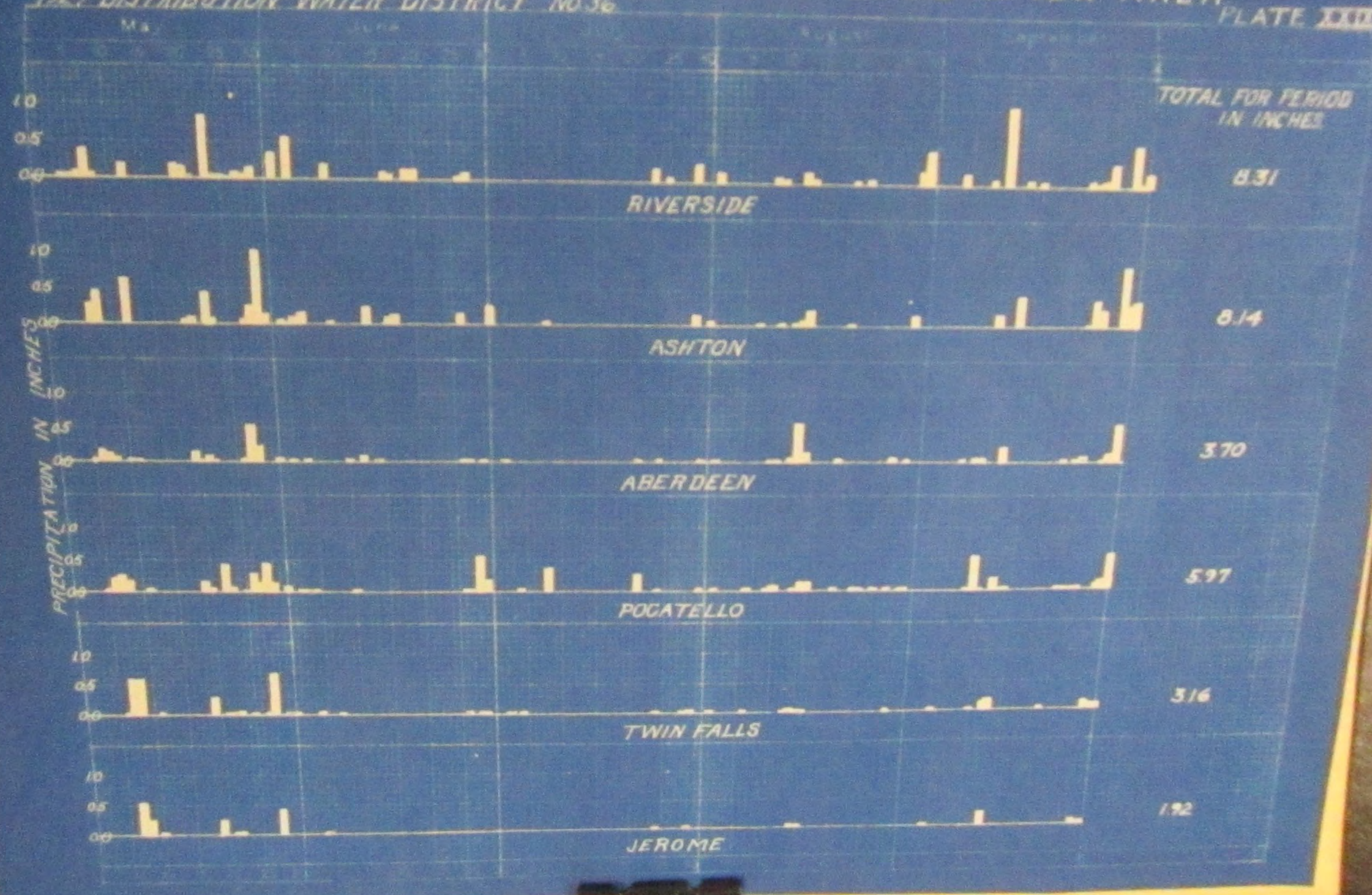
PLATE XXVIII



1927 DAILY PRECIPITATION DIAGRAM - SNAKE RIVER AREA

1927 DISTRIBUTION WATER DISTRICT NO 36

PLATE XXII



This summary corresponds with the one contained in the 1926 report with respect to stations included, but is not quite so dependable because it was necessary to estimate data for the Snake River station during the months of April and June of 1927.

Records at the respective eight observation points cover periods ranging from 17 to 33 years and for this reason, as well as because of their general distribution throughout the upper Snake drainage area, the combined data may be expected to be fairly representative in character when applied to District No. 36. The group totals show that precipitation for the entire twelve months amounted to 108.5 per cent of the average while actual run-off for the same time, as determined from records secured at Moran, Wyoming, (see page 11) represented 128.0 per cent of a 24 year mean.

Just why so large a spread should be noted between these percentages is not immediately apparent. If the two Wyoming stations are considered separately, however, the data for the year ending September 30, 1927 represent 127 per cent of the mean of all available precipitation records - a figure very consistent with the Moran run-off. This seems to indicate that the 1927 precipitation was unequally distributed and was relatively much greater at the higher altitudes than over the lower portions of the drainage area. Some further substantiation of this theory is afforded by the fact that, even with reasonable corrections for storage and other factors, the 1927 run-off at Neeley represents a considerably lower percentage of the 24 year average than that shown for the Moran station.

EVAPORATION

For data concerning evaporation at southern Idaho points during the 1927 season the reader is referred to the previously mentioned report of Thos. R. Newell which contains records for both a land and water pan located near Sterling, Idaho and to the publications of the U. S. Weather Bureau which list records for stations located at Milner and Arrowrock Dams and at Jerome.

NEW CONSTRUCTION AND REPAIRS

Staff gages on Bannock Jim and Lowder Sloughs and the stay line at the Heise river station were washed out at the time of the Gros Ventre Flood. These were all replaced and in addition several days work by two men and a team were required to strengthen the north river bank at the main channel Lorenzo cable. Appreciable expenditures were also necessary in the construction of bridges and repair of roads near the upper end of the American Falls Reservoir.

With these exceptions work of this character was limited to minor repairs to gaging station equipment.

EXPENDITURES

A complete summary of expenditures covering the year ending March 31, 1928 follows. This statement includes all general charge items which appeared in the annual water master's bill for the season of 1927, as well as everything pertaining to the work of the Idaho Falls office. No attempt has been made, however, to segregate expense for strictly hydrometric work from that for water distribution, as in many respects these phases are too closely related to warrant more than an arbitrary separation.

Salaries and expenses of Upper Valley members of the Committee of Nine together with a few other small items, which were not charged against the whole district, have been omitted.

Certain expenses (indicated by foot-notes) were, through pre-season agreement, paid in their entirety by the American Falls Reservoir interests. All other general water users charges were prorated on the basis of 60 per cent against normal flow and 40 per cent against stored water. The latter were in turn segregated between the principal reservoirs. The 1926 capacity ratio was used for this purpose during April and May but throughout the balance of the year all storage expenditures were assessed against the Jackson Lake - American Falls users except for monthly "stand-by" charges of $25.00 and $2.50 which were paid respectively by the North Fork Reservoir Company and the Utah-Idaho Sugar Company.

EXPENDITURES FOR WATER DISTRIBUTION AND HYDROMETRIC WORK

April 1, 1927 to March 31, 1928.

Water Master, Special Deputy and Deputy

G. Clyde Baldwin,	Salary (a) Apr. 1-May 31, Oct. 9-13, 17-22 & 29-31, 2 13/30 mo. @ $400		$ 973.33
	June 1-Oct. 8, Oct. 14-16 & 23-28, Nov. 1-Mar. 31, 9 17/30 mo. @ $450		4305.00
	Expenses Apr. 1-Mar. 31		412.97
	Auto hire	do	

Hydrographers

			675.00
C. A. McClelland,	Salary Apr. 1-June 30, 3 mo. @ $225.00		2100.00
	July 1-Mar. 31, 9 mo. @ $233.33 1/3		129.82
	Expenses Apr. 1-Mar. 31		931.71
	Auto hire	do	

(a) $478.33 of this item paid direct by American Falls Reservoir interests.

Hydrographers

Hans H. Coffin,	Salary Apr. 1-Dec. 31, 9 mo. @ $200.00	$1800.00
	Jan. 1-Mar. 31, 3 mo. @ $208.33 1/3	625.00
	Expenses Apr. 1-Mar. 31	40.80
	Auto hire do	884.13
Leo. K. Homer,	Salary May 14 & 18-31, June 1-July 29, July 31, Aug. 2-19 & 20-26, Sept. 10-11 3 10/30 mo. @ $150.00	500.00
	Expenses do	17.38
	Auto hire do	638.04
Leslie Bowen,	Salary May 23-Aug. 15 & Aug. 20-27, 3 1/30 mo. @ $150.00	455.00
	Expenses do	16.15
	Auto hire do	560.69
C. T. Judah,	Salary Apr. 13-May 20 & May 29-Oct. 22, 6 2/30 mo. @ $150.00	910.00(b)
	Expenses do	19.70(b)
	Auto hire do	996.06(b)
D. I. Gardner,	Salary May 16-Aug. 31, 3½ mo. @ $135.00	472.50
	Sept. 1-30, 1 mo. @ $140.00	140.00
	Expenses May 16-Sept. 30	28.05
	Auto hire do	857.61
H. S. Kollenborn	Salary Mar. 26-31, 5/30 mo. @ $200.00	33.33
	Expenses do	5.60

Deputy Water Masters

Bruno Albert,	Salary June 1-Aug. 31, 3 mo. @ $50.00	150.00
	Auto hire do @ $50.00	150.00
T. W. Luetjen,	Salary May 1-3 & 18, June 1-Sept. 30, 126 days @ $4.00	504.00
	Auto hire June 1-Aug. 31, 92 days @ $3.25	299.00
	Sept. 1-30	85.28
W. J. Kremer,	Salary June 1-Aug. 31, 92 days @ $4.00	368.00
	Sept. 1-17, 17 days @ $2.30	39.10
	Auto hire June 1-Aug.31, 92 days @ $4.00	368.00
Wm. Sauer,	Salary June 1-Aug. 31, 92 days @ $4.00	368.00
	Auto hire do $5.75	345.00
J. W. Ensign,	Salary June 1-Aug. 31, 92 days @ $4.00	368.00
	Auto hire do $3.50	322.00
D. G. Taylor,	Salary June 1-Aug. 31, 92 days @ $4.00	368.00
	Auto hire do $3.25	299.00
W. N. McConnel,	Salary June 1-Sept. 30, 4 mo. @ $50.00	200.00

(b) Paid direct by American Falls Reservoir interests.

Stenographers

Helen George,	Salary Apr. 1-Mar. 31, 1 year @ $1500.00		$1500.00
Snow Coffin,	Salary June 1-Aug. 31, 3 mo. @ $40.00		120.00
Gage Readers			
Mrs. J. L. Carter,	Salary Apr. 1-Dec. 31, 9 mo. @ $15.00		135.00
Mrs. John Keppner,	Salary Jan. 1-Mar. 31, 3 mo. @ $15.00		45.00
Walter Lenz,	Salary Apr. 1-May 31 & Sept. 1-Mar. 31, 9 mo. @ $9.00		81.00
Harold Fuqua,	Salary Apr. 1-May 31 & Sept. 1-30, 3 mo. @ $5.00		15.00
	June 1-Aug. 31, 3 mo. @ $12.00		36.00
	Oct. 1-Dec. 31, 3 mo. @ $6.00		18.00
	Jan. 1-Mar. 31, 3 mo. @ $8.33 1/3		25.00
Mrs. Irvin Siepert,	Salary Apr. 6-May 31, 1 25/30 mo. @ $5.00		9.17
	June 1-Sept. 17, 109 days @ $1.00		109.09
	Sept. 18-30, 13/30 mo. @ $8.00		3.47
	Oct. 1-25, 7 trips @ $1.00		7.00
B. F. Smith,	Salary Apr. 1-May 31 & Oct. 1-Dec. 7, 30 trips @ $1.00		30.00
	Dec. 8-Mar. 18, 102 days @ 0.60		61.20
	Mar. 19-31, 2 trips @ $1.00		2.00
W. H. Kremer,	Salary July 19-Aug. 31, 44 days @ $1.00		44.00
Mrs. A. M. Anderson,	Salary Apr. 1-May 31 & Sept.1-30, 3 mo. @ $5.00		15.00
W. H. Davis,	Salary June 1-July 19, 49 days @ 0.50		24.50
	July 20-Sept. 30, 72 days @ $1.00		72.00
J. A. Clough,	Salary Apr. 1-May 31 & Oct. 1-Mar. 31, 8 mo. @ $10.00		80.00
	June 1-Sept. 30, 122 days @ $1.00		122.00
A. J. Ayers, (a)	Salary Oct. 1-May 31, 8 mo. @ $8.00		64.00
	June 1-Sept. 30, 4 mo. @ $50.00		200.00
H. B. McConnel,	Salary June 1-Sept. 30, 4 mo. @ $10.00		40.00
Secretary, Water Users Committee of Nine			
John Lee, (b)	Salary Nov. 10 & 22, Jan. 4-7, Mar. 7-8 & 30,		55.00
	Sept. 26 & Oct. 1, 11 days @ $5.00		47.98
	do		17.94
	Expenses do		
	Auto hire		
Miscellaneous			
Materials, labor and equipment for gaging stations			104.25
Field and office equipment (instruments, etc.)			321.81
Telephone and telegraph			350.83
Field and office supplies			315.89
Premiums on official bonds			18.25
Interest on borrowed money			137.66
Employees compensation insurance			80.97
American Falls Reservoir Bridge & Road work			426.05
Upper Snake River Flood Prevention Survey			13.00
		Total	$27626.87

(a) Computed for year ending September 30, 1927.
(b) Computed for 366 day period ending October 1, 1927.

SOURCES OF REVENUE

Normal Flow Fund	
Normal Flow Users (Direct assessment in 1927 District No. 36 water master bill)	$12,219.96
Jackson Lake and American Falls Stored Water Users (through State)	230.95
Jackson Lake and American Falls Stored Water Users (credit in 1927 District No. 36 Water Master bill)	10,650.46
North Fork Reservoir Company (through State)	153.97
Sheppard & Company (through State)	29.40
U. S. Geological Survey	31.51
State of Idaho (Cooperative Stream Measurement Fund)	1,249.43
Utah Power & Light Co.	2,729.12
	25.00
Total	$27,626.87

*FUNDS AVAILABLE APRIL 1, 1928

Normal Flow Fund (a)	
Jackson Lake Stored Water Users (a)	1,379.04
North Fork Reservoir Company (b)	12.82
Sheppard & Company (b)	50.00
U. S. Geological Survey (c)	16.83
State of Idaho, Cooperative Stream Measurement Fund (d)	152.60
	614.88
Total	$2,226.17

* Amounts given in this table represent funds in bank or definitely known to be available after all accounts (except a few outstanding claims which had not yet been presented) were settled and adjusted to and including March 31, 1928.

(a) Additional funds probably available on or before June 1, 1928.
(b) Represents unexpended portion of money advanced.
(c) Represents amount available for expenditure prior to July 1, 1928.
(d) Amount allotted for expenditure prior to July 1, 1928 (Subject to slight change).

Two important items are not included in these summaries for the reason that their exact value is not definitely known. These are:

(1) The rent equivalent of the office quarters and furniture in the Federal Building at Idaho Falls. Because of the cooperation with the U. S. Geological Survey this very desirable office space and equipment is made available without charge.

(2) The cost of securing the necessary prints for and the binding of 55 copies of the 1926 report which was paid direct by the State Commissioner of Reclamation.

The total annual expenditure of $27,626.87 does not include the $5,000.00 cost of Mr. Newell's investigation. If the other expense directly attributable to the American Falls Reservoir were likewise omitted the total for regular work would be reduced below that of any year since 1923 although the margin under 1925 would be very small. These costs normally reflect the water supply conditions noted in the respective seasons and, except for special investigations or other unusual work, expenditures may be expected to decrease whenever the necessary regulation period is shortened.

WATER RIGHTS

No permanent changes of material consequence were recorded during the past year in the decreed rights of District No. 36 water users, hence the diagrams which were presented under this heading in previous reports have in this instance been omitted.

Final American Falls Reservoir storage rights cannot be determined until the amount of rebate water, acquired by reason of the decrease in actual construction cost with respect to the original estimate, is announced. Upper Valley Jackson Lake rights will be increased and those of the Minidoka Project will be correspondingly decreased as the result of exchanges (either seasonal or permanent) for water in the larger reservoir.

RECOMMENDATIONS

The present southward trend of Snake River in the vicinity of the head of Louder Slough has already been mentioned. Should this situation lead to the formation of a new and more direct main river channel, immense damage would result. Steps have already been taken to initiate some plan for river control in this section but the problem is of such magnitude that State and, if at all possible, Federal aid will undoubtedly be needed to effect permanent relief.

Water distribution throughout District No. 36 has been conducted under substantially the same plan for a number of years and, although no claim can be made that the procedure has been perfected, it has proved workable in actual operation. Hence, if no material change in conditions occurs, it should continue to function satisfactorily in the future without further legislation. Minor improvements and adjustments will doubtless be made from time to time, however, through the medium of the Committee of Nine which has now attained a well recognized and important place in the administration of the affairs of this District.