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JOHN K. SIMPSON
TRAVIS L. THOMPSON
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jar@idahowaters.com

Albert P. Barker
apb@idahowaters.com

August 19, 2011

Jan Shurte
Idaho Department of Water Resources
322 E. Front Street
Boise, ID 83720-0098

Re: Mason Creek, 63-179C, et al.

Dear Jan:

The SRBA Courts' Special Master instructed the parties to submit by today additional evidence to the Department on the question of injury regarding the Department's accomplished transfer determination of the POD for right 63-179C.

Pioneer Irrigation District (PID) asked the Department to evaluate certain specific questions regarding the accomplished transfer of right 63-179C in its Statement Regarding Injury and Enlargement filed with the SRBA Court. Because PID was directed by the SRBA Court to file this statement, Mason Creek believes the Department's inquiry should be limited to the issues raised in PID's statement: was there an expansion of the right by Mason Creek at the time of transfer; if there was injury to Franklin's right 63-167 or PID right 63-371; did moving the right upstream increase its availability and enlarge the use, and did the change reduce conveyance losses. No other reasons were offered and PID has provided Mason Creek with no evidence to support any of these claims.

Mason Creek is providing the Department with the following information for the Department's use in evaluating these PID claims:

1. Affidavits filed by Mason Creek in the SRBA proceedings, with attachments, and Affidavits of Lee Sisco and Rex Barrie, filed by Franklin. These are in the possession of PID;

2. Transcript on Appeal of Stewart Decree of Franklin water users were previously sent to you by Mr. Galvin and are in the possession of PID;

3. Transcript on Appeal of Stewart Decree and Post-trial Affidavits of Mason Creek Water Users. These are being sent to PID, attached;

4. Records of Delivery of Water and Return Flows 1911-1924 (missing 1913) from Water District 63 office. These are being provided to PID, attached.

5. 1928 communications regarding PID request to transfer a portion of Franklin and Mason Creek water to the Phyllis Canal from the Highline and a 1955 communication from PID, with notes regarding Mason Creek and Franklin, also obtained from the Water District #63 offices. Copies are provided to PID, attached.

6. Franklin contract in Idaho and Oregon Land Improvement Co. (predecessor to PID) October 2, 1883, showing that a portion of the Franklin Rights (1350 inches) was to be delivered to Highline under the 1883 Contract. PID has a copy.

7. Various maps of the area of Mason Creek, Franklin and PID deliveries. Copies are provided to PID, attached.

We also have recently reviewed PID Board minutes and through stipulation with PID's counsel will supplement this submission, with documents from that review, within a week. Thank you.

Very truly yours,

BARKER ROSHOLT & SIMPSON LLP



Albert P. Barker

APB/hr
Encl.

Cc: D. Lawrence (counsel for PID), with attachments (as noted)
Mason Creek Ditch Co., with attachments (as noted)

EXHIBIT 1

DISTRICT COURT - SRBA
Fifth Judicial District
County of Twin Falls - State of Idaho
JUN 18 2010
By
Clerk
Deputy Clerk

BEFORE THE DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO

STATE OF IDAHO)
)ss.
County of Ada)

AFFIDAVIT OF MARTIN GALVIN

63-33392

MARTIN GALVIN, being first duly sworn upon oath, deposes and states as follows:

1. I am a Director of Mason Creek Ditch Company, (hereinafter "the Company"). In connection with the preparation and verification of water right claims filed in the Snake River Basin Adjudication for water use by the Company, the Company's board of directors and I have undertaken a review of the status of the water rights held by the Company.

2. In that regard, I am familiar with, and have conducted a review of, the records of the Company relating to the water rights the Company has historically used from irrigation run-off that drains from various canals.

3. This review has revealed that the Company failed to claim a water right on Five Mile Creek/Drain, a diversion of approximately 17 cfs, historically used on the Company's place of use.

5. My review of the Company's records further reveals that the Company has diverted this additional 17 cfs, and that all of the water has been beneficially used for irrigation purposes, since the date of June 1, 1869. I am personally familiar with this diversion as I own and farm land in the vicinity with water from this diversion.

6. I have reviewed the attached SRBA beneficial use claim for an additional 17 cfs of water with a priority date of June 1, 1869, and believe that said claim accurately reflects this historical water usage previously unclaimed by the Company.

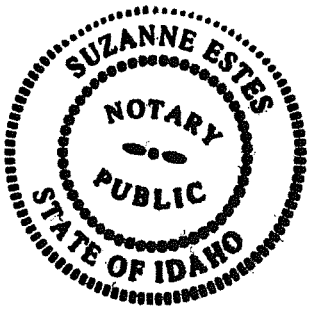
mc

FURTHER YOUR AFFIANT SAYETH NAUGHT

DATED: 6-17-10

Martin Galvin
Martin Galvin

SUBSCRIBED AND SWORN to before me this 17th **day of** June, **2010.**



Suzanne Estes
NOTARY PUBLIC FOR IDAHO
Residing at: Boise Idaho
My commission expires: June 1, 2012

Albert P. Barker, ISB #2867
Shelley M. Davis, ISB #6788
Sarah W. Higer, ISB #8012
BARKER ROSHOLT & SIMPSON LLP
1010 W. Jefferson St., Ste. 102
P.O. Box 2139
Boise, ID 83701-2139
Telephone: (208) 336-0700
Facsimile: (208) 344-6034

Attorneys for Mason Creek Ditch Company

DISTRICT COURT - SRBA
Fifth Judicial District
County of Twin Falls - State of Idaho
SEP 16 2010
By _____ Clerk
_____ Deputy Clerk

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA Case No. 39576	SUBCASE NOS.: 63-00166a, 63-00166b, 63-00167a, 63-00167b, 63-00179a, 63-00179C, and 63-32580 **AFFIDAVIT OF ALBERT P. BARKER IN SUPPORT OF MASON CREEK'S MOTION FOR SUMMARY JUDGMENT**

ALBERT P. BARKER, being first duly sworn upon oath, deposes and states as follows:

1. I am an attorney in the firm Barker Rosholt & Simpson LLP providing legal representation to the Mason Creek Ditch Company in the above captioned matter. I am over the age of 18 and have knowledge of the documents and legal proceedings pertinent to this matter, and I make this affidavit based upon personal knowledge.

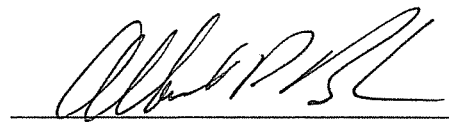
2. Attached hereto as Exhibit A is a true and correct copy of excerpts from the Stewart Decree, including paragraph XLIII (Mason Creek) for water right No. 46 and paragraph LXXVI (Pioneer) for water right Nos. 90, 117 and 135.

3. Attached hereto as Exhibit B is a true and correct copy of excerpts from Pioneer Irrigation District's Response to Mason Creek Ditch Company's First Set of Discovery Requests.

4. Attached hereto as Exhibit C is a true and correct copy of the Idaho Department of Water Resource's Final Recommendation for water right No. 63-00179C.

DATED this 17th day of September, 2010.

BARKER ROSHOLT & SIMPSON LLP



Albert P. Barker
Attorneys for Mason Creek Ditch Company

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 17th day of September, 2010, I caused to be served a true and correct copy of the foregoing **AFFIDAVIT OF ALBERT P. BARKER IN SUPPORT OF MASON CREEK'S MOTION FOR SUMMARY JUDGMENT** by the method indicated below, and addressed to each of the following:

Original hand delivered to:

Clerk of the District Court
Snake River Basin Adjudication
P.O. Box 2707
Twin Falls, ID 83303-2707
Fax No. 208-736-2121

Copy mailed to:

IDWR Document Depository
P.O. Box 83720
Boise, ID 83720-0098

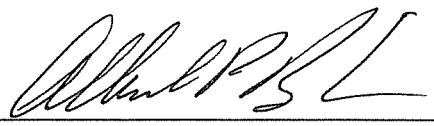
Chief, Natural Resources Division
Office of the Attorney General
State of Idaho
P.O. Box 44449
Boise, ID 83711-4449

United States Department of Justice
Environment & Natural Resc Division
550 West Fort Street, MSC 033
Boise, ID 83724

Copy faxed to:

Jon C. Gould
Daniel V. Steenson
Ringert Law
P. O. Box 2773
Boise, ID 83701-2773
Attorneys for Franklin Ditch Company

Scott L. Campbell
Andrew J. Waldera
Moffatt Thomas, et al.
P. O. Box 829
Boise, ID 83701-0829
Attorneys for Pioneer Irrigation District



Albert P. Barker

EXHIBIT "A"

63-F

IN THE DISTRICT COURT OF THE SEVENTH JUDICIAL DISTRICT OF THE STATE OF IDAHO IN AND FOR THE COUNTY OF CANYON.

Farmers' Cooperative Ditch Company (a corporation)

Plaintiff,

vs.

DECREE

Riverside Irrigating District, Limited, (a corporation), The Siebenberg Cooperative Ditch Company, Limited (a corporation), Frank Gilbert, T. W. Boone, Prior Burnett, Thomas Andrews, H. Ray Boudinot, I. W. Tucker, C. F. J. Peterson, William McKnett, Fred J. Kiesel, Neil McCarron, Michael Gilbride, Lower Boise Ditch Company, (a corporation), R. H. Stockton, H. F. Vanderpool, D. D. Campbell, William Ross, Smith Stockton, John Atkins, Ben Ross, John Ross, D. K. McConnel, John Lemp, John Kammon, Bird Bowman, (substituted for H. B. Bowman Jr.), D. Mumford, T. T. Johnson, H. Carlyle, Charles Allen, J. Bowman, Robert McGuire, Frederick Ode, Eureka Ditch Company, (a corporation), J. Roland, Thomas J. Palmer and Noah W. Palmer (substituted for Lillian Potter, Administratrix of the Estate of L. D. Potter, deceased, Susan E. Potter, Thad. S. Potter, Elisha Potter, Lillian Potter, Ida Potter, James Baker), C. W. Cooper, Pioneer Dixie Ditch Company (a corporation), William C. Young, Lizzie Young, Estella C. Young, E. E. Kirkpatrick, S. H. Mitchell, L. F. Cook, Triphenia Jobe, administratrix of the estate of J. H. Jobe, deceased, Triphenia Jobe, Charlotte Coonrod, _____ Coonrod, her husband, Minta Lund and Frank Lund, her husband, William Jobe and Alice Jobe, Edith Jobe and Corrinna Jobe, minors, A. Holcomb, George Milner, George Hess, John Thomas, H. H. Whitney, Emma S. Lee, Edwin Curtis, Eureka Water Company, (a corporation), William Simpson, William Lewis, Huston Frost, Elijah Frost, George Goodrich, R. N. Brannan, William Frost, Adam Schindler, Pioneer Irrigation District, (a corporation), Franklin Ditch Company, (a corporation), Canyon County Water Company, (an association) Francis A. Phelps and Frances Phelps husband and wife, John D. Rutledge, James Hartley, Joseph Wilson, Daniel Masterson, Perry Stoffle, H. McGill, S. S. Foote, J. E. Smith, John Lemp, M. E. Fowler, Thomas

Mel C 2/25/02 Ecg

SRBA 60159

JUN 21 1996

Sec. 26, all in T. 5 N. R. 5 W. B.M.; in the following amount from the following date;

63 0178 425 inches, from June 1, 1869; and hereby designated as Right No. 44.

And be adjudged to pay $29.75 costs, in addition to the costs incurred by him.

XLIII.

That the defendant the MASON CREEK DITCH COMPANY, a corporation, be and it is hereby awarded the use of the waters of Boise River, diverted at a point on the south bank thereof near the center of the east line of Sec. 16; T. 4 N. R. 2 W. B.M., for use upon the lands lying under its canal system, in the following amount from the following date:

63 0179 1860 inches, from June 1, 1869; and hereby designated as Right No. 46

P.D. 29

And be adjudged to pay $130.20 costs in addition to the costs incurred by it.

XLIV.

That the defendant T. W. Boone be, and he is hereby awarded the use of the waters of Boise River, diverted at a point on the SE ¼ of Sec. 25, and SW ¼ of Sec. 30, T. 5 N. R. 5 W. B.M., for use upon the NE ¼, NW ¼ of SE ¼, and lots 1, 2 and 3, Sec. 25, T. 5 N. R. 5 W. B.M., in the following amounts and from the following dates;

63 0180 175 inches, from June 1, 1869; and hereby designated as Right No. 47.
63 0181 110 inches, from June 1, 1874; and hereby designated as Right No. 59.

And be adjudged to pay $19.95 costs in addition to the costs incurred by him.

XLV.

That the defendant W. J. HAMMING be, and he is hereby awarded the use of the waters of Boise River, diverted at a point near the middle of the east line of Sec. 17, T. 4 N. R. 1 E. B.M., by a canal running through a part of Secs. 17 and 18, T. 4 N. R. 1 E. B.M., for use upon lands lying under said canal, and situated on Eagle Island, Ada County Idaho, in the following amount and from the following date;

63 0182 130 inches, from June 1, 1870; and hereby designated as Right No. 48.

And be adjudged to pay $9.10 costs in addition to the costs incurred by him.

UNOFFICIAL DOCUMENT

JUN 2 1 1996

LXXVI.

That the defendant the PIONEER IRRIGATION DISTRICT, a corporation, be, and it is hereby awarded the use of the waters of Boise River, diverted from said river at a point on the farm known as the William Frost farm in Sec. 18, T. 4 N. R. 1 W. B.M., through what is known as the Caldwell canal, for use upon the lands lying under its canal system, in the following amount and from the following date;

63-0371
2655 inches, from June 1, 1884. and hereby designated as Right No. 90.

Also, diverted at a point on the south bank of said river opposite the lower part of Eagle Island, in Sec. 24, T. 4 N. R. 1 W. B.M., through what is known as the Phyllis canal, for use upon the lands lying under its canal system, in the following amounts, from the following dates;

63 0224
10000 inches, from Sept. 1, 1890.; and hereby designated as Right No. 117.

63 0225
2817 inches, from April 1, 1904.; and hereby designated as Right No. 135.

And be adjudged to pay $1083.04 costs in addition to the costs incurred byit.

LXXVII.

That the defendant the RIVERSIDE IRRIGATION DISTRICT, a corporation, be, and it is hereby awarded the use of the waters of Boise River, diverted at a point on the south bank of said river near the center line of Sec. 20, T. 4 N. R. 3 W. B.M., for use upon the lands lying under its canal system, in the following amounts, from the following dates;

63 0226
1000 inches, from June 1, 1884. and herby designated as Right No. 91.

63 0227
4000 inches, from May 1, 1893. and hereby designated asRight No. 124.

63 0228
1000 inches, from Oct. 1, 1899. and hereby designated as Right No. 130.

63 0229
3500 inches, from June 1, 1901. and hereby designated as Right No. 133.

And be adjudged to pay $665.00 costs in addition to the costs incurred by it.

JUN 2 1 1905

EXHIBIT "B"

Attorneys for Claimant and Objector
Pioneer Irrigation District

Scott L. Campbell, ISB No. 2251
Andrew J. Waldera, ISB No. 6608
Dylan B. Lawrence, ISB No. 7136
MOFFATT, THOMAS, BARRETT, ROCK & FIELDS, CHARTERED
101 S. Capitol Blvd., 10th Floor
Post Office Box 829
Boise, Idaho 83701
Telephone (208) 345-2000
Facsimile (208) 385-5384
18946.0137

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT

OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA

Case No. 39576

Subcase Nos. 63-00166A 63-00166B
63-00167A 63-00167B
63-00179A 63-00179C
63-32580

PIONEER IRRIGATION DISTRICT'S RESPONSES TO MASON CREEK DITCH COMPANY'S FIRST SET OF DISCOVERY REQUESTS

ORIGINAL

COMES NOW Pioneer Irrigation District, by and through undersigned counsel, and answers and responds to Mason Creek Ditch Company's First Set of Interrogatories, Requests for Admission and Requests for Production, as follows:

Ditch Co. has historically not contributed to the payment of expenses associated with such efforts and lacks any specific authorization from Pioneer to convey the water right through Pioneer's system. Pioneer suspects that some of the water diverted under this right has historically been used on Pioneer lands. Pioneer's Highline Canal does not have sufficient operational capacity to convey all of the water rights which have been recommended with the Highline Canal as the point of diversion. Therefore, Pioneer believes all or a portion of this water right has been forfeited. The diversion rate exceeds a reasonable duty of water when combined with the recommendation for 63-32580 and Mason's potential claim to 63-33392.

INTERROGATORY NO. 3: Please describe, with specificity, each factual and legal basis for Pioneer Irrigation District's claim to the water now identified by water right no. 63-179A.

ANSWER TO INTERROGATORY NO. 3: The water right is diverted, conveyed, and delivered to the water users comprising the Mason Creek Ditch Co. through Pioneer's Highline Canal. Pioneer has performed all of the operation, maintenance, and repair of the Highline Canal. Mason Creek Ditch Co. has historically not contributed to the payment of expenses associated with such efforts and lacks any specific authorization from Pioneer to convey the water right through Pioneer's system. Pioneer suspects that some of the water diverted under this right has historically been used on Pioneer lands.

INTERROGATORY NO. 4: Please describe, with specificity, each factual and legal basis for Pioneer Irrigation District's objection to water right no. 63-32580 claimed by Mason Creek Ditch Company from Mason Creek.

ANSWER TO INTERROGATORY NO. 4: Pioneer's investigations into the factual and legal issues relevant to the recommendation of water right 63-32580 are ongoing, and

Mason's requests to the extent they request the production of privileged documents and information not required by Rule 26(b)(5)(A).

IV.
RESPONSES TO REQUESTS FOR ADMISSION

REQUEST FOR ADMISSION NO. 1: Please admit that the Mason Creek Ditch Company was decreed 1860 inches of water in the "Stewart Decree," and that Exhibit B is a true and correct copy of paragraph XLIII from the Stewart Decree decreeing that water right to the Mason Creek Ditch Company.

RESPONSE TO REQUEST FOR ADMISSION NO. 1: Pioneer admits the allegation in Request for Admission No. 1, with the qualification that Exhibit "B" is of poor quality and is not entirely legible; therefore, Pioneer cannot definitively confirm that Exhibit "B" is a true and correct copy of the Stewart Decree.

REQUEST FOR ADMISSION NO. 2: Please admit that Pioneer Irrigation District's claim to water right number 63-179A is for the same water right decreed to the Mason Creek Ditch Company in paragraph XLIII of the Stewart Decree.

RESPONSE TO REQUEST FOR ADMISSION NO. 2: Pioneer admits the allegation in Request for Admission No. 2.

DATED this 9th day of September, 2010.

MOFFATT, THOMAS, BARRETT, ROCK & FIELDS, CHARTERED

By _____
Dylan B. Lawrence – Of the Firm
Attorneys for Pioneer Irrigation District

EXHIBIT "C"

IDAHO DEPARTMENT OF WATER RESOURCES
RECOMMENDED WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 63-179C

NAME AND ADDRESS: MASON CREEK DITCH CO
C/O RICHARD BICANDI
1905 MASON
CALDWELL ID 83605

SOURCE: BOISE RIVER TRIBUTARY: SNAKE RIVER

QUANTITY: 36.200 CFS

Whenever it becomes necessary for the watermaster to deliver this right the following condition shall apply. This right shall receive 100 percent of its decreed quantity until the natural flow of the waters of the Boise River shall decrease so that all rights containing this condition cannot receive 100 percent of their decreed quantities, at which time this right and the other rights containing this condition shall first be cut to 75 percent of their decreed quantities, as the natural flow of the river decreases, beginning with the latest rights containing this condition and proceeding to the earliest rights containing this condition in the order of their priority dates, and after all of the rights containing this condition shall have been reduced to 75 percent of their decreed quantities, should the natural flow of the waters of the river decrease below the amount necessary to supply 75 percent of those decreed quantities, then this right and the other rights containing this condition, beginning with the latest and proceeding to the earliest, shall be reduced to 60 percent of their decreed quantities.

PRIORITY DATE: 06/01/1869

POINT OF DIVERSION: T04N R02W S24 NENENE Within CANYON County

PURPOSE AND PERIOD OF USE:

PURPOSE OF USE	PERIOD OF USE	QUANTITY
IRRIGATION	03/15 11/15	36.200 CFS

Diversion for irrigation under this water right prior to April 1 and after October 31 shall occur only when the natural flow in the Boise River below the Star Bridge in Township 04 North, Range 01 West, Section 18, NE¼ of the SE¼ of the SE¼, Boise Meridian (approximate river mile 33.9) is sufficient for water to be available for diversion at the point of diversion described above, provided that any such use of this water right prior to April 1 and after October 31 shall be subordinated to water rights for storage in Lucky Peak Reservoir, Lake Lowell, Arrowrock Reservoir, and/or Anderson Ranch Reservoir, as decreed in SRBA Case No. 39576.

PLACE OF USE:

1504.3 ACRES TOTAL

The boundary encompassing the place of use for this water right is described with a digital boundary as defined by I.C. Section 42-202B(2) and authorized pursuant to I.C. Section 42-1411(2)(h). The data comprising the digital boundary are incorporated herein by reference and are stored on a CD-ROM disk issued in duplicate originals on file with the SRBA District Court and the Idaho Department of Water Resources. A map depicting the place of use is attached hereto to illustrate the place of use described by the digital boundary.

This right can be used to irrigate up to 1504.3 acres within the boundary of the Mason Creek Ditch Company.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

This right is designated as No. 46 in the Stewart Decree and the Boise Water Distribution Report.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed

Right includes accomplished change in point of diversion pursuant to Section 42-1425, Idaho Code.

This right in Caldwell High Line Canal. Trans #29

Albert P. Barker, ISB #2867
Shelley M. Davis, ISB #6788
Sarah W. Higer, ISB #8012
BARKER ROSHOLT & SIMPSON LLP
1010 W. Jefferson St., Ste. 102
P.O. Box 2139
Boise, ID 83701-2139
Telephone: (208) 336-0700
Facsimile: (208) 344-6034

Attorneys for Mason Creek Ditch Company

DISTRICT COURT - SRBA
Fifth Judicial District
County of Twin Falls - State of Idaho
SEP 29 2010
By _____ Clerk
_____ Deputy Clerk

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA Case No. 39576	SUBCASE NOS.: 63-00166A, 63-00166B, 63-00167A, 63-00167B, 63-00179A, 63-00179C, and 63-32580
	AFFIDAVIT OF ALBERT P. BARKER IN SUPPORT OF MASON CREEK'S MEMORANDUM IN OPPOSITION TO PIONEER'S MOTION FOR PARTIAL SUMMARY JUDGMENT AND MOTION TO REMAND

ALBERT P. BARKER, being first duly sworn upon oath, deposes and states as follows:

1. I am an attorney in the firm Barker Rosholt & Simpson LLP providing legal representation to the Mason Creek Ditch Company in the above captioned matter. I am over the age of 18 and have knowledge of the documents and legal proceedings pertinent to this matter, and I make this affidavit based upon personal knowledge.

2. Attached hereto as Exhibit A is a true and correct copy of a letter from the Secretary of Pioneer Irrigation District dated July 3, 1928 obtained from the Boise River Water Master files.

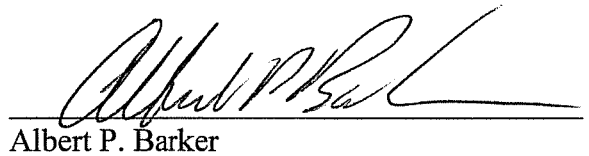
3. Attached hereto as Exhibit B is a true and correct copy of a document produced by Pioneer Irrigation District (No. PID000097) dated May 9, 1938 produced by Pioneer in discovery and filed with Pioneer's objections.

4. Attached hereto as Exhibit C is a true and correct copy of the Idaho Department of Water Resources Transfer File No. 29 from IDWR files.

5. Attached here to as Exhibit D is a true and correct copy of the Application for Permit No. 63-2276 from IDWR files.

DATED this 28th day of September, 2010.

BARKER ROSHOLT & SIMPSON LLP



Albert P. Barker
Attorney for Mason Creek Ditch Company

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 28th day of September, 2010, I caused to be served a true and correct copy of the foregoing **AFFIDAVIT OF ALBERT P. BARKER IN SUPPORT OF MASON CREEK'S MEMORANDUM IN OPPOSITION TO PIONEER'S MOTION FOR PARTIAL SUMMARY JUDGMENT AND MOTION TO REMAND** by the method indicated below, and addressed to each of the following:

Original hand delivered to:

Clerk of the District Court
Snake River Basin Adjudication
P.O. Box 2707
Twin Falls, ID 83303-2707
Fax No. 208-736-2121

Copy mailed to:

IDWR Document Depository
P.O. Box 83720
Boise, ID 83720-0098

Chief, Natural Resources Division
Office of the Attorney General
State of Idaho
P.O. Box 44449
Boise, ID 83711-4449

United States Department of Justice
Environment & Natural Resc Division
550 West Fort Street, MSC 033
Boise, ID 83724

Copy faxed to:

Jon C. Gould
Daniel V. Steenson
Ringert Law
P. O. Box 2773
Boise, ID 83701-2773
Attorneys for Franklin Ditch Company

Scott L. Campbell
Andrew J. Waldera
Moffatt Thomas, et al.
P. O. Box 829
Boise, ID 83701-0829
Attorneys for Pioneer Irrigation District



Albert P. Barker

EXHIBIT "A"

OFFICE OF

PIONEER IRRIGATION DISTRICT

CANYON AND ADA COUNTIES, IDAHO

CALDWELL, IDAHO, July 3, 1928.

Mr William Welch,
Watermaster, Boise River,
Boise, Idaho.

WATER DISTRICT 12A

File No. 16/1

Dear Sir,-

As you are aware the water decreed to this District and drawn at the Phyllis Canal is insufficient to provide a sufficient head for proper irrigation of the lands under that canal.

As you are also aware this District is under contract to carry thru its Caldwell Canal the water decreed to the Franklin Ditch Co under decrees Nos 34 and 77, and to the Mason Creek Ditch Co under decree No 46, amounting to 4010 inches.

Owing to the fact that a large amount of water is frequently supplied to these ditches by this District which is developed by drain ditches within the District there are times when all of the water is not needed by these ditch companies.

In view of these facts I am asked by our Board of Directors to request that if it is possible for you to do so you make temporary transfer to the Phyllis Canal of such surplus water of these rights mentioned when it is not needed by these companies.

Very truly yours,

Fred L. Evans

Secretary.

EXHIBIT "B"

FIVE MILE--MASON CREEK--HIGHLINE

May 9, 1938

Years ago when Pioneer Irrigation District took over the Mason Creek Ditch Company and Franklin Ditch Company it enlarged the ditch those companies had been using and called it the Caldwell Highline. In return for rights-of-way of Franklin Ditch Company and Mason Creek Ditch Company, P.I.D. agreed to carry their decreed water from the river through the Highline ditch which P.I.D. had enlarged and make no assessments against the lands of those two ditch companies. Turner thinks there is a contract covering this. The Highline probably had no water until P.I.D. made this trade with the Franklin and Mason Creek Companies.

The Highline picks up Five Mile Drain water at a point about one mile South and East of the Franklin school, and picks up the Mason Creek Drain water at a point approximately Two miles West of where the Five Mile water is picked up. P.I.D.'s contract with Canyon Hill Irrigation District covers this Mason Creek pickup.

Pioneer dries Five Mile Drain, dumps water into the Highline, and when there isn't sufficient water below for the Franklin and Mason Creek rights P.I.D. diverts over its canal sufficient water to supply the shortage.

These Franklin and Mason Creek rights comprise about 750 to 800 acres.

Mason Creek Ditch Company picks up the water diverted over the Highline at a point about 1½ miles below the point where Highline crosses Five Mile Drain.

The Mason Creek Company and Mrs. J. P. Wells use the same diversion structure.

As to Highline water, P.I.D. has nothing decreed in its name. Its Highline water is decreed as follows:

To Franklin Ditch Company (Rights Nos. 34 and 77).

To Mason Creek Ditch Company (Right No. 46).

PID000097

EXHIBIT "C"

P/D TER. # 29, 8/26/1918
FOR 50 INCHES 63-0179
TO CWW. CO. WTR. CO. LTD
PRIORITY 6/1/1869.
63-0000 B

POOR ORIGINAL

STATE OF IDAHO,
County of Ada } ss.

A. F. Hughes being first duly sworn, upon his oath deposes and says:

That he is the owner of a decreed water right appurtenant to the following described land to-wit: All of that part of Lot 6, Sec. 14 T. 4 N. R. 2 W. B. M. which lie North of the center of the present channel of Boise River, 50 Acres as evidenced by the decree dated January 18, 1906 day of in the cause entitled Farmers Cooperative Ditch Co. Plaintiff, vs. Riverside Irrigation District, Ltd. Defendant, brought in the district court of the Seventh Judicial District of the State of Idaho, or

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No.

That he intends to change the point of diversion, as described in said decree or permit, to the following point: Heading of Canyon County Canal whose point of diversion from the Boise River is 67.50 chains South of the NE Corner of Sec. 18 T. 4 N. R. 1 E. B. M.

That such change will be made for the following reasons, to-wit: This land was formerly watered from the Caldwell High Line Canal on the South side of Boise River but the channel of the Boise River having changed this land now lies north of the Boise River and has to be watered from the Canyon County Canal, said Canal diverting water from the North bank of Boise River.

That no one will be injured by such change and that deponent will make such change at his own risk.

And further deponent saith not.

A. F. Hughes

Subscribed and sworn to before me this 26th day of August, 1918

Clara M. Brown
Notary Public

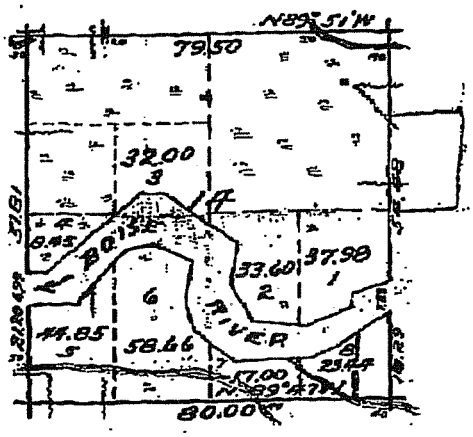
My commission expires

MICROFILMED
JUL 25 1994

F.H. Maxwell
2...o.I.
#713-N-13th

TFR. # 29, 8/26/1918
63-0179

Sec. 14
T. 4N., R. 2W.



MICROFILMED
JUL 25 1994

EXHIBIT "D"

No. 16861.

APPLICATION FOR PERMIT 63-2276

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF IDAHO

1. *Name of applicant:* Pioneer Irrigation District

Postoffice address: Caldwell *County:* Canyon *State:* Idaho

I. *If applicant is a corporation, give*
(a) *Date and place of incorporation:* An irrigation district, organized under the irrigation district laws of the State of Idaho, on July 8th, 1901.
(b) *The amount of capital stock:*
(c) *The amount paid in:*
(d). *Names and addresses of directors:* L. C. Greenslet, Nampa, Idaho, W.A. Shupe and A.G. Street, Caldwell, Idaho.

II. *The financial resources of the applicant are:* United States of America has agreed by contract to expend $350,000 in constructing drainage ditch within said District, which will develop and accumulate said water and the amount so expended to be paid back, 2% each year for 1st 4 years: (a) *Cash on hand:* 4% each year for next 2 years and 6% each year for next 14 years. (b) *Treasury stock:* (c) *Bonds to be issued:* (d) *Other resources:* (See remarks)

2. *The quantity of water claimed is* 85 *cubic feet per second.*

3. *Source of water supply:* Mason Creek Drainage System (See blue print marked Exhibit "A") Drains into Mason Creek, a tributary to Boise River. A portion by pumping at intersection of Caldwell Highline CAnal & Drainage Ditch

4. *Location of point of diversion:* in SE¼ of SE¼ of Sec. 29, Twp. 4, N. R. 2 W.B.M.

County of Canyon

5. *To be used for:* Irrigation and domestic purposes.

I. *Irrigation and domestic use:* all within the Pioneer Irrigation Dist.
(a) *Amount of land to be irrigated:* 4316.68 *acres.*
(b) *In the following legal subdivisions:* See Lists "A" and "B".

II. *Mining, milling, power, manufacturing, transportation or other purposes:*

(a) *At what point:*

(b) *Amount of power to be generated:* *H. P. under* *ft. head*
(c) *Is water to be returned to any stream?* (d) *If so, name stream and locate point of return:*

6. *Estimated cost of works:* $see remarks.

7. *Description of works for diversion:*
I. *Kind of works:* see remarks

II. *Dimensions of works:* see remarks
(a) *Height of dam* *feet, length of dam at top* *feet,*
length of dam at bottom *feet. Material used in construction:*

(b) *Capacity of reservoir* *acres feet.* (c) *Size of headgate, width* *feet,*
Height *feet.* (d) *Conduit* Phyllis Canal *width at bottom* 32 *feet,*
width at water line 40 *feet, depth of water* 4 *feet; diameter of pipe* *inches; average grade per mile is* 1 3/4 *feet. Length of conduit is* 35.3 *miles, and it crosses the following quarter sections:* See List "C"

Conduit Caldwell Highline Canal, width at bottom 16 feet, width at water line 22 feet, depth of water 3 ½ feet; average grade per mile 1 3/4 feet, length of conduit 16 miles, See List "D".

8. *The time required for the completion of the construction of such work is* three *years.*

9. *Time required for the complete application of the water to the proposed use is* five *additional years.*

BE IT KNOWN That the undersigned hereby makes application for a permit to appropriate the public waters of the State of Idaho as herein set forth.

PIONEER IRRIGATION DISTRICT
Applicant.

By L. E. Greenslet. *Agent.*

11897

Date of first receipt at office of State Engineer 3 :00 P.M. Sept. 8, 1915

Returned to applicant for correction September 8,1915

Corrected application received November 5,1915.

APPROVAL OF STATE ENGINEER

The number of this permit is 11897
Recorded in Book 40 *Page* 11897 *Approved* January 10,1916.
This is to certify that I have examined the within application for a permit to appropriate the public waters of the State of Idaho, and hereby approve the same, subject to the following limitations and conditions:
Bond in the sum of $ 1000.00 *to be filed on or before* March 10,1916.
Work to begin on or before *and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which permit holder has no control.*
One-fifth of the work above specified to be completed on or before July 10,1917.
The whole of said work to be completed on or before January 10,1919.
Beneficial use of water appropriated in accordance herewith, to be made on or before January 10,1924.
Witness my hand this 10th *day of* January,1916.

J. H. SMITH.

State Engineer.

Remarks: 50 second feet to be pumped at Pumping Plant No. 1, see remarks "B".

The Pioneer Irrigation District entered into a contract with the United States of America, in which contract the United States of America agrees to expend $350,000 in digging and constructing drainage systems, known as the Mason Creek Drainage and the Wilson Slough Drainage Systems, and also another named the Dixie Drainage System, within said District, which systems are outlined on the blue prints marked Exhibit "A" and Exhibit "B", annexed hereto and made a part hereof, for the purpose of draining water-soaked lands of the District, on condition that the District return said money, so expended, in twenty installments, as hereinafter stated.

Prior to the execution of said contract by said District, a resolution was adopted by its Board of Directors, on September 14,1912, in which resolution said Board formulated a general plan of its proposed drainage and increased water supply for said District, in which it declared the necessity of drainage and also the necessity of an increased water supply for irrigation, and stated that in the construction of said Drainage Systems water would be developed, accumulated and waste waters collected, which would be developed, accumulated and waste waters collected, which would be diverted or pumped into the canals of the District and used by the District in increasing its water supply. Copies of the maps, the above mentioned contract, plans and resolution were filed in the office of the State Engineer of the State of Idaho on September 16, 1912, to which reference is hereby made. Said resolution, contract and plans were approved by the said State Engineer, by report to said District, on September 27,1912, after which the same were approved by vote of the District, by a special election held for that purpose; and that thereafter another contract was prepared and by a special election authorized and entered into by the District, in which the payments to the United States of America may be made as follows: Two per cent each year for the first four years; four per cent each year for the next two years and six per cent each year for the next fourteen years.

On or about November 1,1913, the Reclamation Service of the United States of America commenced the construction of the said Drainage Systems, the Mason Creek Drainage System being included within said Systems, in which said system there has been expended about $106,000 and about 26 miles of drainage ditch has been constructed, of about ten feet in depth and from five to eight in width at the base.

The water is being developed by the construction of the Mason Creek Drainage System, which comprises the drainage ditches in the Mason Creek Drainage System, as shown on the map accompanying this application, comprising the Mason Creek Drain, the Purdam Gulch Drainage Ditch, Noble Slough Drainage Ditch and the Solomon Slough Drainage Ditch, which Mason Creek Drain develops 40 second feet; the Purdam Gulch Drainage Ditch 20 second feet; Noble Slough Drainage Ditch 20 second feet; Solomon Slough Drainage Ditch 20 second feet; and a portion thereof, to-wit: 30 second feet, developed by the Mason Creek Drain, and 20 second feet developed by the Purdam Slough Drainage Ditch is to be pumped at pumping plant No. 1, located where the said Mason Creek Drain crosses the Caldwell Highline Canal, at a point 785 feet North, 73° West of the Southeast corner of Section 29, in Township 4, North of Range 2, West of Boise Meridian, in the Southeast quarter of the Southeast quarter of Section 29, Township and Range aforesaid, and to be used in the irrigation of the lands described in "List A", hereto attached.

There are within the Pioneer Irrigation District, this applicant, more than 34,500 acres of land, and the irrigation of said lands requires, in addition to the amount asked in the cases on file in the courts of this State and the amount contracted for with the Government, a copy of which contract is on file in the office of the State Engineer and was approved by said State Engineer September 26,1912, the amount of water which is being developed by the construction of the drainage systems on the blue print hereto attached and included in the above application and also in application No. 16860 to irrigate 3597.92 acres, as shown by "List "A", under the Caldwell Canal, a portion of which has not yet been reclaimed, and to supply additional water for 26,130 acres, as shown on List "B", about 5,000 acres of which has not been reclaimed. It is the intention of this application to file on the waters to the amount of the application developed by means of the drainage system constructed by the applicant, as in this application set forth.

LIST A.

In Township 4 North, Range 2, West of Boise Meridian:

Subdivision	Section	Acres	Total Acres.
NW¼	31	158.00	
W½ of NE¼	31	80.00	
Lots 3 and 4	31		
NE¼ of SW¼	31		
SE¼ of SW¼	31	157.00	
	30	637.46	
S½	29		
W½ of NW¼	29	400.00	
Lot 2	19	38.78	
Lot 3	19	39.08	
Lot 4	19	39.38	
E½ of SW¼	19		
S½ of SE¼	19		
NW¼ of SE¼	19		
SE¼ of NW¼	19	240.00	1789.68

In Township 3 North, Range 2, West of Boise Meridian.

Subdivision	Section	Acres	Total Acres.
NW¼	6	157.00	157.00

In Township 4 North, Range 3, West of Boise Meridian:

Subdivision	Section	Acres	
S½	24		
NW¼	24		
W½ of NE¼	24		
SE¼ of NE¼	24	600.00	
N½ of NE¼	23		
SE¼ of NE¼	23		
SE¼ of SW¼ of NE¼	23		
N½ of SW¼ of NE¼	23		
E½ of NE¼ of NW¼	23		
NE¼ of NW¼ of SE¼	23		
E½ of SE¼	23	250.00	
E½	25		
NW¼ of NW¼	25		
E½ of W½	25		
E½ of SW¼ of NW¼	25		
E½ of NW¼ of SW¼	25		
S½ of SW¼ of SW¼	25		
NW¼ of SW¼ of NW¼	25	610.00	1460.00

Carried forward 3406.68

		Total Acres.
Brought forward		3406.68

In Township 4 North, Range 3, West of Boise Meridian: (Continued)

Subdivision	Section	acres.	
NE¼ of NE¼	25	30.00	
	36	640.00	670.00

In Township 3 North, Range 3 West of Boise Meridian:

Subdivision	Section	Acres.	
NE¼	1		
E½ of NW¼	1	240.00	240.00
		Total number of acres..	4316.68

"C"

The Caldwell Highline Canal, as now constructed, from Boise River, of sufficient size to carry water to irrigate all the lands under said canal, within the Pioneer Irrigation Distrdct, heads at Boise River, 2500 feet North, 18° West of the East Quarter corner, Section 24, in Township 4 North of Range 2, West of Boise Meridian, in the SW¼ of the SW¼ of Section 18, in Township 4, North of Range 1, West of Boise Meridian, and crosses the following quarter sections:

SW¼ of Section 18, Township and Range last above stated;
NW¼ of Section 19;

In Township 4, North of Range 2, West of Boise Meridian:

NE¼ and NW¼ of Section 24;
NE¼ and NW¼ of Section 23;
NE¼, NW¼ and SE¼ of Section 22;
NW¼ of Section 27;
NE¼, NW¼ and SW¼ of Section 28;
NE¼, SE¼ and SW¼ of Section 29;
NW¼ of Section 32;
NE¼, NW¼ and SW¼ of Section 31;

In Township 3, North of Range 2, West of Boise Meridian:

NW¼, NE¼, SE¼ and SW¼ of Section 6;

In Township 3, North of Range 3, West of Boise Meridian:

NE¼, SE¼ and SW¼ of Section 1;
SE¼, NE¼ of Section 2;

In Township 4, North of Range 3, West of Boise Meridian:

SE¼, SW¼ and NW¼ of Section 35;
NE¼, SE¼, SW¼ and NW¼ of Section 34;
NE¼, NW¼ of Section 33;
SW¼ of Section 28;

The laterals from the Caldwell Highline Canal cross the following quarter sections, to-wit:

Lateral 8.06

In Township 4, North of Range 2, West of Boise Meridian:

SW¼ of Section 29;
SE¼ and NE¼ and NW¼ of Section 30;

Lateral 8.8

In Township 4, North of Range 2, West of Boise Meridian;

NW¼ of Section 31;
SW¼ of Section 30;

In Township 4, North of Range 3, West of Boise Meridian;

SE¼ and NE¼ of Section 25;

Gowon Lateral.

In Township 4, North of Range 3, West of Boise Meridian:

NE¼ of Section 34;
SE¼ and SW¼ of Section 27;

EXTENSION OF TIME.

Upon proper request of Fred L. Evans, Secy. Pioneer Irrigation District, holder of Permit No. 11897, I have this 3rd day of May, 1917, extended the time for completion of works thereunder to the 10th day of January, 1921.

J. H. Smith,
State Engineer.

APPLICATION FOR AMENDMENT

TO PERMIT TO APPROPRIATE THE PUBLIC WATERS

OF THE STATE OF IDAHO, NO. 11897

Comes now the Pioneer Irrigation District and represents to the State Engineer of the State of Idaho,

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho, No. 11897, and requests that the list of lands to be irrigated, as described in said permit, be changed to read as follows:

Twp	Range	Sec	N E 1/4 NE¼	N E 1/4 NW¼	N E 1/4 SW¼	N E 1/4 SE¼	N W 1/4 NE¼	N W 1/4 NW¼	N W 1/4 SW¼	N W 1/4 SE¼	S W 1/4 NE¼	S W 1/4 NW¼	S W 1/4 SW¼	S W 1/4 SE¼	S E 1/4 NE¼	S E 1/4 NW¼	S E 1/4 SW¼	S E 1/4 SE¼	Totals
4 N	3 W	10												10			20		30
"	"	15	30	40	40	40	11			3					40	20		40	264
"	"	14							15		10	40	40	10					115
"	"	22	20			20									20				60
"	"	23	40	40	35	40	40	40	40	40	40	40	40	40	40	40	40	40	635
"	"	24		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	600
"	"	25	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	640
"	"	26	40	40	30	40	15								30				195
"	"	36	40	40	40	40	40	20		20				20	40	20	20	40	360
3 N	3 W	1	40	40	40	40	40			40									240
"	2 W	6					39.88	38.50	38.11	40									157.50
4 N	2 W	19											29.38						29.38
"	"	30	40	40	40	40	40	39.31	39.35	40	40	39.38	39.62	40	40	40	40	40	637.46
"	"	31		40	40		40	40	40	38	40	39	39	40					396.00

making a total of 4,389.34 acres.

That an additional amount of water is not asked for, and that the rights of others will not be adversely affected by such change.

Signed at Caldwell, Idaho, this 11th day of May, 1918.

A. G. STREET
Pres. Pioneer Irr. Dist.

Date of receipt at Office of State Engineer May 13th, 1918.

DANIEL V. STEENSON (ISB #4332)
JON C. GOULD (ISB #6709)
RINGERT LAW CHARTERED
455 S. Third, P. O. Box 2773
Boise, Idaho 83701-2773
Telephone: (208) 342-4591
Facsimile: (208) 342-4657

Attorneys for Franklin Ditch Company, Inc.

DISTRICT COURT-SRBA
Fifth Judicial District
County of Twin Falls - State of Idaho

FEB 15 2011

By _____ Clerk
_____ Deputy Clerk

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA Case No. 39576	SUBCASE NOS. 63-00166A, 63-00166B, 63-00167A, 63-00167B, 63-00179A, 63-00179C, AND 63-32580 **AFFIDAVIT OF LEE SISCO**

STATE OF IDAHO)
) ss
COUNTY OF ADA)

Lee Sisco, being first duly sworn on oath, deposes and says that:

1. I make this Affidavit based upon my own personal knowledge.

2. I was the watermaster for the Boise River, Water District No. 63 ("W.D. 63") from 1986 through 2007.

3. As watermaster, my duties included the distribution of water from the Boise River into canals including the Caldwell High Line Canal. My duties also included the preparation of an W.D. 63 annual report titled Water Distribution of Boise River, which I prepared from 1986 through 2007.

4. During my tenure as the watermaster for the Boise River, the only natural flow water rights diverted from the Boise River into the Caldwell High Line Canal were those identified in the Stewart Decree and in the W.D. 63 annual reports.

5. The W.D. 63 annual reports include information on the diversions from the Boise River into canals, including the Caldwell High Line Canal.

6. I have reviewed past W.D. 63 annual reports including annual reports for 1937 and 1958.

7. The W.D. 63 annual reports I have prepared or reviewed list Franklin Ditch Company as the owner of water right nos. 34 and 77 and Mason Creek Ditch Company as the owner of water right no. 46. The W.D. 63 annual reports identify water right nos. 34, 46 and 77 as the only water rights that are authorized to be diverted from the Boise River into the Caldwell High Line Canal.

8. Attached hereto as Exhibit 1 are true and correct copies of the pages from the 1937, 1958 and 1988 W.D. 63 annual reports that identify the owners of water right nos. 34, 46 and 77 and identify those rights as the only water rights that are authorized to be diverted from the Boise River into the Caldwell High Line Canal.

9. On a few occasions during my tenure as watermaster, Pioneer Irrigation District diverted more water into the Caldwell High Line Canal than is authorized by water right nos. 34, 46, and 77. On those occasions, I attributed the additional diversions to Pioneer Irrigation District's storage water rights.

10. The past records I reviewed are consistent with the practice I followed of delivering water to the Caldwell High Line Canal in accordance with the Stewart Decree.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 15th day of February, 2011, I caused to be served a true and correct copy of the foregoing **AFFIDAVIT OF LEE SISCO** by the method indicated below, and addressed to each of the following:

Filed via Hand Delivery:

Clerk of the District Court
Snake River Basin Adjudication
P.O. Box 2707
Twin Falls, ID 83303-2707
Fax No. 208-736-2121

Served via U.S. Mail:

IDWR Document Depository
P.O. Box 83720
Boise, ID 83720-0098

United States Department of Justice
Environment & Natural Resc Division
550 West Fort Street, MSC 033
Boise, ID 83724

Chief, Natural Resources Division
Office of the Attorney General
State of Idaho
P.O. Box 44449
Boise, ID 83711-4449

Daniel V. Steenson
Jon C. Gould
P. O. Box 2773
Boise, ID 83701-2773
Attorneys for Franklin Ditch Company

Served via Facsimile and U.S. Mail:

Scott L. Campbell
Andrew J. Waldera
Moffatt Thomas, et al.
P. O. Box 829
Boise, ID 83701-0829
Attorneys for Pioneer Irrigation District



Albert P. Barker

REPORT

ON

CANAL DELIVERIES FROM BOISE RIVER

AND

DEFICIENT FEATURES AFFECTING THESE DELIVERIES FOR THE IRRIGATION SEASON OF 1937

(DATA FOR THIS REPORT WERE GATHERED BY THE WRITER WHILE ACTING IN THE CAPACITY OF WATERMASTER OF BOISE RIVER AND SPECIAL DEPUTY IN CHARGE OF THE DISTRIBUTION OF STORAGE WATER FROM ARROWROCK RESERVOIR)

(COOPERATIVE DATA WERE ALSO FURNISHED BY THE UNITED STATES BUREAU OF RECLAMATION AND THE UNITED STATES GEOLOGICAL SURVEY)

By

WM. H. WELCH

Watermaster, Boise River

CHARTS

1937

1. Map of Boise River, showing canal diversions.

2. 2-A, 2-B, 2-C, 2-D, 2-E, 2-F, 2-G, 2-H, 2-I, 2-J, and 2-K, daily discharge of Boise River during 42-year period.

3. Table showing mean daily flow of Boise River for a 42-year period.

4. Table showing monthly and annual flow of Boise River in acre feet for the irrigation years beginning 1904-1936.

5. 5-A, 5-B, 5-C, 5-D, and 5-E, daily discharge of all canals (Sections 1 and 2) for irrigation season of 1937.

6. Summary table in acre feet showing monthly and total canal diversions for the irrigation season of 1937.

7. Summary table showing total annual diversions for all Boise Valley Canals beginning 1918.

8. 8-A, 8-B, daily discharge of all principal tributary streams feeding water to Boise River below Moore's Creek for irrigation season of 1937.

9. Two tables showing Boise River at Diversion Dam, canal deliveries, tributary gain, seepage gain and net gain by months in acre feet and average daily flow in 24 hour second feet for the irrigation season of 1937.

10. Two tables for section 1 of Boise River showing river at Diversion Dam, canal deliveries, tributary gain, seepage gain, and net gain between Diversion Dam and Star by months in acre feet and average daily flow in 24 hour second feet for irrigation season of 1937.

11. Two tables for section 2 of Boise River showing river at Star, canal deliveries, tributary gain, seepage gain, and net gain between Star and Notus by months in acre feet and average daily flow in 24 hour second feet for irrigation season of 1937.

CHARTS
(Continued)

12. Table showing acreage under all canals in the Boise Valley.

13. Table for Boise Valley canals showing acre feet diverted, acres irrigated and acre feet per acre diverted for the season of 1937.

14. Table showing acre feet per acre diverted by 18 canals from Boise River for each irrigation season beginning 1915.

15. Summary table showing diversions from Boise River in acre feet, acre feet per acre, and the rate in miner's inches per acre for 18 Boise Valley canals for each month of the irrigation season during the years 1918 to 1937, inclusive; also, the per cent diverted during each month.

16. Chart showing average headgate duty of water for 18 Boise Valley canals.

17. Table showing total canal diversions and total discharge of drainage canals in Drainage District No. 2 for the irrigation season of 1937.

18. Summary table of return flow to Boise River between Moore's Creek and Notus beginning 1914.

19. Two tables showing total discharge of all drainage canals in Drainage Districts Nos. 3 and 4, for the irrigation season of 1937.

20. Revised area and capacity table for Arrowrock Reservoir.

21. Table showing additional decrees on Boise River, (Intervenors in the Stewart Decree), giving priority number, date and amount decreed.

22. Table showing change in point of diversion of decreed rights on Boise River.

23. Table showing transfers of decreed rights on Boise River.

24. Condensed table of Stewart Decree showing dates of priority and amounts decreed.

25. Stewart Decree grouped under canal headings.

26. Condensed table of Bryan Decree, as modified by Sutton Order, showing dates of priority and amounts decreed.

27. And 27-A. Reconstructed table of Stewart Decree, eliminating rights supplied by return flow.

...LL GROUPED UNDER CANAL HEADINGS.

Chart

Name of Canal		No	Date	Amount Sec. Ft.	Decreed Inches	Total Sec. Ft.
Canyon County Change in P.O.D. 29 " " " 30 Less " " " 92	Stewart Decree Additional Decree 35A Stewart Decree	35 35A 31	6-1-64 6-1-88	75.80 1.76 1.00 2.60 .50 - .37 - 7.17	3790 88 50 130 25 18 3585	50.77
Lemp Ditch Add. Dec.	" "	294	1885	6.00	300	6.00
Conway + Hemming	" "	48 64 113	6-1-76 6-1-77 6-1-81	2.60 .90 2.20	130 45 110	5.70
Thos Aiken	" "	63	6-1-77	5.20	260	5.20
Catlin + Mace	" "	5 52	6-1-68 6-1-71	2.86 7.86	143 393	10.72
Hart + Davis Less Change in P.O.D. 38 " " " " 40	" "	6 53 58	6-1-64 6-1-72 6-1-72	3.30 4.40 3.30 - 1.04	165 220 165 52	9.96
Graham + Gilbert	" "	12	6-1-65	4.40	220	4.40
Warm Springs Less Change in P.O.D. 33	" "	61 80 [illegible]	6-1-76 6-1-82 "	2.30 1.60 .44 .44 1.36 2.20 1.60 .72	115 80 22 22 68 110 80 36	9.22
Joplin	" "	87 115 116	6-1-82 6-1-89 6-1-89	.20 .66 1.20		2.06
Seven Suckers Change in P.O.D.	38 " 39 "			1.04	52	1.04
Phyllis	" " Bryan Decree	90 112 135 3 4	6-1-84 9-1-90 9-1-02 4-1-03 4-1-03	53.10 200.00 56.56 305.56 54.30	2655 10000 2828 15278 2715	670.50
Eureka No 1.	Stewart Decree	13	6-1-65	33.32	1666	33.32
Caldwell High Line	" "	34 44 77	6-1-66 6-1-69 10-29-80	15.40 37.20 27.60	770 1860 1380	80.20
Farmers Coop Ditch	" " Bryan Decree	69 86 103 129	[illegible]	10.00 20.00 40.00 83.50 153.75	500 1000 2000 4175 7687	317.25
Canyon Ditch Co Transfer 39/105	Stewart Decree	132 134 76 9	5-11-00 [illegible] [illegible] 6-1-65	10.88 3.54 12.22 .50	544 177 611 25	28.14
Siebenberg Less Transfer 105	" "	9 9	6-1-65 6-1-65	13.42 .50	671 25	12.92
Riverside Irrig. Dist. Additional Decree Change in P.O.D. 35	" " 116A 116B 116C Bryan Decree	88 94 95 124 130 133	6-1-83 [illegible] 7-25-87 [illegible] 10-1-88 6-1-01 8-15-82 6-1-90 6-1-90 6-1-90 4-1-10 4-1-10	12.00 20.00 4.00 80.00 20.00 70.00 [illegible] .72 .70 .40 2.44 [illegible] 77.70	600 1000 200 4000 1000 3500 [illegible] 36 35 20 [illegible] [illegible]	294.38

Name of Canal		No	Date	Amount Sec. Ft.	Decreed Inches	Total Sec. Feet
Pioneer Dixie Plus Transfer 41 Less " 45 " " 62	Stewart Decree	2 4 96	6-1-64 10-1-89	20.00 [illegible] [illegible] 20.34 [illegible]	1000 [illegible] [illegible] 1017 50	40.30
Eureka No 2 Transfer 47 " 62 " 85 Less " 96	" "	59 86 88 96	11-3-83 10-1-88 [illegible] 6-1-82	21.70 29.50 1.00 .88 .50 1.20	1085 1475 50 40 25 60	52.30
Upper Cen. Point Less Transfer 21 " Change in P.O.D. 21	" "	23 24 25 26 27	6-1-65 " "	3.20 2.40 3.92 1.60 1.80 .80 .50	160 120 196 80 90 40 25	11.42
Lower Center Point Less Change in P.O.D. 50 30	" "	[illegible] 20	6-1-65 6-1-65 6-1-79 6-1-85	2.88 3.20 3.20 3.60 4.00 6.40 2.88 [illegible] 6.40	144 160 160 180 200 320 144 [illegible] 320	16.90
Bowman + Swisher Change in P.O.D. 50 51 Less " " " 129	" "	19 20	6-1-65 "	2.88 2.40 [illegible]	144 [illegible] [illegible]	8.48
Mammon	" "	45 83 [illegible]	6-1-69 6-1-78 6-1-78	1.80 4.20 3.36	90 210 168	9.36
Haas Ditch	" "	39 20	6-1-65 6-1-65	8.54 8.80	427 420	17.34
Island High Line Add. Decrees	" "	114 114A 139	4-1-98 4-1-10 4-1-15	3.00 7.00 10.00	150 350 500	20.00
Larsen Baxter Lemp Change in P.O.D. 127	Add Decree	254A 127	6-1-85	.80 3.20	40 160	4.00
Boone Ditch	Stewart Decree	28 29		7.00 3.50 2.20	350 175 110	12.70
Andrews Ditch	" "	4 29 11 104 121 44	6-1-64 6-1-65 [illegible] 6-1-88 [illegible] 6-1-89	3.30 6.00 1.70 .90 2.50 8.50	165 300 85 45 125 425	23.50
Pat Mo Ditch	" "	[illegible]	[illegible] 8-1-81	[illegible] 1.50	[illegible] 85	11.96
O'Donnell Ditch	" "		3-1-88 3-1-89	1.60 .96	80 48	2.56

DRL.PV.

STEWART DECREE.

CHART 2

No.	Date	Name	Amt. Decreed Sec. Ft.	Amt. Decreed Inches
1	06-1-64	Thomas Davis	2.20	110
2	06-1-64	Jacobs Canal Co.	20.00	1060
3	06-1-64	Middleton Mill Ditch	12.50	640
4	06-1-64	Thomas Andrews	3.30	165
5	06-1-64	Catlin & Place	2.86	143
6	06-1-64	T.C. Catlin	3.30	165
7	06-1-64	C.C. Mineral	3.30	165
8	06-1-64	Pioneer Irrig. Ditch Co	20.00	1000
9	06-1-65	Seibenberg Ditch Co.	13.42	671
10	06-1-65	Allen Kitchester	1.20	60
11	06-1-65	J.F. Morgan	.66	33
12	06-1-65	Graham & Gilbert	4.40	220
13	06-1-65	Eureka Water Co.	33.32	1666
14	06-1-65	New Union Ditch Co	13.76	688
15	06-1-65	Boise Valley Irrig. Ditch	57.52	2729
16	06-1-65	Anderbaugh & Ross	9.20	460
17	06-1-65	Anderbaugh & Ross (Pump)	265.80	13290
18	06-1-65	Denver & Idaho Land Co.	.50	90
19	06-1-65	Martha Bowman	2.88	144
20	06-1-65	Wm. Bowman	6.40	320
21	06-1-65	G.W. Goss	3.90	195
22	06-1-65	Robert McGuire	3.20	160
23	06-1-65	C.W. Cooper	3.20	160
24	06-1-65	T.M. Portegal	2.40	120
25	06-1-65	Draper & Wells	3.94	197
26	06-1-65	Thomas J. Palmer	1.60	80
27	06-1-65	Noah W. Palmer	1.58	79
28	06-1-65	J.W. Tucker	7.00	350
29	06-1-65	Thomas Andrews	6.00	300
30	06-1-66	J. Pennell & R. Johnson	50.00	2500
31	06-1-66	William P. Kennedy	2.60	130
32	06-1-66	Pernille Pallesen	3.50	175
33	06-1-66	Boise City Canal Co	38.06	1903
34	06-1-66	Franklin Ditch Co.	15.40	770
35	06-1-67	Canyon Co. Water Co.	75.80	3720
36	06-1-68	Martha E. McCarthy	13.10	765
37	06-1-68	H.D. & Dora Goodman	3.70	185
38	06-1-68	T.T. Johnson	2.20	160
39	06-1-68	Ross, Allen, Pilley & Rice	8.54	427
40	06-1-68	S.S. Gray	1.40	70
41	06-1-68	John Plummer	1.80	90
42	06-1-64	Isaac Beckel	1.60	80
43	06-1-69	Frederick Ode	3.60	180
44	06-1-69	Thor Burnett	8.90	445
45	06-1-69	Pioneer Irrig. Ditch	35.42	1772

No.	Date	Name	Amt. Decreed Sec. Ft.	Amt. Decreed Inches
46	6-1-69	Pioneer Canal & Ditch Co	27.20	1360
47	6-1-69	T.K. Beane	3.50	175
48	6-1-70	W.T. Hamming	2.60	130
49	6-1-70	Pioneer Canal	25.72	1286
50	6-1-69	Barber Lumber Co	2.24	112
51	6-1-70	Thomas Andrews	1.30	65
52	6-1-71	Catlin & Place	7.86	393
53	6-1-71	Peter Nevens	1.80	90
54	6-1-71	Middleton Mill Ditch Co	33.70	1685
55	6-1-72	T.F. Morgan	.70	35
56	6-1-72	T.F. Morgan	1.40	70
57	6-1-72	Mary C. Perry	4.40	220
58	6-1-72	Edward H. Hart	3.30	165
59	06-1-74	T.W. Deane	2.20	110
60	06-1-75	Farmers Cooperative Ditch Co.	10.00	500
61	6-1-76	Thomas & Mary Clark	2.30	115
62	6-1-76	John Court	.45	22
63	6-1-77	Thomas Athens	5.20	260
64	6-1-77	W.H. Conway	.90	45
65	6-1-77	Middleton Water Co	114.00	5705
66	7-1-77	Pioneer Irrig. Dist. (Pump)	200.00	10000
67	5-1-78	Ranger Meridian Irrig. D	170.00	8500
68	06-1-78	John Plummer	4.20	210
69	06-1-78	John Plummer	3.36	166
70	06-1-78	Charles Allen	8.80	440
71	06-1-78	R.H. Stockton	4.40	220
72	6-1-79	New Dry Creek Ditch Co	31.32	1566
73	06-1-79	D. Mumford	4.00	200
74	06-1-80	Smith Stockton	1.76	88
75	6-1-80	Ashton Tenlin	2.60	130
76	10-20-80	Joseph Goble	.90	45
77	10-29-80	Franklin Ditch Co.	27.60	1380
78	6-1-82	Allen V. Webster	.90	45
79	6-1-82	Sonia Compton	.60	30
80	6-1-82	T.T. Decker	1.60	80
81	6-1-82	Sopora Tophin	3.40	170
82	6-1-82	J.M. Hutchinson	.44	22
83	6-1-82	Johnson	.44	22
84	6-1-82	Andrew J. Tophin	2.86	143
85	6-1-82	James L. Graham	2.20	110
86	6-1-83	Farmers Cooperative Ditch	20.00	1000
87	6-1-83	Andrew M. Tophin	.90	45
88	06-1-83	W.H. Black	12.00	600
89	11-9-83	Eagle Ditch Co No. 2	21.70	1085
90	6-1-84	Pioneer Irrig. District	53.10	2655

No.	Date	Name	Amt. Decreed Sec. Ft.	Amt. Decreed Inches
91	06-1-84	Riverside Irrig. Dist	20.00	1000
92	10-17-84	Settlers Canal Co.	99.06	4953
93	6-1-86	New Dry Creek Ditch	15.22	761
94	6-1-86	Thomas Davis	13.40	670
95	1-23-87	W.C. & E. Young	4.00	200
96	10-1-87	American Ditch Assoc.	47.80	2390
97	6-1-88	New Dry Creek Ditch Co.	7.86	393
98	6-1-88	A.L. Minter	4.00	200
99	6-1-88	Levi Smith	1.30	65
100	6-1-88	Charlotte Calhoun	1.40	70
101	6-1-88	Ed J. Linder	1.46	73
102	6-1-88	Lizzie Brevell	1.20	60
103	6-1-88	Jessie Wilson	1.40	70
104	06-1-88	Thomas Andrews	.90	45
105	7-1-88	Farmers Coop. Ditch Co.	50.00	2500
106	8-20-88	Ranger Meridian Irrig. D	370.84	18542
107	5-1-89	Chas. S. Miller	.06	3
108	5-1-89	Lemuel L. Moseley	.02	1
109	5-1-89	S.B.J. Otter & C.B. Taylor	2.40	120
110	5-1-89	South Boise Mutual Irrig Co	6.00	300
111	5-1-89	Estate of T.H. Gallagher	2.94	147
112	5-1-89	Hugh McDoherty	.05	2
113	5-1-89	Grace Gott	.10	5
114	5-1-89	Samuel A. Canfield	.03	1
115	6-1-89	Seneca Tenlin	.06	3
116	6-1-89	Sonora Tophin	1.20	60
117	9-1-90	Pioneer Irrig. District	200.00	10000
118	6-1-91	W.H. Conway	2.20	110
119	6-1-91	Thomas Davis	.54	27
120	8-1-91	Middleton Mill Ditch Co.	17.00	850
121	06-1-91	Thomas Andrews	3.50	175
122	6-1-91	Settlers Canal Co.	73.44	3672
123	6-1-91	Thomas Pitzer	.80	40
124	5-1-93	Riverside Irrig. District	80.00	4000
125	06-1-93	Ada Stockton	1.76	88
126	7-2-94	Farmers Union Ditch Co	110.00	5500
127	5-1-95	Charles Kerr & Tom Nash	1.00	50
128	7-1-95	Mathew Casey	.66	33
129	07-1-96	Farmers Coop. Ditch Co.	83.50	4173
130	10-1-99	Riverside Irrig. District	20.00	1000
131	3-23-00	New York Canal Co.	219.10	10955
132	5-17-00	Canyon Ditch Co.	10.00	500
133	06-1-01	Riverside Irrig. District	70.00	3500
134	10-25-01	Canyon Ditch Co.	6.34	277
135	4-1-02	Pioneer Irrig. District	56.34	2817

⊙ Indicates Rights supplied by return flow to River.

H.D. Gilman
Asst. Engr.

...ALL GROUPED UNDER CANAL HEADINGS.

Chart

Name of Canal		No.	Date	Amount Sec. Ft.	Decreed Inches	Total Sec. Ft.
Canyon County Change in P.O.D. 29 " " " 59 Less " " " 82 " " " 25	Stewart Decree Additional Decree Stewart Decree " "	35 35A 31	6-1-[illegible] 6-1-82	75.80 7.76 1.00 2.60 .50 -.38 -.77	3790 388 50 130 25 19 385	50.77
Lemp Ditch Add. D.	"	294	1885	6.00	300.	6.00
Conway & Hemming	"	48 64 113	6-1-76 6-1-77 6-1-81	2.60 .90 2.20	130 45 110	5.70
Thos Aiken	"	63	6-1-77	5.20	260	5.20
Catlin & Mace	"	5 52	6-1-64 6-1-71	2.86 7.86	143 393	10.72
Hart & Davis Less Change in P.O.D. 38, 39	"	6 53 58	6-1-64 6-1-72 6-1-72	3.30 4.40 3.30 — 1.04	165 220 165 52	9.96
Graham & Gilbert	"	12	6-1-65	4.40	220	4.40
Warm Springs Less Change in P.O.D. 73	"	61 80 [illegible] [illegible] [illegible] [illegible] [illegible] 134	6-1-76 6-1-82	2.30 1.60 [illegible] [illegible] 1.36 2.20 1.60 [illegible]	115 80 [illegible] [illegible] 68 110 80 36	9.22
Joplin	"	87 115 116	6-1-82 6-1-89 6-1-89	.30 .56 1.20		2.06
Seven Suckers Change in P.O.D. 38, 39	"			1.04	52	1.04
Phyllis	" " Bryan Decree	70 148 158 9 9	6-1-78 9-1-90 4-1-03 4-1-03	53.10 200.00 [illegible] 308.56 54.30	2655 10,000 [illegible] [illegible] 2715	670.50
Eureka No 1.	Stewart Decree	13	6-1-65	33.32	1666	33.32
Caldwell High Line	"	34 44 77	6-1-66 6-1-69 10-29-80	15.40 37.20 27.60	720 1860 1380	80.20
Farmers Coop Ditch	" " " Bryan Decree	69 86 103 129	[illegible]	16.00 20.00 [illegible] [illegible] [illegible]	800 1000 [illegible] [illegible] [illegible]	322.25
Canyon Ditch Co Transfer 38 " 105	Stewart Decree	132 134 76 9	[illegible]	10.99 3.34 1.2[illegible] .50	549 167 865 25	28.14
Siebenberg Less Transfer 105	" "	9 9	6-1-65 6-1-65	13.42 .50	671 25	12.92
Riverside Irrig. Dist. Additional Decree 116A, 116B, 116C Change in P.O.D. 35	" Bryan Decree	88 9[illegible] 95 124 130 133 134	6-1-83 [illegible] 7-23-87 [illegible] [illegible] 6-1-01 4-15-82 6-1-90 6-1-90 6-1-90 4-1-10 4-1-14	12.00 20.00 4.00 80.00 20.00 70.00 [illegible] .72 .70 .40 2.00 [illegible] 17.90	600 1000 200 4000 1000 3500 [illegible] 36 35 20 100 [illegible] 895	294.38

Name of Canal		No.	Date	Amount Sec. Ft.	Decreed Inches	Total Sec. Feet
Pioneer Dixie Plus Transfer Less "	Stewart Decree	[illegible]	[illegible]	30.00 [illegible] [illegible] [illegible] .60	1000 [illegible] [illegible] 1312 30	40.30
Eureka No 2 Transfer 47 " 62 " 85 Less " "	"	59 76 85 21 96	11-3-83 10-1-88 [illegible] 6-1-82	21.70 29.50 1.00 .80 .50 1.20	1085 1475 50 40 25 60	52.30
Upper Cen. Point Less Transfer 21 Change in P.O.D. 21	"	23 24 25 26 27	6-1-65 " "	3.20 2.40 3.94 1.60 1.50 .80 .50	160 120 197 80 75 40 25	11.42
Lower Center Point Less Change in P.O.D. 50, 30	"	[illegible] 20	6-1-65 6-1-65 6-1-69 6-1-72 6-1-75	2.88 3.20 3.20 1.60 4.00 [illegible] [illegible] [illegible]	144 160 160 180 200 320 145 144 320	16.90
Bowman & Swisher Change in P.O.D. 50 Less " " " 56, 127	"	19 20	6-1-65 "	2.88 6.40 [illegible]	144 358	8.48
Mammon	"	42 64 [illegible]	6-1-69 6-1-72 6-1-73	1.80 4.20 3.36	90 210 168	9.36
Haas Ditch	"	39 40	6-1-65 6-1-66	8.54 8.80	427 440	17.34
Island High Line Add. Decrees	"	71A 71B 134	4-1-79 4-1-10 4-1-15	3.00 7.00 10.00	150 350 500	20.00
Larsen-Baxter-Lemp Change in P.O.D. 127	Add. Decree	254 127	6-1-88	.80 3.20	40 160	4.00
Boone Ditch	Stewart Decree	28 29 30		7.00 3.50 2.20	350 175 110	12.70
Andrews Ditch	"	4 49 57 104 121 4A	6-1-64 6-1-65 [illegible] 6-1-88 6-1-89 6-1-89	3.30 6.00 1.70 .90 [illegible] 8.50	165 300 85 45 225 425	23.50
Par Mo Ditch	"	[illegible]	[illegible] 6-1-81	[illegible] .30 1.30	[illegible] 40 65	11.96
O'Donnell Ditch	[illegible]		3-1-83	1.60 .30	80 [illegible]	2.90

STEWART DECREE.

CHART 2B.

No.	Date	Name	Amt. Decreed Sec. Ft.	Amt. Decreed Inches
1	06-1-64	Thomas Davis	2.20	110
2	06-1-64	Jacobs Canal Co.	20.00	1000
3	06-1-64	Middleton Mill Ditch	12.80	640
4	06-1-64	Thomas Andrews	3.30	165
5	06-1-64	Catlin & Mace	2.86	143
6	06-1-64	F.C. Catlin	3.30	165
7	06-1-64	C.C. Hurd	3.30	165
8	06-1-64	Pioneer Dairy Ditch Co	2.000	1000
9	06-1-65	Seibenberg Ditch Co.	13.42	671
10	06-1-65	Ellen Kitchster	1.20	60
11	06-1-65	J.F. Morgan	.66	33
12	06-1-65	Graham & Gilbert	4.40	220
13	06-1-65	Eureka Water Co.	33.32	1666
14	06-1-65	New Union Ditch Co	13.76	688
15	06-1-65	Rose Valley Irrig. Ditch	54.58	2729
16	06-1-65	Ridenbaugh & Rossi	9.20	460
17	06-1-65	Ridenbaugh & Ross (Pump)	26.580	1329
18	06-1-65	Denver Chicago Land Co	.80	40
19	06-1-65	Martha Bowman	2.88	144
20	06-1-65	Virgil Bowman	6.40	320
21	06-1-65	G.W. Goss	2.90	145
22	06-1-65	Robert McClure	3.20	160
23	06-1-65	C.W. Cooper	3.20	160
24	06-1-65	J.M. Rohrer	2.40	120
25	06-1-65	Draper & Wells	3.84	192
26	06-1-65	Thomas J. Palmer	1.60	80
27	06-1-65	Noah W. Palmer	1.58	79
28	06-1-65	J.W. Tucker	7.00	350
29	06-1-65	Thomas Andrews	6.00	300
30	05-1-66	J. Parratt & E. Johnson	50.00	2500
31	06-1-66	William P. Kennedy	2.60	130
32	06-1-66	Manville & Loomis	3.50	175
33	6-1-66	Boise City Canal Co	38.00	1903
34	6-1-66	Franklin Ditch Co.	15.40	770
35	6-1-67	Canyon Co. Water Co.	75.60	3720
36	6-1-68	Martha E. McCarthy	19.10	705
37	6-1-68	H.D.E. Dora Goodman	3.70	185
38	6-1-68	T.T. Johnson	3.20	160
39	6-1-68	Ross, Allen, Riley & Hoss	8.54	427
40	6-1-68	S.S. Gray	1.40	70
41	6-1-69	John Mannon	1.80	90
42	6-1-69	Isaac Beckel	1.60	80
43	06-1-69	Frederick Cole	3.60	180
44	06-1-69	Prior Burnett	8.90	445
45	06-1-69	Pioneer Irrigation Ditch Co.	34.54	1727
46	6-1-69	Water Power Ditch Co	37.20	1860
47	06-1-69	T.M. Boone	3.50	175
48	6-1-70	W.J. Hamming	2.60	130
49	6-1-70	Pioneer Canal	25.72	1286
50	6-1-69	Barber Lumber Co.	2.24	112
51	06-1-70	Thomas Andrews	1.30	65
52	6-1-71	Catlin & Mace	7.86	393
53	6-1-71	Peter Nevens	1.80	90
54	6-1-71	Middleton Mill Ditch Co	33.70	1685
55	6-1-72	J.F. Morgan	.70	35
56	6-1-72	J.F. Morgan	1.40	70
57	6-1-72	Mary C. Davis	4.40	220
58	6-1-72	Edward H. Hart	3.30	165
59	06-1-74	T.M. Boone	2.20	110
60	06-1-75	Farmers Cooperative D Co	10.00	500
61	6-1-76	Thomas & Mary Clark	2.30	115
62	6-1-76	John Coert	.45	22
63	6-1-77	Thomas Aitkens	5.20	260
64	6-1-77	W.H. Conway	.90	45
65	6-1-77	Middleton Ditch Co	114.08	5704
66	07-1-77	Pioneer Irrigating	200.00	10000
67	5-1-78	Nampa Meridian Irrig. D	170.00	8500
68	06-1-78	John Mannon	4.20	210
69	06-1-78	John Mannon	3.36	168
70	06-1-78	Charles Allen	8.80	440
71	06-1-78	R.H. Stockton	4.40	220
72	6-1-79	New Dry Creek Ditch Co	31.82	1666
73	06-1-79	D. Mumford	4.00	200
74	06-1-80	Smith Stockton	1.76	88
75	6-1-80	Ishem Jenkins	2.54	127
76	10-20-80	Joseph Goble	.90	45
77	10-29-80	Franklin Ditch Co.	27.60	1380
78	6-1-82	Allen V. Webster	.90	45
79	6-1-82	Soule Campbell	.60	30
80	6-1-82	T.T. Decker	1.60	80
81	6-1-82	Sopera Jenkins	3.40	170
82	6-1-82	S.M. Hutchinson	.44	22
83	6-1-82	Johnson	.44	22
84	6-1-82	Andrew J. Austin	2.86	143
85	6-1-82	James L. Graham	2.20	110
86	06-1-83	Farmers Cooperative Ditch	20.00	1000
87	6-1-83	Francis M. Jenkins	.90	45
88	06-1-83	W.T. Black	12.00	600
89	01-9-83	Eureka Ditch Co No. 2	21.76	1088
90	6-1-84	Pioneer Irrig. District	53.10	2655
91	06-1-84	Riverside Irrig. Dist	20.000	1000
92	10-17-84	Settlers Canal Co.	99.06	4953
93	6-1-86	New Dry Creek Ditch	15.22	761
94	6-1-86	Thomas Davis	13.40	670
95	01-23-87	W.C. & E. Young	4.00	200
96	10-1-87	Riverside Ditch Assoc.	47.80	2390
97	6-1-88	New Dry Creek Ditch Co	7.86	393
98	6-1-88	H.L. Linder	4.00	200
99	6-1-88	Levi Smith	1.30	65
100	6-1-88	Charlotte Calhoun	1.40	70
101	6-1-88	Ed. Thrasher	1.46	73
102	6-1-88	Lizzie Everett	1.20	60
103	6-1-88	Jessie Wilson	1.40	70
104	06-1-88	Thomas Andrews	.90	45
105	07-1-88	Farmers Co-op Ditch Co.	50.00	2500
106	8-20-88	Nampa Meridian Irrig D	3708.84	18542
107	5-1-89	Chas. S. Miller	.06	3
108	5-1-89	Lemmis L. Moseley	.02	1
109	5-1-89	S.B.T. Otter & C.B. Taylor	2.40	120
110	5-1-89	South Boise Mutual Irrig Co	6.00	300
111	5-1-89	Estate of T.H. Gallagher	2.94	147
112	5-1-89	Hans H. Fogarty	.05	2
113	5-1-89	Grace Coll	.10	5
114	5-1-89	Samuel M. Crawford	.03	1
115	6-1-89	Seneca Taylor	.06	3
116	6-1-89	Seneca Taylor	1.20	60
117	9-1-90	Pioneer Irrig. District	200.00	10000
118	6-1-91	W.H. Conway	2.20	110
119	6-1-91	Thomas Davis	.54	27
120	6-1-91	Middleton Mill Ditch Co.	17.00	850
121	06-1-91	Thomas Andrews	3.50	175
122	6-1-91	Settlers Canal Co.	73.44	3672
123	6-1-91	Thomas Aitken	.80	40
124	05-1-93	Riverside Irrig. District	80.00	4000
125	06-1-93	Ruth Stockton	1.76	88
126	7-2-93	Farmers Union Ditch Co	110.00	5500
127	5-1-95	Charles Nourse & Tim Nash	1.00	50
128	7-1-95	Nathan Casey	.66	33
129	07-1-96	Farmers Coop. Ditch Co.	87.30	4973
130	10-1-97	Riverside Irrig. District	20.00	1000
131	3-23-00	New York Canal Co.	219.10	10955
132	5-17-00	Canyon Ditch Co.	12.00	600
133	06-1-01	Riverside Irrig. District	70.00	3500
134	10-25-01	Canyon Ditch Co.	5.54	277
135	4-1-02	Riverside Irrig. District	56.34	2817

⊙ Indicates Rights supplied by return flow to River.

All Diversions Left Bank

REPORT ON

CANAL DELIVERIES FROM

BOISE RIVER

AND

DIFFERENT FEATURES AFFECTING THESE DELIVERIES FOR THE IRRIGATION SEASON OF 1958

(DATA FOR THIS REPORT GATHERED BY THE WRITER WHILE ACTING IN THE CAPACITY OF WATERMASTER OF THE BOISE RIVER AND SPECIAL DEPUTY IN CHARGE OF THE DISTRIBUTION OF STORAGE WATER FROM ARROWROCK AND ANDERSON RANCH RESERVOIRS)

(COOPERATIVE DATA ALSO FURNISHED BY THE UNITED STATES BUREAU OF RECLAMATION AND THE UNITED STATES GEOLOGICAL SURVEY)

BY

EDWIN B. KARN

WATERMASTER, BOISE RIVER

C H A R T S

1. Map of Boise River, showing canal diversions.

2. 2-L to 2-Q show the natural flow of the Boise River by days for the period from 1941 to date. The same information for the period 1895 to 1940 is shown in previous reports.

3. Shows mean daily flow of Boise River for a 60 year period.

4. And 4-A show monthly and annual flow of Boise River in acre-feet, for the irrigation years from 1894-95 to date.

5. 5-A, 5-B, 5-C, 5-D, 5-E, daily discharge of all canals (Sections 1 and 2)for irrigation season.

6. Summary chart in acre-feet showing monthly and total canal diversions for the irrigation season.

7. Summary chart showing total annual diversions for all Boise Valley canals beginning 1940. The same information beginning 1915 is shown in previous reports.

8. 8-A and 8-B show daily discharge of all principal tributary streams feeding water to Boise River below More's Creek for irrigation season.

9. Two charts showing Boise River at Diversion Dam, canal deliveries, tributary gain, seepage gain and net gain, by months in acre-feet, and average daily flow in 24-hour second feet for the irrigation season.

10. Two charts for Section 1 of Boise River showing river at Diversion Dam, canal deliveries, tributary gain, seepage gain and net gain between Diversion Dam and Star, by months in acre-feet and average daily flow in 24-hour second feet, for irrigation season.

11. Two charts for Section 2 of Boise River showing river at Star, canal deliveries, tributary gain, seepage gain and net gain between Star and Notus, by months in acre-feet, and average daily flow in 24-hour second feet, for irrigation season.

12. Shows acreage under all canals in the Boise Valley.

13. Shows acre-feet per acre diverted by Boise Valley canals for each irrigation season beginning 1939.

C H A R T S

(Continued)

17. Shows total discharge of drainage canals in Drainage District No. 2 for the irrigation season.

18. Two charts showing total discharge of all drainage canals in Drainage Districts Nos. 3 and 4 for the irrigation season.

19. Summary chart of return flow to Boise River between the Government Diversion Dam and Notus for 15 year period.

20. Shows distribution of drainage water to various canals.

21. Shows Intervenor Decrees on Boise River (Intervenors in the Stewart Decree), giving priority number, date and amount decreed.

22. Shows changes in point of diversion of decreed rights on Boise River.

23. 23-A, show transfers of decreed rights on Boise River.

24. Condensed chart of Stewart Decree showing dates of priority and amounts decreed.

25. 25-A, 25-B, 25-C, 25-D, 25-E, 25-F, 25-G, 25-H are charts showing the Stewart, Intervenors' and Bryan Decrees grouped under canal headings.

26. 26-A and 26-B are charts in second feet showing decreed rights (Stewart Decree) and natural flow at Diversion Dam necessary to fill same. 26-C is a chart in second feet showing decreed rights (Bryan Decree) and natural flow in second feet necessary at Diversion Dam to fill same.

STEWART DECREE

CHART NO. 24

A. V. TALLMAN
IRRIG. ENGR.

NO.	DATE	NAME	AMOUNT DECREED SEC. FT.	INCHES
1.	X6-1-64	THOMAS CAVIS	2.20	110
2.	X6-1-64	JACOBS CANAL CO.	20.00	1000
3.	X6-1-64	MIDDLETON MILL DITCH	12.80	640
4.	X6-1-64	THOMAS ANDREWS	3.30	165
5.	X6-1-64	CATLIN & MACE	2.86	143
6.	X6-1-64	T. C. CATLIN	3.30	165
7.	X6-1-64	J. C. HAVIRI	3.30	165
8.	X6-1-64	PIONEER DIXIE DITCH CO.	20.00	1000
9.	X6-1-65	SILBENBERG DITCH CO.	13.42	671
10.	X6-1-65	ALLEN V. WEBSTER	1.20	60
11.	X6-1-65	J. F. YARYAN	.66	33
12.	X6-1-65	GRAHAM & GILBERT	4.40	220
13.	X6-1-65	EUREKA WATER CO.	33.32	1666
14.	X6-1-65	NEW UNION DITCH CO.	13.76	688
15.	X6-1-65	BOISE VALLEY IRRIG. DITCH CO.	54.58	2729
16.	X6-1-65	RIGENBAUGH & ROSSI	9.20	460
17.	X6-1-65	RIGENBAUGH & ROSSI (POWER)	265.80	13290
18.	X6-1-65	DENVER & IDAHO LAND CO.	.80	40
19.	X6-1-65	MARTHA BOWMAN	2.98	144
20.	X6-1-65	BIRD BOWMAN	6.40	320
21.	X6-1-65	G. W. GESS	2.90	145
22.	X6-1-65	ROBERT MCGUIRE	3.20	160
23.	X6-1-65	O. W. COOPER	3.20	160
24.	X6-1-65	J. W. ROLAND	2.40	120
25.	X6-1-65	DRAPER & WELLS	3.94	197
26.	X6-1-65	THOMAS J. PALMER	1.60	80
27.	X6-1-65	NOAH W. PALMER	1.56	78
28.	X6-1-65	J. N. TUCKER	7.00	350
29.	X6-1-65	THOMAS ANDREWS	6.00	300
30.	X6-1-65	J. PERRAULT & R. JOHNSON	50.00	2500
31.	X6-1-66	WILLIAM P. KENNEDY	2.60	130
32.	X6-1-66	MANVILLE & LEONARD	3.50	175
33.	6-1-66	BOISE CITY CANAL CO.	38.06	1903
34.	6-1-66	FRANKLIN DITCH CO.	15.40	770
35.	6-1-67	CANYON CO. WATER CO.	75.80	3790
36.	6-1-68	MARTHA E. MCCARTHY	14.10	705
37.	6-1-68	N. L. & FORA GOODMAN	3.70	185
38.	X6-1-68	T. T. JOHNSON	3.20	160
39.	X6-1-68	ROSS, ALLEN, CILLEY & ROSS	8.54	427
40.	6-1-68	S. S. GRAY	1.40	70
41.	X6-1-69	JOHN MANNON	1.80	90
42.	6-1-69	ISAAC BEDAL	1.60	80
43.	X6-1-69	FREDERICH ODE	3.60	180
44.	X6-1-69	PRIOR BURNETT	8.50	425
45.	X6-1-69	PIONEER DIXIE DITCH CO.	35.44	1772
46.	6-1-69	MASON CREEK DITCH CO.	37.20	1860
47.	X6-1-69	T. W. BOOTE	3.50	175
48.	6-1-70	W. J. HAWKINS	2.60	130
49.	6-1-70	PIONEER CANAL	25.72	1286
50.	6-1-69	BARBER LUMBER CO.	2.24	112
51.	X6-1-70	THOMAS ANDREWS	1.30	65
52.	6-1-71	CATLIN & MACE	7.86	393
53.	6-1-71	PETER REEVES	1.80	90
54.	6-1-71	MIDDLETON MILL DITCH CO.	33.70	1685
55.	6-1-72	J. F. YARYAN	.70	35
56.	6-1-72	J. F. YARYAN	1.40	70
57.	6-1-72	MARY C. DAVIS	4.40	220
58.	6-1-72	EDWARD N. HART	3.30	165
59.	X6-1-74	J. W. BOOTE	2.20	110
60.	X6-1-75	FARMERS COOPERATIVE DITCH CO.	10.00	500
61.	6-1-76	EDWARD & MARY CLARK	2.30	115
62.	6-1-76	JOHN CECIL	.44	22
63.	6-1-77	THOMAS AIKENS	5.20	260
64.	6-1-77	W. H. CONWAY	.60	45
65.	6-1-77	MIDDLETON WATER CO.	114.08	5704
66.	7-1-77	PERRAULT & JOHNSON (POWER)	200.00	10000
67.	5-1-78	NAMPA-MERIDIAN IRRIG. DIST.	170.00	8500
68.	X6-1-78	JOHN MANNON	4.20	210
69.	X6-1-78	JULIA MANNON	3.36	168
70.	X6-1-78	CHARLES ALLEN	8.80	440
71.	X6-1-78	R. H. STOCKTON	4.40	220
72.	6-1-77	NEW ERY CREEK DITCH CO.	31.32	1566
73.	X6-1-79	C. MANFORT	4.00	200
74.	X6-1-80	SMITH STOCKTON	1.76	88
75.	6-1-80	ISHAM JOPLIN	2.40	120
76.	10-20-80	JOSEPH GOBLE	.90	45
77.	10-29-80	FRANKLIN DITCH CO.	27.60	1380
78.	6-1-82	ALLEN V. WEBSTER	.90	45
79.	6-1-82	SUSIE CAMPBELL	.60	30
80.	6-1-82	J. T. BARBER	1.80	90
81.	6-1-82	SONORA JOPLIN	3.40	170
82.	6-1-82	S. W. HUTCHINSON	.44	22
83.	6-1-82	JOHNSON	.44	22
84.	6-1-82	ANDREW J. JOPLIN	2.66	142
85.	6-1-82	JAMES L. GRAHAM	2.20	110
86.	X6-1-83	FARMERS COOP. DITCH	20.00	1000
87.	6-8-83	FRANCIS M. JOPLIN	.90	45
88.	X6-1-83	W. A. BLACK	12.00	600
89.	X11-9-83	EUREKA DITCH CO. NO. 2	21.70	1085
90.	6-1-84	PIONEER IRRIG. DIST.	58.10	2615
91.	X6-1-84	RIVERSIDE IRRIG. DIST.	20.00	1000
92.	10-17-84	SETTLERS CANAL CO.	90.06	4953
93.	6-1-86	NEW ERY CREEK DITCH	15.22	761
94.	6-1-86	THOMAS DAVIS	13.40	670
95.	X1-23-87	WM. C., L. & E. YOUNG	4.00	200
96.	X10-1-87	AMERICAN DITCH ASSOC.	47.80	2390
97.	6-1-88	NEW ERY CREEK DITCH CO.	7.86	393
98.	6-1-88	A. V. LINDER	4.00	200
99.	6-1-88	LEVI SMITH	1.30	65
100.	6-1-88	CHARLOTTE CALHOUN	1.40	70
101.	6-1-88	ED. J. LINDER	1.46	73
102.	6-1-88	LIZZIE EVERETT	1.20	60
103.	6-1-88	JESSIE WILSON	1.40	70
104.	X6-1-88	THOMAS ANDREWS	.90	45
105.	X7-1-88	FARMERS CO-OP DITCH CO.	50.00	2500
106.	8-20-88	NAMPA-MERIDIAN IRRIG. DIST.	370.24	18512
107.	5-1-89	CHAS. S. MILLER	.06	3
108.	5-1-89	LOWRIE S. HOSELEY	.02	1
109.	5-1-89	S. J. UTTER & C. E. TAYLOR	2.40	120
110.	5-1-89	SOUTH BOISE MUTUAL IRRIG. CO.	6.00	300
111.	5-1-89	ESTATE OF J. H. GALLAGHER	2.94	147
112.	5-1-89	ANNA H. FOLARTY	.06	2
113.	5-1-89	GRACE CALL	.10	5
114.	5-1-89	SAMUEL H. CANFIELD	.03	1
115.	6-1-89	SONORA JOPLIN	.06	3
116.	6-1-89	SONORA JOPLIN	1.20	60
117.	5-1-90	PIONEER IRRIG. DISTRICT	200.00	10000
118.	6-1-91	W. H. CONWAY	2.20	110
119.	6-1-91	THOMAS DAVIS	.54	27
120.	6-1-91	MIDDLETON MILL DITCH CO.	17.00	850
121.	X6-1-91	THOMAS ANDREWS	3.50	175
122.	6-1-91	SETTLERS CANAL CO.	73.41	3672
123.	6-1-91	THOMAS AIKEN	.80	40
124.	X5-1-93	RIVERSIDE IRRIG. DIST.	80.00	4000
125.	X6-1-94	R. H. STOCKTON	1.76	88
126.	7-2-94	FARMERS UNION DITCH CO.	110.00	5500
127.	5-1-95	CHARLES REIN & JAKE KLOUH	1.00	50
128.	7-1-95	MATHEW CASEY	.66	33
129.	X7-1-96	FARMERS COOP. DITCH CO.	83.50	4175
130.	X10-1-99	RIVERSIDE IRRIG. DIST.	20.00	1000
131.	3-23-00	NEW YORK CANAL CO.	219.10	10955
132.	X5-17-00	CANYON DITCH CO.	10.60	500
133.	X6-1-01	RIVERSIDE IRRIG. DIST.	70.00	3500
134.	X10-25-01	CANYON DITCH CO.	5.54	277
135.	1-1-01	PIONEER IRRIG. DIST.	56.34	2817

Y INDICATES RIGHTS SUPPLIED BY RETURN FLOW TO RIVER

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS — CHART NO. 2[illegible]

NAME OF CANAL	CHANGE IN P. OF D.	PRIORITY	NO.	DATE	AMOUNT DECREED: STEWART DECREE	INTERVENORS: STEWART DECREE	INTERVENORS: BRYAN DECREE	INCHES	TOTAL SEC. FT.
[illegible]			80	6-1-1894	43.10			2055	
			117	6-1-1895	200.00			10000	
			135	1-1-1901	50.34			2517	
				3-1-1905			305.56	15328	
				1-1-1908			54.50	2725	673.20
[illegible] NO. 4			19	6-1-1905	31.32			1564	33.32
[illegible] [illegible]			31	6-1-1890	15.40			770	
			40	6-1-1899	37.20			1761	
			77	10-29-1910	27.61			1380	
	2/*				1.20*			50*	77.30
FARMERS CO-OP [illegible]			60	6-1-1895	10.00			500	
			76	6-1-1898	20.00			1000	
			103	7-1-1899	50.00			2500	
			125	7-1-1906	80.00			4000	
				4-1-1908			154.45	7722	
		717	9	6-1-1895	.64			32	318.32
CANYON CITY [illegible]			17	1-17-1900	10.00			500	
			134	10-25-1901	5.04			252	
		96	90	10-1-1887	12.50			625	
		105	9	6-1-1895	1.50			75	69.16
STELLBOUND			4	6-1-1895	13.42			671	
		104*	7	6-1-1895	.50*			25*	
		717*	4	6-1-1895	.64*			32*	17.20
[illegible]			58	6-1-1893	12.00			600	
			91	6-1-1894	20.00			1000	
			96	1-20-1897	1.00			50	
			121	6-1-1898	80.00			4000	
			130	10-1-1899	20.00			1000	
			138	6-1-1901	60.00			3000	
			77-A	4-15-1902		9.74		1[illegible]7	
			116-A	6-1-1900		.72		36	
			116-B	6-1-1900		.14		7	
			116-C	6-1-1900		.60		30	
				1-1-1901			63.75	3188	
				4-1-1911			17.73	887	
		648*	91	6-1-1893	8.40*			420*	
		650*	96	6-1-1893	.70*			35*	
		651*	98	6-1-1893	.60*			30*	
	5				2.00			100	
	17*		84	6-1-1893	4.20*			210*	27[illegible]

* SUBJECT

REPORT ON
CANAL DELIVERIES FROM
BOISE RIVER
AND
DIFFERENT FEATURES AFFECTING THESE
DELIVERIES FOR THE IRRIGATION SEASON
OF 1988

(DATA FOR THIS REPORT GATHERED BY THE WRITER WHILE ACTING IN THE CAPACITY OF WATERMASTER OF THE BOISE RIVER.)

(COOPERATIVE DATA ALSO FURNISHED BY THE UNITED STATES BUREAU OF RECLAMATION.)

BY
LEE SISCO
WATERMASTER, BOISE RIVER

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STEWART DECREE

CHART NO. 1

BOISE RIVER

NUMBER	DATE	NAME	AMOUNT DECREED SEC. FT.	AMOUNT DECREED INCHES	DEPT. OF WATER ADMINISTRATION
1	6-1-1864	THOMAS DAVIS	2.20	110	63-0120
2	6-1-1864	JACOBS CANAL CO.	20.00	1000	63-0123
3	6-1-1864	MIDDLETON MILL DITCH	12.80	640	63-0124
4	6-1-1864	THOMAS ANDREWS	3.30	165	63-0127
5	6-1-1864	CATLIN & MACE	2.86	143	63-0132
6	6-1-1864	T. C. CATLIN	3.30	165	63-0134
7	6-1-1864	C. C. HAVIRD	3.30	165	63-0135
8	9-1-1864	PIONEER DIXIE DITCH CO.	20.00	1000	63-0136
9	6-1-1865	SIEBENBERG DITCH CO.	13.42	671	63-0138
10	6-1-1865	ALLEN V. WEBSTER	1.20	60	63-0139
11	6-1-1865	J. F. YARYAN	.66	33	63-0141
12	6-1-1865	GRAHAM & GILBERT	4.40	220	63-0144
13	6-1-1865	EUREKA WATER CO.	33.32	1666	63-0145
14	6-1-1865	NEW UNION DITCH CO.	13.76	688	63-0146
15	6-1-1865	BOISE VALLEY IRRIGATION DITCH CO.	54.58	2729	63-0147
16	6-1-1865	RIDENBAUGH & ROSSI	9.20	460	63-0148
17	6-1-1865	RIDENBAUGH & ROSSI (POWER)	265.80	13290	63-0149
18	6-1-1865	DENVER & IDAHO LAND CO.	.80	40	63-0150
19	6-1-1865	MARTHA BOWMAN	2.88	144	63-0151
20	6-1-1865	BIRD BOWMAN	6.40	320	63-0152
21	6-1-1865	G. W. GESS	2.90	145	63-0153
22	6-1-1865	ROBERT MCGUIRE	3.20	160	63-0154
23	6-1-1865	C. W. COOPER	3.20	160	63-0155
24	6-1-1865	J. W. ROLAND	2.40	120	63-0156
25	6-1-1865	DRAPER & WELLS	3.94	197	63-0157
26	6-1-1865	THOMAS J. PALMER	1.60	80	63-0158
27	6-1-1865	NOAH W. PALMER	1.58	79	63-0159
28	6-1-1865	J. N. TUCKER	7.00	350	63-0160
29	6-1-1865	THOMAS ANDREWS	6.00	300	63-0128
30	5-1-1866	J. PERRAULT & R. JOHNSON	50.00	2500	63-0161
31	6-1-1866	WILLIAM P. KENNEDY	2.60	130	63-0163
32	6-1-1866	MANVILLE & LEONARD	3.50	175	63-0164
33	6-1-1866	BOISE CITY CANAL CO.	38.06	1903	63-0165
34	7-3-1866	FRANKLIN DITCH CO.	15.40	770	63-0166
35	6-1-1867	CANYON COUNTY WATER CO.	75.80	3790	63-0168
36	6-1-1868	MARTHA E. MCCARTY	14.10	705	63-0169
37	6-1-1868	H. D. & DORA GOODMAN	3.70	185	63-0170
38	6-1-1868	T. T. JOHNSON	3.20	160	63-0171
39	6-1-1868	ROSS, ALLEN, DILLEY & ROSS	8.54	427	63-0172
40	6-1-1868	S. S. GRAY	1.40	70	63-0173
41	6-1-1869	JOHN MAMMON	1.80	90	63-0174
42	6-1-1869	ISAAC BEDAL	1.60	80	63-0176
43	6-1-1869	FREDERICK ODE	3.60	180	63-0177
44	6-1-1869	PRIOR BURNETT	8.50	425	63-0178
45	6-1-1869	PIONEER DIXIE DITCH CO.	35.44	1772	63-0137

STEWART DECREE

CHART NO. 1

BOISE RIVER

NUMBER	DATE	NAME	AMOUNT DECREED SEC. FT.	AMOUNT DECREED INCHES	DEPT. OF WATER ADMINISTRATION
46	6-1-1869	MASON CREEK DITCH CO.	37.20	1860	63-0179
47	6-1-1869	T. W. BOONE	3.50	175	63-0180
48	6-1-1870	W. J. HAMMING	2.60	130	63-0182
49	6-1-1870	PIONEER CANAL	25.72	1286	63-0183
50	6-1-1870	BARBER LUMBER CO.	2.24	112	63-0184
51	6-1-1870	THOMAS ANDREWS	1.30	65	63-0129
52	6-1-1871	CATLIN & MACE	7.86	393	63-0133
53	6-1-1871	PETER MEEVES	1.80	90	63-0185
54	6-1-1871	MIDDLETON MILL DITCH CO.	33.70	1685	63-0125
55	6-1-1872	J. F. YARYAN	.70	35	63-0142
56	6-1-1872	J. F. YARYAN	1.40	70	63-0143
57	6-1-1872	MARY C. DAVIS	4.40	220	63-0186
58	6-1-1872	EDWARD N. HART	3.30	165	63-0187
59	6-1-1874	T. W. BOONE	2.20	110	63-0181
60	6-1-1875	FARMERS COOPERATIVE DITCH CO.	10.00	500	63-0188
61	6-1-1876	EDWARD & MARY CLARK	2.30	115	63-0192
62	6-1-1876	JOHN CECIL	.44	22	63-0193
63	6-1-1877	THOMAS AIKENS	5.20	260	63-0194
64	6-1-1877	W. H. CONWAY	.90	45	63-0196
65	6-1-1877	MIDDLETON WATER CO.	114.08	5704	63-0198
66	7-1-1877	PERRAULT & JOHNSON (POWER)	200.00	10000	63-0162
67	5-1-1878	NAMPA MERIDIAN IRRIGATION DISTRICT	170.00	8500	63-0199
68	6-1-1878	JOHN MAMMON	4.20	210	63-0175
69	6-1-1878	JULIA MAMMON	3.36	168	63-0201
70	6-1-1878	CHARLES ALLEN	8.80	440	63-0202
71	6-1-1878	R. H. STOCKTON	4.40	220	63-0203
72	6-1-1879	NEW DRY CREEK DITCH CO.	31.32	1566	63-0205
73	6-1-1879	D. MUMFORD	4.00	200	63-0208
74	6-1-1880	SMITH STOCKTON	1.76	88	63-0209
75	7-1-1880	ISHAM JOPLIN	2.40	120	63-0210
76	10-20-1880	JOSEPH GOBLE	.90	45	63-0211
77	10-29-1880	FRANKLIN DITCH CO.	27.60	1380	63-0167
78	6-1-1882	ALLEN V. WEBSTER	.90	45	63-0140
79	6-1-1882	SUSIE CAMPBELL	.60	30	63-0212
80	6-1-1882	J. T. BARBER	1.60	80	63-0213
81	6-1-1882	SONORA JOPLIN	3.40	170	63-0214
82	6-1-1882	S. W. HUTCHINSON	.44	22	63-0217
83	6-1-1882	JOHNSON	.44	22	63-0218
84	6-1-1882	ANDREW J. JOPLIN	2.86	143	63-0219
85	6-1-1882	JAMES L. GRAHAM	2.20	110	63-0220
86	6-1-1883	FARMERS COOPERATIVE DITCH CO.	20.00	1000	63-0189
87	6-1-1883	FRANCIS M. JOPLIN	.90	45	63-0221
88	6-1-1883	W. A. BLACK	12.00	600	63-0222
89	11-9-1883	EUREKA DITCH CO. NO. 2	21.70	1085	63-0223
90	6-1-1884	PIONEER IRRIGATION DISTRICT	53.10	2655	63-0371

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 3

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY NO.	PRIORITY DATE	AMOUNT DECREED STEWART DECREE	INTERVENORS STEWART DECREE	BRYAN DECREE	INCHES	TOTAL SEC. FT.
CALDWELL HIGH LINE			34	6-1-1866	15.40			770	
			46	6-1-1869	37.20			1860	
			77	10-29-1880	27.60			1380	
	29*		46	6-1-1869	1.00*			50*	79.20
CAMPBELL (CANYON DITCH CO.)			132	5-17-1900	10.00			500	
			134	10-25-1901	5.54			277	
		38	96	10-1-1887	12.10			605	
		105	9	6-1-1865	.50			25	28.14
CANYON COUNTY			35	6-1-1867	75.80			3790	
			35-A	6-1-1867		1.76 ✗		88	
	29		46	6-1-1869	1.00			50	
	36*		35	6-1-1867	.38*			19*	
	54*		35	6-1-1867	1.11*			55.5*	
	59		31	6-1-1866	2.60 ✗			130	
	75		35	6-1-1867	.50			25	
	147		35	6-1-1867	.20 ✗			10	80.37
CONWAY & HAMMING			48	6-1-1870	2.60			130	
			64	6-1-1877	.90			45	
			118	6-1-1891	2.20			110	5.70
DAVIS			94	6-1-1886	13.40			670	
(LITTLE DAVIS)			119	6-1-1891	.54			27	13.94
EUREKA NO. 1			13	6-1-1865	33.32			1666	33.32

*SUBTRACT

DANIEL V. STEENSON (ISB #4332)
JON C. GOULD (ISB #6709)
RINGERT LAW CHARTERED
455 S. Third, P. O. Box 2773
Boise, Idaho 83701-2773
Telephone: (208) 342-4591
Facsimile: (208) 342-4657

Attorneys for Franklin Ditch Company, Inc.

DISTRICT COURT-SRBA
Fifth Judicial District
County of Twin Falls - State of Idaho
FEB 15 2011
By _____ Clerk
Deputy Clerk

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA Case No. 39576	SUBCASE NOS. 63-00166A, 63-00166B, 63-00167A, 63-00167B, 63-00179A, 63-00179C, AND 63-32580 **AFFIDAVIT OF REX BARRIE**

STATE OF IDAHO)
) ss
COUNTY OF ADA)

Rex Barrie, being first duly sworn on oath, deposes and says that:

1. I make this Affidavit based upon my own personal knowledge.

2. I am the watermaster for the Boise River, Water District No. 63 and I have held this position since 2008.

3. As watermaster, my duties include the distribution of water from the Boise River into canals including the Caldwell High Line Canal. My duties also include the preparation of an annual report titled Water Distribution of Boise River.

4. The Water District 63 annual reports include information on the diversions from the Boise River into canals, including the Caldwell High Line Canal.

5. During my tenure as the watermaster for the Boise River, water diverted from the Boise River into the Caldwell High Line Canal is limited to water delivered under the Stewart Decree water right nos. 34, 46, and 77.

6. During my tenure as watermaster, Pioneer Irrigation District has never been charged or assessed for deliver of its water rights into the Caldwell High Line Canal.

Further your affiant sayeth naught.

Rex Barrie

SUBSCRIBED AND SWORN to before me this 11 day of January, 2011.

KATHLEEN E. HUTTON NOTARY PUBLIC STATE OF IDAHO

Notary Public ~~for~~ Star
Residing at Star, ID
My Commission Expires: 4-1-2014

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 15th day of February, 2011, I caused to be served a true and correct copy of the foregoing **AFFIDAVIT OF REX BARRIE** by the method indicated below, and addressed to each of the following:

Filed via Hand Delivery:

Clerk of the District Court
Snake River Basin Adjudication
P.O. Box 2707
Twin Falls, ID 83303-2707
Fax No. 208-736-2121

Served via U.S. Mail:

IDWR Document Depository
P.O. Box 83720
Boise, ID 83720-0098

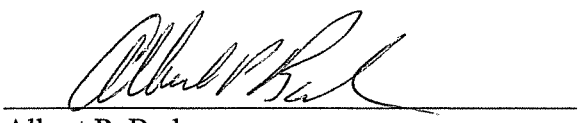
United States Department of Justice
Environment & Natural Resc Division
550 West Fort Street, MSC 033
Boise, ID 83724

Chief, Natural Resources Division
Office of the Attorney General
State of Idaho
P.O. Box 44449
Boise, ID 83711-4449

Daniel V. Steenson
Jon C. Gould
P. O. Box 2773
Boise, ID 83701-2773
Attorneys for Franklin Ditch Company

Served via Facsimile and U.S. Mail:

Scott L. Campbell
Andrew J. Waldera
Moffatt Thomas, et al.
P. O. Box 829
Boise, ID 83701-0829
Attorneys for Pioneer Irrigation District



Albert P. Barker

Albert P. Barker, ISB #2867
Sarah W. Higer, ISB # 8012
BARKER ROSHOLT & SIMPSON LLP
1010 W. Jefferson St., Ste. 102
P.O. Box 2139
Boise, ID 83701-2139
Telephone: (208) 336-0700
Facsimile: (208) 344-6034

Attorneys for Mason Creek Ditch Company

DISTRICT COURT-SRBA
Fifth Judicial District
County of Twin Falls - State of Idaho
FEB 15 2011
By _____ Clerk
Deputy Clerk

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA Case No. 39576	SUBCASE NOS.: 63-00166a, 63-00166b, 63-00167a, 63-00167b, 63-00179a, 63-00179C, and 63-32580 **AFFIDAVIT OF ALBERT P. BARKER IN SUPPORT OF MASON CREEK'S RESPONSE TO PIONEER'S MOTION TO DETERMINE ENFORCEABILITY OF SETTLEMENT AGREEMENT WITH MASON CREEK DITCH COMPANY**

ALBERT P. BARKER, being first duly sworn upon oath, deposes and states as follows:

1. I am an attorney in the firm Barker Rosholt & Simpson LLP providing legal representation to the Mason Creek Ditch Company in the above captioned matter. I am over the age of 18 and have knowledge of the documents and legal proceedings pertinent to this matter, and I make this affidavit based upon personal knowledge.

2. Attached hereto as Exhibit A is a true and correct copy of the Idaho Department of Water Resources Transfer File No. 29 from IDWR files.

3. Attached hereto as Exhibit B is a true and correct copy of excerpts from Pioneer Irrigation District's Response to Mason Creek Ditch Company's First Set of Discovery Requests.

4. Attached hereto as Exhibit C is a true and correct copy of a letter produced by Pioneer Irrigation District (No. PID000074) written by Walter Griffith to the State Engineer of Idaho, the Boise River Water Master and the Board of Directors of the Pioneer Irrigation District dated June 17, 1915.

5. Attached hereto as Exhibit D is a true and correct copy of a letter from the Secretary of Pioneer Irrigation District dated July 3, 1928 obtained from the Boise River Water Master files.

6. Attached hereto as Exhibit E is a true and correct copy of a document dated May 9, 1938 produced by Pioneer Irrigation District (No. PID000097) in discovery and filed with Pioneer's objections to Mason Creek's rights.

7. Attached hereto as Exhibit F is a true and correct copy of a document produced by Pioneer Irrigation District (No. PID000127) titled Statement by Turner and Welsh, dated May 29, 1940.

8. Attached hereto as Exhibit G is a true and correct copy of an excerpt of Pioneer Irrigation District board meeting minutes, produced by Pioneer Irrigation District (No. PID000316) and dated March 7, 2007.

9. Attached hereto as Exhibit H is a true and correct copy of the Idaho Department of Water Resources Transfer File No. 1038 from IDWR files.

///

///

Further, your affiant sayeth naught.

DATED this 15th day of February, 2011.

BARKER ROSHOLT & SIMPSON LLP

Albert P. Barker
Attorneys for Mason Creek Ditch Company

SUBSCRIBED AND SWORN to before me this 15th day of February, 2011.

(seal)



NOTARY PUBLIC FOR IDAHO
Residence: Boise, Idaho
My Commission Expires: June 1, 2012

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 15th day of February, 2011, I caused to be served a true and correct copy of the foregoing **AFFIDAVIT OF ALBERT P. BARKER IN SUPPORT OF MASON CREEK'S RESPONSE TO PIONEER IRRIGATION DISTRICT'S MOTION TO DETERMINE ENFORCEABILITY OF SETTLEMENT AGREEMENT WITH MASON CREEK DITCH COMPANY** by the method indicated below, and addressed to each of the following:

Filed via Hand Delivery:

Clerk of the District Court
Snake River Basin Adjudication
P.O. Box 2707
Twin Falls, ID 83303-2707
Fax No. 208-736-2121

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United States Department of Justice
Environment & Natural Resc Division
550 West Fort Street, MSC 033
Boise, ID 83724

Chief, Natural Resources Division
Office of the Attorney General
State of Idaho
P.O. Box 44449
Boise, ID 83711-4449

Daniel V. Steenson
Jon C. Gould
P. O. Box 2773
Boise, ID 83701-2773
Attorneys for Franklin Ditch Company

Served via Facsimile and U.S. Mail:

Scott L. Campbell
Andrew J. Waldera
Moffatt Thomas, et al.
P. O. Box 829
Boise, ID 83701-0829
Attorneys for Pioneer Irrigation District



Albert P. Barker

EXHIBIT
A

Form No. 17 — Sheet - 1st — Vol. 10

P/D Tfr. #29, 8/26/1918
For 50 Inches 63-0179
To CVW Co. Dtr. Co. Ltd
Priority 6/1/1969.
63-0000 B

POOR ORIGINAL

STATE OF IDAHO,
County of Ada } ss.

A. F. Hughes being first duly sworn, upon his oath deposes and says:

That he is the owner of a decreed water right appurtenant to the following described land to-wit: All of that part of Lot 6, Sec. 14 T. 4 N. R. 2 W. B.M. which lies North of the center of the present channel of Boise River, 50 Acres

as evidenced by the decree dated January 18, 1906 day of _____

in the cause entitled Farmers Cooperative Ditch Co. Plaintiff,

vs. Riverside Irrigation District Ltd. Defendant, brought

in the district court of the Seventh Judicial District of the State of Idaho, or

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho

No. _____

That he intends to change the point of diversion, as described in said decree or permit, to the following point: Heading of Canyon County Canal whose point of diversion from the Boise River is 67.50 chains South of the NE Corner of Sec. 18 T. 4N. R. 1E. B.M.

That such change will be made for the following reasons, to-wit: This land was formerly watered from the Caldwell High Line Canal on the South side of Boise River but the channel of the Boise River having changed this land lies North of the Boise River and has to be watered from the Canyon County Canal, said Canal diverting water from the North bank of Boise River.

That no one will be injured by such change and that deponent will make such change at his own risk.

And further deponent saith not.

A. F. Hughes

Subscribed and sworn to before me this 26th day of August, 1918

Flora M. Brown
Notary Public

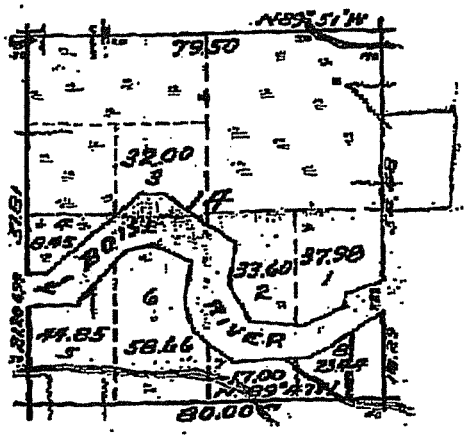
My commission expires

MICROFILMED
JUL 25 1994

F.H. Maxwell
2 S.O.I.
#713-N-13th

TFR. #29, 8/26/1918
63-0179

Sec. 14
T. 4N., R. 2W.



MICROFILMED
JUL 25 1994

EXHIBIT
B

Attorneys for Claimant and Objector
Pioneer Irrigation District

Scott L. Campbell, ISB No. 2251
Andrew J. Waldera, ISB No. 6608
Dylan B. Lawrence, ISB No. 7136
MOFFATT, THOMAS, BARRETT, ROCK & FIELDS, CHARTERED
101 S. Capitol Blvd., 10th Floor
Post Office Box 829
Boise, Idaho 83701
Telephone (208) 345-2000
Facsimile (208) 385-5384
18946.0137

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT

OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA Case No. 39576	Subcase Nos. 63-00166A 63-00166B 63-00167A 63-00167B 63-00179A 63-00179C 63-32580 **PIONEER IRRIGATION DISTRICT'S RESPONSES TO MASON CREEK DITCH COMPANY'S FIRST SET OF DISCOVERY REQUESTS**

COMES NOW Pioneer Irrigation District, by and through undersigned counsel, and answers and responds to Mason Creek Ditch Company's First Set of Interrogatories, Requests for Admission and Requests for Production, as follows:

ORIGINAL

Ditch Co. has historically not contributed to the payment of expenses associated with such efforts and lacks any specific authorization from Pioneer to convey the water right through Pioneer's system. Pioneer suspects that some of the water diverted under this right has historically been used on Pioneer lands. Pioneer's Highline Canal does not have sufficient operational capacity to convey all of the water rights which have been recommended with the Highline Canal as the point of diversion. Therefore, Pioneer believes all or a portion of this water right has been forfeited. The diversion rate exceeds a reasonable duty of water when combined with the recommendation for 63-32580 and Mason's potential claim to 63-33392.

INTERROGATORY NO. 3: Please describe, with specificity, each factual and legal basis for Pioneer Irrigation District's claim to the water now identified by water right no. 63-179A.

ANSWER TO INTERROGATORY NO. 3: The water right is diverted, conveyed, and delivered to the water users comprising the Mason Creek Ditch Co. through Pioneer's Highline Canal. Pioneer has performed all of the operation, maintenance, and repair of the Highline Canal. Mason Creek Ditch Co. has historically not contributed to the payment of expenses associated with such efforts and lacks any specific authorization from Pioneer to convey the water right through Pioneer's system. Pioneer suspects that some of the water diverted under this right has historically been used on Pioneer lands.

INTERROGATORY NO. 4: Please describe, with specificity, each factual and legal basis for Pioneer Irrigation District's objection to water right no. 63-32580 claimed by Mason Creek Ditch Company from Mason Creek.

ANSWER TO INTERROGATORY NO. 4: Pioneer's investigations into the factual and legal issues relevant to the recommendation of water right 63-32580 are ongoing, and

Mason's requests to the extent they request the production of privileged documents and information not required by Rule 26(b)(5)(A).

IV.
RESPONSES TO REQUESTS FOR ADMISSION

REQUEST FOR ADMISSION NO. 1: Please admit that the Mason Creek Ditch Company was decreed 1860 inches of water in the "Stewart Decree," and that Exhibit B is a true and correct copy of paragraph XLIII from the Stewart Decree decreeing that water right to the Mason Creek Ditch Company.

RESPONSE TO REQUEST FOR ADMISSION NO. 1: Pioneer admits the allegation in Request for Admission No. 1, with the qualification that Exhibit "B" is of poor quality and is not entirely legible; therefore, Pioneer cannot definitively confirm that Exhibit "B" is a true and correct copy of the Stewart Decree.

REQUEST FOR ADMISSION NO. 2: Please admit that Pioneer Irrigation District's claim to water right number 63-179A is for the same water right decreed to the Mason Creek Ditch Company in paragraph XLIII of the Stewart Decree.

RESPONSE TO REQUEST FOR ADMISSION NO. 2: Pioneer admits the allegation in Request for Admission No. 2.

DATED this 9th day of September, 2010.

MOFFATT, THOMAS, BARRETT, ROCK & FIELDS, CHARTERED

By _____
Dylan B. Lawrence – Of the Firm
Attorneys for Pioneer Irrigation District

EXHIBIT C

Caldwell, Idaho, June 17th, 1915.

To the State Engineer, of the State of Idaho,

The Water Master on the Boise River, and

The Board of Directors, of the Pioneer Irrigation District.

Dear Sirs:-

For and in behalf of the land owners and water users, and owners of those certain water rights, known as the Franklin Ditch Company's Rights, the Mason Creek Ditch Company's Rights, and the Right of the Caldwell Canal, now the Caldwell Highline Canal, being rights designated as Rights No. 34, No. 46, No. 77, and No. 90, of that certain decree, made and entered on the 16th day of January, 1906, in the District Court of the Seventh Judicial District, of the State of Idaho, in and for Canyon County, in that certain case known as the Boise River Priority Case, wherein the Farmer's Co-operative Ditch Company, a corporation, is plaintiff, and the Riverside Irrigating District, Limited, a corporation and others, are defendants, your attention is called to the fact, and you and each of you are hereby notified, that it is your duty to cause the waters diverted from the Boise River, under the said above mentioned Rights, to be diverted through the said Caldwell Highline Canal, for use on the lands under the flow of the said Canal. You are further notified that you are now, and for some time past have been, causing said waters under said Right No. 90, and others of said waters, to be diverted through the Phyllis Canal, for use upon lands other than the lands above mentioned, and depriving said lands of their said rights. And you are hereby further notified that you are now, and for some time past have been, depriving said lands under the flow of the said Caldwell Highline Canal of the use of the waters from Boise River to which they are rightfully entitled, and are causing said lands, and the crops growing thereon, and their owners of said lands great and irreparable injury and damage, for all of which you and each of you will be held to a strict accountability.

Respectfully,

Walter Stanfield

PID000074

EXHIBIT D

OFFICE OF

PIONEER IRRIGATION DISTRICT

CANYON AND ADA COUNTIES, IDAHO

CALDWELL, IDAHO. July 3, 1928.

Mr William Welch,
Watermaster, Boise River,
Boise, Idaho.

WATER DISTRICT 12A

File No. 1611

Dear Sir,-

As you are aware the water decreed to this District and drawn at the Phyllis Canal is insufficient to provide a sufficient head for proper irrigation of the lands under that canal.

As you are also aware this District is under contract to carry thru its Caldwell Canal the water decreed to the Franklin Ditch Co under decrees Nos 34 and 77, and to the Mason Creek Ditch Co under decree No 46, amounting to 4010 inches.

Owing to the fact that a large amount of water is frequently supplied to these ditches by this District which is developed by drain ditches within the District there are times when all of the water is not needed by these ditch companies.

In view of these facts I am asked by our Board of Directors to request that if it is possible for you to do so you make temporary transfer to the Phyllis Canal of such surplus water of these rights mentioned when it is not needed by these companies.

Very truly yours,

Fred L. Evans

Secretary.

EXHIBIT
E

FIVE MILE--MASON CREEK--HIGHLINE

May 9, 1938

Years ago when Pioneer Irrigation District took over the Mason Creek Ditch Company and Franklin Ditch Company, it enlarged the ditch those companies had been using and called it the Caldwell Highline. In return for rights-of-way of Franklin Ditch Company and Mason Creek Ditch Company, P.I.D. agreed to carry their decreed water from the river through the Highline ditch which P.I.D. had enlarged and make no assessments against the lands of those two ditch companies. Turner thinks there is a contract covering this. The Highline probably had no water until P.I.D. made this trade with the Franklin and Mason Creek Companies.

The Highline picks up Five Mile Drain water at a point about one mile South and East of the Franklin school, and picks up the Mason Creek Drain water at a point approximately two miles West of where the Five Mile water is picked up. P.I.D.'s contract with Canyon Hill Irrigation District covers this Mason Creek pickup.

Pioneer dries Five Mile Drain, dumps water into the Highline, and when there isn't sufficient water below for the Franklin and Mason Creek rights P.I.D. diverts over its canal sufficient water to supply the shortage.

These Franklin and Mason Creek rights comprise about 750 to 800 acres.

Mason Creek Ditch Company picks up the water diverted over the Highline at a point about 1½ miles below the point where Highline crosses Five Mile Drain.

The Mason Creek Company and Mrs. J. P. Wells use the same diversion structure.

As to Highline water, P.I.D. has nothing decreed in its name. Its Highline water is decreed as follows:

To Franklin Ditch Company (Rights Nos. 34 and 77).

To Mason Creek Ditch Company (Right No. 46).

PID000097

EXHIBIT F

May 22, 1940

STATEMENT BY TURNER AND WELSH

Franklin Ditch Company contract

Agreement between that company and Idaho and Oregon Land Improvement Company, dated October 2, 1883, covers 1350 inches of water, but Turner thinks there are now 2150 inches involved.

In the Stewart decree the Franklin Ditch Company has the following rights:

Right No. 34, 6/1/66 770 inches
Right No. 77, 10/29/80 1380 inches.

We should investigate as to how the water above the 1350 inches was taken over by P. I. D.

The majority of Franklin water is all taken out of Highline canal north of Franklin road. Nine points of diversion above Franklin road to the headgate and six below.

John says Franklin rights are cut the same as others except that when the latest Franklin right would be entitled to cut entirely off P.I.D. continues to deliver to Franklin the same percentage as to its other users. This has been the practice a number of years. But he is not sure P.I.D. would be required to do that under its Franklin contract.

Welsh says there is a possibility that when this contract was made the Franklin water was the only water in the ditch and the only water referred to.

At the time P.I.D. transferred right No. 90 from [illegible] Phyllis there was a hearing before the State Engineer, [illegible] represented Highline users and Welsh thinks there is [illegible] testimony in that file as to these rights. Right No. 90 was decreed to P.I.D. for Highline canal and that right was later than the date of this contract and had a priority of 1884.

PID000127

FIVE MILE--MASON CREEK--HIGHLINE

May 9, 1938

Years ago when Pioneer Irrigation District took over the Mason Creek Ditch Company and Franklin Ditch Company, it enlarged the ditch those companies had been using and called it the Caldwell Highline. In return for rights-of-way of Franklin Ditch Company and Mason Creek Ditch Company, P.I.D. agreed to carry their decreed water from the river through the Highline ditch which P.I.D. had enlarged and make no assessments against the lands of those two ditch companies. Turner thinks there is a contract covering this. The Highline probably had no water until P.I.D. made this trade with the Franklin and Mason Creek Companies.

The Highline picks up Five Mile Drain water at a point about one mile South and East of the Franklin school, and picks up the Mason Creek Drain water at a point approximately two miles West of where the Five Mile water is picked up. P.I.D.'s contract with Canyon Hill Irrigation District covers this Mason Creek pickup.

Pioneer dries Five Mile Drain, dumps water into the Highline, and when there isn't sufficient water below for the Franklin and Mason Creek rights P.I.D. diverts over its canal sufficient water to supply the shortage.

These Franklin and Mason Creek rights comprise about 750 to 800 acres.

Mason Creek Ditch Company picks up the water diverted over the Highline at a point about 1½ miles below the point where Highline crosses Five Mile Drain.

The Mason Creek Company and Mrs. J. P. Wells use the same diversion structure.

As to Highline water, P.I.D. has nothing decreed in its name. Its Highline water is decreed as follows:

To Franklin Ditch Company (Rights Nos. 34 and 77).

To Mason Creek Ditch Company (Right No. 46).

PID000097

EXHIBIT F

May 27, 1940

STATEMENT BY TURNER AND WELSH

Franklin Ditch Company contract

Agreement between that company and Idaho and Oregon Land Improvement Company, dated October 2, 1883, covers 1350 inches of water, but Turner thinks there are now 2150 inches involved.

In the Stewart decree the Franklin Ditch Company has the following rights:

Right No. 34, 6/1/66 770 inches
Right No. 77, 10/29/80 1380 inches.

We should investigate as to how the water above the 1350 inches was taken over by P. I. D.

The majority of Franklin water is all taken out of Highline canal north of Franklin road. Nine points of diversion above Franklin road to the headgate and six below.

John says Franklin rights are cut the same as [illegible] except that when the latest Franklin right would be entitled [illegible] cut entirely off P.I.D. continues to deliver to Franklin the [illegible] percentage as to its other users. This has been the practice [illegible] number of years. But he is not sure P.I.D. would be [illegible] that under its Franklin contract.

Welsh says there is a possibility that when this [illegible] was made the Franklin water was the only water in the ditch [illegible] only water referred to.

At the time P.I.D. transferred right No. 90 from [illegible] Phyllis there was a hearing before the State Engineer, [illegible] represented Highline users and Welsh thinks there is [illegible] testimony in that file as to these rights. Right No. 90 was [illegible] to P.I.D. for Highline canal and that right was later than the date of this contract and had a priority of 1884.

EXHIBIT G

LOST RIVER SUBDIVISION: Mr. Justin Martin and Brian McCall of Farwest appeared before the Board along with Marty Goldsmith, owner of the project. They stated plans were submitted on December 15, 2006, however neither Pioneer personnel nor the District's Engineer have record of receiving those plans.

Mr. Martin requested permission to bore utility crossings under the Phyllis Canal without a 404 Permit in place, stating Mr. Martinez of the Army Corp of Engineers has told them they do not need a 404 Permit. A request for an extension of the March 15th deadline was also made. Their initial request was for an extension of time to April 10th. The Board was definitely opposed to such an extension, stating that April 1st is the absolute latest date on which work must be completed.

Plans were approved on March 2, 2007. There are revisions which must be made to the subdivision plat, per Scott Campbell's office. License Agreement is ready to go except for the 404 Permit, and a legal description of the easement.

A personal guarantee was made by Marty Goldsmith for any damages which might arise from the proposed bores. It was the consensus of the Board to extend the completion deadline to April 1, 2007, and absolutely no later, and they must obtain a letter of Waiver or a 404 Permit.

MASON CREEK DITCH COMPANY: Mr. John McEvoy, President of Mason Creek Ditch Co., and Mr. Marty Galvin, a wateruser within Mason Creek Ditch Co., appeared before the Board. Because there is acreage within their Ditch Co. which is not being irrigated any longer, they are wanting to put some water into the Water Bank. They requested Pioneer take less water out of the river and pick up more water further down out of Mason Creek.

Attorney Campbell explained to the gentlemen that Pioneer and Black Canyon Irrigation Districts are experiencing huge changes in the drainage system due to development taking place, and for other reasons as well. It was the consensus of the Board to table this matter until Pioneer can consider the potential consequences down the line. It may be that Pioneer would be violating the contract they currently have with Mason Creek Ditch Company, and also the storage water contracts with the Bureau of Reclamation. To makes changes as requested by Mr. McEvoy and Mr. Galvin may very well require amendments to said contracts.

DAKOTA CROSSING: TJ Angstman, Principal Developer; and Steve Lynn who is with Liquid Realty, Inc., appeared before the Board, as well as Lupe Rodriguez and Scott Short, representatives of the Bureau of Reclamation.

Due to an incorrect survey being made, the pressurized irrigation line was installed on Pioneer's easement. Fault has been admitted, and said line will be removed. However, it is being requested of Pioneer to allow them to place the pressurized irrigation line within the easement along the Wilson Creek Drain by approximately 3 feet. It was stated they have spoken with a representative of the Army Corp. of Engineers, and they do not have any problem with said proposal.

EXHIBIT H

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

Boise, Idaho
October 9, 1964

Re: Transfer of Water Right
Consumers Water Corporation

Idaho Daily Statesman,
Boise, Idaho.

Gentlemen:

Enclosed you will find notice for publication, once a week for two consecutive weeks prior to October 28, 1964 the date set for hearing; the expense of the publication is to be paid by the applicant Consumers Water Corporation of 414 First National Bank Bldg., Boise, Idaho to whom you should furnish proof of publication on or prior to the date set for hearing.

Please acknowledge receipt of this notice and furnish this office with a copy or tear-sheet of the first publication.**

Very truly yours,

CARL E. TAPPAN
State Reclamation Engineer
By

ROBERT W. HAMILTON
Supervisor of Water Distribution

** If the first copy is not received in this office for checking purposes and errors appear in subsequent issues, it is possible that re-publication of corrected copy will be at your own expense.

Encl.

MICROFILMED

NOTICE OF PROPOSED TRANSFER OF WATER RIGHT

Notice is hereby given that Consumers Water Corporation of Boise, Idaho has applied to the State Reclamation Engineer of the State of Idaho for a certificate authorizing it to change the point of diversion and/or place of use of the waters of Boise River as follows:

Amount: 21.71[illegible] cubic feet per second. Priority: May 1, 1866

Point of diversion: NE ¼ SE ¼, Section 24, Township 3 N. Range 2 E., B.M.

Place of Use: Town lots & agricultural lands under Walling Ditch

To Be Transferred To

Point of Diversion: NW¼ NW¼, Sec. 24, Township 4 N., Range 1 W. B. M., and SE ¼ SE ¼, Section 13, Township 4 N., Range 2 W., B.M.

Place of Use: Lands now served by Pioneer Irrigation District, (Canyon County)

And that on the 28th day of October, 1964, at 10:00 o'clock A. M. at Room 107 Statehouse, Boise, Idaho, before the State Reclamation Engineer, or his authorized agent, the opportunity will be given to any and all persons to appear and present, for his consideration any reason or reasons why a certificate should not be issued authorizing such transfer.

CARL E. TAPPAN
State Reclamation Engineer

PIONEER

Form 20

Application For Transfer of Water Right

STATE OF IDAHO }
County of Ada } ss.

G. S. Taylor, being first duly sworn, deposes and says:

That his name is G. S. Taylor; that he is of lawful age, a citizen of the United States and of the State of Idaho, and that his postoffice address is 414 First National Bank Bldg., Boise, Idaho

That he is the President of Consumers Water Corp., a corporation, which is the owner and using a certain water right, bearing date of priority of May 1, 1866 for 2500 inches of the waters of the Boise River (Right #30) County of Ada, State of Idaho, decreed to Joseph Perrault and Richard Johnson by decree of Judge George H. Stewart of the Third Judicial District of the State of Idaho, in and for the county of Canyon, in the case of Farmers Cooperative Ditch Co. et al vs. Riverside Irrig. Dist. Ltd., said decree bearing date of January 18, 1906 (or obtained by virtue of License No. ....., issued by the State Department of Reclamation of the State of Idaho, dated ....., 19....., bearing date of ....., 19.....) for the purpose of irrigating the following described lands situate, lying and being in Water District No. 12-A in the County of Ada and State of Idaho, to-wit: Upon the town lots and agricultural lands lying under what is known as the Walling Ditch, or Consumers Canal; that said Consumers Water Corporation owns lands under said ditch and to which such water has been made appertenant; that said G. S. Taylor and is the person (or representative of the corporation) to whom such right so issued, or has become the owner thereof in the following manner, i.e. by mesne conveyances as per abstract of title of said water right hereto attached and made a part of this statement;

That said waters are now diverted from said stream in the NE¼ of the SE¼ of Section 24, Township 3 N, Range 2 E., B. M., and conducted to the above described lands through the Consumers Canal, above mentioned as per map herewith and of this affidavit made a part.

CHANGE IN PLACE OF USE 21.715

That affiant and petitioner desires to abandon the use of 1085 3/4 inches of said water upon the above described land, and to convey and use same upon the following tract, situate, lying and being in the County of Canyon and Ada and State of Idaho, to-wit: The lands now being served by the Pioneer Irrigation District located in the environs of Caldwell.

That reasons for desiring to make such transfer are as follows: more adaquate devotion to be eficial use.

That he intends to divert and convey said 1385 3/4 inches ~~second-feet~~ of water to the tract of land last above described in the following manner and as per map accompanying this application: Diverted from the Boise River at the Phyllis Canal headgate in NW¼NW¼, Sect. 24, T4N, R1W, B.M. and thence through the Phyllis Canal; and also diverted from the Boise River at the Hiline Canalheadgate in the SE¼SE¼ Sect. 13, T4N, R2W, B.M. and thence through the Hiline Canal.

Note—If this water right has heretofore been carried jointly in a ditch with other water, affiant should secure written consent of other owners or users to removal from its original carrier and file such consent with this affidavit.

CHANGE IN POINT OF DIVERSION

That affiant desires to change the point of diversion of said waters from the point above described to a point located in NW ¼ NW ¼ Sec. 24 Twp. 4N Age. 1W (Phyllis) and SE ¼ of SE ¼ of Section 13, Township 4N, Range 2W (Hiline) and thereafter conduct same to the above described land through the Phyllis & Hiline ditches as per map appended.

That his reasons for desiring to make such change are as follows: more adequate devotion to beneficial use.

Petitioner asserts that no one will be injured by such transfer, or change in point of diversion, and that the change will be made at petitioner's own risk.

WHEREFORE, Affiant and Petitioner prays that the State Reclamation Engineer of the State of Idaho issue to him the proper certificate authorizing such change in point of diversion and/or place of use, in accordance with the provisions of Sections 42-108 and 42-222 of the Idaho Code.

A. Taylor
CONSUMERS WATER CORPORATION
Applicant.

Subscribed and sworn to before me this 29 day of June, 1954

Notary Public.

APPLICANT WILL ANSWER THE FOLLOWING QUESTIONS:

From what stream is the water diverted? Boise River

Where is the diversion point located? NE¼ of SE¼ of Sect. 24, Twp. 3N, Rge. 2E, B. M.

Through what ditch is it now conducted? Consumers Canal

How much land is now irrigated by the water sought to be transferred? Approximately 350 Acres

Give the description: Water is primarily used for lawns in Boise City.

What is the total amount of water in inches, or second feet, dedicated to said land?.....

What kind of crops are being raised? lawns and gardens

How much water per acre is now required to irrigate said land? approximately 3 inches per acre

What will be the effect on the land now irrigated, if the use of water on it is discontinued?.....

no injurious effect because land can be irrigated more efficiently

from existing Boise Water Corporation services and private wells.

Give location of new point of diversion, if change is to be made described previously

Through what ditch will it be conducted after transfer? Phyllis and Wiline canals

How much water will be required per acre to irrigate the land to which this water is transferred?.....

one inch per acre

Do you claim any other water right for the land from which you seek to abandon the use of this water?

If so, give amount, date and source no

Is there any other water right for the land to which you seek to make this transfer? If so, give amount,

Phyllis & Highline

DECREE	NO.	AMOUNT	DATE
Stewart	90	53.10cfs	6/17/1884
"	117	200.00	9/1/1890
"	135	56.34	4/1/1904
Bryant		306.56	4/1/1905
"		54.50	4/1/1908
Stowart	34	15.40	6/1/1886
"	46	37.20	6/1/1889
"	77	27.60	10/29/1880

34,000 acres

Consumers Water Corporation

Signed G. K. Taylor

Applicant.

STATE OF IDAHO, } ss.
County of Ada }

I, ..., Watermaster of Boise River

Water District No. 12-A, County of Ada, State of Idaho, whose postoffice address

is ....., have read or heard read the foregoing affidavit and petition

of Consumers Water Corporation, and, of my own knowledge, believe the same to be true as to all matters therein alleged, and that no one will be injured by the transfer prayed to be authorized; and I hereby endorse my approval of said petition, and request that the State Reclamation Engineer issue the certificate of transfer as petitioned; or ~~(do not approve of the issuance of the certificate of transfer prayed for)~~ for the following reasons:.....

.....

.....

.....

Watermaster, District No. 12-A

Daniel L. Musselman

Dated at Boise, Idaho, this 8th day of October, 19 64

Albert P. Barker, ISB #2867
Shelley M. Davis, ISB #6788
Sarah W. Higer, ISB # 8012
BARKER ROSHOLT & SIMPSON LLP
1010 W. Jefferson St., Ste. 102
P.O. Box 2139
Boise, ID 83701-2139
Telephone: (208) 336-0700
Facsimile: (208) 344-6034

Attorneys for Mason Creek Ditch Company

DISTRICT COURT - SRBA
Fifth Judicial District
County of Twin Falls - State of Idaho
FEB - 9 2011
By _____ Clerk
_____ Deputy Clerk

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA Case No. 39576	SUBCASE NOS.: 63-00166A, 63-00166B, 63-00167A, 63-00167B, 63-00179A, 63-00179C, and 63-32580 **AFFIDAVIT OF SARAH W. HIGER IN SUPPORT OF MASON CREEK'S MOTION TO DISMISS PIONEER IRRIGATION DISTRICT'S OBJECTIONS TO MASON CREEK'S WATER RIGHTS NOS. 63-00179C AND 63-32580**

SARAH W. HIGER, being first duly sworn upon oath, deposes and states as follows:

1. I am an attorney in the firm Barker Rosholt & Simpson LLP providing legal representation to the Mason Creek Ditch Company in the above captioned matter. I am over the age of 18 and have knowledge of the documents and legal proceedings pertinent to this matter, and I make this affidavit based upon personal knowledge.

2. Attached hereto as Exhibit A is a true and correct copy of the fully executed Settlement Agreement entered into by Pioneer Irrigation District and Mason Creek Ditch Company on December 14th, 2010 and recorded at the Canyon County Recorder's Office on December 15, 2010.

Further, your affiant sayeth naught.

DATED this 8th day of February, 2011.

BARKER ROSHOLT & SIMPSON LLP

Sarah W. Higer
Attorneys for Mason Creek Ditch Company

STATE OF IDAHO)
) ss.
County of Ada)

On this 8th day of February, 2011, before me, Suzanne Estes, a Notary Public in and for said State, personally appeared Sarah W. Higer, known or identified to me to be the person who executed said instrument.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

SUZANNE ESTES NOTARY PUBLIC STATE OF IDAHO

Notary Public for Idaho
Residing at Boise, Idaho
My commission expires: June 1, 2012

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 8th day of February, 2011, I caused to be served a true and correct copy of the foregoing **AFFIDAVIT OF SARAH W. HIGER IN SUPPORT OF MASON CREEK'S MOTION TO DISMISS PIONEER IRRIGATION DISTRICT'S OBJECTIONS TO MASON CREEK'S WATER RIGHTS NOS. 63-00179C AND 63-32580** by the method indicated below, and addressed to each of the following:

Original hand-delivered to:

Clerk of the District Court
Snake River Basin Adjudication
253 3rd Avenue North
P.O. Box 2707
Twin Falls, ID 83303-2707
Fax No. 208-736-2121

Copies mailed to:

IDWR Document Depository
P.O. Box 83720
Boise, ID 83720-0098

United States Department of Justice
Environment & Natural Resource Division
550 West Fort Street, MSC 033
Boise, ID 83724

Chief, Natural Resources Division
Office of the Attorney General
State of Idaho
P.O. Box 44449
Boise, ID 83711-4449

Served via Facsimile and U.S. Mail:

Scott L. Campbell
Andrew J. Waldera
Moffatt Thomas, et al.
P. O. Box 829
Boise, ID 83701-0829
Attorneys for Pioneer Irrigation District

Daniel V. Steenson
Jon C. Gould
P. O. Box 2773
Boise, ID 83701-2773
Attorneys for Franklin Ditch Company

Sarah W. Higer

EXHIBIT "A"

2010 DEC 15 AM 11:29
RECORDED
WILLIAM H. IRWIN
CANYON CNTY RECORDER
Deputy

2010057956

SETTLEMENT AGREEMENT

This Agreement (the "Agreement"), is entered into and made effective this 14th day of December, 2010, by and between **PIONEER IRRIGATION DISTRICT** ("Pioneer"), an irrigation district organized and existing under and by virtue of the laws of the State of Idaho, whose address is P.O. Box 426, Caldwell, Idaho, 83606, and **MASON CREEK DITCH COMPANY** ("Mason Creek"), an Idaho corporation, whose address is 1905 Mason, Caldwell, Idaho 83605.

Pioneer and Mason Creek agree to compromise, settle, and resolve the pending litigation in the Snake River Basin Adjudication in Subcase No. 63-00179C and 63-32580, based upon the following mutual promises, agreements, and understandings.

1. Pioneer agrees to file Notices of Withdrawal of Objections to Mason Creek's water right nos. 63-00179C and 63-32580 ("Mason Creek's water rights") in the Snake River Basin Adjudication District Court Case No. 39576 for Subcase Nos. 63-00179C and 63-32580 within ten (10) days of recording a fully executed version of Agreement. Pioneer agrees not to object to Mason Creek's new water right filing 63-33392, which is a waste water right from 5-Mile Creek Drain, provided this water right is recommended with a priority date not before 1922 and is noted with a wasterwater remark by the Idaho Department of Water Resources.

2. Pioneer and Mason Creek agree that they will each pay their respective costs and attorney's fees and shall not seek recovery of those costs and fees in the identified subcases.

3. Mason Creek agrees that Pioneer owns and has exclusive authority and control over the operations, maintenance, repair, and improvement of the Highline Canal.

4. Mason Creek agrees that it will not lease to the Idaho Water Resources Board Water Supply Bank any portion of Mason Creek's water rights that have historically been diverted into the Highline Canal and is needed by Pioneer land owners for irrigation of lands within Pioneer's boundaries. Mason Creek agrees to provide Pioneer written notice prior to filing an application to lease Mason Creek water that has been historically diverted into the Highline Canal. Mason Creek agrees not to file a lease

application if, within thirty (30) days after delivery of Mason Creek's notice, Pioneer delivers a written response to Mason Creek that Pioneer needs and intends to use the water diverted into the Highline Canal under Mason Creek's water rights upon lands within Pioneer's boundaries. If Pioneer has sufficient water rights that can be diverted through the Highline Canal to meet the needs of its landowners who receive water from the canal, then Mason Creek may lease its water rights to the Water Supply Bank. Pioneer agrees that it will not utilize the water diverted under Mason Creek's water rights in the Highline Canal to enable it to lease Pioneer's water rights to the Water Supply Bank.

5. Mason Creek agrees that Pioneer shall not be charged for use of water diverted into the Highline Canal under Mason Creek water rights.

6. Pioneer agrees that Mason Creek owns its water rights as recommended in the Snake River Basin Adjudication District Court.

7. Pioneer agrees to convey water diverted under Mason Creek's water rights into the Highline Canal, at no cost to Mason Creek, to delivery headgates on the Highline Canal for use on lands owned by Mason Creek shareholders. Mason Creek's water rights have delivery priority over Pioneer's. Pioneer's water rights may be diverted into the Highline Canal when and to the extent that the capacity of the canal is not required to deliver Mason Creek's water rights. Pioneer agrees to operate, maintain and repair the Highline Canal in order to deliver Mason Creek's water rights.

8. Mason Creek agrees that Pioneer has the right to install measuring devices at its own expense on Mason Creek delivery headgates on the Highline Canal, when Pioneer requires measuring devices of all deliveries from the Highline Canal.

9. Mason Creek agrees to provide Pioneer with accurate contact information, specifying the responsible party for each Mason Creek delivery headgate to allow Pioneer to notify those parties prior to chemical treatment of water in the Highline Canal.

10. Mason Creek and Pioneer agree to conduct a joint meeting of their Boards of Directors each year, on or about the first Thursday in March, at a mutually acceptable location. Franklin Ditch Company may also

attend. The meeting is for the purpose of discussing any issues involving implementation of this Agreement and other issues of mutual concern.

11. This Agreement shall be enforced and construed under the laws of Idaho.

12. All notices permitted or required to be given under the terms of this Agreement shall be in writing and shall be deemed effective upon receipt if sent by first class mail, postage prepaid, and addressed to the respective party hereto as follows, or at such other address as a party designates in writing.

PIONEER IRRIGATION DISTRICT
Post Office Box 426
Caldwell, Idaho 83605

MASON CREEK DITCH COMPANY
1905 Mason
Caldwell, Idaho 83605

13. This Agreement shall be recorded at the Canyon County Recorder's Office.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the date first set forth above.

PIONEER IRRIGATION DISTRICT

By: Alan Newkirk
President of its Board of Directors

Attest:
Dawn C. Fowler
, Secretary

MASON CREEK DITCH COMPANY

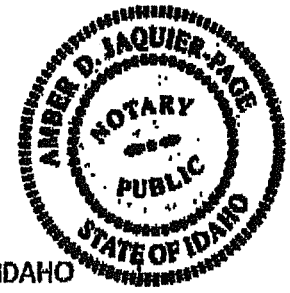
By:
President of its Board of Directors
JOHN J McEVOY

Attest:
Rick Bucanda
, Secretary

STATE OF IDAHO)
) ss.
County of Canyon)

On this 14th day of December, 2010, before me, the undersigned Notary Public in and for the said State, personally appeared Alan Newbill, known or identified to me to be the President of **PIONEER IRRIGATION DISTRICT**, the person who executed the instrument on behalf of **PIONEER IRRIGATION DISTRICT**, and acknowledged to me that **PIONEER IRRIGATION DISTRICT** executed the same.

IN WITNESS WHEREOF, I have set my hand and affixed my official seal the day and year in this certificate first above written.

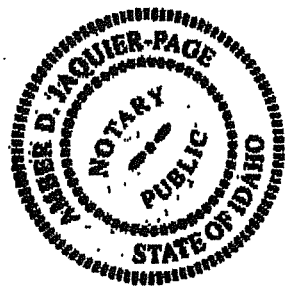


Amber D. Jaquier-Page
NOTARY PUBLIC FOR IDAHO
Residing at Middleton
My commission expires 9/26/12

STATE OF IDAHO)
) ss.
County of Canyon)

On this 14th day of December, 2010, before me, the undersigned Notary Public in and for the said State, personally appeared Dawn C. Fowler, known or identified to me to be the Secretary of **PIONEER IRRIGATION DISTRICT**, the person who executed the instrument on behalf of **PIONEER IRRIGATION DISTRICT**, and acknowledged to me that **PIONEER IRRIGATION DISTRICT** executed the same.

IN WITNESS WHEREOF, I have set my hand and affixed my official seal the day and year in this certificate first above written.



Amber D. Jaquier-Page
NOTARY PUBLIC FOR IDAHO
Residing at Middleton
My commission expires 9/26/12

STATE OF IDAHO)
) ss.
County of Canyon)

On this 14th day of December, 2010, before me, the undersigned Notary Public in and for the said State, personally appeared John S. McEvoy, known or identified to me to be the President of **MASON CREEK DITCH COMPANY**, the person who executed the instrument on behalf of **MASON CREEK DITCH COMPANY**, and acknowledged to me that **MASON CREEK DITCH COMPANY** executed the same.

IN WITNESS WHEREOF, I have set my hand and affixed my official seal the day and year in this certificate first above written.

AMBER D. JAQUIER-PAGE NOTARY PUBLIC STATE OF IDAHO

Amber D. Jaquier-Page
NOTARY PUBLIC FOR IDAHO
Residing at Middleton
My commission expires 9/21/12

STATE OF IDAHO)
) ss.
County of Canyon)

On this 14th day of December, 2010, before me, the undersigned Notary Public in and for the said State, personally appeared Dick Bicandi, known or identified to me to be the Secretary of **MASON CREEK DITCH COMPANY**, the person who executed the instrument on behalf of **MASON CREEK DITCH COMPANY**, and acknowledged to me that **MASON CREEK DITCH COMPANY** executed the same.

IN WITNESS WHEREOF, I have set my hand and affixed my official seal the day and year in this certificate first above written.

AMBER D. JAQUIER-PAGE NOTARY PUBLIC STATE OF IDAHO

Amber D. Jaquier-Page
NOTARY PUBLIC FOR IDAHO
Residing at Middleton
My commission expires 9/21/12

EXHIBIT 2

NOTE: TRANSCRIPT COPIES PREVIOUSLY FAXED TO JAN SHURTE FROM MARTIN GALVIN ON 8-10-2011

August 1, 2011

TO: Idaho Dept. of Water Resources

ATTN: Jan

My name is Martin Galvin. I have knowledge of and have irrigated under the Mason Creek Ditch Co. for 65 years.

The part of the Mason Creek Ditch Co. that I have been affiliated with is known as the Ten Mile Lateral. This lateral is diverted from Fifteen Mile Creek, which flows through the old Earl Uptmor place. This property lies east of Midland Blvd. and north of Lincoln Road along the west quarter line of Sec. 16, Township 4N Range 2W.

The Ten Mile Lateral is diverted out of Fifteen Mile Creek approximately one half mile south of where it enters the Boise River. The Ten Mile Lateral irrigates approximately 513 acres of Mason Creek Ditch Company's 1600 plus acres.

Due to the small amount of acres Mason Creek Ditch Co. has never hired a manager or ditch rider. The stockholders have always done all of the operations and maintenance themselves. I have been involved with operations and maintenance for over 65 years.

Due to Pioneer District's objections in the SRBA of Mason Creek Ditch Company's Boise River water rights which is delivered through the Caldwell Hi-line, we thought it best to file a late waste water right claim. Along with all of the waste water that is collected from Five Mile Drain, Ten Mile Drain, and Fifteen Mile Drain which runs from the Boise River to the southeast clear to the Kuna area, there is a small drain known to Franklin Ditch Company stockholders that irrigate east of Midland Blvd. as the Little Slough, which picks up drain water from approximately 473 acres. This land lies between the bluff and the Boise River. The Little Slough runs some water all year and enters Fifteen Mile Creek approximately one quarter mile upstream from where Mason Creek's Ten Mile Lateral has its heading.

With all of the information and Franklin Ditch Co. water rights No. 34 Priority Date July 3,1 866 of 770 inches (63-0166) and No. 77 Priority Date October 29, 1880 of 1380 inches (63-0167).

The IDWR should be able to give Mason Creek Ditch Co. early drain water rights. In early days, prior to putting Mason Creek's water into the Franklin Ditch, this water went clear to the Canyon in the Big Mason Slough.

This brings up the question that if there is no record of Franklin's water right No. 34 of 770 inches being moved into the Caldwell Hi-line out of the Little Slough it could have caused injury to Mason Creek Ditch Co. or it may explain how Pioneer's water right No. 90 of 2655 inches got moved out of the Caldwell Hi-line to the Phyllis with no record. It seems reasonable that when you add up Mason Creek's water right No. 46 of 1860 inches and Franklin's water right No. 34 of 770 inches they total 2630 inches which is very close to Pioneers Irrigation's water right No. 90 of 2655 inches. These water rights were all moved without any record so if there was no verbal agreement, then that would mean Mason's water right No. 46 and Franklin water right No. 34 have been in the Caldwell Hi-line adversely for over 90 years.

Martin C Galvin

Mason Creek Board Member, Martin C. Galvin

ALBERT P. BARKER
JOHN A. ROSHOLT
JOHN K. SIMPSON
TRAVIS L. THOMPSON
SHELLEY M. DAVIS
PAUL L. ARRINGTON
SCOTT A. MAGNUSON
SARAH W. HIGER

BARKER ROSHOLT & SIMPSON LLP

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August 8, 2011

Martin Galvin
P. O. Box 115
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John McEvoy
1703 N. KCID Road
Caldwell, ID 83605

Richard Bicandi
1905 Mason Road
Caldwell, ID 83605

Re: Pioneer Irrigation District Litigation Plan

Dear Gentlemen:

Pioneer has objected to all of three Mason Creek water rights:

1.) Boise River water right 63-179C;
2.) Wastewater claim for Mason Creek 63-32580; and
3.) Wastewater claim for Ten Mile/Fifteen Mile Creek 63-33392.

Pioneer has taken the position that because there is no contract between Pioneer and Mason Creek then Mason Creek has no right to use the Pioneer's Caldwell Highline Canal to deliver water to Mason Creek. Pioneer also asserted a claim to Mason Creek's right, which was given the number 63-179A.

Mason Creek's Boise River Right 63-179C.

The SRBA Court granted Pioneer's motion to remand this subcase to the Department of Water Resources to determine whether or not the accomplished transfer of the point of diversion from Section 16 to the Caldwell Highline Canal caused an injury or enlargement of the right. This is a condition of the SRBA statutes. The Court gave the parties until August 19th to submit any additional information to the Department on injury and enlargement associated with that change in point of diversion. Once that determination is made, the Department will either issue a Supplemental Director's Report or an Amended Director's Report. If the Department issues a Supplemental Director's Report it means there has been no change in its recommendation and it

will simply explain why they find no injury or enlargement. If they issue an Amended Director's Report it will be because they are changing the recommendation concerning the point of diversion from Section 16 to the Caldwell Highline Canal. I anticipate that the Department will affirm its decision to recognize an accomplished change in the point of diversion.

The first step is to provide the Department with as much information as possible concerning the original locations of the diversion and the change to the Caldwell Highline. In addition, we need to provide the Department with as much information as we can about moving Pioneer's right number 90 from the Caldwell Highline to the Phyllis. You should be aware that the Department already recognized a change in point of diversion from the Highline to the Phyllis was an accomplished transfer for Pioneer's right number 90. The partial decree for this right recognizes both points of diversion. 63-371

I recommended that we provide the Department with additional information including the maps that John brought in on Friday, August 5, 2011. I recommend that someone from my office go over to the Pioneer Irrigation District Office and review their records, including the Board of Directors records from the early 1900s to see what else they have that discusses Pioneer's use of the Phyllis and Caldwell Highline canals and the expansion of the Phyllis which seems to have taken place about 1915, as shown on one of the maps that John brought in. So far all we have is what they chose to provide us. Also attached is some additional testimony in the Stewart Decree of the founders of Mason Creek. I would appreciate your thoughts on how this testimony fits into our case.

Even after the Department rules on whether or not there has been any injury or enlargement in the accomplished transfer, we still have to face the rest of Pioneer's objections to this right. Pioneer has objected to the number of acres and to the amount of water, asserting that there has been a partial forfeiture. My recommendation is that we obtain from the Water Master in District 63, a copy of the delivery records for every year from as far back in time as the records go for deliveries into the Caldwell Highline and for the delivery of Mason Creek's Boise River right. With respect to the number of acres irrigated we need to be able to identify for the Court the location of the laterals and what lands are being delivered. As you will remember from the Affidavit filed by Scott King, Pioneer's hydrologist, he contends that there are only about 50 acres of land irrigated directly out of the Caldwell Highline that belong to Mason Creek. We need to be able to demonstrate that assertion is incorrect. I would also suggest some additional written discovery requests should be sent to Pioneer. Pioneer previously sent a notice to take a deposition of Mason Creek that we had scheduled for last fall and then postponed because of the settlement. The Court will allow Pioneer to reschedule that deposition. So far I have not heard when they would want to schedule that deposition. I also think we should locate and interview the former Pioneer manager who was discharged by Pioneer. If any of you know him or know how to get in touch with him, I strongly suggest that we get him in and talk to him about the Mason Creek situation. He may very well be interested in helping us given how he seems to have been treated by Pioneer's Board. We may also want to take a deposition or two ourselves of Allen Newbill and perhaps the Pioneer manager concerning operations of their system and the

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We had no Control

interrelationship with the drains and sloughs between Pioneer and the river. Trial is scheduled for three days beginning February 22, 2012.

63-32580 Mason Creek Right.

This right was claimed as a beneficial use right for Mason Creek right with a priority date of June 1, 1869, which is the same priority date as the river right. The Department has recommended the priority date to be March 1, 1922. Based upon Jan Shurte's comments, the Department reached that conclusion because that what they thought most of the wastewater began to be developed in this part of the valley. Pioneer has objected to the right and the recommended priority date of March 1, 1922. Mason Creek did not object to the recommendation. However since Pioneer has objected, Mason Creek may be able to offer evidence showing earlier priority, hoping that the Court will find an earlier date than the 1922 date. Accordingly, we should be developing as much information as possible on use of water from Mason Creek. This Mason Creek right is consolidated for trial with right 63-179C and trial is now scheduled for February 22, 2012 for three days. It is important that we gather together as much information as we can about use from Mason Creek on the next couple of months. The maps that John brought in today will be helpful.

Water Right 63-33392 Ten Mile/Fifteen Mile.

This right is a beneficial use claim from Ten Mile/Fifteen Mile, also with a claimed priority date of 6/01/1869, the same date as 63-179C. I spoke with Jan Shurte, she would like any information that we can provide concerning the earliest possible date of use of wastewater or any water out of Fifteen Mile. We have some evidence from the testimony in the Stewart Decree about how those early sloughs were dammed up and we have some indication from the maps that John brought in about the diversions out of Ten Mile. It would be useful to be able to state in writing anything that any of you know about how far back in time, the use of Ten Mile as a source began, and anything that you have been told by any of your predecessors and any other water users on the ditch, about Ten Mile as a source and what lands it irrigates. If we can get that into the record, that will help Jan make her decision. It does not have to be something that is known only to your personal knowledge. We can put into evidence hearsay through the Department. Particularly about the history of use of the water rights, the Department recognizes that in trying to find out what happened in the 19th Century, there are not too many people around who remember. This information should be gathered as soon as possible, but we not stuck with the August 19, 2011 deadline.

Possible Lawsuit vs. Pioneer in Canyon County District Court.

One option we need to decide on is whether and when to file a separate lawsuit against Pioneer asserting a prescriptive easement or adverse possession for the use of the Caldwell Highline Canal. The SRBA Court does not have the jurisdiction over rights-of-way, so lawsuit this would have to be filed in District Court in Canyon County. Much of the evidence that we are gathering to show the accomplished transfer for the change in point of diversion would be

useful in such a lawsuit. Pioneer says that there is no agreement with Mason Creek. Mason Creek has claimed the right to use the Caldwell Highline to deliver its Boise River right for nearly one hundred years. That would be the basis of our claim for adverse possession. In the alternative, Mason Creek could condemn a right-of-way through the Caldwell Highline Canal for delivery of its water. The "damages" of such condemnation under the Idaho case law is the additional maintenance cost incurred by Pioneer to deliver that water. Since Pioneer has been delivering that water all along, there is least arguably no additional cost for a condemnation of the right to continue to be able to use that canal. Such a decision could also let Pioneer's Board off the hook because under Judge Booth's earlier ruling they apparently believe they cannot agree to allow Mason Creek to use the canal. If a district court holds that Mason Creek has a right to use the canal under an adverse possession theory, then Pioneer is bound. John, if you could locate some information for me about the City of Caldwell suit against Pioneer for use of their ditch, I would like to see the Complaint and Answer and any decision by the Court.

Pioneer's Claim to Mason Creek Right 63-179A.

Last fall we obtained a summary judgment from the Special Master that Pioneer had no claim to water right 63-179A. I asked the court to disallow that right and issue a partial decree. The court did so in an order issued in early June. This weekend, I discovered that partial decree when reviewing the Mason Creek rights on-line in the IDWR website. I was not served with a copy of the partial decree and nor were any of you served, based on the certificate of service.

Ordinarily this would not be a bad thing. We wanted that claim to go away and it has. Pioneer cannot appeal that decision. However, the time passed for me to file a request for attorneys' fees against Pioneer before I even found out that the Order had been entered. We would ask that fees be awarded because the claim to right 63-179A was frivolous. Indeed, Pioneer put up no argument why it even made this claim.

If you want to make a claim for fees, we need to file a motion with the court asking it to set aside the Order and re-issue it for a clerical mistake of not serving all the parties. There is no guarantee that the court will set aside the Order, and no guarantee that we would get any attorneys' fees if the court does give us time to ask for fees on this subcase 63-179A. If we are going to ask for this remedy, we have to file right away. Of course, seeking fees from Pioneer may further derail settlement discussions and make final resolution harder and more expensive. In addition, setting aside and re-entering the partial decree would allow Pioneer the option of filing an appeal, which has now expired.

Motion to Reconsider – Settlement.

We also have the ability to ask the Special Master to reconsider his decision that the settlement agreement is unenforceable. We could show that Settlers entered into a similar agreement with ACHD authorizing use of the canals and drains for ACHD's drainage under an adverse possessive theory. We could show the court that we are seeking the same adverse

possession remedy by filing the Canyon County lawsuit. That would mean we are stuck with the December agreement.

Settlement.

Pioneer also may be willing to settle if they keep the right to kick you out of the canal, if they need it. They think they need that right in time of drought. They also want to be obligated to deliver to Franklin and Mason Creek the "current capacity" (whatever that is). We should discuss whether a response to their most recent proposal is worth making, after they rejected your proposal.

Costs and Fees.

All of this litigation has become expensive, because of Pioneer's approach to dragging everything out and their unwillingness to agree to the settlement they agreed to. We have incurred more than $40,000 in costs and fees and have not been paid. The Department would not accept the water in the bank while Pioneer's objections were pending. While we have a trial date in February 2012, it is possible Pioneer could drag that out even beyond the 2012 irrigation season.

The rest of the litigation could easily double the fees, and will likely be even more than that especially if we get in a big fight over an adverse possession lawsuit in district court. Therefore, we need to come to some arrangement to pay for the fees and costs as we go forward into this significant effort.

Very truly yours,

BARKER ROSHOLT & SIMPSON LLP

Albert P. Barker/se

Albert P. Barker

APB/se
Enclosures

to supply the land for irrigation than during any previous season.

That a uniformly low temperature, hazy or cloudy
4921 days, evenly distributed and late rainfall, and many other exceedingly unusual climatic conditions contributed to the causes of this condition or fact.

That there was, however, an insufficient supply of water in Boise river during the season of 1907, but not so serious as previous years, and not of sufficient duration to kill plants or destroy trees.

C. S. TUCKER.
A. J. HUETT.
L. V. STAFFORD.
4922 NATHANIEL BAKER.
MRS. C. FINK.
WILLIAM SIEBENBERG.

Subscribed and sworn to before me this 13th day of February, 1908.

(Seal) H. E. GRIFFITHS,
Notary Public.

STATE OF IDAHO, }
County of Canyon. } *ss.*

L. F. Cook, John Thomas, C. W. Cooper, C. C.
4923 Boles, Charles N. Cook, Geo. Milliner, being first duly sworn, each for himself states

That he owns land under the flow of the Franklin Ditch Company's canal and has reclaimed and cultivates and irrigates said land through and by means of said canal, and has during all of the times herein mentioned.

That the sub-soil of practically all the land under said canal is a loose coarse gravel, and when water

FROM :THE GALVINS FAX NO. :585 2922 Aug. 10 2011 12:36PM P7

farmed or used for homes with any less supply of water than was awarded by the decrees in this case. And that the supply of water, estimated by N. S. Dils, Alex McPherson and others, in their affidavits now on
4934 file on motion for a new trial herein, as a quantity sufficient for said lands, is not sufficient for the profitable or successful use of said lands for homes and farms.

That the capacity of said canal was fully considered at the trial of this cause and the evidence there showed, and the facts are that said canal at the time of said trial and at all times since its construction would carry and at all of said times had actually carried a much larger quantity of water than was awarded to said
4935 canal by the decree of this case.

That the first shortage of water in Boise river occurred several years prior to the year 1900 and that prior to that year much damage had been sustained by the land owners in the lower part of the Boise valley by reason of such shortage of water.

That the climatic conditions in Boise valley in the summer of 1907 were different from any prior season of which affiant has any knowledge, and that a less quantity of water was sufficient during said
4936 season to supply the land for irrigation than during any previous season. That a uniformly low temperature, hazy or cloudy days, evenly distributed and late rainfall, and many other exceeding unusual climatic conditions contributed to the causes of this condition or fact. That there was, however, an insufficient supply of water in Boise river during the season of 1907 but not so serious as previous years and not of sufficient duration to kill plants or destroy trees.

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4937 L. F. COOK.
JOHN THOMAS.
J. P. WELLS.
C. C. BOLES.
CHARLES M. COOK.
GEO. MILLINER.
H. M. WHITNEY.

Subscribed and sworn to before me this 13th day of February, 1908.

(Seal) H. F. GRIFFITHS,
Notary Public.

4938 *STATE OF IDAHO,*
County of Canyon, } *ss.*

H. M. Dorman, J. E. Moreland, T. T. Johnston, James F. McIntyre, Benjamin White, M. P. Coshman, S. W. Vail, J. L. Powell, J. B. Garfield, Victor Hammon, E .C. Spencer, being first duly sworn, each for himself states

That he owns land under the flow of the Pioneer Dixie Ditch Company's canal and has reclaimed and cultivates and irrigates said land through and by
4939 means of said canal, and has during all of the times herein mentioned.

That the sub-soil of practically all the land under said canal is a loose coarse gravel, and when water is low in Boise river said soil dries very quickly and requires a large quantity of water for irrigation.

That during the seasons of 1905 and 1906 there was not sufficient water distributed from Boise river for maturing the crops on said lands, and crops were all dried and parched and many of the plants actually
4940 killed and some fruit trees and ornamental trees were

is low in Boise river said soil dries very quickly and
4924 requires a large quantity of water for irrigation.

That during the seasons of 1905 and 1906 there was not sufficient water distributed from Boise river for maturing the crops on said lands, and crops were all dried and parched and many of the plants actually killed and some fruit trees and ornamental trees were dried so they subsequently died by reason of short or lack of supply of water on said lands during said seasons.

That there has been used on said lands for irriga-
4925 tion purposes from the time they were first reclaimed a quantity of water larger than is adjudicated for said lands in the decree in this case, and that no less quantity has ever been so used except when the order of this Court or the interference of these appellants caused or required a less quantity to be used, and in each of these cases the trees, plants and crops growing on said lands were damaged and in many instances entirely destroyed.

That said lands cannot be profitably or successfully
4926 farmed or used for homes with any less supply of water than was awarded by the decrees in this case. And that the supply of water, estimated by N. S. Dils, Alex McPherson and others, in their affidavits now on file on motion for a new trial herein, as a quantity sufficient for said lands, is not sufficient for the profitable or successful use of said lands for homes and farms.

That the capacity of said canal was fully considered at the trial of this cause and the evidence there showed
4927 and the facts are that said canal at the time of said trial and at all times since its construction would carry

and at all of said times had actually carried a much larger quantity of water than was awarded to said canal by the decree of this case.

That the first shortage of water in Boise river occurred several years prior to the year 1900 and that prior to that year much damage had been sustained by the land owners in the lower part of the Boise valley by reason of such shortage of water.

4928 That the climatic conditions in Boise valley in the summer of 1907 were different from any prior season of which affiant has any knowledge, and that a less quantity of water was sufficient during said season to supply the land for irrigation than during any previous season. That a uniformly low temperature, hazy or cloudy days, evenly distributed and late rainfall, and many other exceeding unusual climatic conditions contributed to the causes of this condition or fact. That there was, however, an insufficient 4929 supply of water in Boise river during the season of 1907, but not so serious as previous years, and not of sufficient duration to kill plants or destroy trees.

L. F. COOK.
JOHN THOMAS.
C. W. COOPER.
C. C. BOLES.
CHARLES M. COOK.
GEO. MILLINER.

Subscribed and sworn to before me this 13th day 4930 of February, 1908.

(Seal) H. F. GRIFFITHS,
Notary Public.

FROM :THE GALVINS FAX NO. :585 2922 Aug. 10 2011 12:43PM P11

STATE OF IDAHO, } ss.
County of Canyon. }

L. F. Cook, John Thomas, J. P. Wells, C. C. Boles, Charles M. Cook, Geo. Milliner, H. M. Whitney, being first duly sworn, each for himself states

That he owns land under the flow of the Mason Creek Ditch Company's canal and has reclaimed and
4931 cultivates and irrigates said land through and by means of said canal and has during all of the times herein mentioned.

That the sub-soil of practically all the land under said canal is a loose coarse gravel, and when water is low in Boise river said soil dries very quickly and requires a large quantity of water for irrigation.

That during the seasons of 1905 and 1906 there was not sufficient water distributed from Boise river for maturing the crops on said lands, and crops were
4932 all dried and parched and many of the plants actually killed and some fruit trees and ornamental trees were dried so they subsequently died by reason of short or lack of supply of water on said lands during said seasons.

That there has been used on said lands for irrigation purposes from the time they were first reclaimed a quantity of water larger than is adjudicated for said lands in the decree in this case, and that no less quantity has ever been so used except when the order
4933 of this Court or the interference of these appellants caused or required a less quantity to be used, and in each of these cases the trees, plants and crops growing on said lands were damaged and in many instances entirely destroyed.

That said lands cannot be profitably or successfully

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I irrigated both, or all of these tracts; that is 320 acres.

2999 What this slough sub irrigates I don't have to irrigate from the Franklin ditch. I put this water on the same land that the Franklin ditch goes on.

CROSS EXAMINATION BY MR. WOOD

My timber is on the north 80 of my daughter's entry.

REDIRECT EXAMINATION BY MR. GRIFFITH

The description of the land my daughter owns is the south half of the southwest quarter of section 16, and the north half of the northwest quarter of section 21;
3000 and my quarter is directly south of that. My land is on sections sixteen and twenty-one. This slough runs over that 80 in section 16. This slough coming out of the river, and the other slough coming down, they join together. The creek empties into that slough that we have all irrigated out of, and they all come together about the center of the east 40 of that 80, and the slough runs on west. It leaves the land about the center of the west 40, and it runs off onto Thomas's on the north side and then there is a dam
3001 there to keep it from running back into the river, and the slough runs back and cuts the northwest quarter. This timber that is irrigated by damming the slough is on the north side of the slough, and extends back east.

John Thomas, recalled as a witness, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I stated that I lived where I now live since 1866; I irrigate some of my land from this Mason slough.
3002 About 45, maybe 50 acres is irrigated from this source. I think me and Mr. Wooten put a cut in there in 1868 or '69, a headgate I mean. I had 156 acres there all together; it lies right west, a part of it north of Madden's place, and I irrigated about 45 acres from this slough. I never was in the corporation but used water from it, and everybody below us watered from it. I bought part of the land from a party who was in the corporation. I irrigated the lower tract of land from the Mason slough; it joins Madden's place. I
3003 irrigate the north part of my land from the Mason slough; the place farther down the river. I have got three places up there. I irrigate the two upper ones from the Franklin slough. The third place joins Mr. Wheatley on the north, that is this one next to the railroad. The second one joins Charles Madden. I irrigate in section 17, joining the railroad right of way from the same slough as the Franklin ditch. I do not irrigate from the Franklin ditch, I irrigate 45 acres of the lower place from the Mason slough. There are
3004 107 and 156 acres in the two upper places joining Madden; I irrigate it all; I had it all in cultivation, except what washed away; I stated this morning that I had under cultivation on these two places 160 acres.

CROSS EXAMINATION BY MR. WOOD

I call the northwest quarter of section 17, joining the railroad track, the lower place; I irrigated that all out of the slough. The Franklin ditch has nothing to do with it.

BY THE COURT

3005 There is not a bit of difference between this Mason creek slough and the Mason slough that the Franklin ditch empties into.

BY MR. WOOD

This 75 acres was credited to the Franklin ditch.

BY THE STATE ENGINEER

That is a mistake; I took it all out of the Franklin slough. I irrigate nearly 80 acres from that slough. I think I meant the upper place when I stated that I irrigated nearly 45 or 50 acres. I don't irrigate the 3006 upper place out of the upper slough. I said I irrigate the upper land out of the Mason slough because I had an old ditch up there and I had no water.

BY MR. GRIFFITH

There was 160 acres and a fraction of 37 acres in the Plowhead place, but I think the fraction all washed away and I think a little of the other. I think there is about 120 acres left. The Snobbel place is the same place I bought from him, that is the Plowhead place. In my original place, the place that I took originally there 3007 was 156 acres in one and 107 acres in the other, that would make 267 acres, and from that 40 acres washed off one tract.

L. F. Cook, recalled as a witness, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I have lived about three miles and a half from Cald-

well since 1879; I own about 471 acres there. That land is irrigated from the Boise river through these sloughs; it is pretty hard to tell what I irrigate out
3008 of the main canal of the Pioneer Irrigation District.

There is 80 acres lying outside of all of the sloughs next to the bluff. I have an interest in 79 1-2 inches coming out of the slough and irrigate that 80 acres with that, and the rest of this land is irrigated from this water, from what we would call the Mason slough and the Franklin ditch together. We have had 79 1-2 inches put in our shares. In putting in the ditches in different places when that ditch was built there was 1,350 inches of water to be divided between us, and
3009 the water that comes down is all turned in at two different points, one near the headgate of the ditch and the other at the "Waste slough." One is 800 inches and the other 350 inches, then the Mason creek comes right into the same slough again. I don't know how much water I get from these two sources that comes from the Strahorn heading. The 1,350 inches is divided into 17 shares, and that would give me 125 inches. The whole ranch is all irrigated, that on the bench and all on the bottom, 471 acres.

3010 BY THE COURT

I said this morning that 250 acres was in cultivation in hay and grain; now there is pasture land and hay land.

BY MR. GRIFFITH

I have about 250 acres under cultivation that I irrigate for the purpose of pasture and hay, native grass that grows there wild hay. I knew the people ir-

rigating from this slough, the Mason slough, when first come there. It goes through the Madden ranch,
3011 Thomas, Hamilton Davis, Mr. Beardsley's, now owned by Mr. Whitney, through the Wooten place on down the canyon; through Potts' place and Mr. Wells.' The Potter ranch was all owned at that time by Mr. Potts. Mr. Job is below the Potts ranch. The people incorporated that into a company known as the Mason Creek Ditch Company; they became members of that company and regulated the proportion and distribution of the water from that same source thereafter.

Mr. Madden, Mr. Thomas, Hamilton Davis, Whit-
3012 ney, Milliner and myself, Mr. Hesse, Mr. Wells and Mr. Mason right at the canyon, own this land at the present time. Mr. Smith owns the 40 acres right east of Mr. Whitney. All that is a part of the Hamilton Davis place; it is known now as the Stoddard place.

At the time we made the transfer to the Idaho and Oregon Land and Improvement Company, one year when the water was a little short we saw that we didn't have as much water in the sloughs as we should have, we then went to work and organized an incorporation
3013 known as the Mason Creek Ditch Company, and then we took in other members and other lands beside what was irrigated from the Franklin ditch, persons who are not under the Franklin ditch at all, but have irrigated from this slough. This land has been irrigated from this slough ever since I have been there.

BY MR. WOOD

It is pretty hard for me to tell how much of my land I irrigate from the Mason slough. The water runs together for a half a mile. I take water out of two

places now; I don't know how to get at how much water I use in irrigating land from the Mason slough. I don't know—I would say something over 100 acres of land irrigated from the Mason slough. I would say about 125 acres, maybe 150 acres of my land is actually under cultivation and irrigated from the Franklin ditch. I own besides the west half of section 18, the southeast quarter of the northeast quarter and the northeast quarter of the northeast quarter of section 13, and then I own the southeast quarter of the northeast quarter of section 24.

These two 40's, the west half of section 18, the southeast quarter of the northeast quarter of section 24, then there is a 40 that lies in here (indicating) belonging to a man named Parrish in section 13, between what I own there and own in section 24.

A part of the 40 acres in the northeast quarter of the northeast quarter of section 24 is in alfalfa, about 20 acres. I took up that 10 as a pre-emption about 1885; it was sage brush land. The sage brush has not been cleared off all of it, about one-half of this 40 acres is still in sage brush.

BY MR. BORAH

We generally call what I own 480 acres the township line runs through there and there are a few lots; I think it is 471 acres and a fraction. I could hardly tell you how much I irrigate and how much I put water on. There is some timber land lying next to the river and the sloughs irrigate the timber, I should think there must be 40 acres of it. There must be over 300 acres that I irrigate out of the 471 acres, pasture

land and everything. I don't know how much is sub irrigated from these sloughs. The timber land next to the river sub irrigates. There is about 40 acres of that land. I irrigate this from the Mason ditch and the Franklin ditch.

I have 80 acres lying apart from my other land that I irrigate from the Franklin ditch. That water is not mingled with the Mason creek ditch at all. The Mason creek and Franklin ditch all mingles. There has never
3018 been any measuring device arranged by which we could tell how much water I use coming from the Mason creek ditch and how much from the Franklin. I have 80 acres that the Mason creek ditch doesn't irrigate at all. That is irrigated wholly from the Franklin.

BY MR. GRIFFITH

I dam the water up in the sloughs to irrigate the pasture land and the timber land. Most generally the hay land I am aiming to run water out over the land
3019 and the grain land I sub it. I flood all my land by entirely by damming the sloughs or running it over the surface one way or another. I wet all of my land in one of these two ways, and from one of these two sources. I have been irrigating this land in this manner ever since I have been on the place. I bought the place from a man by the name of Marion E. Mason. A portion of it I pre-empted myself. When I found after this survey that the house was not on the land I bought, as I thought it was, I pre-empted that tract, 160
3020 acres.

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BY MR. RICE

I don't know how much timber land there is. I expect there is 80 acres of this 471 acres still in sage brush, probably more. I seeded about 20 acres of this sage brush to alfalfa and clover, the biggest portion of it. I have taken off the sage brush—the sage brush is still standing on probably 100 acres; I don't know, there is 100 acres, about that. I have never seeded anything on this where the sage brush is standing.

3021 L. F. Cook, recalled, testifies as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I now own 471 acres that has been figured up with the assessor. There would be if it takes an inch to the acre, 147 inches of water used on it that comes from the Franklin ditch. The only way to get at it is to divide by the number of inches in the Franklin ditch, divide 2,500 inches and that gives 147 inches. I irrigate all of my place; it is in pasture, grain land and hay. It is all fenced. The balance of it is irrigated
3022 from the Mason creek head. I think that would leave 324 acres irrigated from that source. I am acquainted with the different persons and land owners who irrigate from thisMason creek ditch and slough. They are John Thomas, Emma Stoddard, Hamilton Davis, H. N. Whitney and Jacob Plowhead—it is owned by Mr. Thomas. Next after Whitney coming down the slough is L. O. Leonard, George Milliner, myself, L. F. Cook, Charles E. Gooey, J. W. Ballard, George Hesse, S. H. Vassar, Charles S. Wells, Edith Mason and C. Mason.
3023 J. P. Wells has 120 acres, and the other is 1,800 acres

or something over it, I don't just remember what it is, but I think something over that.

CROSS EXAMINATION BY MR. RICE

John Thomas irrigates some of his Plowhead place beside from Mason creek. This Mason Creek Ditch Company is not a capital stock company, it is a partnership company. I don't know as I can explain to you how a member becomes a member of the Mason Creek Ditch Company. I paid in about the amount
3024 that was done in the first place, to put in headgate and dams and such as that and become a member. I expect that Thomas irrigates something near 200 acres out of the Mason creek slough. I don't know exactly where the line runs through or how his land lies.

Of the Emma Stoddard place there is about 50 acres that lies above the grade of the Mason creek ditch. There is a little ditch that goes right around under the bluff back of the house that comes out of the Mason slough. This is the highest point it reaches. I don't
3025 remember the size of the headgate of that little ditch, but I should think it was something like three or four feet. It has been carrying water right along the last year. I guess every year so far as I know there has been water running through the headgate there. I don't know whether the balance of the Stoddard land is considered too wet or not—I don't know whether they are cultivating it or not. I don't know just how it is, I am not positive, I haven't been through there—I don't know whether it has been irrigated from this ditch
3026 or not. I don't know whether this 40 acres credited for the Hamilton Davis place to the Mason slough is exclusive of the amount put in as being irrigated from the

Franklin ditch on the Hamilton Davis place. I can hardly say how much land on the Hamilton Davis place is under cultivation now. Some of the place lies up towards the bluff, towards the Franklin ditch; I don't know whether it is cultivated or not; it is fenced, but I don't know whether they use water on it or not, but all down on the bottom is under cultivation.

3027 Part of the Leonard place is covered with timber. The state engineer's map is not correct as the river has cut in there until there is about only 15 acres of that place. I think this list here (indicating) would be excessive of the amount, to the amount of 15 acres, if it were all cultivated. It is all in timber except for what grass grows among the timber.

The Vassar place is south of the Hesse place, it is in pasture, there is some sage brush on it and grass There are different grasses, some of it is salt grass.
3028 Mr. Vassar runs water over that. That was once under cultivation when Mason creek ditch was first built, it was first put under cultivation in grain and alfalfa by Mr. Evans, then they went out of the country and there was nobody on it for a while, and then they rented it and it has been used for pasture ever since.

Mr. George Milliner, recalled as a witness, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live about four miles east of Caldwell; I have
3029 lived there three years; I know the land irrigated from the Mason creek ditch; I own land irrigated from that ditch; I own about 173 acres.

A man by the name of L. McIntyre and another by the name of George Houton originally owned that

land. I own all together in that same tract 323 acres; 173 acres of this is irrigated from the Mason creek ditch. I am acquainted with the persons who irrigate from this ditch at the present time; I think I am. I saw some names here that I am not ac-
3030 quainted with, probably they were people whom I have never seen, some of them ranchers. The Hamilton Davis ranch I know, but I don't know much about them people at all, and the Stoddard ranch I have never seen any of them. I know the renter who is on his place. I know where the Stoddard land lies, and have been across all of it. I know the place irrigated from this ditch.

This list (indicating) contains the name of the owners, and the number of acres owned, and the num-
3031 ber of acres irrigated from the Mason creek ditch, as far as I know, but I have not measured their land, it does to the best of my knowledge. To the best of my knowledge the acreage would be all right.

(Counsel for the Mason Creek Ditch Company offers the paper mentioned, marked as Exhibit A, in evidence.)

I believe there is somewhere between 1,800 and 2,000 acres irrigated from the Mason creek ditch; 1,850 acres I believe is what it has been figured at on
3032 that list. I have been put in as secretary of the Mason Creek Ditch Company, I suppose although I haven't acted, I have got neglectful of that business. Generally when we have our meeting we call on somebody who is qualified to handle the business. I believe I saw the articles of incorporation of that company. As near as I can tell there is no capital stock, it is just a partnership company.

CROSS EXAMINATION BY MR. RICE

I am familiar with the Mason creek slough, or the
3033 Mason creek ditch from its head on down. We have a headgate at the river which is seven feet wide and five feet high. Farther on down to Ten Mile is a slough, or a part of the river. Then we have gates again at Ten Mile. When we get down to the Whitney place, or somewhere near there, there is a dam put in the slough and a constructed ditch on down.

It has been carrying the proper amount of water heretofore, but I believe there is a cut a little higher above the slough that goes further south on higher
3034 ground, it runs west to the old ditch, I think.

It is completed and water run through it to the old Mason creek ditch that covered the lower ground years ago. I should judge it goes into the Mason creek ditch again in about two miles probably. That ditch runs over the land of J. P. Wells, it runs entirely around it I believe, but a part of the ditch might be off of his place still south of what is known as the Vaughn ranch. This map showing the ditch entirely north of the J. P. Wells ranch is wrong. The Whitney
3035 place is on the north side of the road; the Wells land is just north of the Whitney and runs a quarter south. The ditch runs close to the line, but in places where the bench comes out, it may go into the Wells land farther than in other places, but it is calculated to cover it all. Mr. Wells owns 120 acres, I think all of it is in cultivation. He has not owned it a great while. I think not over four years, that is the place that Denerline lived on.

I never lived there only one year to know what was

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3036 going on on that place and that year there was quite a little of it cultivated. That ditch which is brought down from Whitney's is a small ditch. I don't know what it would carry, but the head at that time was about two feet. The south ditch which runs around from there further south is one by four feet, probably two by four; I mean two feet deep. It might be larger than four feet on the bottom, I have not seen the ditch. Below the gate the ditch was four feet on the bottom and probably five or six feet on the top.
3037 It will carry more water than the one which goes through Whitney's on the south side of the place. I don't know what both of these ditches together will carry. You see I don't understand measuring water at all.

I have timber on the north part of my land which I irrigate. I irrigate it by damming it up near the land that has crops on it. It subs. I use that water raising the timber and pasture. There is probably 60 acres of that. The Stoddard ranch I think is all
3038 irrigated. There was hay and grain raised on the part of it under the bluff last year I believe. I don't know how much water it takes to irrigate that. It is a very dry piece of land. I guess it is as dry a piece of land as there is on the river bottom. It is hard to produce a crop on it for the reason that the land there is chiefly gravel, a gravel bar. There is a ditch that runs around below a part of the Stoddard place; the Mason ditch runs there. To a certain amount I believe that would catch the waste water
3039 off the Stoddard place. The ground that I spoke of that is so awful dry is on the north side of the slough; it is between the slough and the river.

That slough is a quarter of a mile north of the county road—it is over that. I think this little bench is not over 200 yards from the road where the bench drops off. This ditch would naturally make it a little wet, this ditch which comes out of it, some little portions of it, not any to speak of I don't believe. I think this land needs irrigation to produce pasture—it
3040 may be too wet for grain. It needs more water for pasture than for grain. It subs, you understand, probably clean through this bench from the Mason creek slough.

BY MR. GRIFFITH.

I have been calling this slough down there (indicating) the Mason creek slough, and these ditches that come out of here are taken out by putting dams there and making a cut through the bank and taking the water out. There are a number of them and con-
3041 sequently one don't have to be so very large for one or two places. It is taken out clear to the west side of my land, within 50 yards, and if any goes off it empties into the river on my land, and Mr. Cook's probably within 20 yards of my west line. If the water is not utilized that is where it goes. This timber land of mine is irrigated from irrigating the grain land or the land that is cultivated.

You would term them sloughs if there was water in them. After irrigating the grain land the water
3042 rests there and produces grass and timber which I run together, pasture land and timber land.

BY MR. RICE

This 471 acres of mine includes the land here (indicating) as conshay land.

Mr. H. M. Whitney, a witness for said defendant, testified as follows:

DIRECT EXAMINATION BYMR. GRIFFITH

I live four miles east of Caldwell; I know the land that is irrigated from the Mason creek ditch; I own
3043 120 acres of land there. I irrigate practically all of it from this ditch. George W. Beardsley was the original owner of that land; it has been irrigated from this ditch ever since I knew it. There are ditches and sloughs running through my land and rights of way. I think the actual area of the irrigated land outside of the rights of way is about 125 acres. I get water from no other source.

CROSS EXAMINATION BY MR. RICE

This south ditch from Mason creek slough runs
3044 along the south side of my place just north of the road. It comes out of the main slough at Madden's place. The south ditch gets to Well's land at his east line. It goes to the bluff and then around the edge of his land—I think it covers the most of it. I own out to the road south of my place. I do not irrigate my orchard from the Caldwell water. The south ditch is about four feet on the bottom.

The ditch which comes from my place near the south side of Millinger's is about three feet on the
3045 bottom. I have had no experience in measuring water, and couldn't say what these two ditches carry.

Mr. J. P. Wells, a witness for said defendant, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live about four miles east of Caldwell; I own land irrigated from this Mason creek ditch, about 120 acres. Mrs. Lee was the original owner of this land—I irrigate it from the Mason creek ditch.

CROSS EXAMINATION BY MR. RICE

3046 I have irrigated this land ever since I have been there, over two years. When I went there it was all fenced and in pasture and some of it cleared up and an orchard on it. The orchard lies just in the center east and west and then back out from the road. All of it was pasture when I was there. This orchard was there when I went there and the portion marked "Orchard" in the northeast corner on the state engineer's map was forest trees. I have no waste land; I have to furnish a right of way for the ditch.

3047 Mr. George Hesse, called as a witness for said defendant, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live about three miles northeast of Caldwell. I own about 275 acres irrigated by the Mason creek ditch. I own 430 acres all together. Mitchell Potts was the original owner of this land.

CROSS EXAMINATION BY MR. RICE

I irrigate 147 acres from the Franklin ditch. I estimate it to be that, and both of them coming in

3048 together I irrigate that many acres by subbing. I go south of the Martin land, that is about a quarter south of the slough of the Mason creek ditch. I irrigate all of the land I have there by subbing or surface irrigating. I do not cultivate it all; I cultivate about 300 acres. I cultivate that part down next to the river. There is none of it, about 80 acres south of the Mason creek slough that is cultivated. That is salt grass pasture—I irrigate it. I get the water out of that slough. I get it from the south slough. I take that water
3049 across Mason creek to that ditch. There is Mason creek water empties into the south slough above where I take it. I have never measured it. That is about a half a mile above where I take out water. The ditch from Mr. Wells empties into it up there. That would empty into Mason creek on Mr. Cook's place. The road makes a turn to the north just where it crosses Mr. Cook's place. This ditch comes right in there pretty close to the southwest corner of Well's place. It empties into Mason creek within a few hundred yards.
3050 It is what Mr. Wells uses for irrigation on his land. There is probably 120 acres of salt grass pasture on my place. I sub it all the time as long as there is water to get. There is a couple of ditches through the highest part.

REDIRECT EXAMINATION BY MR. GRIFFITH

Mr. Gooey has 40 acres. He sub irrigates from the same slough that I take my water from.

Mr. Charles Wells, a witness for said defendant, testified as follows:

3051 DIRECT EXAMINATION BY MR. GRIFFITH

I live a mile and a half northwest of town—I own 173 acres of land under the Mason creek ditch which I irrigate from this ditch; I own 281 acres all together. I have been over the Mason land three times, that is all. I know the Edith Mason 40, it is irrigated from this slough, there is about 30 acres, over that, there is 40 acres, that is watered from that, and the rest is on the hill where the bench cuts off the southwest corner of the Cornelius Mason land. He has the northwest
3052 corner of that section; that is, the fraction that the river cuts off a portion. He irrigates that from this slough—he irrigates all with the exception of a little on the bluff, probably five acres. All together, in my judgment he irrigates all of 158 acres excepting about five acres. Something like that, I wouldn't say for sure, I never paid any attention to how much land there was.

CROSS EXAMINATION BY MR. RICE

There is a great deal of Mason's land washed away
3053 by the river; I hardly know how much is left; I don't know where his north line is. I think four or five or six acres runs up on top of Canyon hill, and there is about ten acres of Edith Mason's place on that bluff.

BY THE COURT

I couldn't state exactly how much of C. Mason's land is washed away and how much of it is left. There is one slough in it. He irrigates over 100 acres, but I couldn't give you any estimate of it. He irrigates probably 125 acres.

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3054 CROSS EXAMINATION BY MR. RICE

My place runs down to the river adjoining Mr. Mason's on the east. The railroad fence is the southeast corner of his land. I couldn't say how far north from there to the river as it is now. I know about where that corner is, I couldn't tell the distance unless I measured it. I have a fence through there, I never measured the fence. Mason irrigates between the creek and my land. He raises crops and pasture both.

3055 REDIRECT EXAMINATION BY MR. GRIFFITH

I know this land of Ballard and Vassar. I couldn't say how much of the Ballard land he irrigates from this ditch, some of it washed away. Mr. Jobe was the original owner of this land.

CROSS EXAMINATION BY MR. RICE

I use some of the Franklin water. It is brought to my land in the slough. It is emptied in above, that 800 inches and that 350 inches described yesterday. The 800 inches and the 350 inches both come through the
3056 slough; that is my proportion, according to my understanding.

Mr. J. W. Ballard, a witness for said defendant, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I own about 20 acres of land under the Mason creek ditch; it is a lot that is on the river, a part of it washed away. It is irrigated from the Mason creek ditch.

Mr. S. H. Vassar, a witness for said defendant,
3057 testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live about two miles and a half east of Caldwell. I own 40 acres of land under the Mason creek ditch. I irrigate that land from this ditch.

CROSS EXAMINATION BY MR. RICE

I have irrigated this land two years this coming May or June. I began in 1903. When I went there the land was in pasture and grass. There was sage brush in some spots. The ditch I irrigate from comes
3058 in by the school house. I am not well acquainted with the location of the head of it; part of it runs south and part of it runs east of the place. A lateral from the Caldwell ditch runs through my place. I don't irrigate out of that. I have 80 acres all together, it lies north and south. I bought one of these 40's from Lola Sutton—I bought both of them from her.

Mrs. Mary Potts, a witness for said defendant, testified as follows:

3059 DIRECT EXAMINATION BY MR. GRIFFITH

I live in Caldwell. I did live before coming to Caldwell two miles and a half up on what is now called the Hesse place. I lived there from December '63 until March 14, 1890. The country was soon settled up soon after I came. I irrigated my place and raised crops on it right shortly after I came. We irrigated from the slough at the time, it was all water from the river, the slough they afterwards constructed

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3060 rigated from this ditch all the time.

Mr. George Hesse, a witness being recalled, testified as follows:

CROSS EXAMINATION BY MR. RICE

I am put in among the Franklin ditch people as only one share; get the Franklin water to my place from the slough where it is turned out. My part all comes down through the slough. It is all commingled with the Mason creek water up at Ten Mile.

TESTIMONY IN RELATION TO THE STOCK-
3061 TON DICTH

R. H. Stockton, called as a wtiness in his own behalf, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I have been living at Parma for about 16 years. I own about 300 acres that is irrigated from the Boise river. I irrigate part of it from the Sebree ditch—150 acres irrigated that way.

I can use this water that I use on the south side of the place. I can run it on the north side of the place;
3062 I own ten inches in the Sebree ditch, and I use that, and there is a part of that north part that is too wet and a part of it isn't.

I irrigate the balance by a slough that comes down what we call the Shipley place, and through the Kiesel place and runs on down through my place, and I put dams in the slough and take the water out. That is not a private ditch, there are others who use out of it; my brother uses some out of that. And

EXHIBIT 3

and I will say that the original appropriation of Mr. Dodd was with the original incorporator, Adam Schindler.

We desire also to have the record show that the articles of incorporation of the Franklin Ditch Company were filed October 29, 1880.

2993 We further wish to have the record show that we introduce in evidence the deed or copy of the deed from the Franklin Ditch Company to the Idaho and Oregon Land and Improvement Company, under date of June 24, 1884. I have to introduce this record in order to get in this resolution. They deed all of it and then deeded back this 1,350 inches.

Then the deed from the Oregon Land and Improvement Company covering this 1,350 inches under date of December 4, 1884, we will have to supply copies from

2994 the record, I have an abstract here.

The Franklin Ditch Company rests.

Testimony in relation to the Mason Creek Ditch Company.

C. F. Madden, called as a witness by said defendant, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I have known the Mason slough since 1865; it has been used for irrigating purposes all the way down from Mr. Schindler's to the canyon. We always

2995 termed it the "outside slough." There is water run into that slough near my place for irrigating purposes. The water has been turned in there for irrigation since the fall of 1866. I dammed the slough off; it was a large slough coming out of the river. The next year—probably a year or two after that, the people

below came up and requested me to let them cut that dam and I consented, but they agreed to put in a box so it would be possible to irrigate the—to regulate the amount of water that would come down that slough.
2996 That must have been in 1868 or 1869—somewhere along there. These people put the box in. They were George Wooten, John Thomas and all the people who live below there and who used the water out of that slough. The slough was larger at that time than it is now. It was 75 or 80 feet then; it is 15 or 20 feet now, that is up at the headgate where it leaves the river.

They have been turning the water in there ever since for irrigating. They put in a new headgate last fall,
2997 the old headgate washed away; in fact there is a couple of hundred yards of soil washed out. The country was all settled up at that time below me to the canyon. George Houten, John Thomas and Davis were land owners. The Davis ranch was benefitted by that water, the Beardsley place, George Wooten, the Cook place, Potts—and I think Potter lived on it afterward; he sold to Potts and Job; I believe Arch Newland was living above the canyon then. It was used for irrigating purposes all the way down the slough. It has
2998 been used for that purpose ever since. I have a dam in the slough and sub it for the purpose of irrigating my timber land and meadow. Mr. Plowhead owned a portion of the land below me; he takes water from that slough. I used water out of this slough for the purpose of irrigating timber land. I testified that I irrigate two tracts from the Franklin ditch, one that my daughter owns—160—and one that I own, 160 and

I irrigated both, or all of these tracts; that is 320 acres.

2999 What this slough sub irrigates I don't have to irrigate from the Franklin ditch. I put this water on the same land that the Franklin ditch goes on.

CROSS EXAMINATION BY MR. WOOD

My timber is on the north 80 of my daughter's entry.

REDIRECT EXAMINATION BY MR. GRIFFITH

The description of the land my daughter owns is the south half of the southwest quarter of section 16, and the north half of the northwest quarter of section 21;
3000 and my quarter is directly south of that. My land is on sections sixteen and twenty-one. This slough runs over that 80 in section 16. This slough coming out of the river, and the other slough coming down, they join together. The creek empties into that slough that we have all irrigated out of, and they all come together about the center of the east 40 of that 80, and the slough runs on west. It leaves the land about the center of the west 40, and it runs off onto Thomas's on the north side and then there is a dam
3001 there to keep it from running back into the river, and the slough runs back and cuts the northwest quarter. This timber that is irrigated by damming the slough is on the north side of the slough, and extends back east.

John Thomas, recalled as a witness, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I stated that I lived where I now live since 1866; I irrigate some of my land from this Mason slough.
3002 About 45, maybe 50 acres is irrigated from this source. I think me and Mr. Wooten put a cut in there in 1868 or '69, a headgate I mean. I had 156 acres there all together; it lies right west, a part of it north of Madden's place, and I irrigated about 45 acres from this slough. I never was in the corporation but used water from it, and everybody below us watered from it. I bought part of the land from a party who was in the corporation. I irrigated the lower tract of land from the Mason slough; it joins Madden's place. I
3003 irrigate the north part of my land from the Mason slough; the place farther down the river. I have got three places up there. I irrigate the two upper ones from the Franklin slough. The third place joins Mr. Wheatley on the north, that is this one next to the railroad. The second one joins Charles Madden. I irrigate in section 17, joining the railroad right of way from the same slough as the Franklin ditch. I do not irrigate from the Franklin ditch, I irrigate 45 acres of the lower place from the Mason slough. There are
3004 107 and 156 acres in the two upper places joining Madden; I irrigate it all; I had it all in cultivation, except what washed away; I stated this morning that I had under cultivation on these two places 160 acres.

CROSS EXAMINATION BY MR. WOOD

I call the northwest quarter of section 17, joining the railroad track, the lower place; I irrigated that all out of the slough. The Franklin ditch has nothing to do with it.

BY THE COURT

3005 There is not a bit of difference between this Mason creek slough and the Mason slough that the Franklin ditch empties into.

BY MR. WOOD

This 75 acres was credited to the Franklin ditch.

BY THE STATE ENGINEER

That is a mistake; I took it all out of the Franklin slough. I irrigate nearly 80 acres from that slough. I think I meant the upper place when I stated that I irrigated nearly 45 or 50 acres. I don't irrigate the
3006 upper place out of the upper slough. I said I irrigate the upper land out of the Mason slough because I had an old ditch up there and I had no water.

BY MR. GRIFFITH

There was 160 acres and a fraction of 37 acres in the Plowhead place, but I think the fraction all washed away and I think a little of the other. I think there is about 120 acres left. The Snobbel place is the same place I bought from him, that is the Plowhead place. In my original place, the place that I took originally there
3007 was 156 acres in one and 107 acres in the other, that would make 267 acres, and from that 40 acres washed off one tract.

L. F. Cook, recalled as a witness, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I have lived about three miles and a half from Cald-

well since 1879; I own about 471 acres there. That land is irrigated from the Boise river through these sloughs; it is pretty hard to tell what I irrigate out
3008 of the main canal of the Pioneer Irrigation District.

There is 80 acres lying outside of all of the sloughs next to the bluff. I have an interest in 79 1-2 inches coming out of the slough and irrigate that 80 acres with that, and the rest of this land is irrigated from this water, from what we would call the Mason slough and the Franklin ditch together. We have had 79 1-2 inches put in our shares. In putting in the ditches in different places when that ditch was built there was 1,350 inches of water to be divided between us, and
3009 the water that comes down is all turned in at two different points, one near the headgate of the ditch and the other at the "Waste slough." One is 800 inches and the other 350 inches, then the Mason creek comes right into the same slough again. I don't know how much water I get from these two sources that comes from the Strahorn heading. The 1,350 inches is divided into 17 shares, and that would give me 125 inches. The whole ranch is all irrigated, that on the bench and all on the bottom, 471 acres.

3010 BY THE COURT

I said this morning that 250 acres was in cultivation in hay and grain; now there is pasture land and hay land.

BY MR. GRIFFITH

I have about 250 acres under cultivation that I irrigate for the purpose of pasture and hay, native grass that grows there wild hay. I knew the people ir-

rigating from this slough, the Mason slough, when first come there. It goes through the Madden ranch,
3011 Thomas, Hamilton Davis, Mr. Beardsley's, now owned by Mr. Whitney, through the Wooten place on down the canyon; through Potts' place and Mr. Wells.' The Potter ranch was all owned at that time by Mr. Potts. Mr. Job is below the Potts ranch. The people incorporated that into a company known as the Mason Creek Ditch Company; they became members of that company and regulated the proportion and distribution of the water from that same source thereafter.

Mr. Madden, Mr. Thomas, Hamilton Davis, Whit-
3012 ney, Milliner and myself, Mr. Hesse, Mr. Wells and Mr. Mason right at the canyon, own this land at the present time. Mr. Smith owns the 40 acres right east of Mr. Whitney. All that is a part of the Hamilton Davis place; it is known now as the Stoddard place.

At the time we made the transfer to the Idaho and Oregon Land and Improvement Company, one year when the water was a little short we saw that we didn't have as much water in the sloughs as we should have, we then went to work and organized an incorporation
3013 known as the Mason Creek Ditch Company, and then we took in other members and other lands beside what was irrigated from the Franklin ditch, persons who are not under the Franklin ditch at all, but have irrigated from this slough. This land has been irrigated from this slough ever since I have been there.

BY MR. WOOD

It is pretty hard for me to tell how much of my land I irrigate from the Mason slough. The water runs together for a half a mile. I take water out of two

places now; I don't know how to get at how much water I use in irrigating land from the Mason slough. I don't know—I would say something over 100 acres of land irrigated from the Mason slough. I would say about 125 acres, maybe 150 acres of my land is actually under cultivation and irrigated from the Franklin ditch. I own besides the west half of section 18, the southeast quarter of the northeast quarter and the northeast quarter of the northeast quarter of section 13, and then I own the southeast quarter of the northeast quarter of section 24.

These two 40's, the west half of section 18, the southeast quarter of the northeast quarter of section 24, then there is a 40 that lies in here (indicating) belonging to a man named Parrish in section 13, between what I own there and own in section 24.

A part of the 40 acres in the northeast quarter of the northeast quarter of section 24 is in alfalfa, about 20 acres. I took up that 10 as a pre-emption about 1885; it was sage brush land. The sage brush has not been cleared off all of it, about one-half of this 40 acres is still in sage brush.

BY MR. BORAH

We generally call what I own 480 acres the township line runs through there and there are a few lots; I think it is 471 acres and a fraction. I could hardly tell you how much I irrigate and how much I put water on. There is some timber land lying next to the river and the sloughs irrigate the timber, I should think there must be 40 acres of it. There must be over 300 acres that I irrigate out of the 471 acres, pasture

land and everything. I don't know how much is sub irrigated from these sloughs. The timber land next to the river sub irrigates. There is about 40 acres of that land. I irrigate this from the Mason ditch and the Franklin ditch.

I have 80 acres lying apart from my other land that I irrigate from the Franklin ditch. That water is not mingled with the Mason creek ditch at all. The Mason creek and Franklin ditch all mingles. There has never
3018 been any measuring device arranged by which we could tell how much water I use coming from the Mason creek ditch and how much from the Franklin. I have 80 acres that the Mason creek ditch doesn't irrigate at all. That is irrigated wholly from the Franklin.

BY MR. GRIFFITH

I dam the water up in the sloughs to irrigate the pasture land and the timber land. Most generally the hay land I am aiming to run water out over the land
3019 and the grain land I sub it. I flood all my land by entirely by damming the sloughs or running it over the surface one way or another. I wet all of my land in one of these two ways, and from one of these two sources. I have been irrigating this land in this manner ever since I have been on the place. I bought the place from a man by the name of Marion E. Mason. A portion of it I pre-empted myself. When I found after this survey that the house was not on the land I bought, as I thought it was, I pre-empted that tract, 160
3020 acres.

or something over it, I don't just remember what it is, but I think something over that.

CROSS EXAMINATION BY MR. RICE

John Thomas irrigates some of his Plowhead place beside from Mason creek. This Mason Creek Ditch Company is not a capital stock company, it is a partnership company. I don't know as I can explain to you how a member becomes a member of the Mason Creek Ditch Company. I paid in about the amount
3024 that was done in the first place, to put in headgate and dams and such as that and become a member. I expect that Thomas irrigates something near 200 acres out of the Mason creek slough. I don't know exactly where the line runs through or how his land lies.

Of the Emma Stoddard place there is about 50 acres that lies above the grade of the Mason creek ditch. There is a little ditch that goes right around under the bluff back of the house that comes out of the Mason slough. This is the highest point it reaches. I don't
3025 remember the size of the headgate of that little ditch, but I should think it was something like three or four feet. It has been carrying water right along the last year. I guess every year so far as I know there has been water running through the headgate there. I don't know whether the balance of the Stoddard land is considered too wet or not—I don't know whether they are cultivating it or not. I don't know just how it is, I am not positive, I haven't been through there—I don't know whether it has been irrigated from this ditch
3026 or not. I don't know whether this 40 acres credited for the Hamilton Davis place to the Mason slough is exclusive of the amount put in as being irrigated from the

Franklin ditch on the Hamilton Davis place. I can hardly say how much land on the Hamilton Davis place is under cultivation now. Some of the place lies up towards the bluff, towards the Franklin ditch; I don't know whether it is cultivated or not; it is fenced, but I don't know whether they use water on it or not, but all down on the bottom is under cultivation.

3027 Part of the Leonard place is covered with timber. The state engineer's map is not correct as the river has cut in there until there is about only 15 acres of that place. I think this list here (indicating) would be excessive of the amount, to the amount of 15 acres, if it were all cultivated. It is all in timber except for what grass grows among the timber.

The Vassar place is south of the Hesse place, it is in pasture, there is some sage brush on it and grass There are different grasses, some of it is salt grass.

3028 Mr. Vassar runs water over that. That was once under cultivation when Mason creek ditch was first built, it was first put under cultivation in grain and alfalfa by Mr. Evans, then they went out of the country and there was nobody on it for a while, and then they rented it and it has been used for pasture ever since.

Mr. George Milliner, recalled as a witness, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live about four miles east of Caldwell; I have

3029 lived there three years; I know the land irrigated from the Mason creek ditch; I own land irrigated from that ditch; I own about 173 acres.

A man by the name of L. McIntyre and another by the name of George Houton originally owned that

land. I own all together in that same tract 323 acres; 173 acres of this is irrigated from the Mason creek ditch. I am acquainted with the persons who irrigate from this ditch at the present time; I think I am. I saw some names here that I am not ac-
3030 quainted with, probably they were people whom I have never seen, some of them ranchers. The Hamilton Davis ranch I know, but I don't know much about them people at all, and the Stoddard ranch I have never seen any of them. I know the renter who is on his place. I know where the Stoddard land lies, and have been across all of it. I know the place irrigated from this ditch.

This list (indicating) contains the name of the owners, and the number of acres owned, and the num-
3031 ber of acres irrigated from the Mason creek ditch, as far as I know, but I have not measured their land, it does to the best of my knowledge. To the best of my knowledge the acreage would be all right.

(Counsel for the Mason Creek Ditch Company offers the paper mentioned, marked as Exhibit A, in evidence.)

I believe there is somewhere between 1,800 and 2,000 acres irrigated from the Mason creek ditch; 1,850 acres I believe is what it has been figured at on
3032 that list. I have been put in as secretary of the Mason Creek Ditch Company, I suppose although I haven't acted, I have got neglectful of that business. Generally when we have our meeting we call on somebody who is qualified to handle the business. I believe I saw the articles of incorporation of that company. As near as I can tell there is no capital stock, it is just a partnership company.

CROSS EXAMINATION BY MR. RICE

I am familiar with the Mason creek slough, or the
3033 Mason creek ditch from its head on down. We have a headgate at the river which is seven feet wide and five feet high. Farther on down to Ten Mile is a slough, or a part of the river. Then we have gates again at Ten Mile. When we get down to the Whitney place, or somewhere near there, there is a dam put in the slough and a constructed ditch on down.

It has been carrying the proper amount of water heretofore, but I believe there is a cut a little higher above the slough that goes further south on higher
3034 ground, it runs west to the old ditch, I think.

It is completed and water run through it to the old Mason creek ditch that covered the lower ground years ago. I should judge it goes into the Mason creek ditch again in about two miles probably. That ditch runs over the land of J. P. Wells, it runs entirely around it I believe, but a part of the ditch might be off of his place still south of what is known as the Vaughn ranch. This map showing the ditch entirely north of the J. P. Wells ranch is wrong. The Whitney
3035 place is on the north side of the road; the Wells land is just north of the Whitney and runs a quarter south. The ditch runs close to the line, but in places where the bench comes out, it may go into the Wells land farther than in other places, but it is calculated to cover it all. Mr. Wells owns 120 acres, I think all of it is in cultivation. He has not owned it a great while. I think not over four years, that is the place that Denerline lived on.

I never lived there only one year to know what was

going on on that place and that year there was quite a little of it cultivated. That ditch which is brought down from Whitney's is a small ditch. I don't know what it would carry, but the head at that time was about two feet. The south ditch which runs around from there further south is one by four feet, probably two by four; I mean two feet deep. It might be larger than four feet on the bottom, I have not seen the ditch. Below the gate the ditch was four feet on the bottom and probably five or six feet on the top.

It will carry more water than the one which goes through Whitney's on the south side of the place. I don't know what both of these ditches together will carry. You see I don't understand measuring water at all.

I have timber on the north part of my land which I irrigate. I irrigate it by damming it up near the land that has crops on it. It subs. I use that water raising the timber and pasture. There is probably 60 acres of that. The Stoddard ranch I think is all irrigated. There was hay and grain raised on the part of it under the bluff last year I believe. I don't know how much water it takes to irrigate that. It is a very dry piece of land. I guess it is as dry a piece of land as there is on the river bottom. It is hard to produce a crop on it for the reason that the land there is chiefly gravel, a gravel bar. There is a ditch that runs around below a part of the Stoddard place; the Mason ditch runs there. To a certain amount I believe that would catch the waste water off the Stoddard place. The ground that I spoke of that is so awful dry is on the north side of the slough; it is between the slough and the river.

That slough is a quarter of a mile north of the county road—it is over that. I think this little bench is not over 200 yards from the road where the bench drops off. This ditch would naturally make it a little wet, this ditch which comes out of it, some little portions of it, not any to speak of I don't believe. I think this land needs irrigation to produce pasture—it
3040 may be too wet for grain. It needs more water for pasture than for grain. It subs, you understand, probably clean through this bench from the Mason creek slough.

BY MR. GRIFFITH.

I have been calling this slough down there (indicating) the Mason creek slough, and these ditches that come out of here are taken out by putting dams there and making a cut through the bank and taking the water out. There are a number of them and con-
3041 sequently one don't have to be so very large for one or two places. It is taken out clear to the west side of my land, within 50 yards, and if any goes off it empties into the river on my land, and Mr. Cook's probably within 20 yards of my west line. If the water is not utilized that is where it goes. This timber land of mine is irrigated from irrigating the grain land or the land that is cultivated.

You would term them sloughs if there was water in them. After irrigating the grain land the water
3042 rests there and produces grass and timber which I run together, pasture land and timber land.

BY MR. RICE

This 471 acres of mine includes the land here (indicating) as conshay land.

Mr. H. M. Whitney, a witness for said defendant, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live four miles east of Caldwell; I know the land that is irrigated from the Mason creek ditch; I own
3043 120 acres of land there. I irrigate practically all of it from this ditch. George W. Beardsley was the original owner of that land; it has been irrigated from this ditch ever since I knew it. There are ditches and sloughs running through my land and rights of way. I think the actual area of the irrigated land outside of the rights of way is about 125 acres. I get water from no other source.

CROSS EXAMINATION BY MR. RICE

This south ditch from Mason creek slough runs
3044 along the south side of my place just north of the road. It comes out of the main slough at Madden's place. The south ditch gets to Well's land at his east line. It goes to the bluff and then around the edge of his land—I think it covers the most of it. I own out to the road south of my place. I do not irrigate my orchard from the Caldwell water. The south ditch is about four feet on the bottom.

The ditch which comes from my place near the south side of Millinger's is about three feet on the
3045 bottom. I have had no experience in measuring water, and couldn't say what these two ditches carry.

Mr. J. P. Wells, a witness for said defendant, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live about four miles east of Caldwell; I own land irrigated from this Mason creek ditch, about 120 acres. Mrs. Lee was the original owner of this land—I irrigate it from the Mason creek ditch.

CROSS EXAMINATION BY MR. RICE

3046 I have irrigated this land ever since I have been there, over two years. When I went there it was all fenced and in pasture and some of it cleared up and an orchard on it. The orchard lies just in the center east and west and then back out from the road. All of it was pasture when I was there. This orchard was there when I went there and the portion marked "Orchard" in the northeast corner on the state engineer's map was forest trees. I have no waste land; I have to furnish a right of way for the ditch.

3047 Mr. George Hesse, called as a witness for said defendant, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live about three miles northeast of Caldwell. I own about 275 acres irrigated by the Mason creek ditch. I own 430 acres all together. Mitchell Potts was the original owner of this land.

CROSS EXAMINATION BY MR. RICE

I irrigate 147 acres from the Franklin ditch. I estimate it to be that, and both of them coming in

3048 together I irrigate that many acres by subbing. I go south of the Martin land, that is about a quarter south of the slough of the Mason creek ditch. I irrigate all of the land I have there by subbing or surface irrigating. I do not cultivate it all; I cultivate about 300 acres. I cultivate that part down next to the river. There is none of it, about 80 acres south of the Mason creek slough that is cultivated. That is salt grass pasture—I irrigate it. I get the water out of that slough. I get it from the south slough. I take that water
3049 across Mason creek to that ditch. There is Mason creek water empties into the south slough above where I take it. I have never measured it. That is about a half a mile above where I take out water. The ditch from Mr. Wells empties into it up there. That would empty into Mason creek on Mr. Cook's place. The road makes a turn to the north just where it crosses Mr. Cook's place. This ditch comes right in there pretty close to the southwest corner of Well's place. It empties into Mason creek within a few hundred yards.
3050 It is what Mr. Wells uses for irrigation on his land. There is probably 120 acres of salt grass pasture on my place. I sub it all the time as long as there is water to get. There is a couple of ditches through the highest part.

REDIRECT EXAMINATION BY MR. GRIFFITH

Mr. Gooey has 40 acres. He sub irrigates from the same slough that I take my water from.

Mr. Charles Wells, a witness for said defendant, testified as follows:

3051 DIRECT EXAMINATION BY MR. GRIFFITH

I live a mile and a half northwest of town—I own 173 acres of land under the Mason creek ditch which I irrigate from this ditch; I own 281 acres all together. I have been over the Mason land three times, that is all. I know the Edith Mason 40, it is irrigated from this slough, there is about 30 acres, over that, there is 40 acres, that is watered from that, and the rest is on the hill where the bench cuts off the southwest corner of the Cornelius Mason land. He has the northwest
3052 corner of that section; that is, the fraction that the river cuts off a portion. He irrigates that from this slough—he irrigates all with the exception of a little on the bluff, probably five acres. All together, in my judgment he irrigates all of 158 acres excepting about five acres. Something like that, I wouldn't say for sure, I never paid any attention to how much land there was.

CROSS EXAMINATION BY MR. RICE

There is a great deal of Mason's land washed away
3053 by the river; I hardly know how much is left; I don't know where his north line is. I think four or five or six acres runs up on top of Canyon hill, and there is about ten acres of Edith Mason's place on that bluff.

BY THE COURT

I couldn't state exactly how much of C. Mason's land is washed away and how much of it is left. There is one slough in it. He irrigates over 100 acres, but I couldn't give you any estimate of it. He irrigates probably 125 acres.

3054 CROSS EXAMINATION BY MR. RICE

My place runs down to the river adjoining Mr. Mason's on the east. The railroad fence is the south-east corner of his land. I couldn't say how far north from there to the river as it is now. I know about where that corner is, I couldn't tell the distance unless I measured it. I have a fence through there, I never measured the fence. Mason irrigates between the creek and my land. He raises crops and pasture both.

REDIRECT EXAMINATION BY MR. GRIFFITH

3055 I know this land of Ballard and Vassar. I couldn't say how much of the Ballard land he irrigates from this ditch, some of it washed away. Mr. Jobe was the original owner of this land.

CROSS EXAMINATION BY MR. RICE

I use some of the Franklin water. It is brought to my land in the slough. It is emptied in above, that 800 inches and that 350 inches described yesterday. The 800 inches and the 350 inches both come through the
3056 slough; that is my proportion, according to my understanding.

Mr. J. W. Ballard, a witness for said defendant, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I own about 20 acres of land under the Mason creek ditch; it is a lot that is on the river, a part of it washed away. It is irrigated from the Mason creek ditch.

Mr. S. H. Vassar, a witness for said defendant,
3057 testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I live about two miles and a half east of Caldwell. I own 40 acres of land under the Mason creek ditch. I irrigate that land from this ditch.

CROSS EXAMINATION BY MR. RICE

I have irrigated this land two years this coming May or June. I began in 1903. When I went there the land was in pasture and grass. There was sage brush in some spots. The ditch I irrigate from comes
3058 in by the school house. I am not well acquainted with the location of the head of it; part of it runs south and part of it runs east of the place. A lateral from the Caldwell ditch runs through my place. I don't irrigate out of that. I have 80 acres all together, it lies north and south. I bought one of these 40's from Lola Sutton—I bought both of them from her.

Mrs. Mary Potts, a witness for said defendant, testified as follows:

3059 DIRECT EXAMINATION BY MR. GRIFFITH

I live in Caldwell. I did live before coming to Caldwell two miles and a half up on what is now called the Hesse place. I lived there from December '63 until March 14, 1890. The country was soon settled up soon after I came. I irrigated my place and raised crops on it right shortly after I came. We irrigated from the slough at the time, it was all water from the river, the slough they afterwards constructed

the Mason creek ditch from. Since that time we ir-
3060 rigated from this ditch all the time.

Mr. George Hesse, a witness being recalled, testified as follows:

CROSS EXAMINATION BY MR. RICE

I am put in among the Franklin ditch people as only one share; get the Franklin water to my place from the slough where it is turned out. My part all comes down through the slough. It is all commingled with the Mason creek water up at Ten Mile.

TESTIMONY IN RELATION TO THE STOCK-
3061 TON DICTH

R. H. Stockton, called as a wtiness in his own behalf, testified as follows:

DIRECT EXAMINATION BY MR. GRIFFITH

I have been living at Parma for about 16 years. I own about 300 acres that is irrigated from the Boise river. I irrigate part of it from the Sebree ditch—150 acres irrigated that way.

I can use this water that I use on the south side of the place. I can run it on the north side of the place;
3062 I own ten inches in the Sebree ditch, and I use that, and there is a part of that north part that is too wet and a part of it isn't.

I irrigate the balance by a slough that comes down what we call the Shipley place, and through the Kiesel place and runs on down through my place, and I put dams in the slough and take the water out. That is not a private ditch, there are others who use out of it; my brother uses some out of that. And

to supply the land for irrigation than during any previous season.

That a uniformly low temperature, hazy or cloudy
4921 days, evenly distributed and late rainfall, and many other exceedingly unusual climatic conditions contributed to the causes of this condition or fact.

That there was, however, an insufficient supply of water in Boise river during the season of 1907, but not so serious as previous years, and not of sufficient duration to kill plants or destroy trees.

C. S. TUCKER.
A. J. HUETT.
L. V. STAFFORD.
4922 NATHANIEL BAKER.
MRS. C. FINK.
WILLIAM SIEBENBERG.

Subscribed and sworn to before me this 13th day of February, 1908.

(Seal) H. F. GRIFFITHS,
Notary Public.

STATE OF IDAHO, } ss.
County of Canyon.

L. F. Cook, John Thomas, C. W. Cooper, C. C.
4923 Boles, Charles N. Cook, Geo. Milliner, being first duly sworn, each for himself states

That he owns land under the flow of the Franklin Ditch Company's canal and has reclaimed and cultivates and irrigates said land through and by means of said canal, and has during all of the times herein mentioned.

That the sub-soil of practically all the land under said canal is a loose coarse gravel, and when water

is low in Boise river said soil dries very quickly and
4924 requires a large quantity of water for irrigation.

That during the seasons of 1905 and 1906 there was not sufficient water distributed from Boise river for maturing the crops on said lands, and crops were all dried and parched and many of the plants actually killed and some fruit trees and ornamental trees were dried so they subsequently died by reason of short or lack of supply of water on said lands during said seasons.

That there has been used on said lands for irriga-
4925 tion purposes from the time they were first reclaimed a quantity of water larger than is adjudicated for said lands in the decree in this case, and that no less quantity has ever been so used except when the order of this Court or the interference of these appellants caused or required a less quantity to be used, and in each of these cases the trees, plants and crops growing on said lands were damaged and in many instances entirely destroyed.

That said lands cannot be profitably or successfully
4926 farmed or used for homes with any less supply of water than was awarded by the decrees in this case. And that the supply of water, estimated by N. S. Dils, Alex McPherson and others, in their affidavits now on file on motion for a new trial herein, as a quantity sufficient for said lands, is not sufficient for the profitable or successful use of said lands for homes and farms.

That the capacity of said canal was fully considered at the trial of this cause and the evidence there showed,
4927 and the facts are that said canal at the time of said trial and at all times since its construction would carry

and at all of said times had actually carried a much larger quantity of water than was awarded to said canal by the decree of this case.

That the first shortage of water in Boise river occurred several years prior to the year 1900 and that prior to that year much damage had been sustained by the land owners in the lower part of the Boise valley by reason of such shortage of water.

4928 That the climatic conditions in Boise valley in the summer of 1907 were different from any prior season of which affiant has any knowledge; and that a less quantity of water was sufficient during said season to supply the land for irrigation than during any previous season. That a uniformly low temperature, hazy or cloudy days, evenly distributed and late rainfall, and many other exceeding unusual climatic conditions contributed to the causes of this condition or fact. That there was, however, an insufficient 4929 supply of water in Boise river during the season of 1907, but not so serious as previous years, and not of sufficient duration to kill plants or destroy trees.

L. F. COOK.
JOHN THOMAS.
C. W. COOPER.
C. C. BOLES.
CHARLES M. COOK.
GEO. MILLINER.

Subscribed and sworn to before me this 13th day 4930 of February, 1908.

(Seal) H. F. GRIFFITHS,
Notary Public.

STATE OF IDAHO,
County of Canyon. } ss.

L. F. Cook, John Thomas, J. P. Wells, C. C. Boles, Charles M. Cook, Geo. Milliner, H. M. Whitney, being first duly sworn, each for himself states

That he owns land under the flow of the Mason Creek Ditch Company's canal and has reclaimed and
4931 cultivates and irrigates said land through and by means of said canal and has during all of the times herein mentioned.

That the sub-soil of practically all the land under said canal is a loose coarse gravel, and when water is low in Boise river said soil dries very quickly and requires a large quantity of water for irrigation.

That during the seasons of 1905 and 1906 there was not sufficient water distributed from Boise river for maturing the crops on said lands, and crops were
4932 all dried and parched and many of the plants actually killed and some fruit trees and ornamental trees were dried so they subsequently died by reason of short or lack of supply of water on said lands during said seasons.

That there has been used on said lands for irrigation purposes from the time they were first reclaimed a quantity of water larger than is adjudicated for said lands in the decree in this case, and that no less quantity has ever been so used except when the order
4933 of this Court or the interference of these appellants caused or required a less quantity to be used, and in each of these cases the trees, plants and crops growing on said lands were damaged and in many instances entirely destroyed.

That said lands cannot be profitably or successfully

farmed or used for homes with any less supply of water than was awarded by the decrees in this case. And that the supply of water, estimated by N. S. Dils, Alex McPherson and others, in their affidavits now on
4934 file on motion for a new trial herein, as a quantity sufficient for said lands, is not sufficient for the profitable or successful use of said lands for homes and farms.

That the capacity of said canal was fully considered at the trial of this cause and the evidence there showed, and the facts are that said canal at the time of said trial and at all times since its construction would carry and at all of said times had actually carried a much larger quantity of water than was awarded to said
4935 canal by the decree of this case.

That the first shortage of water in Boise river occurred several years prior to the year 1900 and that prior to that year much damage had been sustained by the land owners in the lower part of the Boise valley by reason of such shortage of water.

That the climatic conditions in Boise valley in the summer of 1907 were different from any prior season of which affiant has any knowledge; and that a less quantity of water was sufficient during said
4936 season to supply the land for irrigation than during any previous season. That a uniformly low temperature, hazy or cloudy days, evenly distributed and late rainfall,and many other exceeding unusual climatic conditions contributed to the causes of this condition or fact. That there was, however, an insufficient supply of water in Boise river during the season of 1907 but not so serious as previous years and not of sufficient duration to kill plants or destroy trees.

L. F. COOK.
4937 JOHN THOMAS.
J. P. WELLS.
C. C. BOLES.
CHARLES M. COOK.
GEO. MILLINER.
H. M. WHITNEY.

Subscribed and sworn to before me this 13th day of February, 1908.

(Seal) H. F. GRIFFITHS,
Notary Public.

4938 *STATE OF IDAHO,*
County of Canyon, } *ss.*

H. M. Dorman, J. E. Moreland, T. T. Johnston, James F. McIntyre, Benjamin White, M. P. Coshman, S. W. Vail, J. L. Powell, J. B. Garfield, Victor Hammon, E .C. Spencer, being first duly sworn, each for himself states

That he owns land under the flow of the Pioneer Dixie Ditch Company's canal and has reclaimed and cultivates and irrigates said land through and by
4939 means of said canal, and has during all of the times herein mentioned.

That the sub-soil of practically all the land under said canal is a loose coarse gravel, and when water is low in Boise river said soil dries very quickly and requires a large quantity of water for irrigation.

That during the seasons of 1905 and 1906 there was not sufficient water distributed from Boise river for maturing the crops on said lands, and crops were all dried and parched and many of the plants actually
4940 killed and some fruit trees and ornamental trees were

EXHIBIT 4

MAXIMUM DIVERSIONS OF PIONEER IRRIGATION DISTRICT

FROM BOISE RIVER

Year	PHYLLIS Date	Quantity in Inches	CALDWELL HIGH LINE Date	Quantity in Inches	TOTAL	Franklin & Mason Creek Rights	NET TOTAL
1911							
1912	June 9	19,562	June 13 & 16	6,000	25,562	4,010	21,552
1915	June 12	20,050	June 12	5,300	25,350	4,010	21,340
1916	June 24	21,400	July 26	5,700	27,100	4,010	22,090
1917	July 12	23,500	June 21-22	5,550	29,050	4,010	25,040
1918	May 25	23,450	May 3 & 4	4,600	28,050	4,010	24,040
1919	May 20-21	22,750	May 7 & 22-28	3,750	26,500	4,010	22,490
1920	June 14	22,800	May 30-31 June 1-5	3,300	26,100	4,010	22,090
1921	June 24-30	23,100	June 8	5,250	28,350	4,010	24,340
1922	June 28 & 29	25,300	June 6-9	5,600	30,900	4,010	26,890
1923	July 18	24,200	May 17	4,800	29,000	4,010	24,990
1924	May 11	17,350	April 27-30	4,200	21,550	4,010	17,540
1925	June 25 & 29-30	24,000	May 5 & 9	4,400	28,400	4,010	24,390
1926	May	20,600	May 31	4,450	25,050	4,010	21,040

The information for the year 1912 was obtained from a report on Duty of Water investigations by W. G. Steward.

The information for the years 1915 to 1926, was obtained from the watermasters' annual reports on file in the office of the Department of Reclamation.

WM. E. WELSH
Watermaster, Boise River

WATER DISTRICT 12A
FILE NO. 3191

1911

Discharge Table for Caldwell High Line Canal, in Acre-feet.

by Days, for Irrigation Season of 1911.

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	April	May	June	July	August	Sept.	Oct.
1		196.7	237.2	202.6	159.8	154.6	102.9
2		203.0	242.3	205.3	152.0	152.0	105.3
3	Water	215.6	234.7	206.7	157.2	149.4	100.6
4	out	216.9	234.7	210.8	157.2	150.7	104.1
5		0 0	227.0	202.6	155.9	135.6	97.6
6		0.0	227.0	202.6	167.7	134.3	97.6
7	77.0	119.7	234.6	208.1	152.0	141.8	93.6
8	77.0	119.7	208.0	216.3	162.4	141.8	93.6
9	77.0	133.6	205.5	234.1	159.8	167.7	98.6
10	77.0	136.8	198.0	235.5	155.9	146.9	98.6
11	77.0	142.0	209.3	235.5	153.3	144.3	105.3
12	77.0	149.2	224.5	234.1	161.1	143.1	97.6
13	77.0	168.5	214.3	232.7	154.6	95.6	88.7
14	117.0	181.9	204.2	234.1	159.8	96.6	79.5
15	117.0	177.0	201.7	235.5	155.9	95.6	69.5
16	117.0	163.7	209.3	235.5	154.6	93.6	60.9
17	117.0	166.1	209.3	240.9	149.4	95.6	53.5
18	119.0	164.9	209.3	238.2	149.4	93.6	57.2
19	118.3	162.5	219.4	240.9	150.7	111.2	53.5
20	118.0	157.7	219.4	240.9	153.3	118.5	53.5
21	126.5	160.1	214.3	243.7	154.6	99.6	47.9
22	126.5	170.9	214.3	202.6	166.3	100.6	46.0
23	125.2	170.9	214.3	221.7	158.5	100.6	38.5
24	155.2	181.9	214.3	224.5	165.0	106.5	38.5
25	172.2	191.7	203.0	228.6	163.7	101.8	38.5
26	199.3	199.2	213.1	191.7	163.7	101.8	33.3
27	181.9	199.2	216.9	167.7	154.6	100.6	33.3
28	194.2	211.8	210.5	152.0	152.0	102.9	33.3
29	0.0	224.5	208.1	159.8	127.8	100.6	33.3
30	169.7	224.5	209.5	155.9	157.2	102.9	33.3
31		234.6		157.2	157.2	0.0	33.3
	2807.0	5144.8	6488.0	6598.3	4842.6	3580.4	2120.9

Total for season = 31,582.0

1912

Discharge Table for the Caldwell High Line Canal for Irrigation Season of 1912.

Quantities in Acre-feet by days.

Day	April	May	June	July	August	Sept.	Oct.
1			183.00	92.60	134.00	104.00	92.20
2			184.60	127.60	127.60	100.00	92.20
3			181.40	212.60	140.40	104.00	92.20
4			187.80	188.70	134.00	104.00	80.80
5		71.00	201.00	211.30	140.40	96.00	80.80
6		71.00	191.00	128.90	91.40	96.00	80.80
7		71.00	212.80	278.70	68.60	100.00	80.80
8		103.20	235.40	226.00	63.00	104.00	80.80
9		140.96	228.10	223.30	85.60	100.00	80.80
10		162.20	204.20	199.40	80.00	104.00	80.80
11		178.20	202.60	228.70	80.00	100.00	80.80
12		194.36	220.80	212.60	58.60	104.00	80.80
13	No records.	208.00	201.00	240.00	66.00	88.40	58.60
14		228.10	186.20	212.00	88.40	80.80	58.60
15		243.84	---	232.80	88.40	80.80	58.60
16		250.60	173.40	232.80	96.00	80.80	38.00
17		240.40	157.40	232.80	84.60	80.80	38.00
18		245.60	159.00	240.00	88.40	62.40	38.00
19		252.40	159.00	161.10	88.40	62.40	
20		249.00	165.40	103.00	92.20	62.40	
21		240.40	170.20	127.60	84.60	73.20	No records
22		228.10	178.20	140.40	84.60	73.20	
23		243.84	168.60	153.40	92.20	73.20	
24		235.40	214.40	153.40	82.60	100.00	
25		240.40	225.60	153.40	84.40	92.20	
26		233.80	168.60	153.40	80.80	92.20	
27		206.30	----	153.40	96.00	92.20	
28		194.20	227.20	140.40	96.00	92.20	
29		191.00	227.20	108.20	164.00	92.20	
30		186.20	222.40	121.20	164.00	92.20	
31		187.80		134.00	164.00		
		5294.40	5436.50	5473.70	2909.20	2687.60	1293.60

Total for the season ---------- 23,095.00

Total from May 5 to October 18, 1912 ---------- 23,095.00
" " " " " " " 1911 ---------- 27,332.00

Excess for 1911 over 1912 ---------- 4,237.00

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DEPARTMENT OF THE INTERIOR

UNITED STATES RECLAMATION SERVICE

BOISE PROJECT

IDAHO.

REPORT
on
RETURN FLOW AND SEEPAGE INTO BOISE RIVER DURING THE LOW WATER PERIOD OF 1914.

by

W. G. STEWARD, Assistant Engineer in charge of
Duty of Water Investigations,
Boise Project.

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Object of the work.

Early in the irrigation season of 1914 it was decided to obtain a record of all the principal creeks and sloughs that furnish return water to the Boise River, the primary object being to determine what canals, if any, were taking more water than necessary and then wasting large amounts of this available water back into the river, thus depriving other canals on the river above of the water necessary to properly irrigate their land.

With this in view, rating stations were established on Ten Mile creek, Mason creek, Mason slough, Dixie slouth, Indian creek, Hartley Gulch, Willow creek, Middleton slough,

and on various small sloughs and at various points along the river and on many of the important canals along the valley and records of the flow were kept during the irrigation season.

Division of Boise River into Sections.

(See Figs. 1 and 2)

In the study of the low water conditions in the Boise Valley, the river naturally divides itself into four sections. (See Fig 2)

(1) From the Government Diversion Dam to a point just below the Canyon County Water Company Canal, a distance of about 25 miles.

(2) From Canyon County Water Company Canal to the diversion dam in the canyon above Caldwell, a distance of about 9 miles.

(3) From the canyon dam to a point just below Lower Center Point canal, a distance of about 7 miles.

(4) From the Lower Center Point canal to the Snake River, a distance of about 13 miles.

These divisions come by the fact that all the water may be taken from the river at three points; viz., opposite Canyon County Canal, the Farmers' Cooperative (Sebree) canal, and the Lower Center Point canal and still there will be enough return flow to furnish all decreed rights below these points respectively. In the study of river flow and water rights this condition must be constantly kept in mind.

The following table gives the average discharge in second-feet, for a period of 34 days from August 8th to September 10th, inclusive, of all water ays along the river as far down as Notus bridge, as per sections indicated on preceding page.

Section No. 1.

Boise River at Highland	855.0+	Boise Valley Waste	1.6+
Main New York Canal	83.5-	Dry Creek Canal	55.0-
Penitentiary "	2.5-	Thurman Mill Waste	1.0+
Ridenbaugh "	303.7-	Eagle Island Canals	28.4-
Bubb "	6.2-	Eagle Slough	1.0+
Rossi Mill Canal (Power)	25.0-+	Ballantine Canal	7.8+-
Cruzen Canal	50.0-	Dry Creek waste	4.0+
Boise City Canal	20.3-	Phyllis Canal	64.5-
Jacobs Canal	2.2-	Eureka Canal No. 1	13.4-
Cottonwood Creek	22.0+	Middleton Water Co.	58.2-
Settlers Canal	68.1-	Middleton Mill Co.	30.0-
Davis Canal	15.4-	Pioneer	13.9-
Thurman Mill Canal	19.8-	Eureka No. 1 waste	6.7+
Sand Creek	3.0+	Caldwell High Line	50.4-
Boise Sewer	20.0+	Franklin Canal	1.5-
Farmers' Union Canal	39.7-	Kennedy Canal	2.6-
Boise Valley Canal	22.0-	Canyon County Canal	24.0-
Little Union	13.7-	Boise River (Below Canyon County)	12.0

Total Canal deliveries	965.0
Total tributary gain	-59.3
Total seepage gain	75.1

\+ Indicates discharge into the river.

\- Indicates discharge from the river.

Section 2.		Section 3.	
Boise River (Below Canyon County)	12.0+	Boise River (Below Seibenerg Canal)	10.1+
Phyllis Slough	5.0+	Riverside Canal No.1	8.0+
Ten Mile	11.5+	Caldwell Drain	3.5+
Big Slough	5.6-	Indian Creek	71.6+
Middleton Slough	30.7+	Riverside No.2	37.6-
Willow Creek	3.0+	Upper Dixie Slough	4.8+-
Hartley Gulch	4.0+	Pioneer Dixie	10.1-
Mason Creek	25.8+	Eureka No.2	21.5-
Riverside No.1	8.0-	Upper Center Point	7.2-
Farmers' Cooperative	96.0-	Lower Center Point	5.4-
Canyon Canal	10.1-	Five small sloughs	5.4+
Seibenberg Canal	8.9-	Boise River at Notus	28.7-
Boise River at Canyon	10.7-		
Total canal deliveries	120.6	Total canal deliveries	86.5
Total tributary gain	80.0	Total tributary gain	85.3
Total seepage gain	47.3	Total seepage gain	11.2

\+ Indicates discharge into the river.

\- Indicates discharge from the river.

Explanation of Figure 2.

Figure 2 represents Boise River with incoming and outgoing waterways from the Government Diversion Dam to Notus. The diagram is drawn to a scale so that the width of the stream represents the average daily flow for a period of 34 days, from August 8th to September 10th, inclusive.

The direction of the flow of water is indicated in three ways; first, in looking from the left to the right of the sheet, all streams leaving the river are shown as branching out and all streams entering are shown as branching in; second, the names are lettered in the direction of flow; and third, the arrows indicate the direction of flow. The lengths of sections as shown on the diagram are approximately proportional to the distances along the river, so that the location of the streams are shown in about their relative position on the map. In the table, column 2, the term "Delivered" includes all water taken from the section by canals, together with the water passing to the next section. In column 3, "In river and tributary" includes the water in the river at the upper end of the section, together with all the tributary flow in the section. Column 4, "Seepage Gain" is the water gained to the section from underground flow or from very small surface streams not measurable. It is obtained by subtracting amounts in column 3 from those in column 2. "Tributary Gains" is the sum of the measurable tributaries in the section.

Complex Conditions.

There are several complex conditions along the river that need explanation in order to fully understand the dif-

ficulties of canal deliveries.

(1) Rossi Mill ditch, originally constructed for power purposes, was used, during the irrigation season, for irrigation only. While it carries a good head, there is very little used for irrigation and as a rule it acts as much as a drain ditch as for carrying irrigation water, so that it discharges back to the river an amount equal or a little greater than the amount diverted, therefore, in Figure 2 it is so shown.

(2) The Cruzen (Perrault) Canal heading usually carries a larger quantity of water than is used by the Capital Water Company, the Boise City and the Jacobs Canals, all of which it feeds. Part of the water is used for power. This excess water, together with the flow of Cottonwood Creek, is returned to Boise River through Cottonwood Creek.

(3) The Boise City water works pumps water from the Boise river bed at a point opposite the Natatorium. This water is returned to the river through the Boise sewer. In the above table the return water of the sewer is noted but no account is taken of the water pumped, as the quantity is not known. This, however, is taken care of in the river seepage.

(4) The Farmers' Union Canal diverts water for the Boise Valley Canal. It has a wasteway just above the Boise Valley heading and another where it crosses Dry Creek. The Boise Valley canal wastes its water into the Dry Creek Canal about one-quarter mile above the Dry Creek Canal rating flume. As there is a wasteway above this flume, the Boise Valley waste is assumed to be a part of the river supply.

(5) The Ballantine Canal gets practically its entire supply from waste water. It has a river heading that is kept up and may be used in case a very large flow is desired. The waste water flowing in the Ballantine Canal that is not used may be discharged at either one of three places; into the river near Eagle; into Dry Creek at the flume crossing; or into Middleton Water Company Canal below Linder.

(6) The Dry Creek Canal has a wasteway at its Dry Creek crossing.

(7) The Middleton Mill Slough forms a wasteway for a network of canals, laterals and waste composed of the lower end of Ballantine, Dry Creek, Middleton Water Company, Middleton Mill Company, Pioneer, and Canyon County Water Company Canals. It would be possible to divert practically all of this waste at the low water period to the Hartly Canal which in turn wastes into Willow Creek and Hartly Gulch.

(8) Ten Mile Creek empties into Big Slough, sometimes called Thomas slough or Mason slough. From this slough the water may be discharged direct into the Boise river or by a system of dams and channels it may be taken through Big slough to a point south of Middleton, where the water can be discharged to the river or diverted to a canal irrigating land below.

(9) The Riverside canal has a heading in the river in the Canyon above Caldwell. Any water diverted here is emptied into Indian Creek. From Indian Creek, the Riverside Canal has another heading below Caldwell. By this system the Riverside Canal may take water from the river or from Indian Creek or from both. As the court has decreed that Indian Creek is tributary to Boise River, the Riverside Canal has a right to this water only when it is not needed to supply the rights below.

(10) Upper Dixie slough is seepage and waste water from the lands south and west of Caldwell. A ditch has been dug to conduct this water into the Pioneer Dixie canal at a point approximately two and one-half miles northwest of Caldwell. In this investigation it was assumed that this water was a part of the river supply but it has been accounted for separately from the discharge into Pioneer Dixie heading.

Conditions Prevailing Along Boise River for the Irrigation Season of 1914.

Distribution of Boise River flow.- The flow of the Boise River for a number of years has been determined by a station established by the United States Geological Survey at Highland, about 16 miles above Boise. Measurements are made at this station by both the United States Geological Survey and the United States Reclamation Service and several check measurements were made this season by State hydrographers.

The water passing Highland is used in the low water season to supply the various decreed rights along the river from the Government diversion dam to Snake River. (See Figure 1 - Map of Boise river canals.) There are about forty canals supplied from the river.

Return Flow.- To the water passing Highland there are added considerable quantities of water from sloughs, wasteways and return seepage. (See Figure 2 - a diagram of Boise river flow.) This diagram was made from the average of 54 days during the low water period, at which time the river was in a very stable condition. (See Figure 3 - Hydrograph showing daily water deliveries on Boise River.) This shows that the entire hydrograph for the period is very even.

It is to be understood that while individual canals may change materially in their diversions, the general river conditions will remain fairly constant and hold a more or less balanced condition. For instance, the return flow and seepage from August 15 to August 31 are very uniform. The amount of water which passed in the river below Canyon County did not vary more than a few second-feet for the whole month of August and the discharge of water in the river below the Canyon started with about 20-second-feet in the early part of August and fell to about 5 second-feet, with an average during the month of about 10.5 second-feet. The same relative constant condition held at Notus bridge. This shows that during the low water season, with a reasonable duty of water, the return flow and seepage will take care of all canal rights below the Canyon County Canal.

1914 a Medium Low Water Year.- In Figure 4 - Boise River Hydrographs, 1895 - 1914 - I have shown the discharge of Boise River in second-feet from July 9 to September 16, inclusive, as follows:

(1) For the highest year - 1899.

(2) For the Lowest year - 1905.

(3) For the mean of the four highest years.

(4) For the mean of the four lowest years.

(5) For the year 1914.

From these hydrographs it will be seen that the year of 1914 was considerably below the mean of the 20-year period for the low water season, but that there may be expected one year in about every five in which the water will be somewhat lower and that once in a long period of years the flow may be very much lower.

Return Water Increased by Drainage.- It will be noticed that the greater proportional part of the return flow to the river occurs below the Canyon County Canal heading and it is almost a certainty that the amount of waste or tributary water available for use to the river will increase very materially in the next few years as the systems of drainage now proposed are completed, as this drainage water will largely be made available during the irrigation season and not be held in the ground to find its way to the river by gradual seepage.

What is Considered as Seepage Water.- It should be understood that there is no clear demarkation between tributary flow and seepage. In this work any water in channels large enough to be measured with a meter was considered tributary flow, but it is evident that at times of heavy irrigation along the river there might be many small streams that would appear in the results as seepage. Any water that came into the river in such a way that it could not be measured directly was considered as seepage and the

amount was ascertained by subtracting the known measured diversions from a certain section of the river from the known measured discharges into that section. As there was a more or less continual fluctuation of river flow, due to the power plants above and to the uneven canal diversions, this seepage may have apparently large fluctuations when in reality the variation is in either the river flow or canal discharge. General averages, however, will determine the amount of return seepage quite accurately.

Ground Water Contours.- In connection with seepage return flow, it may be of interest to study the ground water contours on the south side of the river, as shown in Figure 5. This shows the plane and direction of ground water movement in June 1914. It will be noted that practically all of this ground water tends to move towards Boise river, entering it between Eagle and Notus, the line of greatest movement being towards the Caldwell canyon. Very little ground water from above the Ridenbaugh canal will reach the river where it will be available for irrigation, except through drains. This condition may change somewhat as the plane of ground water rises on the bench under the Main New York canal, but it is believed that the general conditions will remain the same. After the ground is fully saturated, this water movement will be practically a constant quantity, whereas the surface return flow will vary from day to day with the amount of water applied, the

temperature, the distance of the point of application from the river or the drain ditch, etc.

Return Seepage from the North Side of Boise River.- It is believed that a large part of the return seepage to Section came from the canals irrigating the north side of the Boise river between Pierce Park and the Canyon, because nearly all of this area is served by canals with old rights and they all have good headings and divert large quantities of water. Much of this water eventually finds it way back to the river by underground seepage.

"Laggage" in Water Deliveries.

In Figure 3, the hydrograph of Boise river is set one day ahead of the others; that is, in the computations there was allowed one day's time for the water passing Highland to reach the distributing system along the river. For instance, in the column for July 8th of river discharge, there would be July 9th for water deliveries and return flow. As a matter of fact, it might take two or three days for the effect of a slight raise or fall in the river to be felt as far down as the Canyon County Canal. This irregular "laggage" in the flow of the river and tributary flow partly accounts for the apparent discrepancies in the hydrograph. Another factor is that the Barber Lumber Company used varying quantities of water in the operation of their power plant, this causing irregular waves in the river flow. This wave motion gives rise to some of the most difficult problems in water deliveries, especially where a canal is at the lower end of a river section. It also requires the

at the lower end of a river section. It also requires the higher c nals to give constant attention to canal headings in order to keep a constant flow in the river and prevent waste to the section below.

Deliveries During Low Water Period - 1914.

In Figure 3 the lower hydrograph shows the daily discharge of the Boise river from July 8th to September 16th, inclusive, and the upper one shows the total amount of water delivered to the canals of Boise valley, as far down as Notus, together with a small amount, averaging about 39 second-feet per day, which passed Notus bridge. The space between these two hydrographs shows the daily gain to the river from tributary and seepage flow. The middle line shows the demarkation between the amount of tributary flow and the seepage, as ascertained by subtracting the daily river flow, plus the tributary flow, from the daily deliveries. The regularity of these results is surprising. Only on July 14th and July 31st does there seem to be any great discrepancy and this is probably due to some error in a gage reading that does not show up otherwise in the records, or to water hheld in Barber pond as temporary storage.

The large percentage of gain is very marked, especially in September when there was not so great need of careful use of water and more water was allowed to run

to waste. An average gain of 34 per cent of the discharge at Highland, for a period of 70 days, adds very materially to the water supply of the vally lands. The amount of return water was much larger in May and June.

Need of Careful Management.

It is very evedent from a study of the conditions on the river that the water must be very carefully handled in order to make the best and most equitable use of it. It is like the management of a great railroad system. Suppose the rise in the river about July 2nd had not been properly handled, it would have broken over all the dams on the river and probably 4,000 or 5,000 acre-feet of water would have gone down into Snake River. At this season of the year, that would have meant a loss of many thousand dollars in available water besides the damage to the dams. As it was, arrangements were made with the larger canals to take the main part of this excess water when the rise reached their respective headings and no canal heading was injured and practically no water was lost. In order to accomplish this, it was necessary for the head watermaster to know when this flood was expected, how much each canal was carrying, how much each canal could handle, and to see that the water was taken as directed.

In the case of a falling river, the larger water rights should be cut gradually so as not to cause a wave down the

river by cutting all at once.

Where a large canal wishes to turn water out for a day or two, notice should be given prior to the time so that arrangements can be made for the proper use of the water and not allow it to run down the river and be wasted.

The above cited examples show that the proper operation of the river requires very careful and constant attention.

River Work should be Started Early in the Season.

The work of selecting stations, setting gages, rating stations, computing discharge curves, and selecting watermasters should begin early in the season and be ready for the time when needed. When the river is falling at the rate of 100 to 200 second-feet per day, there is no time to do this detail work. That is the time when results from the above work should be available for immediate use.

The excellent handling of the river this season by the Deputy State Engineer, A. V. Tallman, was due largely to the fact that he had had several years of experience in hydrographic work and was able to put to intelligent use the basic data that had been secured by the United States Reclamation Service during the previous years and this was further streggthened by the cooperation of this office with the Deputy State Engineer during the irrigation season.

State Cooperation.

As the season advanced it was found that arrangements could be made with the Deputy State Engineer, A. V. Tallman, by which cooperation could be secured and that by an exchange of data a very much wider range of results could be obtained. Under this agreement the Water Commissioner was able to furnish to the various canals a much more satisfactory delivery than had ever been before obtained, because it was possible to know not only the amount of water in the river at Highland but the approximate return flow and seepage day by day during the low water period and the watermasters could be instructed as to where to set canal headings so as to deliver the proper amount. The use of this valuable data also made it possible for the deputy state engineer to anticipate cuts in canals so that priorities, which were entitled to the water, were never deprived of a full head and also made it possible for the deputy state engineer to notify the different canals as to the expected cuts in their respective canals and thus give the water users under those systems ample notice of an expected shortage. During the past season Mr. Tallman not only secured to each canal a more regular flow but prevented a large amount of water passing down the river and wasting below the lower headings.

Middleton Mill Slough.

Figure 6 is a hydrograph showing the amount of water diverted by the Middleton Water Company, the Middleton Mill Company, and the Canyon County Water Company and the amount of water wasted through Middleton Mill Slough. A comparison with the 1911 and 1912 reports shows that less water was used by each of the three canals in 1914 than in either 1911 or 1912. In the case of the Canyon County Canal, this is partly accounted for from the fact that they had difficulty in getting water from the river.

In this connection I have compiled the following tables which show that while the discharge to these canals was materially reduced, still the waste was excessive for so small an area and that the amount of water actually needed from the Boise river for this land is small. All of the results in the valley go to show that the amount of water needed for irrigation, when properly delivered from the river so as to be made available for economic use, is much smaller than is usually considered necessary.

During the low water period with a 60 per cent of the Stewart decree duty, all canals that had full rights for all lands under them had the greatest abundance of water. It is of course impossible to stretch a proper duty of water so it will cover a much larger area than the one or which rights were decreed.

Table giving the discharge in acre-feet of Middleton Water Company, Middleton Mill Company, and Canyon County Water Company Canals and the Middleton Mill Slough for 1911, 1912 and 1914 for the period from July 9th to Sept. 16th inclusive.

Middleton Water Co., Middleton Mill Co., & Canyon County Water Co.

	July 9-31	Aug.	Sept. 1-16	Total	
1911	8791	9087	3891	21769)	
1912	8587	7817	4064	20268)	21,018 mean 11+12
1914	6158	6952	3728	16838	16,838
Total	23,536	23856	11,683	58,875	4,180 difference

Middleton Water Co., & Middleton Mill Co.

	July 9-31	Aug.	Sept. 1-16	Total	
1911	7123	6767	2958	16848)	
1912	6303	5956	2956	15215)	16032 mean 11+12
1914	4894	5554	2870	13298	13298 difference
Total	18,320	18257	8,784	45,361	2,734

Canyon County Water Co.

	July 9-31	Aug.	Sept. 1-16	Total	
1911	1668	2320	933	4921)	
1912	2084	1861	1108	5053)	4987 mean 11+12
1914	1264	1418	858	3540	3540
Total	5,016	5,599	2,899	13, 514	1,447

Middleton Mill Slough

	July 9-31	Aug.	Sept. 1-16	Total	
1911	5923	2659	1445	8027)	
1912	3013	2705	2418	8136)	8082 mean 11+12
1914	2038	1410	2122	5570	5570
Total	8974	6774	5985	21,733	2512

Character of Return Water below Canyon County Canal.

Herewith is a copy of a report of the Idaho State chemist on samples of water taken by the Deputy State Engineer, Mr. A. V. Tallman, on August 17 and 18, at various points along Boise river below Canyon County canal. This analysis shows conclusively that there could be no injurious effect from the proper use of the water.

The two most deleterious salts known are black alkali (Na_2CO_3) and white alkali in two forms, sodium sulphate, (Na_2SO_4) and sodium chloride, (NaCl - salt). Of these the black alkali is the most injurious to irrigated crops and white alkali the least injurious and it requires from 2,500 to 3,000 parts per million of white alkali (Na_2SO_4) to be detrimental.

In the analysis not a trace of the black alkali (Na_2CO_3) was found and the worst condition, Indian Creek below Caldwell sewer, gave only 498 parts in a million of white alkali.

As is well known, water entirely free from alkali used on lands containing alkali, as does practically all lands in the Boise valley, if improperly applied, would bring the alkali to the surface and make it appear that the water is highly charged with salts, while land may be irrigated with

water carrying a very much larger quantity of alkali than any shown in the analysis and if properly used the land will become better instead of worse. (See E.W.Hilgard on Soils - Chapter XXII, Alkali Soils and Chapter XXIII, Utilization and Reclamation of Alkali Lands). Hilgard shows that alkali moves to a greater or less depth in the soil with the movement of water applied and that with proper irrigation and cropage, even lands heavily charged with alkali may become very productive. In other words, the proper duty and method of application of water is the most important factor in the problem of alkalied lands.

1914

TRIBUTARY RETURN FLOW TO BOISE RIVER

During the low water period of Today's

July 9 to Sept. 16 inc. 1914

DAY OF MONTH

No.	Name of Tributary	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Cottonwood									22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
2	Boise Sewer									20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
3	Sand Creek									3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	Boise Valley No 2									15	17	12	9	6	7	7	9	9	6	6	7	7	7	7	7	8	5	5	7	7	7	10
5	Ballantine									15	16	16	16	20	16	16	14	14	8	9	14	8	8	8	8	8	10	12	12	11	14	16
6	Eureka No 1 Waste									6	6	6	6	7	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5
7	Phyllis Waste									5	5	5	6	6	5	6	6	6	6	6	6	6	6	6	5	6	6	5	5	5	5	5
8	Ten Mile Waste									60	51	44	40	37	41	41	43	43	33	40	49	54	49	54	49	48	44	39	34	30	26	16	16	17	13
9	Middleton Slough									34	28	26	28	30	36	34	36	41	34	44	34	46	49	46	52	67	71	71	46	36	26	16
10	Milken Creek									2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11	Mason Creek									75	73	70	71	67	66	60	57	56	43	46	38	38	36	37	50	67	72	67	48	38	36	46
12	Hartley Gulch									3	3	3	3	3	4	4	4	4	3	4	3	3	3	3	3	3	3	3	4	4	4	4
13	Indian Creek									96	93	92	91	90	89	88	92	80	83	85	86	77	71	70	70	70	70	70	70	67	67	67
14	Upper Dixie Slough									12	12	12	12	12	11	11	12	12	11	11	11	10	10	11	11	8	8	8	8	8	8	8
	Total									373	369	345	343	340	332	307	330	316	295	317	277	310	313	314	338	303	287	261	238	213	207	

JULY

No.	Name of Tributary	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Cottonwood	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
2	Boise Sewer	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
3	Sand Creek	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
4	Boise Valley No 2	10	9	9	11	12	9	11	11	9	11	13	15	11	12	9	11	11	9	9	9	9	9	9	9	9	9	9	9	9	9	9
5	Ballantine	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
6	Eureka No 1 Waste	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	Phyllis Waste	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
8	Ten Mile Waste	11	12	10	8	10	9	10	9	10	11	9	9	10	11	9	7	9	9	10	10	9	10	8	7	8	8	8	8	9	8	10
9	Middleton Slough	16	14	20	24	31	21	19	24	18	25	31	21	18	24	26	24	36	34	16	34	40	11	21	14	16	19	16	21	20	23	23
10	Milken Creek	2	2	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
11	Mason Creek	39	29	37	29	29	39	35	27	27	26	27	23	23	23	22	25	22	25	21	22	23	22	21	22	21	21	22	23	21	21	23
12	Hartley Gulch	4	4	4	3	3	3	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13	Indian Creek	61	62	60	60	60	60	60	62	62	64	64	60	60	60	60	60	57	57	57	57	57	57	57	57	57	57	57	57	57	57	62
14	Upper Dixie Slough	8	8	8	8	8	8	8	7	7	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	5
	Total	198	197	215	217	217	226	196	201	194	194	221	197	189	199	201	192	207	201	177	194	185	179	176	178	176	179	186	191	185	189	215

AUGUST

No.	Name of Tributary	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Cottonwood	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
2	Boise Sewer	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
3	Sand Creek	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
4	Boise Valley No 2	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
5	Ballantine	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
6	Eureka No 1 Waste	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	Phyllis Waste	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
8	Ten Mile Waste	13	12	15	17	17	19	19	17	19	21	21	22	24	32	42	42															
9	Middleton Slough	31	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29															
10	Milken Creek	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3															
11	Mason Creek	24	25	26	25	26	25	27	26	30	30	30	30	30	30	30	30															
12	Hartley Gulch	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4															
13	Indian Creek	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62															
14	Upper Dixie Slough	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5															
	Total	219	220	220	220	232	226	247	237	264	266	257	271	277	323	359	371															

SEPTEMBER

The above table covers the Boise River from Cottonwood Diversion Dam to McAuley Drain.

All discharges are given in Second Feet.

SEPTEMBER

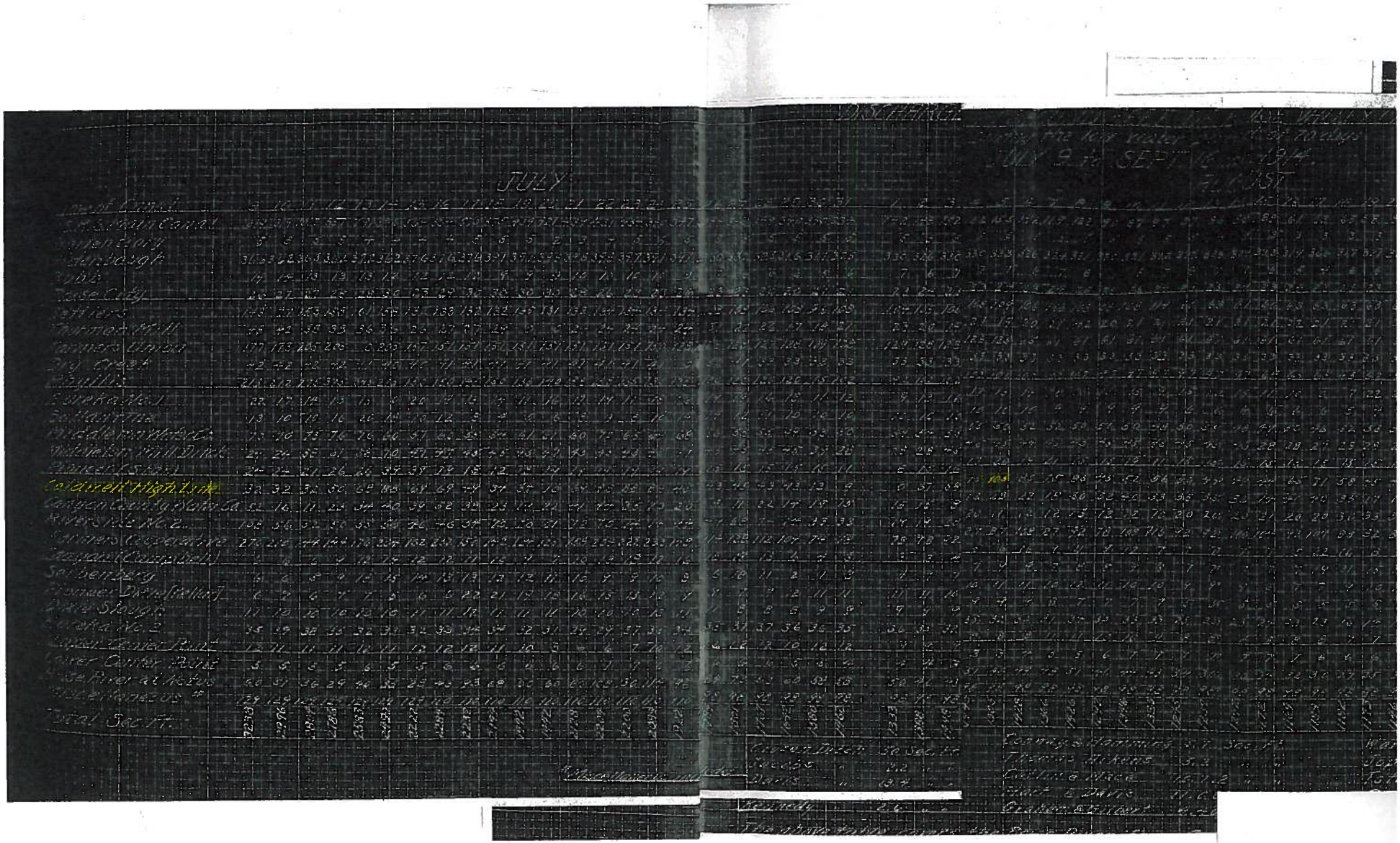


CHART 2

	22	23	24	25	26	27	28	29	30	31	Sept. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
5	43	63	65	64	50	48	44	42	42	44	37	37	36	182	182	178	39	40	34	37	38	45	36	64	305	373
3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	22	322	322	322	322	322	302	301	300	296	292	288	288	284	260	260	260	260	260	260	260	260	260	260	260	260
6	6	6	6	6	6	6	6	6	6	4	6	5	5	5	6	6	6	7	7	7	6	6	6	6	6	6
3	23	23	23	23	23	23	23	23	23	23	23	23	23	23	0	0	0	17	17	17	17	17	17	17	17	17
3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	58	62	63	63	63	63	62	62	63	63	95	108
1	21	21	21	21	21	21	21	21	21	21	21	22	22	21	0	0	0	21	21	21	18	15	18	13	13	12
8	61	61	61	61	61	61	67	61	61	61	61	67	61	61	61	61	61	61	61	77	77	77	77	77	77	77
3	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2	40	50	40	28	28	28	28	28	28	26	40	40	40	40	40	40	40	40	42	45	60	58	55	97	90	92
1	21	21	21	21	21	21	23	21	21	21	2	3	3	3	3	3	7	11	14	14	8	8	8	8	16	11
7	7	6	8	8	7	10	11	10	10	11	7	7	8	8	8	4	9	10	10	10	3	3	3	4	4	3
8	65	60	60	62	63	61	67	63	67	67	67	63	64	65	63	53	53	63	63	60	63	63	63	63	67	60
8	28	23	28	28	28	30	27	22	28	25	28	28	28	28	26	14	13	22	26	26	24	24	24	25	26	25
5	15	11	15	13	15	13	13	15	15	14	15	15	14	15	11	8	7	12	15	13	15	17	15	16	16	13
6	59	44	44	33	47	47	46	52	56	53	56	46	43	53	45	27	24	65	65	58	58	57	63	66	66	66
7	22	22	23	22	5	15	13	13	16	23	34	34	24	27	25	20	25	4	23	23	28	29	28	28	35	35
1	33	37	36	36	61	49	53	52	52	57	55	52	50	48	44	49	77	30	53	71	60	63	67	82	76	36
4	78	74	78	70	63	70	80	78	52	114	130	124	128	124	120	118	117	92	114	92	92	92	112	114	124	140
	4	5	5	8	5	6	10	8	8	9	18	13	13	14	16	16	14	10	10	17	18	3	3	8	12	16
1	11	10	9	6	9	9	11	6	5	8	7	7	4	6	5	5	4	8	6	18	17	18	7	7	6	5
1	10	11	13	12	11	11	10	10	10	10	10	10	10	10	10	10	4	4	4	8	8	8	9	10	12	14
5	5	5	5	6	5	6	4	4	4	3	3	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6
5	16	17	19	19	22	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	24	29	30	32	35	37
7	7	6	5	5	5	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	9	10	10	11	11	11
5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	5	5	5	5	5	6	7	7	8	7	7
7	25	25	24	27	22	22	21	22	21	19	22	25	25	27	27	27	27	30	25	34	46	60	73	75	90	170
8	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
	1131	1130	1126	1085	1102	1106	1096	1085	1103	1135	1161	1135	1121	1272	1181	1137	1163	1063	1112	1148	1144	1171	1244	1296	1603	1731

Springs Ditch 8.34 Sec Ft
" " 2.06 " "
Decreed Right 129.38 " "

1915

DEPARTMENT OF THE INTERIOR

UNITED STATES RECLAMATION SERVICE

BOISE PROJECT - IDAHO

REPORT ON RETURN FLOW AND SEEPAGE INTO BOISE RIVER DURING THE IRRIGATION SEASON OF.....1915.

by

W. G. STEWARD, Assistant Engineer
in charge of Duty of Water Investigations, Boise Project.

OBJECT OF THE WORK

Early in the season it was realized that the snow fall in the mountains had been unusually light and that the available supply of water would be small. This fact, together with the possibility of storage in Arrowrock Reservoir would make conditions very favorable for obtaining accurate records on the river during the entire irrigation season. It was desired to get complete records as to the canal uses, the tributary return flow, the seepage return flow, and the portion of the river where this return flow would be available for canal use. During the low-water period of

1914 a record of this nature had been obtained but it was thought best to secure a record for the entire season of 1915.

With this in view, stations were maintained on all the canals, creeks and wasteways, taking water from or delivering water to the Boise River supply. Most of these stations had been established in previous years, and curves for 1914 were already made. In March all stations were gone over and put in repair and new stations started when it was deemed necessary, and measurements were started so that the old curves could be checked and ready for use as soon as water was delivered to canals.

PERSONNEL.

D. J. Paul and C. F. Elford were assigned to the river work and the service was farther assisted by A. V. Tallman, Deputy State Watermaster, and the gage readers working along the Boise River under his instructions.

In the work there was close co-operation between the United States Reclamation Service and the State of Idaho, in which there was a complete exchange of all data gathered in regard to river flow. This enabled a much more complete study to be made of river conditions than could have been made by either party working alone.

SEASON UNUSUAL

The irrigation season of 1915 was unusual in that the precipitation during the previous winter was very light both in the valley and in the mountains. There was very little moisture in the soil in April and the weather was unusually warm for that time of year. The result was that there was s much larger use of water in April than usual. In May there were heavy rains, accompanied with cooler weather so that the use of water was greatly reduced during this month, and the surplus river flow was held in storage. The remainder of the summer was dry, continuing to the middle of November. Due to rains in the mountains, there were slight raises in the natural flow of the river July 6 to 11, August 2 to 3, September 2 to 3 and 27 and 28. This is shown on the Boise River hydrograph for 1915.

LOW WATER YEAR

With possibly the exception of 1905, the flow of the river was the lowest for 21 years, over which time almost continuous records have been kept. Had it not been for the heavy May rains the run-off would have been by far the lowest on record. For this reason the records obtained during this year are exceedingly valuable.

RIVER REGULATION

On account of the scarcity of water it became necessary that the water master assume control of the river in April and continue this regulation for the entire irrigation season. This became a very complex problem when it is considered that the complete river flow is obtained from some 30 or 40 different sources, most of which it was necessary to measure and that the water was delivered to between 30 and 40 canals on all of which records were kept of canal deliveries. In addition to this, it was necessary to keep track of the storage water discharged from Arrowrock and see that it was delivered at the proper points along the river. In order that there should be a minimum amount of water wasted below the lower points of delivery and at the same time furnish each canal with the amount of water it should have, it was necessary to keep very complete records and to carefully regulate the gates of Arrow rock Reservoir and the gates of all the larger canals. This regulation was rendered still more difficult in that several tributary streams were more or less irregular in their flow and the points where they empty into the river are below the Arrowrock gates. To this was added the fact that at different times several of the canal company's turned large heads out into the river on account of breaks, and when breaks were repaired, they would turn the water back into the canals again, without due notice to the watermaster.

DIVISION OF BOISE RIVER INTO SECTIONS

(See Figs. 1 and 2)

In the study of the low water conditions in the Boise Valley, the river naturally divides itself into four sections. (See Fig. 2)

(1) From the Government Diversion Dam to a point just below the Caldwell High Line Canal, a distance of about 25 miles

(2) From Caldwell High Line Canal to the Diversion dam in the canyon above Caldwell, a distance of about 9 miles

(3) From the canyon dam to a point just below Lower Center Point Canal, a distance of about 7 miles

(4) From the Lower Center Point canal to the Snake River, a distance of about 13 miles

These divisions come by the fact that all the water may be taken from the river at three points; viz., opposite Caldwell High Line Canal, the Farmers' Cooperative (Sebree) Canal, and the Lower Center Point canal and still there will be enough return flow to furnish all decreed rights below these points respectively, during most of the irrigation season. In the study of river flow and water rights this condition must be constantly kept in mind.

During the irrigation season of 1915, the Canyon County Water Company changed its heading from a point nearly opposite Can-Ada, up the river to a point just below Star Bridge. This change makes the Caldwell High Line Canal the last heading on the upper section of the river and it was just below this heading that a station was maintained to

determine the amount of water passing from Section 1 to Section 2.

STORAGE WATER

During the season 1915, there were 22,310 acre feet of storage water sold, and delivered to old rights along the Boise River. The following tables gives the canals to which this water was delivered and the amount recurved by each canal:

New York	8,760
Buble	216
Ridenbaugh	4,300
Settlers	1,800
Farmers Union	2,610
Phyllis	3,420
Farmers Cooper.	1,200

In all tables on canal and river flow this storage water is eliminated unless otherwise specified, because it is desired to study the river conditions independent of the water held in storage in Arrowrock Reservoir.

FAVORABLE CONDITIONS

During almost the entire season conditions were favorable for obtaining good results. The work was started early enough in the season so that all stations were ready when canals began using water in April. The watermaster, A. V. Tallman, began looking after the water deliveries in April and kept a careful supervision of all water deliveries along the

river during the entire season. The gage readers employed by the State were above the average in intelligence and faithfulness. The roads were, generally speaking, in good condition. There was thorough cooperation among all parties concerned and the weather conditions, excepting for the May rains were almost ideal.

ACCURACY OF RESULTS

In consideration of the long period over which the observations extend, the complete list of canals and tributarids on which records were kept, the character of the observations and the care with which the data have been worked up it is believed that the results are as complete, accurate, and reliable as any ever obtained on any river irrigation system.

The following table gives the average discharge in second feet, for a period of 80 days from July 23 to October 10, 1915, inclusive, of all water ways along the river as far down as Notus bridge, as per sections indicated on page 5.

SECTION No. 1

Boise River at Highlands	690.+	Dry Creek canal	27.-
Penitentiary Canal	3.-	Thurman Mill Waste	7.+
Ridenbaugh Canal	228.-	Eagle Island Canals	35.-
Buble Canal	5.-	Eagle Slough	1.+
Boise Mill Canal (Power)	26.-+	Ballantine Canal	6.+-
Cruzen Canal	38.-	Dry Creek Waste	2.+
Boise City Canal	20.-	Phyllis Canal	112.-
Jacobs Canal	2.-	Eureka Canal No. 1	13.-
Cottonwood Creek	12.+	Middleton Water Co.	61.-
Settlers Canal	66.-	Middleton Mill Co.	27.-
Davis Canal	13.-	Pioneer Canal	13.-
Thurman Mill Canal	20.-	Kennedy Canal	2.-
Boise Sewer	8.+	Canyon Co. Canal	40.-
Farmers Union Canal	42.-	Eureka Waste	3.+
Boise Valley Canal	21.-	Caldwell High Line	57.-
Little Union Canal	7.-	Franklin Canal	2.-
Boise Valley Waste	4.+	Boise River (below Franklin Canal)	7.-

Total Canal deliveries	860	sec. ft.
Total Tributary gain	43	" "
Total Seepage gain	134	" "

\+ Indicates discharge into section No. 1
\- Indicates discharge from section No. 1

DISCHARGE IN ACRE FEET BY MONTHS, OF BOISE RIVER CANALS.
SEASON 1915

Canals	April	May	June	July	August	Sept.	Oct.	Total	Irrigated acres
New York	9,060	5,572	14,160	8,501	5,203	2,300	3,528	48,144	20,422
Ridenbaugh	14,172	9,810	22,040	22,562	14,786	15,098	7,878	106,346	25,000
Bubb	552	766	908	558	308	330	110	3,552	580
Settlers'	3,856	2,738	8,338	7,716	3,290	4,006	3,372	34,816	12,300
Thurman Mill	1,448	2,296	2,340	2,196	1,456	922	656	11,314	1,725
Farmers' Union	3,780	3,718	7,576	4,294	3,950	2,206	3,542	29,016	3,800
Boise Valley	1,632	1,912	2,672	1,814	2,126	1,716	952	12,824	2,729
Little Union	452	422	658	560	528	356	262	3,218	688
Dry Creek	1,446	1,994	2,502	2,462	1,998	1,536	498	12,428	2,720
Eagle Island Group	1,414	2,114	2,514	2,114	2,410	1,654	2,356	14,556	2,237
Ballantine	100	88	522	364	416	256	356	1,902	578
Middleton Water	3,082	3,050	5,120	4,712	4,098	3,408	3,128	26,698	5,704
Middleton Mill	1,890	3,056	3,562	2,890	1,856	1,434	980	15,662	3,245
Phyllis	4,636	15,444	19,060	15,444	7,952	6,784	10,136	79,456	22,000
Eureka #1	590	562	980	1,082	970	660	182	4,776	1,666
Pioneer	788	720	1,490	1,080	1,098	538	504	6,218	1,286
Canyon County	1,758	1,310	3,574	3,260	2,872	2,416	1,860	17,050	3,709
Caldwell High Line	4,284	2,468	4,092	4,192	4,044	3,094	2,292	25,296	12,146
Riverside	11,150	12,490	12,470	8,880	4,194	6,048	9,324	64,564	13,200
Farmers Co-op.	10,546	14,656	13,670	9,768	7,822	7,332	10,050	73,344	15,500
Canyon	538	248	830	454	584	390	610	3,654	1,382
Seibenburg	594	412	606	500	498	396	228	5,094	767
Pioneer Dixie	604	876	1,090	1,088	884	602	729	5,872	3,082
Eureka #2	816	2,990	3,694	1,728	1,814	1,396	1,286	12,724	2,560
Upper Center Point	876	686	686	606	524	382	380	3,620	636
Lower " "	156	282	684	400	452	304	318	2,576	1,309
	79,190	90,690	156,558	108,965	77,635	65,544	64,576	622,136	166,052

HEADGATE DUTY FOR CALDWELL HIGH LINE CANAL.

SEASON 1915.

Stewart Acreage 4,010 — Computed Acreage 12,146

Month	Acre Ft. Diverted	Acre Ft. Diverted Per Acre: Stewart Acreage	Computed Acreage	Rate in Miners In. Per Acre: Stewart Acreage	Computed Acreage	Per Cent Diverted in Month
April	4,224	1.05	.35	.68	.29	16.70
May	2,468	.62	.20	.50	.16	9.76
June	4,992	1.24	.41	1.04	.34	19.73
July	4,192	1.05	.35	.84	.28	16.57
Aug.	4,044	1.01	.33	.81	.27	15.99
Sept.	3,084	.77	.25	.64	.21	12.19
Oct.	2,292	.57	.19	.46	.15	9.06
Total	25,296	6.31	2.08			100.00
Ave. 214 days.				.74	.24	

Note: Caldwell High Line - The Caldwell High Line Heading is on the south side of the river about a mile below Star, and like the Phyllis follows the bench until it emerges on top of it. Because of moss and sand this canal had to be measured frequently. Water was running throughout the entire seven months of the irrigation season.

BOISE RIVER CANALS.

In order of amount of water carried for entire season.

SEASON 1915.

	Acre ft.		Acre ft.
Ridenbaugh	106,546:	Eureka #2	12,724
Phyllis	79,456:	Dry Creek	12,428
Farmers' Coop.	73,344:	Thurman Mill	11,314
Riverside	64,564:	Pioneer	6,218
New York	48,144:	Pioneer-Dixie	5,872
Settlers	34,316:	Eureka #1	4,776
Farmers' Union	29,016:	Canyon	3,654
Middleton Water Co.	26,608:	Upper Center Pt.	3,620
Caldwell High Line	25,296:	Bubb	3,552
Canyon Co. Water Co.	17,050:	Little Union	3,218
Middleton Mill	15,668:	Siebenburg	3,094
Eagle Island Group	14,556:	Lower Center Pt.	2,576
Boise Valley	12,824:	Ballantine	1,902

Besides the canals here listed there are some others which for some definite reason are not included.

For the Cruzen and Boise City no definite acreage could be obtained, and the Rossi Mill wastes back into the river so large a portion of the water diverted that the data would be misleading. There are also several very small canals of which no note is made.

TABLE SHOWING COMPLETE RIVER MEASUREMENTS
and
NET GAIN
July 9,1914.

Canals and Tributaries.	Boise River	Canal Discharge.	Tributary flow.	Seepage flow	Net Gain
	2470				
Penitentiary Canal		7.00			
U.S.R.S.Canal M.C.#2		1319 .80			
Ridenbaugh Canal		385.00			
Bubb Canal		13.80			
Cruzen Canal		69.60			
Boise City Canal		7.12			
Cottonwood Creek			18.90		
Boise River at Boise		759.80			
Rossi Mill			4.40		
Totals	2470	2562.12	23.30	111.02	~~134.32~~
Gain Highland to Notus					134.32
	Boise to Eagle				
Boise River at Boise	801.90				
Settlers Canal		137.00			
Little Davis Canal		1.50			
Big Davis Canal		10.05			
Thurman Mill		47.80			
Boise Sewer			22.06		
Sand Creek			1.20		
Farmers Union Canal		141.60			
Boise Valley Canal		30.40			
Little Union Canal		3.32			
Boise Valley Waste			11.70		
Dry Creek Canal		41.00			
Warm Springs		3.20			
Thurman Mill Waste			11.98		
Graham & Gilbert		5.20			
Joplin Canal		1.96			
Catlin & Mace		2.78			
Conway & Hamming		8.43			
Boise River at Eagle		408 .27			
Slough South of Eagle			2.78		
Totals.....	801.90	842.51	49.72	- 9.11	
Gain - Boise to Eagle					40.61

Table continued.

Eagle to Star.

Canals and Tributaries.	Boise River	Canal Discharge.	Tributary flow.	Seepage flow.	Net Gain.
Boise River at Eagle	411.05				
Hart & Davis Canal		5.77			
Phyllis Canal		2220.00			
Eureka No.1 Canal		15.50			
Dry Creek Waste			14.26		
Ballantine Canal		11.90			
Ballantine "			11.90		
Middleton Water Co.		53.20			
Middleton Mill Co.		29.86			
Pioneer		10.00			
Boise River at Star		248.20			
Totals	411.05	574.43	26.16	137.22	
Gain - Eagle to Star					163.38
Boise River at Star	248.20				
Eureka No. Waste			6.00		
Caldwell High Line Canal		85.38			
Franklin Ditch		1.34			
Kennedy Ditch		0.40			
Canyon Co.Water Co.		51.83			
Ten Mile Waste			74.95		
Thomas Slough			3.14		
Big Slough		11.28			
Boise River at Middleton		214.60			
Totals	248.20	364.83	84.09	32.54	
Gain - Star to Middleton					116.63
Boise River at Middleton	214.60				
Middleton Slough			38.32		
Willow Creek			4.81		
Mason Creek			78.29		
East Hartley Gulch			1.90		
West " "			0.00		
Indian Creek			94.59		
Riverside No. 2		108.03			
Sebree Canal		309.43			
Canyon Canal		20.96			
Seibenberg Canal		6.44			
Boise River at Canyon		73.50			
Totals	214.60	518.36	217.91	85.85	
Gain - Middleton to Canyon					303.76

Table Continued.

Canals and Tributaries.	Boise River	Canal Discharge.	Tributary flow.	Seepage flow	Net Gain.
Boise River below Canyon	73.50				
Caldwell Drain			5.11		
Riverside Waste			4.00		
Keller & Dixie Slough		16.93			
Upper Dixie Slough			11.22		
Eureka No. 2		54.66			
Upper Center Point Canal		11.69			
Lower Center Point Canal		7.78			
Boise River at Notus		71.54			
Totals.....	73.50	142.60	20.33	48.72	
Gain - Canyon to Notus					69.05

SUMMARY TABLE.

Section of river.	Tributary flow.	Seepage flow	Net Gain.
Highland Station to Boise	23.30	111.02	134.32
Boise to Eagle	49.72	- 9.11	40.61
Eagle to Star	26.16	137.22	163.38
Star to Middleton	84.09	32.54	116.63
Middleton to Canyon	317.91	85.85	303.76
Canyon to Notus	20.33	48.72	69.05
Total gain to River	421.51	406.24	827.75

CHART 27.

RECONSTRUCTED TABLE OF STEWART DECREE SHOWING THE ORDER AND PRIORITIES OF THE DIFFERENT RIGHTS EXISTING IN SECTION ONE OF BOISE RIVER AND DEPENDING ON THE NATURAL FLOW PASSING HIGHLAND, FOR THE PERIOD JULY 19 TO OCTOBER 31 Inc. 1915, OR THE 60% PERIOD.

SHEET 1.

No. of Decreed Right Stewart Decree	No. of Right based on 1915 Results	Name	Amount Decreed 100%	Amount Decreed 60%	Quantities Passing Highland necessary to fill 60% of Decree
33	1	Boise City Canal Co.	38.06	22.83	22.83
34	2	Franklin Ditch Co.	15.40	9.24	32.07
35	3	Canyon Co. Water Co.	75.80	45.48	77.55
36	4	Martha E. McCarthy	14.10	8.46	86.01
37	5	Goodman and Goodman	3.70	2.22	88.23
40	6	S. S. Gray	1.40	.84	89.07
42	7	Isaac Bedal	1.60	.96	90.03
46	8	Mason Creek Ditch Co.	37.20	22.32	112.35
48	9	W. J. Hamming	2.60	1.56	113.91
49	10	Pioneer Canal (Star)	25.72	15.44	129.35
50	11	Barber Lumber Co.	2.24	1.34	130.69
52	12	T.C. Catlin and Pollette Mace	7.86	4.72	135.41
53	13	Peter Meeres	1.80	1.08	136.49
54	14	Middleton Mill Ditch Co.	33.70	20.22	156.71
55	15	J. F. Yaryan	.70	.42	157.13
56	16	J. F. Yaryan	1.40	.84	157.97
57	17	Mary C. Davis	4.40	2.64	160.61
58	18	Edward N. Hart	3.30	1.98	162.59
61	19	Edward and Mary Clark	2.30	1.38	163.97
62	20	John Cecil	.44	.26	164.23
63	21	Thomas Aikens	5.20	3.12	167.35
64	22	W. H. Conway	.90	.54	167.89
65	23	Middleton Water Co.	114.08	68.45	236.34
67	24	Nampa-Meridian Irrig. D.	170.00	102.00	338.34
72	25	New Dry Creek Ditch Co.	31.32	18.79	357.13
75	26	Isham Joplin	2.40	1.44	358.57
76	27	Joseph Goble	.90	.54	359.11
77	28	Franklin Ditch Co.	27.60	16.56	376.67
78	29	Allen V. Webster	.90	.54	376.21
79	30	Susie Campbell	.60	.36	376.57
80	31	J. T. Barber	1.60	.96	377.53
81	32	Sonora Joplin	3.40	2.04	379.57
82	33	S. W. Hutchinson	.44	.26	379.83
83	34	Johnson	.44	.26	380.09
84	35	Andrew J. Joplin	2.86	1.72	381.81

Rights 1 to 32 inc. Stewart Decree, taken care of by Return Flow in Sect. 1.

A. J. Tallman
Irrig. Engr.

1916

TRIBUTARY RETURN FLOW TO BOISE RIVER

BY DAYS DURING THE IRRIGATION SEASON OF 1916.

CHART 1
SHEET 1.

APRIL

Name of Tributary.	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
Cottonwood Creek.	32	32	32	32	30	28	28	27	26	25	20	16	11	11	10	10	10	10	8	6	11	17	14	11	8	10	11	16	21	23	546
Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
Boise Valley Waste.	3	3	3	3	2	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	6	8	9	8	7	5	3	4	5	6	83
Plantine Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	6	8	11	14	10	6	1	72
Dry Creek Waste	0	4	8	12	16	20	24	28	32	36	40	47	48	47	46	53	60	60	56	52	27	38	37	35	34	34	33	34	34	32	1027
Sherman Mill Slough.	7	7	7	7	6	9	9	7	10	19	19	19	20	19	19	19	19	15	12	11	10	10	10	10	10	10	10	11	11	12	364
Eureka Waste.	5	5	5	5	5	5	5	6	7	7	7	7	7	7	7	7	7	7	7	9	10	9	8	7	6	4	5	6	6	7	195
Phillis Slough.	5	5	5	5	5	6	6	7	7	7	10	12	10	7	6	5	4	4	5	7	6	5	5	4	3	3	4	5	6	7	179
Ten Mile Creek	3	3	3	3	2	2	47	38	29	30	39	36	36	36	44	52	59	58	56	46	57	166	92	18	16	6	12	18	24	30	1067
Middleton Slough.	50	50	50	51	52	48	45	45	45	45	46	45	44	43	43	43	43	30	103	86	70	59	47	35	27	21	32	38	40	145	1518
Dry Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	4	5	6	7	31
East Harkley	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	2	3	4	5	6	41
West Harkley	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
Lyon Creek	3	4	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	4	13	29	28	9	5	10	10	11	15	15	15	14	237
Nelson Drain.	31	28	26	30	26	27	27	28	27	31	30	48	25	27	29	30	30	31	33	18	33	33	33	37	39	41	43	45	47	49	984
Indian Creek.	87	92	92	92	89	87	84	105	119	140	140	170	207	187	148	114	124	97	97	97	97	62	59	84	70	65	66	69	86	70	3096
Lake Drain	7	8	7	7	7	7	7	7	8	8	9	18	18	13	11	21	11	11	11	11	12	11	12	12	10	12	14	13	12	13	340
Total	244	250	251	258	250	247	292	308	321	359	368	429	436	417	373	370	387	340	430	399	362	442	353	289	261	251	272	298	327	433	10020

MAY

Name of Tributary.	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
Cottonwood Creek.	25	27	30	33	28	27	29	31	33	32	31	26	21	23	25	27	28	29	37	44	46	48	49	55	66	64	62	57	53	48	43	1180
Boise Sewer.	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
Boise Valley Waste.	4	4	3	2	3	3	7	12	15	18	22	20	18	18	18	18	17	20	21	22	21	20	20	22	22	21	20	21	21	21	20	498
Plantine Waste.	4	5	3	4	4	4	4	5	5	6	8	8	8	7	6	5	5	5	5	5	5	4	6	7	8	5	1	1	0	0	1	144
Dry Creek Waste.	30	28	14	1	1	1	3	6	9	5	1	1	1	1	1	1	1	1	1	1	1	1	1	21	42	41	40	31	23	15	18	342
Sherman Mill Slough.	12	12	11	12	12	13	13	13	13	13	13	13	13	12	12	12	12	15	18	21	24	27	25	23	21	19	17	15	13	13	14	476
Eureka Waste.	7	5	3	4	6	6	7	7	7	8	9	9	7	5	4	6	8	7	6	5	4	4	5	5	5	5	6	4	4	4	3	175
Phillis Slough.	7	6	6	8	9	9	8	8	10	12	9	5	7	8	10	10	9	9	9	10	10	10	12	14	17	17	20	18	16	14	12	10	322
Ten Mile Creek.	36	35	34	22	42	44	46	47	40	34	39	36	41	46	52	56	60	60	60	48	136	173	168	163	159	155	151	147	143	108	73	2504
Middleton Slough.	200	150	100	98	95	108	121	135	122	109	116	116	116	117	117	90	35	125	174	186	171	168	173	194	197	200	183	167	149	123	98	4299
Dry Creek.	8	9	10	12	14	15	16	17	18	19	20	17	14	11	8	4	5	6	7	8	10	12	14	16	18	20	21	22	23	24	25	443
East Harkley.	7	8	9	9	9	8	7	6	5	3	1	3	5	7	9	10	10	10	10	10	10	10	9	9	9	9	8	8	8	8	8	242
West Harkley.	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	39
Lyon Creek.	13	13	13	15	14	24	24	22	22	34	31	38	21	20	10	8	8	15	16	15	11	7	9	15	13	11	12	17	13	9	11	506
Nelson Drain.	54	43	43	45	50	53	45	47	53	51	51	87	78	76	102	90	90	56	103	112	110	112	127	118	110	110	114	106	100	95	85	2526
Indian Creek	66	61	61	62	64	73	77	76	77	77	86	86	75	85	95	89	87	90	101	111	115	122	129	130	140	140	146	136	142	140	136	3097
Lake Drain	13	13	14	13	16	21	16	16	16	17	16	16	17	17	17	17	17	18	21	21	19	20	19	19	19	20	20	21	21	21	21	559
Total	497	477	372	332	377	419	432	459	454	447	446	458	437	437	496	427	432	442	502	527	580	625	647	680	695	687	703	645	615	570	496	17209

June

Name of Tributary	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
Hornwood Creek	33	30	30	29	28	28	29	29	26	28	26	29	22	16	10	18	22	33	44	65	64	52	45	38	32	26	21	22	23	19	881
Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
Valley Waste	14	13	12	12	12	7	6	6	5	3	3	3	0	2	3	4	5	10	15	20	19	18	17	15	13	13	9	9	8	7	294
Ballantine Waste	2	3	3	5	6	8	8	9	10	12	11	11	10	11	12	10	9	9	10	10	6	3	3	3	3	5	5	5	3	4	205
Dry Creek Waste	11	6	1	1	1	1	1	1	1	1	3	5	7	7	8	8	7	29	51	72	61	50	37	25	24	23	22	18	18	7	502
Burman Mill Slough	14	14	14	15	15	26	26	27	23	25	27	25	25	25	25	23	25	25	22	18	17	16	16	16	16	17	17	15	14	14	572
Eureka Waste	3	2	2	3	4	3	2	0	1	2	2	3	3	3	4	5	6	7	8	10	11	11	11	11	11	11	11	11	11	11	183
Hyllis Slough	9	9	9	8	8	10	12	12	12	11	10	9	9	11	11	12	12	12	12	11	11	11	12	12	11	11	11	11	8	16	323
Ten Mile Creek	73	73	79	85	91	86	80	81	82	106	130	153	152	150	131	112	120	128	136	144	152	157	165	185	123	105	82	60	69	68	3321
Middleton Slough	91	89	87	90	92	94	94	96	113	136	159	180	136	139	120	105	165	225	286	296	267	173	150	141	123	105	104	103	73	79	3986
Willow Creek	26	27	29	30	31	33	32	31	30	29	26	29	22	20	18	16	15	14	13	12	11	10	8	7	6	5	4	2	1	1	532
East Hartley	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	183
West Hartley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13
Mason Creek	22	23	19	22	20	30	23	26	21	25	8	8	12	12	28	33	28	28	26	28	23	8	6	4	3	2	2	3	3	18	524
Mason Drain	77	80	84	87	78	91	105	102	109	112	108	104	106	108	74	81	53	118	139	118	110	102	108	100	100	100	90	81	83	91	2906
Indian Creek	123	120	119	129	121	115	115	120	132	130	126	132	126	118	134	126	128	136	140	150	135	129	150	150	172	150	132	150	151	152	4372
Dixie Drain	21	21	22	25	24	24	25	23	23	26	26	26	26	25	21	24	24	24	24	25	20	23	23	22	23	23	23	23	22	21	704
Total	545	526	528	530	540	535	537	564	606	659	677	731	690	666	603	592	643	810	976	964	910	845	802	733	679	642	593	537	502	509	19763

July

Name of Tributary	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
Hornwood Creek	6	20	33	30	26	22	19	20	15	10	15	20	20	16	17	17	18	17	15	13	44	11	16	24	15	25	21	23	20	19	19	603
Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
Valley Waste	6	13	21	20	20	19	18	9	6	3	3	3	3	3	0	0	0	4	2	1	2	3	4	4	3	4	3	3	3	6	6	203
Ballantine Waste	4	4	4	4	4	5	5	3	5	6	6	6	3	3	6	6	6	6	6	6	6	6	7	8	8	5	5	5	5	5	5	162
Dry Creek Waste	1	1	1	19	37	22	4	1	1	1	1	1	1	1	1	10	20	11	1	1	1	1	1	1	1	1	1	1	1	1	1	147
Burman Mill Slough	17	13	17	21	25	23	19	17	15	13	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	5	5	5	5	5	5	340
Eureka Waste	11	11	10	10	9	9	8	8	7	6	5	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	155
Hyllis Slough	16	15	14	13	10	12	11	10	11	12	11	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	316
Ten Mile Creek	76	83	90	97	109	100	95	85	75	65	54	56	58	60	61	61	62	64	66	68	70	71	73	70	76	78	80	82	83	84	85	2332
Middleton Slough	98	80	97	114	131	75	85	81	93	109	45	28	53	56	59	59	49	61	65	69	91	68	130	126	135	124	76	90	103	116	102	2633
Willow 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	31
East Hartley	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	186
West Hartley	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
Mason Creek	25	25	25	25	25	18	11	19	19	17	15	13	17	21	20	18	49	37	30	38	30	30	30	30	30	25	26	20	25	23	18	742
Mason Drain	87	88	94	90	90	90	90	91	91	87	87	87	80	81	87	87	87	87	87	87	87	87	87	86	86	92	98	86	93	93	93	2744
Indian Creek	134	150	142	126	152	159	160	170	160	152	130	120	111	116	111	116	120	124	120	124	121	132	132	156	146	150	146	148	128	160	152	4168
Dixie Drain	29	24	23	27	24	22	22	22	21	20	21	22	21	18	18	18	20	18	15	13	19	19	19	18	18	19	19	18	18	18	18	627
Total	421	423	512	590	703	587	556	547	530	545	407	393	422	427	407	443	467	449	440	485	537	487	536	601	583	576	571	575	604	602	587	15976

CHART SHEET

AUGUST

Name of Tributary	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	Tot
Cottonwood Creek	15	21	19	26	29	25	21	29	23	22	22	22	21	21	20	21	14	9	9	15	21	17	26	20	19	22	22	21	26	26	25	63
Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	24
Boise Valley Waste	2	2	2	4	4	4	5	11	11	14	17	3	4	6	6	3	4	4	4	4	6	13	8	11	10	10	11	11	3	5	3	29
Ballantine Waste	5	4	5	4	5	5	5	5	5	7	8	8	7	7	8	8	8	8	8	8	8	8	5	7	5	5	8	8	8	4	5	21
Dry Creek Waste	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	3
Thurman Mill Slough	7	7	7	7	7	7	6	6	6	6	6	6	6	6	5	5	5	4	5	6	6	6	6	6	6	6	6	6	6	6	6	18
Eureka Waste	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	9
Phyllis Slough	9	9	9	9	9	9	9	9	9	9	9	8	8	7	8	8	8	10	10	10	10	10	11	12	14	12	8	10	10	10	9	28
Ten Mile Creek	86	75	65	58	51	44	37	30	23	16	9	10	11	12	14	13	15	16	17	19	18	20	21	22	24	23	25	25	25	24	23	87
Middleton Slough	98	79	85	68	52	54	60	62	47	45	45	37	38	41	40	22	27	31	55	57	52	45	34	35	40	35	32	31	30	22	21	144
Willow 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	3
East Hartley	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	18
West Hartley	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	3
Mason Creek	14	2	8	13	13	16	15	14	16	17	22	22	15	19	13	5	12	25	22	24	26	28	25	23	16	7	7	7	9	11	13	45
Mason Drain	93	83	80	86	87	89	84	79	82	84	89	86	84	82	80	86	80	87	89	89	89	89	86	83	80	83	87	83	82	81	80	260
Indian Creek	142	141	130	126	126	124	138	130	128	128	133	139	136	136	138	145	145	140	140	140	142	140	132	126	116	109	113	113	109	112	109	345
Dixie Drain	17	19	19	19	20	20	20	18	18	18	22	20	20	20	20	19	20	22	22	21	22	24	24	24	24	20	22	24	22	23	23	69
Total	508	482	454	440	419	413	422	408	389	383	397	379	372	378	370	326	329	373	401	413	419	420	399	389	380	355	351	359	350	347	340	1210

SEPTEMBER

Name of Tributary	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		Tot
Cottonwood Creek	25	25	25	23	26	26	26	22	21	23	19	27	27	3	23	21	21	21	16	28	25	25	27	30	33	31	29	29	31	31		73
Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		24
Boise Valley Waste	2	3	3	2	3	4	3	3	4	10	17	32	11	4	6	4	3	1	3	5	6	6	6	6	6	4	4	5	6	6		18
Ballantine Waste	9	8	8	7	9	10	10	6	5	5	5	6	6	6	7	7	8	8	8	8	8	7	6	6	6	6	6	6	6	6		20
Dry Creek Waste	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		3
Thurman Mill Slough	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		18
Eureka Waste	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		9
Phyllis Slough	9	9	9	9	9	8	9	9	9	9	8	8	8	8	9	8	7	10	10	10	10	10	11	12	14	12	8	10	10	9		28
Ten Mile Creek	25	28	27	26	29	30	30	33	36	39	42	45	48	51	54	57	57	61	63	65	60	69	71	73	75	77	78	80	78	76		154
Middleton Slough	28	35	36	37	37	38	39	41	44	52	61	62	65	66	67	44	50	46	33	51	50	53	63	62	74	65	69	68	69	69		160
Willow Creek	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		3
East Hartley	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		18
West Hartley	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		3
Mason Creek	12	16	11	13	16	30	30	23	26	28	29	29	26	22	21	15	33	7	10	9	8	6	12	14	14	13	13	15	7	11		52
Mason Drain	80	77	79	77	80	80	86	86	84	87	91	87	84	81	80	83	120	68	74	78	74	73	78	74	77	80	74	78	73	78		243
Indian Creek	113	109	109	110	113	117	117	117	119	142	142	136	138	146	152	152	154	125	125	108	142	146	132	130	132	134	132	138	129	126		393
Dixie Drain	23	23	26	27	25	23	23	23	26	23	24	23	24	24	26	24	24	24	24	25	24	27	26	27	26	26	26	26	24	24		71

CHART 6 C

SHEET 4

No.	Name of Tributary	OCTOBER 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
1	Cottonwood Creek	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	465
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	120
3	Boise Valley Waste	6	7	7	8	8	8	8	8	7	7	7	7	6	6	6	106
4	Ballantine Waste	6	6	6	6	6	6	6	6	5	5	5	5	5	4	4	81
5	Dry Creek Waste	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
6	Thurman Mill Slough	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
7	Eureka Waste	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	45
8	Phyllis Slough	9	9	9	9	8	8	8	8	8	7	7	7	7	7	7	118
9	Ten Mile Creek	74	70	68	67	65	65	65	65	65	65	65	65	65	65	65	992
10	Middleton Slough	79	89	100	110	120	122	124	125	126	127	128	129	130	131	131	1769
11	Milan Creek	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
12	East Hartley	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
13	West Hartley	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15
14	Mason Creek	14	25	22	22	22	22	22	7	5	4	3	2	3	2	3	178
15	Mason Drain	77	81	87	81	81	80	84	90	92	89	79	77	75	77	77	1231
16	Indian Creek	153	149	137	159	165	155	150	167	153	155	144	140	136	136	136	2259
17	Dixie Drain	25	25	25	25	25	25	23	23	22	21	21	21	21	21	21	344
	Total	502	518	532	552	557	548	547	556	537	537	516	510	500	506	507	7933

1916

M.V.T.

CHART 5
SHEET 1.

APRIL

No.	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
1	U.S.R.S.	933	950	925	867	847	851	851	851	855	843	809	853	847	847	835	888	925	965	995	1025	1064	1081	1073	1090	1153	1176	1247	1245	1261	1283	29457
2	N. York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8314
3	Penitentiary	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	120
4	Ridenbaugh	0	0	0	0	0	0	0	0	0	0	63	63	98	98	134	136	136	280	293	308	305	320	316	323	332	332	363	368	300	371	4941
5	Dubb	2	2	2	2	2	2	2	2	2	2	3	4	5	6	7	8	9	10	11	11	11	12	13	13	14	15	16	17	18	19	242
6	Crozen	22	22	22	22	14	4	4	4	8	13	19	16	14	14	14	17	21	25	20	14	21	29	30	31	37	41	45	41	37	50	671
7	Boise City No. 1	0	0	0	0	0	0	0	0	2	4	4	3	3	3	18	14	20	22	22	22	23	25	24	23	25	25	25	24	23	30	379
8	Settlers	3	3	3	3	3	36	31	66	74	81	89	95	101	109	105	90	76	62	112	124	121	70	121	123	70	121	0	74	111	121	2218
9	Thurman Mill	7	7	7	7	10	12	12	11	20	27	24	29	30	28	28	28	28	28	27	25	26	28	28	27	28	28	28	29	30	30	684
10	Farmers Union Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	34	68	65	62	64	59	80	102	125	143	161	173	183	193	185	196	140	2038
11	Little Union	0	0	0	0	1	2	2	2	4	5	5	5	5	5	5	5	5	5	5	5	11	16	13	11	8	21	21	19	17	14	1217
12	Dry Creek	0	0	0	0	0	0	0	7	7	7	13	13	14	12	14	16	18	20	28	29	33	35	37	39	42	46	46	47	48	25	596
13	Ballantine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	4	6	8	11	14	10	6	1	3	72
14	7 Eagle Isl. Canals	0	0	0	0	0	0	0	0	0	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	987
15	Middleton Water Co.	8	8	8	8	8	8	8	8	8	8	9	10	10	9	10	10	10	45	80	80	81	80	78	77	77	77	81	85	90	93	1172
16	Middleton Mill Ditch	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	40	75	75	75	76	78	507
17	Phyllis	0	0	25	32	40	33	33	33	62	70	145	158	177	177	177	177	207	230	255	302	0	0	0	0	0	0	0	277	315	170	3093
18	Eureka No. 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	0	0	00
19	Pioneer	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	11	11	16	21	15	10	11	13	14	21	28	25	23	22	21	282
20	Canyon County	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	29	27	37	47	57	67	384
21	Caldwell High Line	0	0	0	0	0	0	0	0	0	0	0	0	0	15	13	15	10	24	17	20	21	20	6	17	49	13	10	12	15	17	298
22	Farmers Coop.	0	0	0	0	0	11	22	29	36	44	44	44	45	45	61	77	92	98	120	138	156	170	184	198	219	242	265	274	268	262	3144
23	Canyon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	10	15	20	25	25	26	18	10	162
24	Seibenberg	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	00
25	Riverside No. 2	0	0	0	0	29	31	32	72	112	152	164	176	196	160	143	125	107	90	88	96	103	130	157	185	220	253	194	214	200	186	3317
26	Pioneer Dixie	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	10	21	21	22	22	23	23	20	20	20	21	237
27	Eureka No. 2	0	0	0	0	0	0	0	0	0	0	2	14	3	2	6	9	12	20	20	21	21	20	19	18	28	38	35	36	37	38	404
28	Upper Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6	6	6	6	6	6	6	9	12	14	14	14	14	121
29	Lower Center Point	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	00
30	Boise River at Notes	4600	4720	5920	6200	6200	6200	6460	6460	6460	6460	6720	6580	7300	7296	7296	5980	7240	6580	6980	6940	5920	5920	5640	5640	5640	5920	5640	5640	5920	5920	186744
31	Miscellaneous	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	651
	Total	8860	9477	7197	7225	7442	7425	7762	7830	7636	8342	8747	8849	9452	9176	9993	9300	9023	9348	9095	9619	8457	8243	8332	8455	8857	9610	9534	9167	8458	8332	251449

Miscellaneous includes - Peter Mens, Moss Mill, Little Davis, Big Davis, Tantlet, Leonard, and Kennedy Ditches.

1916.

A. F. Tallman
Irrig. Engr.

CHART 5A
SHEET 2.

Name of Canal	MAY 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
U.S.R.S.	1311	1362	1407	1435	1463	1491	1541	1526	1536	1511	1521	1516	1576	1626	1641	1636	1634	1635	1662	1338	1926	1871	1546	1616	1616	1626	1621	1631	1651	1636	1636	47774
N. York Stock.	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8587
Penitentiary	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	124
Ridenbaugh.	256	290	295	362	362	365	0	0	0	0	86	0	0	0	0	310	340	364	364	305	303	295	275	275	237	240	270	270	260	232	245	6576
Bubb.	21	18	16	14	13	12	11	10	10	11	12	18	8	12	10	11	11	12	13	11	12	10	9	11	9	10	8	7	6	7	8	347
Cruzen.	69	70	72	73	74	73	65	58	72	72	72	50	28	50	73	78	76	75	75	76	77	78	76	76	75	75	75	73	69	70	68	2160
Boise City No. 1.	19	19	20	21	20	19	18	20	19	19	18	18	18	17	16	15	17	18	16	14	14	15	16	16	15	10	6	7	8	7	7	483
Settlers.	121	125	132	132	132	122	129	136	136	142	139	138	138	138	145	145	152	122	123	143	143	143	143	140	108	106	100	113	106	106	0	0	3783
Thurman Mill	30	30	30	30	30	30	30	30	33	31	30	30	30	30	29	29	28	27	26	26	25	24	23	17	12	11	12	10	8	8	8	747
Farmers Union CD.	84	30	30	30	30	30	35	39	144	160	177	146	115	148	181	192	180	169	170	170	166	162	163	153	147	143	138	136	132	132	134	3979
Little Union.	9	10	10	9	8	9	10	10	9	9	9	8	9	9	9	9	9	9	9	9	7	6	8	7	6	6	6	5	4	4	4	247
Dry Creek.	3	30	37	38	38	38	37	44	46	46	46	47	48	45	43	50	51	53	48	42	40	39	40	39	37	33	29	29	29	31	31	1305
Ballantine.	4	5	3	4	4	4	4	5	5	6	8	8	8	7	6	5	5	5	5	5	5	4	6	7	8	5	1	1	0	0	1	144
7 Eagle Sl Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
Middleton Plater Co.	96	90	84	84	84	85	86	87	86	85	84	83	83	82	82	81	80	77	74	75	76	76	77	77	78	76	69	62	55	54	52	2420
Middleton Mill Ditch	50	70	60	63	65	64	62	60	57	54	54	53	52	52	60	61	63	54	46	47	50	55	55	56	56	51	45	39	33	33	33	1689
Phyllis.	290	345	352	350	358	358	352	352	373	376	376	376	376	385	385	385	383	393	395	395	386	385	370	373	350	326	309	315	322	330	378	375	11225
Eureka No. 1	12	12	12	12	13	14	15	16	17	17	17	16	16	15	15	14	13	13	13	14	15	16	13	12	14	15	14	12	10	8	7	421
Pioneer	19	19	18	25	32	28	24	20	23	27	31	34	34	33	33	31	28	25	23	20	23	23	21	20	17	13	12	10	8	13	12	714
Canyon County	78	78	78	78	78	79	80	81	80	78	78	75	80	79	78	65	32	32	32	49	66	84	83	81	86	85	81	77	74	74	74	2245
Caldwell High Line	26	27	25	30	99	24	31	35	29	32	90	74	20	39	29	100	31	40	61	65	68	68	86	61	53	58	53	57	51	53	50	1526
Farmers Co-op.	256	250	270	285	292	280	275	274	274	296	300	305	306	306	304	308	307	309	311	312	307	305	277	283	284	284	284	276	280	284	284	8972
Canyon.	2	17	22	24	27	31	36	40	41	42	17	10	17	24	31	28	29	26	23	20	17	13	15	7	7	7	6	4	2	15	34	676
Seibenberg.	17	14	15	17	14	13	13	13	13	12	12	12	11	12	12	11	11	11	11	11	11	11	11	10	9	8	7	7	6	6	5	340
Riverside No. 2.	170	228	170	201	232	232	232	232	231	231	231	230	232	234	236	230	229	230	237	237	242	245	257	234	227	228	224	218	214	214	214	6978
Pioneer Dixie	21	21	21	23	24	24	25	25	13	1	17	32	24	16	8	4	0	8	17	15	14	13	15	17	15	13	11	9	7	8	8	473
Eureka No. 2.	38	38	38	38	39	30	20	10	11	11	17	23	30	37	44	42	40	35	25	29	30	30	40	37	34	31	28	25	22	21	19	916
Upper Center Point	14	15	15	14	13	14	14	15	15	15	14	13	12	11	10	11	12	10	9	9	8	8	11	10	9	8	8	7	7	7	7	345
Lower Center Point	0	4	7	7	8	8	9	10	10	9	9	9	9	8	7	7	6	5	4	4	3	3	6	5	4	4	3	3	2	2	1	176
Boise River at Notus	5640	5720	5840	5720	5720	6840	7600	7240	7540	7580	6720	6720	6960	6720	6720	5640	5720	5720	5720	3830	3830	3830	4560	4560	4560	5720	4320	4600	5640	3840	3140	2100	2100	1900	163250
Miscellaneous.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
Total.	9038	8575	8757	9252	9447	10526	11003	10750	11142	11152	10573	10518	10112	9844	9845	9845	9441	9638	9704	7625	7872	8373	9087	8270	8445	8455	7245	6976	6258	5785	5636	280409

P.A.F. 1916.

CHART 5B.
SHEET 3.

JUNE

No.	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
1	U.S.R.S.	1631	1661	1636	1661	1691	1676	1687	1692	1703	1692	1687	1687	1738	1758	1768	1768	1763	1763	1768	1768	1743	1733	1753	1738	1712	1703	1692	1687	1702	1646	51333
2	N. York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
3	Penitentiary	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	120
4	Ridenbaugh	300	297	362	362	362	365	365	368	368	380	377	368	377	374	365	365	360	349	337	338	344	344	344	346	344	163	227	227	356	349	8982
5	Bubb	10	12	14	18	21	21	21	21	22	22	23	24	24	24	23	22	21	20	19	18	17	16	15	15	15	14	14	14	13	13	546
6	Cruzen	66	67	67	71	75	75	75	75	69	63	73	83	83	72	60	65	69	66	63	61	66	70	70	70	70	68	70	72	74	72	2111
7	Boise City No. 1	7	7	7	7	8	10	10	10	10	11	11	10	4	9	13	13	14	11	8	4	3	3	3	2	2	2	2	9	16	12	238
8	Settlers	92	100	116	121	143	142	142	142	142	142	140	118	140	140	140	139	139	139	110	78	54	54	165	74	90	55	163	127	130	138	3547
9	Thorman Mill	8	30	51	52	53	54	54	54	51	60	58	58	57	58	60	61	62	53	44	36	33	33	33	22	32	33	33	31	29	31	1341
10	Farmers Union 81	155	161	167	164	161	171	174	177	177	177	176	176	177	179	185	188	190	174	157	140	121	132	140	148	152	156	163	166	170	140	4914
11	Little Union	4	6	8	9	10	13	13	13	15	17	12	6	6	4	3	8	13	11	9	7	4	4	4	4	4	4	10	14	14	14	273
12	Dry Creek	31	38	46	47	48	48	51	54	54	54	52	51	54	52	50	42	32	39	25	15	12	14	11	8	14	21	28	25	21	27	1093
13	Ballantine	3	3	3	4	6	8	8	9	10	12	11	11	10	11	12	10	8	9	10	10	6	3	3	3	3	4	4	4	3	4	205
14	7 Eagle Ist Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1410
15	Middleton Water Co.	60	67	72	77	83	80	75	76	75	75	74	74	65	64	64	63	58	53	48	49	50	50	49	51	54	56	53	54	65	75	1409
16	Middleton Mill Ditch	39	44	47	50	54	60	66	69	69	69	69	69	67	67	67	66	68	70	71	68	44	44	43	42	41	40	34	30	38	36	1241
17	Phyllis	412	415	415	415	403	403	412	412	412	387	387	313	355	355	355	338	357	357	349	320	270	255	254	254	254	254	254	310	332	340	10500
18	Eureka No. 1	6	8	10	12	14	16	18	19	20	21	23	24	25	26	24	22	26	24	25	23	27	26	23	19	21	17	17	17	17	17	585
19	Pioneer	24	25	28	31	34	37	40	31	37	32	27	22	29	29	29	29	22	15	9	6	2	2	1	2	3	4	5	10	16	21	602
20	Canyon County	74	74	75	76	78	79	79	84	84	86	88	90	84	83	85	84	72	60	48	44	40	35	35	35	35	35	31	32	33	34	1875
21	Caldwell High Line	39	32	27	24	21	25	40	102	52	40	36	35	53	37	40	45	40	55	60	55	53	36	44	40	40	39	37	39	113	43	1344
22	Farmers Coop	286	301	301	302	306	306	308	308	306	308	308	308	309	307	309	308	311	308	290	296	304	305	254	254	255	258	264	273	289	286	9830
23	Canyon	24	13	13	13	13	18	22	21	19	13	8	3	9	15	15	15	11	7	3	3	0	0	0	0	6	12	10	8	11	15	326
24	Seibenberg	3	4	3	7	8	9	10	12	13	13	12	13	12	12	14	16	10	12	14	10	8	6	14	12	10	9	10	10	11	11	312
25	Riverside No. 2	181	148	177	206	235	230	224	220	216	208	199	190	181	173	170	166	179	192	206	198	190	181	172	174	176	178	168	158	160	162	5618
26	Pioneer Dime	19	29	30	30	31	28	24	24	24	24	24	24	26	29	24	19	19	18	11	15	13	11	9	9	9	9	8	7	8	10	571
27	Eureka No. 2	22	24	27	31	34	38	42	44	46	47	48	50	52	53	54	54	51	47	44	40	36	32	28	28	27	26	28	30	34	38	1155
28	Upper Center Point	8	8	10	12	13	15	17	16	15	14	13	12	11	10	10	10	9	8	8	9	8	7	7	7	7	7	7	7	11	15	311
29	Lower Center Point	1	1	4	8	12	13	14	14	15	15	16	16	16	16	16	16	12	10	8	6	4	4	2	6	10	15	14	12	10	8	314
30	Boise River at Natas	1720	1540	1380	1540	1720	3380	3380	3600	4600	4540	5100	5100	5100	5340	4840	5100	5340	5720	9400	11400	9060	6720	6460	5100	5400	5100	3890	4080	4600	5160	146210
	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	930
	Total	5581	5474	5571	5704	6005	7079	7730	8026	8289	8181	9412	9354	9423	9220	9154	9417	9685	10149	10308	9166	8623	10277	10035	8632	8945	8682	7554	7839	8648	9060	267440

A.K.T. 1916.

CHART 5C.
SHEET 4.

JULY

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
U.S.A.S	1601	1586	1591	1551	1566	1591	1631	1591	1591	1601	1586	1606	1601	1601	1586	1631	1666	1651	1626	1641	1636	1534	1591	1616	1631	1631	1626	1621	1616	1616	1611	49679
N. York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8587
Penitentiary	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	124
Bidenbaugh	362	368	230	207	345	377	366	360	362	368	365	375	377	368	383	386	377	389	377	380	383	383	386	389	383	383	383	383	383	386	380	11340
Bobb	12	12	11	11	10	11	12	13	15	16	16	16	16	16	16	16	16	16	16	16	17	17	17	16	16	16	17	16	16	16	17	464
Cruzen	70	57	45	59	73	78	74	66	62	58	76	75	75	70	74	70	66	70	67	76	72	76	75	73	70	73	76	73	76	76	76	2177
Boise City No. 1	7	12	16	13	10	9	9	10	10	11	11	10	9	8	8	8	7	7	5	10	13	16	12	9	9	9	9	9	9	9	8	302
Settlers	85	139	150	80	100	120	122	140	139	139	139	145	145	151	151	151	153	150	150	126	151	151	151	95	152	152	152	153	153	152	152	4289
Thurman Mill	34	26	17	22	28	30	28	33	33	34	36	36	36	36	65	66	66	65	63	40	45	39	34	60	19	35	33	33	33	32	31	1241
Farmers Union Ditch	169	174	177	179	171	170	170	177	177	177	171	169	168	162	184	185	187	190	185	185	185	184	183	182	182	177	174	177	177	178	180	5438
Little Union	18	12	6	6	5	5	4	4	5	5	13	7	7	1	4	3	2	3	1	0	1	11	10	10	8	10	10	6	6	6	6	175
Dry Creek	33	33	33	31	30	30	30	42	43	44	38	46	45	45	43	30	13	41	47	22	49	49	49	49	44	52	47	47	47	45	43	1250
Ballantine	4	4	5	5	4	5	5	3	5	6	6	6	3	3	6	6	6	6	6	6	5	6	7	5	8	5	5	5	5	5	5	162
Eagle & Bl. Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
Middleton Materia	64	61	59	59	38	39	63	42	98	105	93	85	84	90	93	75	56	53	74	13	85	76	76	76	74	73	75	71	71	70	68	2301
Middleton Mill Ditch	70	50	30	28	26	22	22	49	53	56	62	40	40	45	32	21	10	35	11	10	20	65	65	70	57	57	49	61	66	66	66	1350
Phyllis	395	395	316	315	296	320	353	353	380	401	410	415	415	415	415	415	415	415	513	353	325	415	420	425	400	400	345	348	385	345	385	11791
Eureka No. 1	17	17	18	18	20	20	19	19	21	22	21	22	23	24	26	23	17	21	19	21	23	24	24	24	25	26	27	26	23	21	22	682
Pioneer	16	13	10	10	10	32	32	40	42	45	50	17	34	32	25	17	10	32	17	16	11	32	23	18	16	16	16	16	23	22	21	718
Canyon County	34	34	32	30	29	29	31	31	33	35	34	76	75	70	63	61	60	60	57	69	61	75	75	78	72	67	67	60	60	64	60	1682
Caldwell High Line	77	77	83	55	103	109	110	102	110	103	95	97	93	110	110	108	70	70	0	101	108	108	109	108	107	114	108	97	77	83	95	2897
Farmers Coop.	274	293	284	260	260	277	293	290	305	314	324	338	319	314	329	318	324	314	312	274	214	319	317	308	300	304	314	305	308	300	296	9343
Canyon	15	19	19	25	25	25	26	23	22	20	0	5	6	2	17	18	19	21	21	12	4	20	22	22	20	17	24	20	0	17	0	501
Seibenberg	12	12	11	9	8	7	7	8	9	10	9	2	15	15	16	16	16	19	16	12	7	20	22	23	20	17	23	16	17	17	18	431
Riverside No. 2	158	163	160	159	138	128	186	182	184	186	176	164	176	186	196	193	190	185	209	205	196	206	198	199	192	199	202	202	190	212	190	5705
Pioneer Dixie	7	8	9	9	8	13	13	15	17	19	13	5	14	12	11	8	5	15	15	15	21	19	15	18	18	18	15	17	16	19	18	432
Eureka No. 2	35	30	30	36	32	32	6	32	34	37	32	24	26	20	17	22	26	30	31	25	6	19	56	54	53	73	45	50	30	57	50	1034
Upper Center Point	15	13	17	16	14	8	0	15	14	13	12	9	9	8	5	6	7	9	7	5	1	6	11	11	10	9	9	8	9	11	10	298
Lower Center Point	7	5	5	6	4	3	2	2	3	3	2	6	6	6	6	4	4	4	4	3	2	2	3	4	10	7	5	6	5	6	7	134
Use Rate of Rotes	4320	4080	3920	3700	4080	4080	2920	3120	3120	2920	3360	3360	3360	3360	2300	1720	1720	1720	1240	2120	2120	1340	940	800	890	720	890	800	660	520	700	890	660	740	890	580	62115
Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
Total	8232	8017	7685	7641	8575	6789	7047	7589	7951	8017	7716	6477	7334	6940	8428	6369	6289	6220	6078	6844	6710	7275	7141	6975	6888	6553	6763	6496	6496	6244	6244	189120

MAY, 1916.

CHART 52
SHEET 5

AUGUST

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
U.S.R.S.	1625	1625	1670	1670	1655	1660	1665	1660	1655	1687	1692	1426	141	310	69	999	1085	1080	1131	1144	1162	1176	1158	1175	1179	1115	1065	1057	1059	1021	963	38578
N. York Stock	208	208	208	208	208	208	208	208	208	166	166	166	166	162	146	166	166	166	166	166	166	166	166	166	166	166	166	166	131	131	131	5419
Penitentiary	4	2	4	4	2	4	4	4	4	4	4	4	4	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	124
Ridenbaugh	377	383	390	386	383	383	383	383	383	386	326	318	323	313	121	316	320	318	320	320	321	318	320	315	320	321	320	320	313	320	320	10533
Boob	16	16	15	15	15	14	14	14	13	13	13	12	12	12	11	11	10	10	10	9	9	9	8	8	8	8	8	8	8	8	8	345
Cruzen	68	72	76	69	71	70	73	74	73	72	71	74	73	70	70	68	80	0	65	65	65	63	79	63	76	70	72	72	78	70	70	2135
Boise City No. 1	7	7	6	6	6	6	5	5	5	5	5	5	5	5	5	12	13	14	7	6	6	6	5	6	5	5	6	7	7	6	5	199
Settlers	134	134	133	135	135	134	133	132	134	134	108	108	108	107	107	107	107	107	107	106	106	106	106	105	105	105	105	104	104	104	103	3563
Thurman Mill	24	23	23	23	22	22	21	20	20	19	19	14	14	14	13	9	9	9	28	30	32	31	27	27	26	26	26	26	31	31	31	690
Farmers Union Ditch	140	140	140	138	140	140	92	140	140	125	115	115	112	112	105	106	112	112	111	110	110	110	112	110	110	109	114	118	118	118	117	3701
Little Union	3	2	2	16	16	14	14	9	9	13	16	13	13	13	3	2	5	9	8	7	6	5	3	3	3	2	4	6	15	16	15	268
Dry Creek	39	36	39	36	36	41	41	41	35	38	39	36	37	38	40	30	41	46	38	38	38	38	38	29	29	29	31	32	33	33	37	1075
Ballantine	5	4	5	4	5	5	5	5	5	7	8	8	7	7	8	8	8	8	8	8	8	8	8	7	8	8	8	8	8	8	8	212
7 Eagle Isl. Canals	35	35	35	35	35	35	35	35	35	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	931
Middleton Waters	68	61	70	67	67	65	67	67	65	64	64	65	65	64	65	65	63	63	63	47	47	47	57	48	50	48	48	49	49	48	48	1625
Middleton Mill Ditch	52	40	44	49	53	51	51	51	41	37	32	41	48	56	60	64	51	41	54	44	44	44	35	29	29	33	34	35	40	40	40	1313
Phyllis	345	340	338	330	330	325	320	318	333	350	358	365	366	360	320	280	315	350	338	338	340	338	321	260	260	257	253	295	290	289	290	9914
Eureka No. 1	20	18	19	13	16	19	14	16	18	16	14	16	21	20	18	6	12	25	9	7	6	8	6	0	0	19	16	13	16	11	11	429
Pioneer	25	19	19	20	21	21	21	21	21	21	24	17	26	21	19	10	17	17	23	15	16	16	16	15	18	17	20	11	11	11	11	548
Canyon County	60	51	65	63	61	61	64	60	60	48	42	42	52	45	40	40	47	55	57	57	55	50	43	43	61	40	42	43	42	47	49	1561
Caldwell High Line	95	95	95	98	99	97	0	0	96	45	25	30	0	55	70	64	66	89	89	88	80	79	66	71	40	41	41	23	21	40	47	1840
Farmers Coop	292	252	290	285	234	278	286	290	224	232	229	218	244	240	218	170	177	226	194	196	193	206	186	188	182	182	166	155	158	132	147	6647
Canyon	8	1	17	19	4	8	16	9	0	0	0	0	29	1	0	4	7	16	23	23	22	29	21	9	20	10	7	18	20	16	18	384
Seibenbarg	16	20	21	11	12	13	20	22	16	16	12	10	25	8	8	2	2	10	16	16	15	14	10	7	10	10	6	11	17	13	15	404
Riverside No. 2	196	180	186	185	202	185	172	185	176	182	182	184	162	166	122	147	154	173	162	174	176	164	142	132	118	110	110	108	108	108	132	4950
Pioneer Dixie	15	15	12	11	12	13	12	12	18	14	8	8	11	13	14	14	15	16	18	18	19	22	21	21	19	17	18	18	18	18	19	474
Eureka No. 2	33	28	15	39	30	29	30	38	40	37	29	22	31	30	14	31	40	41	48	48	32	32	28	21	18	40	22	26	30	28	22	932
Upper Center Point	9	6	5	11	6	7	7	13	14	14	13	12	15	14	9	14	14	15	16	16	12	11	9	7	5	12	2	5	5	5	5	294
Lower Center Point	5	5	2	0	0	1	0	1	2	2	2	2	2	3	2	2	2	3	4	5	4	5	5	5	4	5	6	5	5	5	5	85
Boise River at Notus	340	210	170	130	100	130	100	70	70	55	55	55	60	130	55	30	30	55	30	134	134	130	100	70	50	54	44	40	32	32	28	3343
Miscellaneous	23	23	23	23	23	23	23	23	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	603
Total	4384	4117	4127	4026	3999	4032	3886	3996	3924	3833	3707	3422	2508	2447	2727	2767	2991	3173	3160	3278	3267	3283	3104	2980	2963	2896	2822	2832	2817	2758	2718	103149

AUG. 1915

CHART 5 E.
SHEET 6.

SEPTEMBER

No.	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
1	U.S.R.S.	1159	1111	1111	1150	1154	1138	1146	1200	1216	1196	1113	1013	1092	1096	1096	1076	1039	1023	1022	964	702	705	705	705	703	654	651	647	631	627	28745
2	N.York Stock.	131	131	131	81	81	81	81	81	81	81	81	131	131	131	131	81	81	81	0	0	0	0	0	0	81	81	81	81	81	81	2294
3	Penitentiary	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	120
4	Aldenbaugh	320	321	320	323	321	321	318	318	313	318	320	320	321	316	316	313	313	313	304	308	308	308	308	305	306	304	300	291	275	280	9321
5	Bubb	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	6	6	6	6	7	7	7	7	7	8	8	8	8	223
6	Cruzen.	70	73	70	69	72	70	69	70	73	73	72	69	69	76	63	63	66	67	76	69	74	87	74	74	73	71	69	69	68	68	2124
7	Boise City No. 1.	4	5	5	5	5	3	3	3	3	3	3	3	3	3	3	2	2	2	3	3	3	3	3	4	5	4	3	3	3	3	100
8	Settlers	103	103	103	103	102	102	102	104	101	102	103	102	102	102	104	102	102	102	103	103	103	94	94	94	96	93	92	93	93	92	2992
9	Thurman Mill.	31	34	29	23	29	33	32	32	31	30	28	30	31	32	31	28	27	26	25	26	27	24	26	27	28	28	27	26	25	25	853
10	Farmers Union Ex.	116	116	116	116	116	116	115	115	114	114	113	113	113	113	113	113	105	101	103	103	103	105	102	102	103	104	105	103	104	104	3281
11	Little Union.	21	21	20	18	22	18	18	18	16	15	15	15	15	16	14	9	8	7	7	8	10	9	10	10	10	7	9	8	10	10	389
12	Dry Creek.	42	42	42	42	42	42	42	42	42	30	27	23	23	23	24	23	26	28	28	27	27	28	27	30	27	24	24	24	26	26	931
13	Ballantine	9	8	8	7	8	10	10	6	5	5	5	6	6	6	7	7	5	8	8	8	8	7	6	6	6	6	6	6	6	6	208
14	7 Eagle Isl. Canals.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	840
15	Middleton Water Co.	45	46	46	44	47	45	45	45	45	45	44	44	44	44	44	40	38	36	34	43	39	37	38	41	44	40	40	42	42	42	1275
16	Middleton Mill Ditch.	40	40	36	33	40	38	36	36	36	36	36	36	36	5	43	35	31	28	24	38	33	30	33	38	43	35	38	38	38	38	1047
17	Phyllis	320	306	338	276	330	330	331	315	321	303	309	303	309	301	305	292	292	0	269	265	275	295	293	295	283	290	230	218	0	268	7990
18	Eureka No. 1	11	16	14	13	15	13	13	16	11	12	12	26	32	32	24	13	11	9	7	15	16	32	34	27	26	24	14	8	7	7	550
19	Pioneer	26	26	26	26	16	15	15	15	15	15	15	8	10	11	10	11	11	12	12	12	15	17	17	17	17	17	10	10	10	10	446
20	Canyon County.	48	47	50	50	50	43	47	42	39	39	39	40	37	41	41	37	44	42	35	37	36	36	37	40	39	38	37	50	46	46	1270
21	Caldwell High Line	30	43	68	41	40	43	42	39	42	42	44	44	44	43	43	38	30	36	30	34	30	34	34	25	25	27	34	29	45	45	1145
22	Farmers Co-op.	166	166	161	161	161	200	229	190	220	200	198	176	181	155	198	190	214	202	188	174	186	194	200	203	200	210	212	226	182	187	5836
23	Conway	19	16	12	16	16	15	15	14	18	12	13	15	16	15	15	2	5	3	1	10	4	6	4	3	3	6	6	6	5	8	304
24	Seidenberg.	13	16	12	13	15	14	16	9	11	12	12	9	10	11	10	11	13	11	8	5	6	6	6	7	7	7	8	9	5	8	307
25	Riverside No. 2.	131	132	132	134	136	138	136	140	140	141	140	136	136	140	140	140	130	120	124	132	120	126	120	118	122	128	129	126	98	122	3910
26	Power Line.	21	21	21	21	21	21	18	16	16	21	22	22	23	21	23	23	23	23	22	12	12	12	12	12	12	12	12	14	12	12	530
27	Eureka No. 2.	29	28	29	28	26	26	29	26	32	34	34	38	38	37	37	37	36	34	29	29	29	29	22	22	23	26	27	20	27	22	852
28	Upper Center Point	5	5	5	6	8	9	9	9	10	10	8	9	9	10	10	10	10	10	10	7	7	7	7	7	7	10	10	10	11	9	263
29	Lower Center Point	5	5	5	5	5	5	6	6	7	6	8	8	8	8	8	8	9	7	7	7	5	5	4	4	4	5	6	7	7	7	186
30	Boise River at Weirs	28	29	32	36	37	40	41	43	43	60	67	108	138	145	162	165	172	388	170	142	130	127	135	145	125	170	180	220	330	305	4465
31	Miscellaneous.	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	540
	Total.	2904	2892	3026	2916	2997	2989	3045	3008	3071	3024	2939	2934	3049	3053	3072	2926	3214	2795	2702	2639	2361	2363	2337	2339	2434	2428	2401	2521	2452	2456	83328

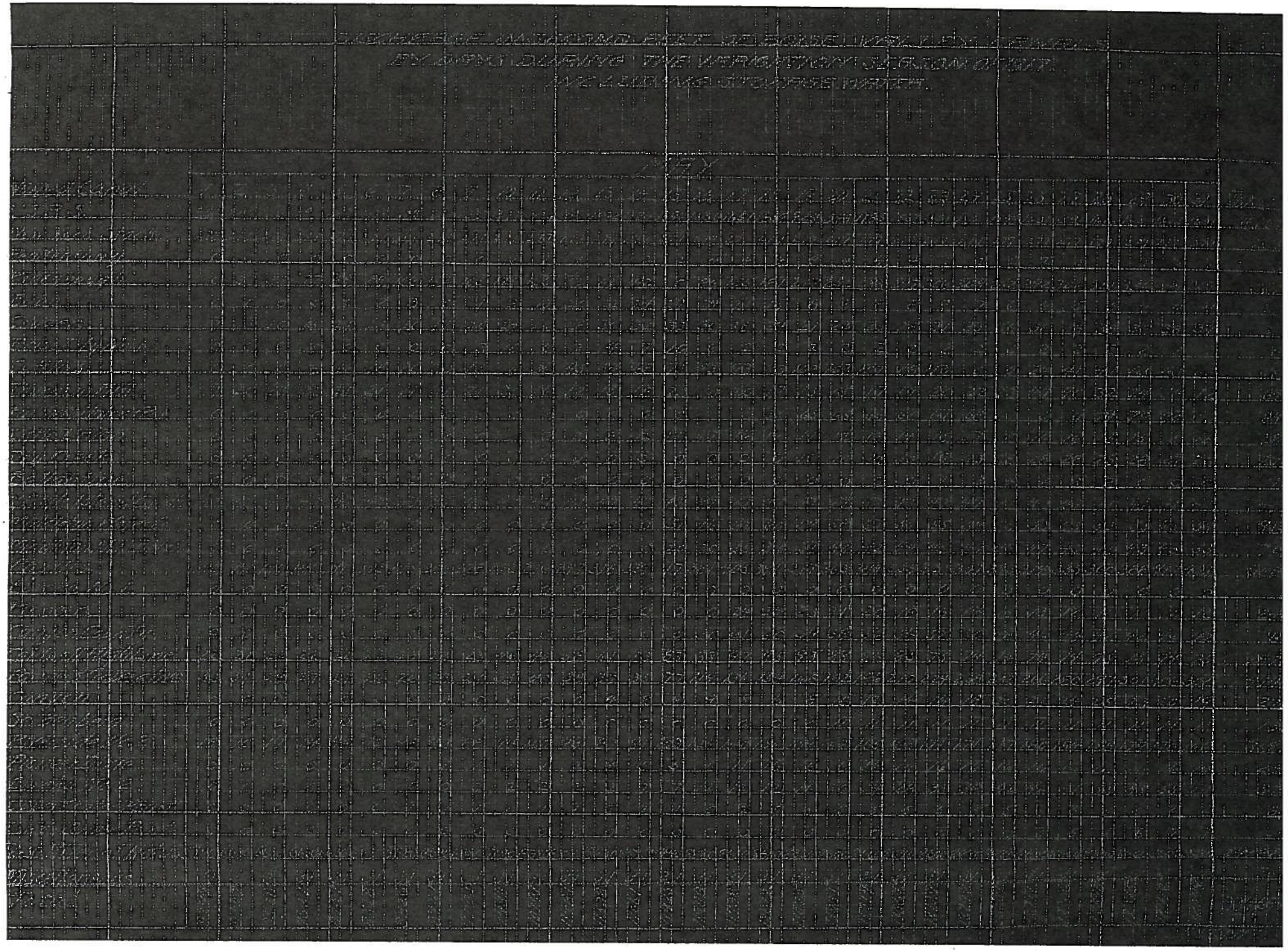
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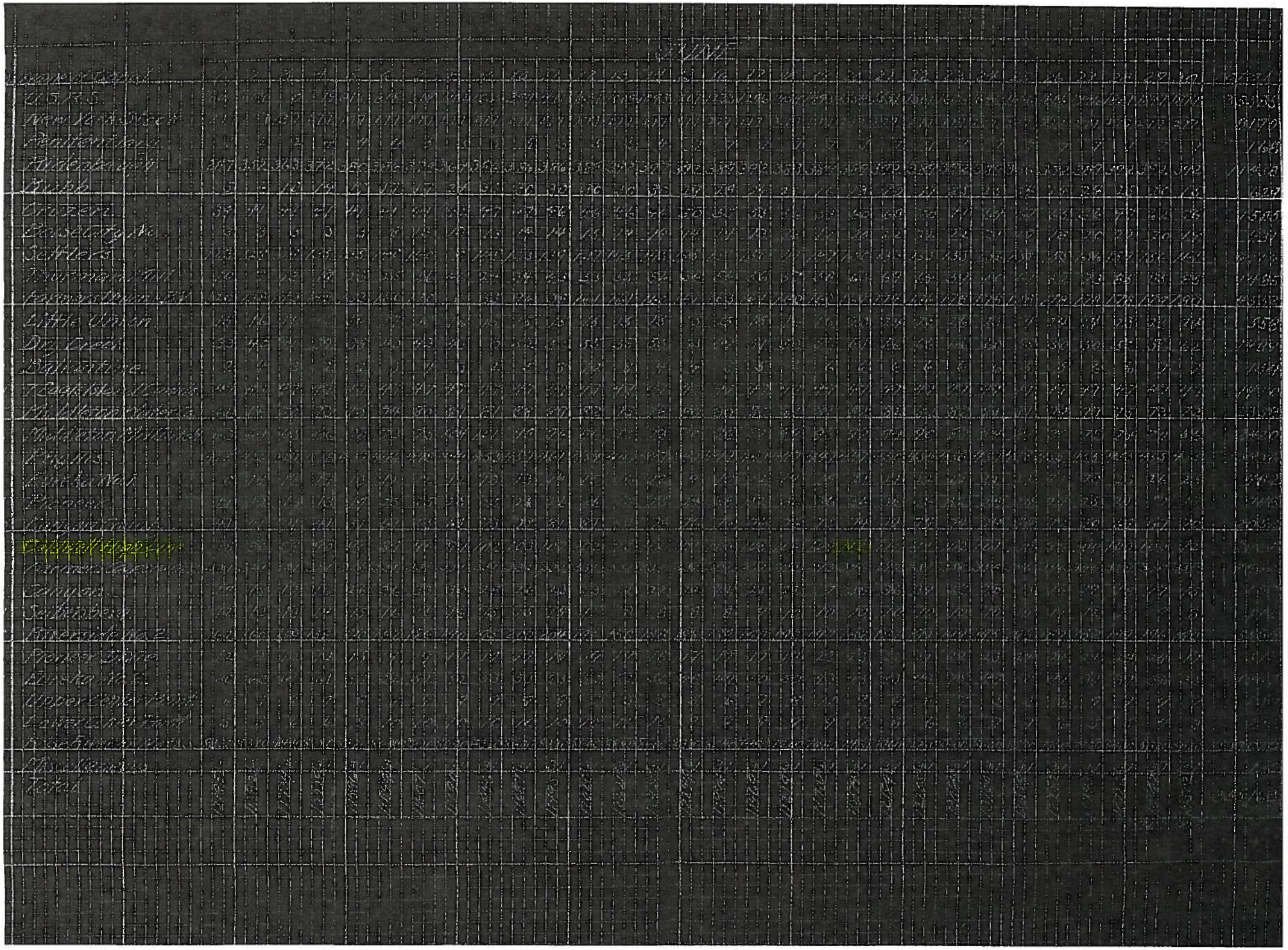
CHART S
SHEET

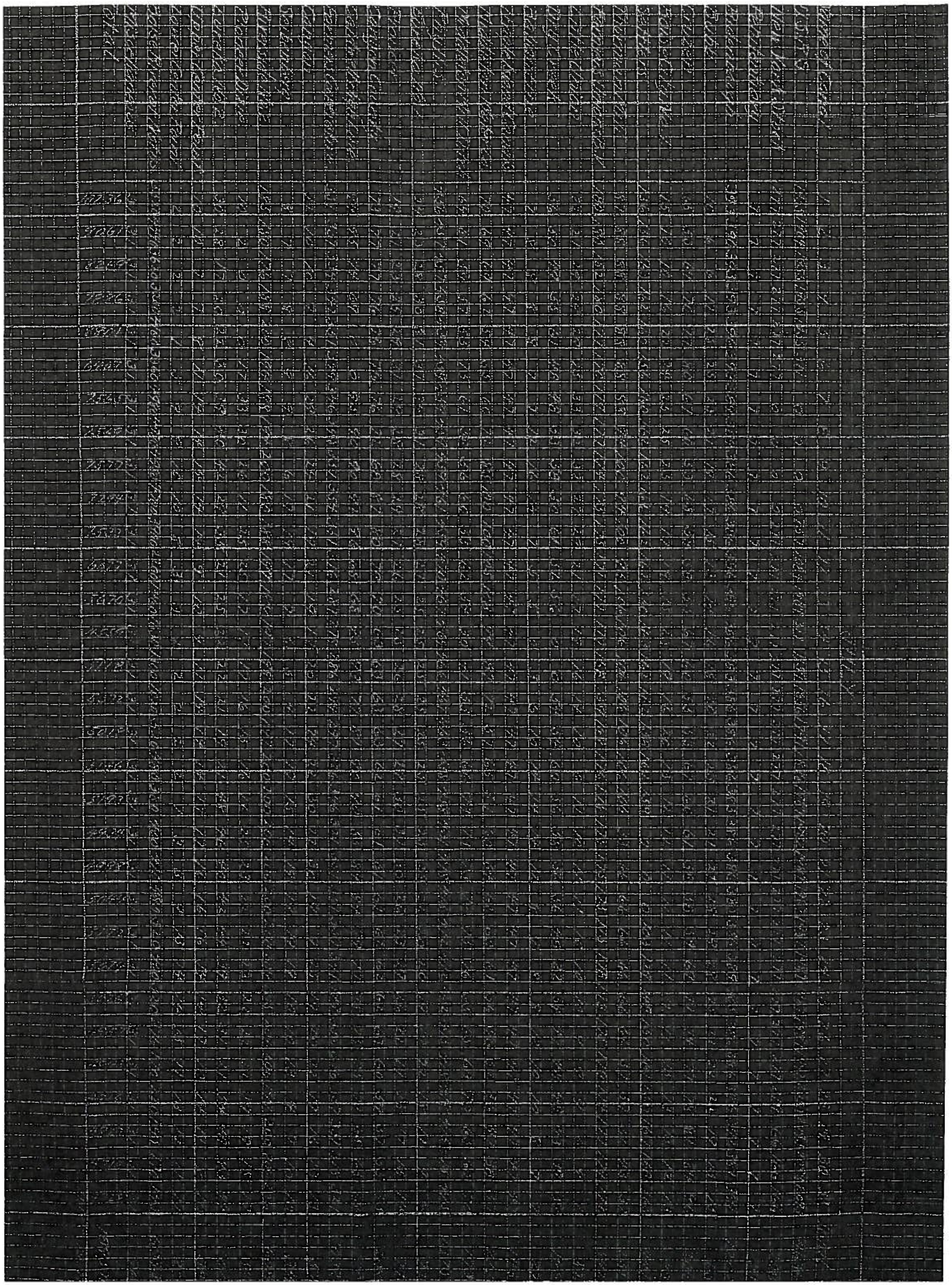
		OCTOBER															
No.	Name of Canal	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
1	U.S.R.S.	533	488	473	508	476	401	387	382	386	381	347	306	263	238	185	5877
2	N York Stock.	166	166	166	166	166	166	166	166	166	166	166	166	166	166	66	2324
3	Penitentiary.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	60
4	Ridenbaugh.	258	235	215	271	207	199	178	169	131	115	61	61	78	63	92	2281
5	Bubb.	8	7	7	7	7	7	7	6	6	6	6	6	6	6	6	98
6	Cruzen.	65	69	70	71	71	70	70	69	69	68	68	65	67	67	67	1032
7	Boise City No. 1.	3	3	1	2	2	2	2	2	2	1	1	1	0	0	0	22
8	Settlers.	83	74	63	56	97	0	0	0	0	0	0	0	0	0	0	326
9	Thorman Mill.	24	22	21	20	19	19	18	18	17	17	16	16	15	15	14	272
10	Farmers Union D.V.	101	99	92	97	97	61	26	26	26	26	26	26	26	26	26	797
11	Little Union.	10	8	11	12	11	10	9	8	7	6	6	4	3	3	3	115
12	Dry Creek.	25	24	23	22	20	20	18	18	16	16	16	15	14	14	14	275
13	Ballentine.	6	6	6	6	6	6	6	6	5	5	5	5	5	4	4	81
14	7 Eagle Isl. Canals.	28	28	28	28	28	28	28	28	25	25	28	28	28	25	25	930
15	Middleton Water Co.	42	42	42	40	38	35	32	28	25	22	19	15	12	12	12	418
16	Middleton Mill Ditch.	39	40	42	43	45	44	46	48	50	52	54	54	54	54	54	714
17	Phyllis.	207	207	207	177	170	153	142	100	73	62	25	73	73	73	73	1865
18	Eureka No. 1.	7	7	7	7	7	7	6	5	6	7	5	3	3	3	3	83
19	Pioneer.	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	165
20	Canyon County.	46	46	47	47	47	47	48	42	60	52	54	53	55	55	56	734
21	Caldwell High Line.	35	30	27	25	23	23	23	23	23	23	23	23	23	23	23	370
22	Farmers Co-op.	174	161	149	134	138	140	141	134	127	120	113	106	99	92	92	1969
23	Canyon.	8	8	8	9	9	8	8	7	6	4	3	1	1	1	0	81
24	Seibenberg.	6	5	4	4	4	4	4	4	4	4	4	4	4	4	4	63
25	Riverside No. 2.	120	118	115	109	102	82	62	42	20	0	0	0	0	0	0	770
26	Pioneer Dixie.	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	195
27	Eureka No. 2.	24	26	28	30	31	30	28	29	27	26	28	23	22	21	21	390
28	Upper Center Point.	8	7	6	5	5	6	5	6	7	6	6	6	6	6	6	90
29	Lower Center Point.	6	5	4	4	3	3	3	4	4	3	3	2	4	4	4	58
30	Boise River at Notus.	195	130	80	55	640	690	750	880	1080	1080	1230	1230	1230	1080	1080	11430
31	Miscellaneous.	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	270
	Total.	2275	2079	1997	1963	2485	2315	2261	2304	2407	2342	2404	2340	2303	2105	1844	33450

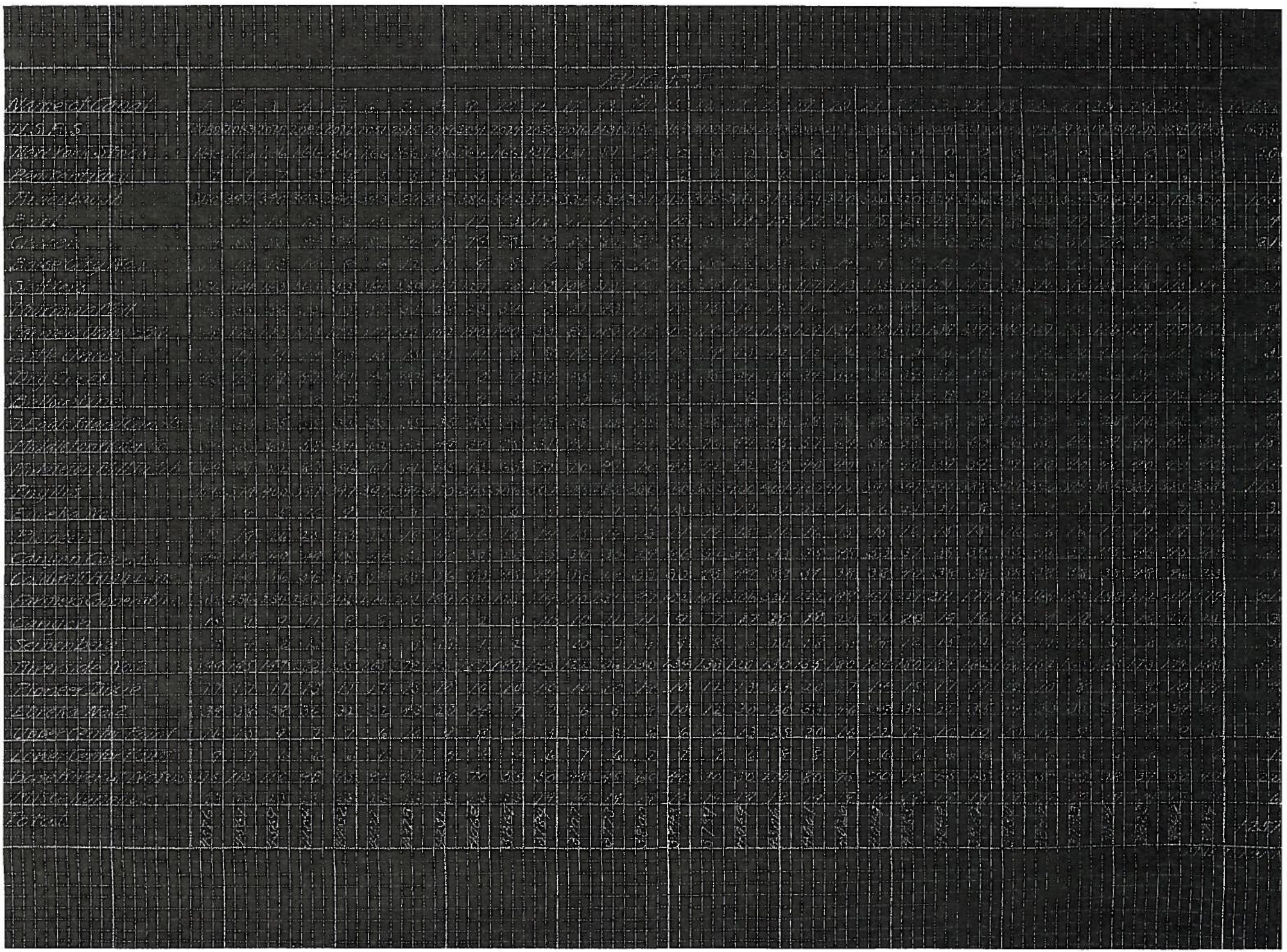
A.V.T. 1916

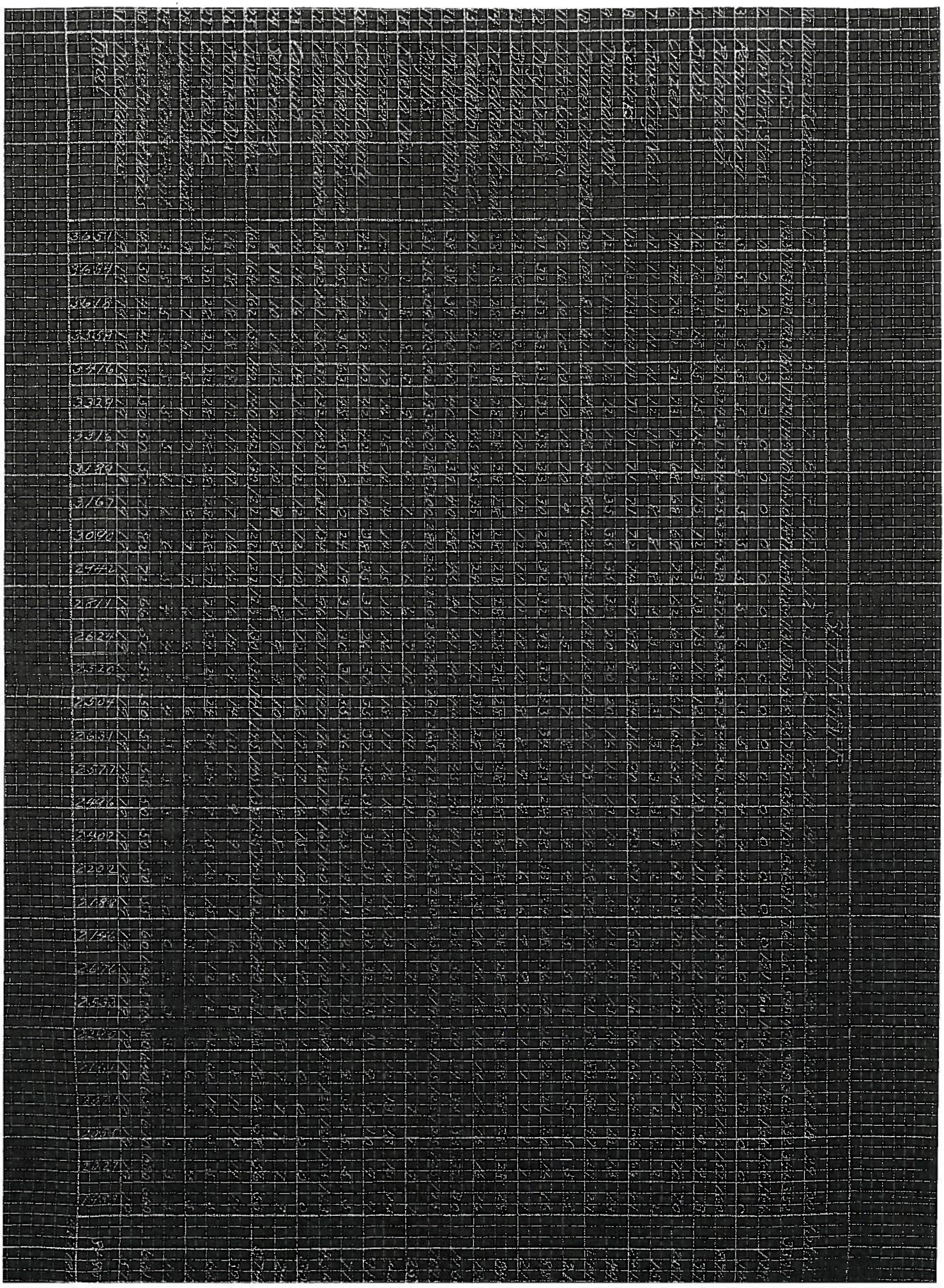
1917

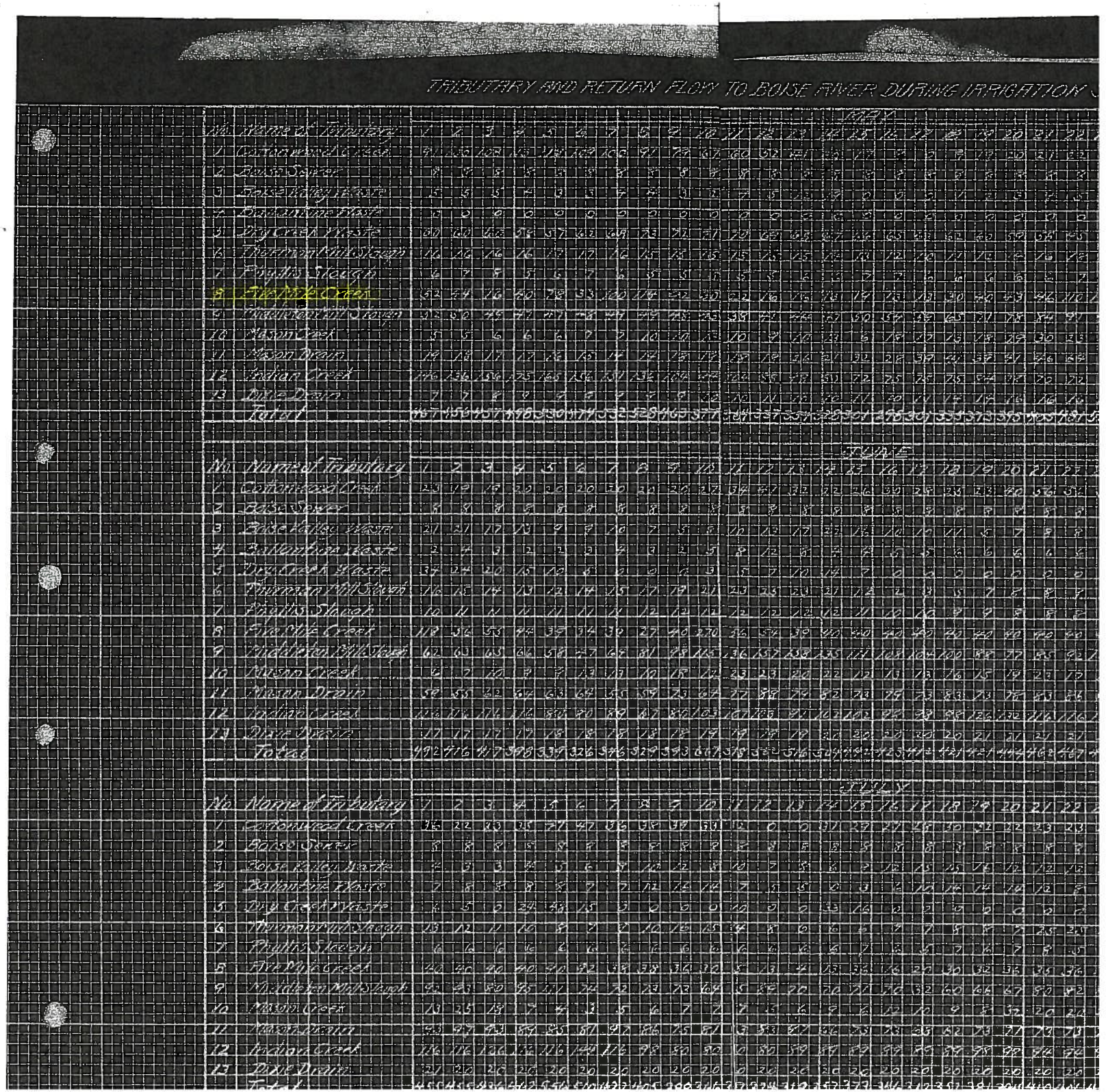


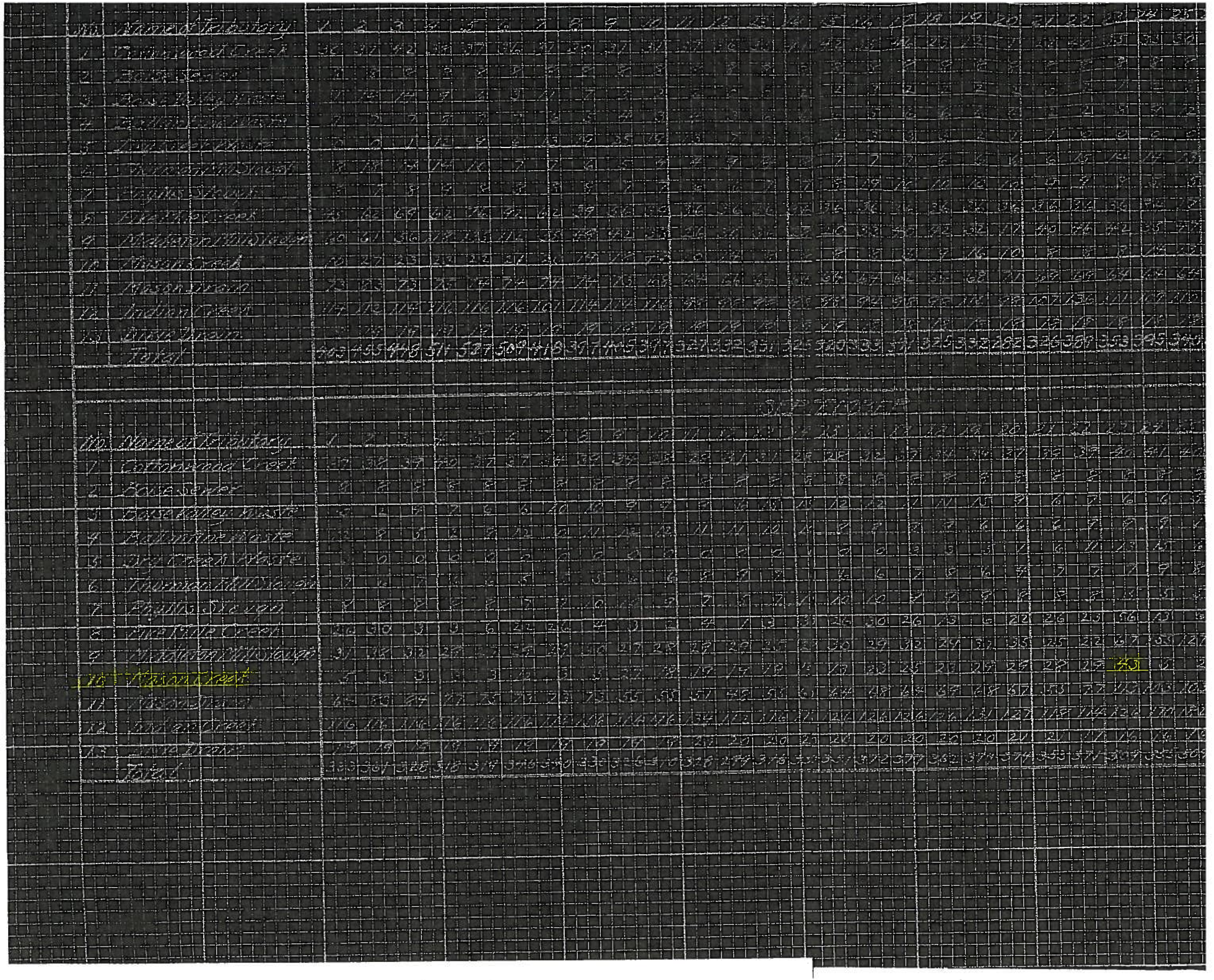









TRIBUTARY AND RETURN FLOW TO BOISE RIVER DURING IRRIGATION



1918

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS BY DAYS DURING THE IRRIGATION SEASON OF 1918. INCLUDING STORAGE WATER.

No	Name of Canal	APRIL 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
1	U.S.R.S.	1269	1278	1274	1274	1265	1274	1274	1278	1075	1033	551	551	551	555	555	555	554	448	357	421	409	431	531	649	772	978	1123	1256	1337	1459	26333
2	New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
3	Ridenbaugh	58	58	60	62	62	63	63	63	63	80	98	108	112	116	120	124	128	132	141	150	159	168	177	200	221	238	256	269	282	296	4127
4	Penitentiary	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
5	Bubb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	15	15	15	15	16	16	15	15	144
6	Cruzen	10	10	18	26	25	24	25	26	26	52	74	79	78	78	79	79	78	78	76	75	75	76	76	76	75	76	77	78	79	79	1788
7	Boise City No. 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	3	5	7	42
8	Settlers	0	0	0	0	0	0	0	0	0	10	10	14	14	14	25	35	32	32	17	32	41	50	73	78	88	93	68	98	98	103	1015
9	Thurman Mill	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	15	22	22	23	24	26	27		306
10	Farmers Union Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	73	73	87	87	102	130	130	130	147	197	202	1403
11	Little Union	2	2	5	8	8	7	5	3	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	10	22	35	112
12	Dry Creek	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	12	25	37
13	Ballantine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	2	2	19
14	Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1410
15	Middleton Water Co.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	8	73	138	137	136	134	157	854
16	Middleton Mill Ditch	6	6	6	6	6	6	6	6	7	8	8	8	7	7	7	7	7	7	7	7	8	8	9	10	5	0	0	0	0	0	175
17	Phyllis	155	155	155	161	167	167	167	167	167	167	168	169	172	174	176	178	180	180	180	213	247	229	335	292	306	335	0	320	340	340	6162
18	Eureka No. 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	10	10	20
19	Pioneer	6	6	6	6	6	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	14	12	10	8	11	101
20	Canyon County	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	6	9	12	15	15	15	16	16	16	16	15	14	188
21	Caldwell High Line	0	0	0	0	10	17	26	35	45	45	45	45	53	53	66	66	61	56	56	56	56	56	61	81	78	0	82	82	82	81	1398
22	Farmers Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	44	44	207	210	213	216	272	1241
23	Canyon	1	1	1	1	1	1	1	1	1	2	2	2	3	3	3	4	4	4	4	4	3	3	3	4	5	5	5	5	5	5	81
24	Seibenberg	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	10	0	0	0	0	1	1	1	1	1	1	5	10	15	16	68
25	Riverside No. 2	149	128	107	111	115	106	97	88	104	120	108	94	80	66	52	38	24	23	21	45	69	93	94	85	81	67	97	126	153	152	2705
26	Pioneer Dixie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	12	13	13	12	12	13	13	12	118
27	Eureka No. 2	1	1	1	1	1	1	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	7	55
28	Upper Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	11	14	18	22	21	106
29	Lower Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
30	Boise River at Notus	1300	1165	1030	910	1300	1630	1633	2430	2662	3880	5820	6100	5540	5540	5520	5820	5260	4980	4700	4150	4150	3880	4150	4990	5260	4980	4980	4720	4740	4740	117865
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	930
	Total	3325	3178	3081	2934	3034	3670	3665	4465	4574	5765	7257	7388	6981	6976	7278	7271	6704	6316	5781	5605	5679	5479	6045	7048	7582	7699	7624	7908	8149	8115	177,119

MAY

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
U.S.R.S.	1651	1611	1656	1721	1776	1821	1873	1935	1971	2003	2034	2044	2060	2075	2075	2091	2081	2055	2065	2075	2101	2112	2117	2127	2091	2076	2075	1075	2101	2117	2133	61698
New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8587
Penitentiary	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
Rudenbaugh	310	331	353	385	386	386	386	385	385	385	385	382	382	386	394	397	397	397	397	397	394	394	394	394	394	371	394	226	296	277	282	11377
Bubb	14	14	14	14	15	16	17	16	16	15	14	16	18	21	19	17	18	19	18	11	16	18	18	18	18	18	18	18	18	17	17	511
Gruzen	81	84	84	85	84	82	81	81	81	82	83	81	89	77	77	77	70	64	68	73	79	83	87	83	80	80	81	81	25	65	75	2455
Boise City No. 1	7	7	7	8	9	10	11	9	7	6	5	5	6	6	6	5	7	8	9	9	9	9	10	10	9	9	10	10	11	12	10	246
Settlers	108	113	115	103	115	118	123	128	128	135	135	135	135	135	140	143	145	143	143	147	147	147	147	147	149	149	152	125	125	125	125	4139
Thurman Mill	37	42	36	47	45	42	39	31	24	24	24	24	24	24	23	23	25	28	27	24	25	31	36	34	32	32	31	31	28	25	22	924
Farmers Union - S.V.	202	202	202	205	205	182	182	187	187	159	159	187	187	197	205	205	205	187	182	182	187	187	197	197	192	205	187	152	177	177	182	5827
Little Union	34	33	22	11	11	11	1	1	1	1	1	1	8	13	11	9	6	2	6	10	12	12	12	12	21	11	12	12	8	5	5	305
Dry Creek	25	0	24	48	52	56	19	38	56	52	49	49	50	50	44	46	43	40	35	31	28	31	34	44	54	50	76	92	44	46	46	1277
Ballantine	6	8	7	6	6	7	2	5	5	5	4	5	4	5	6	7	5	2	2	3	3	4	6	7	5	6	4	3	3	3	3	153
Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
Middleton Water Co.	150	164	145	134	120	107	109	110	108	106	104	101	97	99	106	92	81	82	83	84	97	110	107	104	90	76	62	49	35	36	35	3009
Middleton Mill Ditch	0	85	90	89	88	88	87	86	86	86	87	88	88	90	93	85	77	55	34	13	13	12	55	97	85	93	90	65	38	38	37	2089
Phyllis	352	389	405	401	426	429	435	427	428	430	431	430	519	447	448	450	451	452	453	431	454	434	462	462	469	466	0	0	448	443	453	12756
Eureka No. 1	18	18	18	17	16	16	17	19	20	20	20	22	22	22	22	22	22	23	23	24	24	24	23	23	23	23	0	0	26	23	21	607
Pioneer	24	24	25	25	25	25	27	28	27	26	25	24	23	23	23	21	20	23	26	30	29	27	24	20	21	23	25	25	25	27	29	765
Canyon County	51	51	51	59	66	74	75	76	75	74	72	70	69	69	69	67	65	60	56	51	50	48	51	55	61	67	75	75	74	73	72	2001
Caldwell High Line	81	86	92	92	91	91	91	91	91	84	84	79	79	75	79	84	88	79	36	36	34	31	31	23	31	34	31	37	47	47	47	2006
Farmers Cooperative	302	344	350	360	353	346	362	362	358	358	356	364	362	367	356	364	368	372	368	368	355	356	371	360	366	372	384	362	362	314	314	11173
Canyon	14	14	14	15	16	17	11	6	8	10	12	16	20	20	21	19	17	16	14	13	18	23	20	14	16	18	22	21	22	22	21	500
Seibenberg	16	17	18	18	18	18	18	18	15	15	13	12	11	11	11	9	7	5	3	2	2	2	21	14	14	13	12	12	11	11	11	377
Riverside No. 2	199	195	192	191	190	189	192	195	196	198	200	202	204	202	200	199	197	198	206	203	199	195	190	186	190	194	198	203	208	198	188	6091
Pioneer Dixie	9	9	9	10	14	15	15	15	16	16	16	17	17	17	18	13	5	6	4	2	0	0	0	0	0	8	16	17	17	154	15	342
Eureka No. 2	17	18	20	20	20	20	20	20	24	26	28	30	32	32	33	31	30	26	22	18	21	25	29	33	37	41	45	49	52	50	47	965
Upper Center Point	18	13	7	7	8	9	8	7	7	7	8	8	9	9	9	9	8	8	8	8	9	9	10	11	11	11	10	10	16	10	10	286
Lower Center Point	16	17	18	18	17	17	17	16	16	16	16	16	16	16	16	15	13	10	7	3	2	1	1	0	0	0	3	5	7	7	7	329
Boise River at Natus	4420	4420	4150	3380	3630	3880	4700	5554	6160	4980	4700	4700	4420	4420	3880	3380	2390	1630	2060	1920	790	768	690	845	897	1025	1150	1465	1845	1765	1500	70705
Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
Total	8452	8634	8687	7941	8161	8440	9280	10192	10796	9618	9425	9468	9311	9268	8741	8242	7703	6350	7308	5911	5458	5273	5444	5321	5424	5501	5547	6391	6069	5926	5934	234112

No.	Name of Canal	JUNE																													
		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
1	U.S.R.S.	2127	2122	2127	2122	2127	2127	2122	2117	2122	2138	2138	2138	2138	2148	2138	2138	2143	2143	2148	2143	2163	2158	1967	1857	2148	2153	2198	2163	2083	2152	5146
2	New York Stock	277	277	277	277	277	277	277	277	277	272	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8312
3	Penitentiary	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	150
4	Bidenbaugh	296	296	313	352	385	391	394	394	399	397	397	397	397	397	397	397	400	397	397	397	397	397	398	397	397	397	397	397	397	397	11920
5	Bubb	18	20	23	27	30	33	32	32	34	36	37	37	37	37	37	37	35	33	30	29	28	25	25	26	24	22	19	21	23	24	25	822
6	Crozier	81	81	81	81	83	84	84	79	81	81	87	86	85	86	86	85	86	85	84	83	82	80	81	83	84	86	87	88	51	84	2600
7	Boise City No. 1	8	10	12	15	18	22	20	19	17	15	13	13	13	11	9	8	8	7	8	9	9	9	9	9	8	8	9	9	7	8	300
8	Settlers	131	131	142	152	152	152	154	159	159	159	159	156	158	157	156	156	153	153	152	151	151	150	149	149	149	149	149	149	149	148	4740
9	Thurman Mill	19	21	24	26	27	29	29	29	49	69	90	86	83	83	54	19	24	9	23	34	32	33	36	39	41	41	40	41	42	39	1262
10	Farmers Union-BK	182	182	192	207	213	213	213	213	213	41	152	213	203	203	203	208	203	203	203	203	203	203	203	203	203	203	203	203	191	191	6071
11	Little Union	5	7	9	12	12	14	15	17	17	16	16	10	3	2	2	2	2	2	2	4	6	8	10	10	9	9	12	16	17	12	337
12	Dry Creek	46	42	39	50	51	52	52	56	53	49	47	53	58	55	53	49	46	42	44	46	44	42	43	44	45	46	48	50	51	52	1450
13	Ballantine	4	4	4	4	4	4	4	5	7	9	11	11	13	11	10	9	8	8	12	17	18	20	18	16	14	16	17	17	17	17	400
14	Eagle Island Canal	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	21	47	47	47	47	47	1316
15	Middleton Water Co	46	58	80	103	91	103	114	117	120	124	126	128	126	129	124	120	118	115	112	109	104	109	111	112	51	21	52	48	32	30	3000
16	Middleton Mill Ditch	32	37	37	38	37	37	50	70	90	110	52	54	54	53	52	52	52	52	52	52	50	55	46	46	47	28	15	18	18	18	1400
17	Phyllis	443	443	443	442	447	462	463	467	466	465	0	456	449	449	441	0	441	406	399	400	387	382	379	377	381	0	0	0	0	0	12,000
18	Eureka No. 1	29	29	23	24	29	29	24	21	23	23	0	35	35	35	34	34	24	27	21	24	20	20	20	20	12	5	5	5	5	5	600
19	Pioneer	25	20	18	29	24	29	44	35	32	38	43	49	41	33	27	21	15	12	9	20	12	18	20	21	18	12	10	0	0	0	1000
20	Canyon County	72	73	73	74	76	84	93	86	79	73	69	65	61	61	59	55	54	52	54	52	50	50	49	49	49	48	48	48	48	48	1800
21	Caldwell High Line	47	42	58	66	51	80	82	84	90	90	90	89	66	50	49	39	49	46	45	43	41	40	44	43	44	50	53	51	52	52	1800
22	Farmers Cooperative	368	381	116	116	116	112	102	118	336	356	372	374	380	380	382	379	372	374	368	372	380	375	377	379	368	368	368	368	368	368	10,000
23	Canyon	12	14	11	10	9	11	13	15	17	19	15	12	10	8	7	5	4	10	12	15	14	13	16	14	12	13	14	13	14	13	400
24	Seibenberg	11	13	14	12	10	9	6	6	6	7	8	9	9	6	5	7	9	9	9	9	8	8	8	8	7	7	8	8	8	8	250
25	Riverside No. 2	186	184	181	187	192	195	199	199	199	199	207	209	207	205	203	201	199	203	207	213	220	221	221	220	216	220	219	220	220	220	6600
26	Pioneer Dixie	16	18	19	19	19	18	18	18	19	20	15	10	10	10	11	11	11	8	6	6	6	8	10	11	8	8	8	8	8	8	300
27	Eureka No. 2	48	60	52	54	56	61	66	50	34	15	44	70	68	66	64	58	56	52	45	40	36	34	34	33	32	20	10	7	2	1	1400
28	Upper Center Point	8	5	3	8	13	12	10	9	7	6	12	17	14	12	10	8	6	5	4	9	12	10	8	10	5	2	1	1	0	0	300
29	Lower Center Point	7	6	5	7	9	12	16	14	12	11	13	15	13	11	9	7	5	3	2	2	2	2	2	2	2	1	0	0	0	0	200
30	Boise River at Notus	1165	1200	1465	1630	2215	3630	5260	5540	4630	3800	5060	8070	8060	8060	8060	8060	7820	5540	4980	4700	3880	3630	3200	3000	3000	3080	3130	1630	1465	1400	121,000
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31				31		31	31											1000
	Total	5196	5433	5724	6274	6883	8357	10226	10332	11419	12049	12744	13208	13152	13392	13045	12452	10357	9774	9576	9455	8755	8665	8532	7998	8192	8178	8198	7663	7332	7298	240,250

Name of Canal	JULY																																	Total
	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			
U.S.R.S.	2122	2039	1992	1982	1811	1826	1791	1741	1716	1741	1651	1606	1706	1664	1546	1450	1674	1625	1719	1812	1857	1857	1867	1862	1817	1767	1817	1682	1520	1439	1571			54372
New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	219	219	164	164	164	164	131	131	131	131	131	131	131	131	131	131	131	131			6267
Penitentiary	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
Ridenbaugh	393	397	397	397	400	397	397	400	400	402	400	400	400	397	400	398	400	400	400	402	403	400	400	393	340	339	352	328	328	328	326			11922
Bubb	16	16	16	16	16	16	15	14	14	14	14	13	12	11	10	12	10	9	9	8	8	8	8	8	10	10	9	9	9	9	9			368
Craven	86	87	87	87	87	87	85	82	80	80	81	84	87	87	87	79	78	94	87	86	87	88	85	82	88	88	87	88	84	85	86			2676
Boise City No. 1	10	14	14	14	12	13	13	13	13	12	11	11	11	11	11	13	11	10	12	10	10	10	8	9	9	10	10	10	10	10	9			3444
Settlers	149	155	155	160	160	0	0	100	105	144	144	149	0	0	100	139	149	144	149	144	131	131	131	124	113	114	114	106	106	106	106			3528
Thurman Mill	47	47	53	59	65	72	66	60	54	35	18	25	36	36	36	39	36	34	34	30	30	30	29	29	28	28	28	28	28	24	24			1157
Farmers Union + B.V.	199	198	197	196	195	179	178	176	175	174	173	172	173	173	172	171	170	154	154	138	138	137	136	120	120	119	110	110	110	119	119			4845
Little Union	10	10	10	11	11	12	12	12	12	12	12	12	12	11	9	12	5	5	5	4	7	11	11	11	14	12	11	11	11	14	14			324
Dry Creek	33	30	33	36	39	43	44	44	45	42	38	42	46	41	36	42	24	9	24	19	32	36	36	9	45	43	41	41	40	42	45			1132
Ballantine	13	12	10	9	6	3	6	9	13	11	8	8	7	6	5	8	5	6	7	8	6	5	3	3	9	8	8	9	8	8	10			237
Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47			1457
Middleton Water Co	80	85	90	92	95	86	78	97	100	103	91	80	102	124	116	154	58	57	86	76	56	78	70	62	65	81	81	70	56	69	66			2604
Middleton Mill Ditch	84	84	84	84	84	74	64	64	64	67	67	66	61	56	54	63	52	48	38	35	41	54	49	47	47	49	48	47	45	46	36			1799
Phyllis	427	427	427	424	420	422	394	364	411	450	0	409	434	457	434	441	429	411	393	361	315	334	310	283	281	287	287	275	271	269	265			11111
Eureka No. 1	14	14	14	19	24	24	23	23	23	0	0	29	25	21	17	19	18	18	18	17	17	17	16	15	17	16	17	17	17	17	19			556
Pioneer	13	18	23	24	25	26	28	29	27	25	18	11	12	12	14	13	13	14	14	15	16	17	17	18	19	19	16	13	14	16	17			500
Canyon County	49	61	23	23	23	25	78	81	81	81	79	77	76	75	73	87	78	68	67	67	63	2	33	36	44	40	37	39	29	41	65			1900
Caldwell High Line	21	21	20	15	48	61	72	80	84	66	72	77	60	33	18	42	42	41	31	31	40	44	44	50	57	56	62	39	32	35	40			1479
Farmers Cooperative	322	348	352	350	350	348	316	228	368	364	364	345	357	368	328	364	353	267	232	195	180	166	155	140	184	233	240	244	228	256	256			8923
Canyon	19	21	23	21	19	20	21	22	21	20	18	16	17	18	19	14	10	13	15	12	11	13	12	14	14	15	16	15	13	15	14			511
Seibenberg	1	8	14	16	18	17	15	14	13	11	9	8	8	9	9	15	6	6	3	9	3	9	7	2	14	12	9	8	7	6	15			310
Riverside No. 2	210	203	196	194	192	194	196	194	193	187	181	176	173	171	169	174	172	164	157	75	21	168	173	163	168	172	162	161	160	157	154			5278
Pioneer Dixie	0	8	16	18	20	20	20	19	19	18	18	17	20	23	26	27	19	19	19	18	18	20	17	14	11	15	13	15	17	12	11			533
Eureka No. 2	1	1	2	3	4	14	25	36	34	31	28	27	34	42	50	48	46	31	22	18	14	30	44	39	33	26	30	29	28	26	26			842
Upper Center Point	3	3	3	3	2	6	10	13	12	10	8	7	11	14	17	16	15	10	7	7	6	6	12	17	15	10	15	16	17	17	17			325
Lower Center Point	7	7	7	7	7	7	3	0	2	2	4	4	7	11	14	13	11	7	6	8	9	7	11	14	13	13	13	13	12	13	13			265
Boise River at Notus	495	420	360	250	200	119	110	87	294	312	724	155	240	200	140	195	195	155	110	77	60	55	34	32	28	26	30	36	35	32	33			5250
Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31			961
Total	5186	5044	5028	4926	4743	4521	4420	4467	4733	4774	4591	4385	4489	4373	4287	4295	4026	4063	4065	3914	3843	3967	3932	3809	3821	3838	3877	3678	3454	3528	3579			131970

Name of Canal	AUGUST 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
U.S.B.S.	1481	1589	1470	1470	1410	1437	1421	1458	1405	1418	1553	1533	1573	1596	1624	1610	1614	1605	1583	1558	1436	1427	1174	1411	1274	1289	1270	1289	1414	1421	1502	45960
New York Stock	131	81	131	131	131	131	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	817
Penitentiary	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
Fidenbaugh	324	342	325	325	301	331	3[illegible]	8	331	331	331	325	301	328	331	[illegible]	[illegible]	331	[illegible]	[illegible]	[illegible]	331	331	334	331	331	328	328	331	331	331	10213
Bub	8	8	7	7	7	7	[illegible]	7	7	7	7	10	10	9	9	10	10	9	9	9	5	7	6	6	7	7	7	8	7	6	6	239
Cozen	81	77	82	86	89	89	79	82	87	83	83	83	76	83	83	88	84	84	86	[illegible]	80	84	87	86	84	82	79	77	75	81	77	2570
Boise City No. 1	13	12	13	12	11	13	9	9	9	11	10	10	5	5	11	13	13	13	12	14	11	11	9	9	8	10	12	10	12	13	12	333
Settlers	105	104	103	102	101	101	101	102	103	103	102	102	101	101	100	100	99	99	99	98	98	98	97	97	97	96	96	98	98	98	98	2897
Thurman Mill	23	19	20	20	21	20	21	21	20	20	18	16	16	16	23	22	22	21	23	24	21	22	21	20	20	20	20	21	21	21	21	637
Farmers Union + B.C.	155	155	155	155	155	155	155	53	155	153	155	63	64	64	116	116	116	118	118	118	119	118	117	116	115	113	113	112	112	111	3755
Little Union	20	16	14	13	16	16	7	10	11	10	9	8	12	12	12	13	13	10	7	7	7	7	6	7	6	6	8	8	8	7	10	310
Dry Creek	34	33	32	32	32	34	28	28	32	32	32	33	32	32	32	33	26	29	32	30	27	33	30	28	27	29	30	31	33	32	33	959
Ballantine	10	10	9	9	9	8	8	7	8	8	8	8	8	6	7	10	10	9	9	9	9	8	8	8	6	7	10	8	9	11	264
Eagle Island Canals	35	35	35	35	35	33	29	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	29	28	28	28	28	28	910
Middleton Water Co.	64	62	62	62	61	61	54	39	42	52	52	32	48	41	41	68	68	67	67	66	64	65	66	66	65	65	68	68	69	69	1823
Middleton Mill Ditch	40	43	39	39	39	39	40	29	27	27	27	29	40	40	37	42	43	43	42	42	40	39	39	38	38	39	40	40	41	1122
Phyllis	263	289	259	256	251	250	217	242	260	272	261	212	229	219	253	281	279	279	269	268	249	249	211	201	187	177	190	181	182	203	213	7313
Eureka No. 1	18	20	18	19	20	20	18	5	5	5	10	10	18	17	18	18	18	18	18	18	18	18	18	18	14	19	16	15	17	12	10	488
Pioneer	15	16	16	15	14	14	13	11	12	13	12	12	14	14	15	15	15	15	15	15	15	15	15	15	16	16	17	18	18	19	462
Canyon County	66	54	54	52	50	50	38	39	41	43	47	39	41	21	24	36	50	56	63	61	41	42	28	34	22	19	23	20	17	11	18	1219
Caldwell High Line	36	36	36	27	27	22	23	23	22	22	22	22	22	0	18	45	50	50	50	49	51	48	48	45	41	35	22	22	23	23	22	978
Farmers Cooperative	265	262	267	258	262	224	234	214	182	170	186	183	168	192	179	200	164	234	210	218	261	252	227	195	172	154	138	125	138	180	222	6472
Canyon	11	11	12	13	10	9	10	9	7	6	7	11	10	12	11	14	8	13	13	14	12	11	9	7	6	5	7	6	9	10	10	299
Seibenberg	11	12	10	9	10	9	9	9	7	7	6	5	4	9	9	14	5	24	29	19	19	18	16	17	9	2	2	2	15	28	9	346
Riverside No. 2	167	160	161	159	159	159	168	157	150	150	147	108	152	151	174	176	153	157	161	160	162	150	145	142	124	136	133	130	126	127	127	4635
Pioneer Dixie	13	13	12	12	11	10	10	11	10	8	8	8	7	8	10	9	12	12	12	14	13	13	13	13	11	12	9	7	7	9	10	325
Eureka No. 2	28	47	45	43	42	39	38	37	41	40	34	30	27	33	33	36	37	65	59	61	60	61	58	54	45	46	42	34	30	29	30	1300
Upper Center Point	18	8	8	8	7	6	6	8	11	9	10	7	8	9	8	11	10	11	11	13	13	13	12	8	9	7	6	12	8	10	11	295
Lower Center Point	16	15	13	12	11	11	9	4	5	5	4	4	4	3	10	7	9	8	13	14	14	13	12	9	6	3	2	2	2	2	2	244
Boise River at Notus	48	60	48	46	396	408	360	390	36	36	46	33	36	36	34	34	36	58	103	100	106	114	141	100	[illegible]	50	49	36	35	35	36	3132
Miscellaneous.	23	23	23	23	23	23	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	613
Total.	3623	3397	3485	3459	3806	3737	3543	3387	3078	3095	3235	3076	3105	3114	3340	3373	3346	3499	3514	3502	3361	3345	3596	3473	2948	2805	2782	2711	2853	2951	3063	101185

No.	Name of Canal	SEPTEMBER 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
1	U.S.R.S.	1601	1637	1628	1392	1206	1213	1211	1210	1212	1192	1160	1176	998	838	995	941	693	649	652	642	672	608	608	608	585	608	608	608	447	765	28627
2	New York Stock	0	0	0	0	0	0	0	0	0	0	0	0	0	196	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166	2822
3	Penitentiary	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	150
4	Ridenbaugh	332	337	290	290	290	290	290	290	293	290	293	293	290	293	197	283	201	213	234	233	228	233	125	124	127	122	124	126	127	99	6904
5	Bubb	5	5	6	6	7	8	8	8	7	7	6	6	6	5	5	5	5	5	5	6	6	6	8	7	6	6	5	5	6	5	181
6	Cruzen	72	74	87	85	85	83	83	73	86	81	84	85	84	83	80	76	74	77	82	82	80	81	80	79	81	78	81	79	78	76	2409
7	Boise City No. 1	11	10	9	9	10	10	10	10	10	7	7	7	7	7	7	7	7	7	7	8	8	10	12	13	13	13	12	12	12	12	284
8	Settlers	45	45	45	46	74	78	78	78	78	78	78	78	78	78	78	78	70	70	78	78	78	78	29	21	21	18	15	4	4	4	1681
9	Thurman Mill	25	24	24	24	24	24	23	23	23	22	22	22	22	22	22	21	20	20	21	21	20	19	19	19	17	17	16	16	17	17	625
10	Farmers Union + B.V.	108	108	102	102	98	107	105	105	105	105	105	105	105	90	90	86	75	75	73	66	66	66	44	44	79	40	40	40	40	40	2383
11	Little Union	11	12	12	9	9	12	12	11	11	14	4	4	5	4	5	4	2	2	4	4	4	5	3	3	3	3	3	3	3	3	183
12	Dry Creek	32	30	25	32	33	33	36	33	30	30	28	28	28	28	26	24	7	4	7	6	6	6	6	6	6	6	6	6	6	6	560
13	Ballantine	11	11	11	11	12	12	12	13	14	14	13	14	13	14	8	3	3	3	2	2	2	3	3	4	3	2	2	2	2	2	221
14	7 Eagle Island Canals	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	840
15	Middleton Water Co.	70	70	75	73	70	67	66	68	71	76	62	65	68	70	74	78	68	41	44	44	45	43	41	40	44	41	41	40	39	39	1733
16	Middleton Mill Ditch	41	41	39	39	38	37	36	36	37	37	33	34	36	37	37	36	37	17	17	17	17	17	18	19	17	16	16	16	15	15	848
17	Phyllis	213	224	218	234	226	211	211	229	250	252	213	225	227	190	118	192	134	154	122	123	129	128	40	40	40	40	40	40	40	40	4537
18	Eureka No. 1	14	17	17	17	16	16	16	16	16	16	16	15	14	11	11	11	10	11	11	10	9	5	5	5	5	5	5	5	5	5	335
19	Pioneer	20	22	23	20	18	16	14	12	10	8	9	11	13	15	16	17	15	11	9	7	5	5	5	5	5	5	5	5	5	5	336
20	Canyon County	19	29	28	30	25	24	29	31	39	41	32	34	36	38	45	51	41	32	39	46	46	40	34	25	14	17	15	8	6	2	892
21	Caldwell High Line	28	40	40	40	33	38	35	40	20	21	18	15	6	6	6	6	6	6	8	8	8	8	8	8	5	5	5	5	5	5	482
22	Farmers Cooperative	120	120	131	150	144	142	140	150	200	204	212	227	230	232	224	216	192	187	182	200	192	186	180	172	163	152	143	132	123	112	5158
23	Canyon	10	10	10	11	11	11	11	11	13	14	8	5	7	8	9	10	10	2	8	9	10	10	8	9	7	8	6	5	3	1	255
24	Seibenberg	30	30	7	11	9	9	9	14	19	25	5	6	6	5	6	7	6	6	6	27	27	26	20	15	10	5	5	5	5	5	366
25	Riverside No. 2	134	136	135	137	143	139	141	140	140	143	135	139	139	139	135	110	139	135	139	136	134	130	125	117	109	101	92	83	75	67	3799
26	Pioneer Dixie	9	9	7	6	6	6	6	7	9	7	7	7	8	9	11	13	16	16	17	17	16	16	16	14	14	12	12	11	11	9	324
27	Eureka No. 2	30	30	29	29	31	29	29	33	37	42	45	40	48	56	59	63	52	48	48	48	48	45	42	40	38	34	36	32	28	27	1196
28	Upper Center Point	12	10	10	10	11	11	11	11	11	12	12	9	10	11	9	7	7	5	5	5	5	5	6	6	6	5	5	5	5	5	242
29	Lower Center Point	2	2	13	15	15	16	15	15	16	16	16	14	14	14	14	14	3	3	3	3	3	3	3	2	2	2	2	2	2	2	246
30	Boise River at Notus	34	36	34	34	36	75	85	100	107	110	155	200	250	360	372	378	396	260	250	300	295	300	680	1300	1165	1030	790	790	802	814	11528
31	Miscellaneous	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	570
	Total	3041	3173	3108	2914	2831	2766	2775	2831	2921	2916	2860	2916	2801	2881	2927	2823	2307	2267	2293	2336	2342	2299	2386	2962	2773	2009	2348	2303	2428	2400	80717

TRIBUTARY AND RETURN FLOW TO BOISE RIVER DURING IRRIGATION SEASON 1918. CHART 6.

APRIL

No	Name of Tributary	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
1	Cottonwood Creek	27	27	30	33	34	32	32	33	34	33	33	33	33	33	33	33	33	33	31	31	30	29	29	29	29	29	29	29	29	29	1002
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
3	Boise Valley Waste	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	10	10	10	9	9	155
4	Ballantine Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	2	2	19
5	Dry Creek Waste	70	70	60	61	61	60	59	59	59	59	60	58	56	55	55	55	48	46	45	44	44	43	40	40	40	40	40	40	23	23	1516
6	Thurman Mill Slough	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	156
7	Phyllis Slough	4	4	4	4	5	4	5	5	5	4	5	6	4	4	6	6	7	7	7	7	6	5	4	4	4	4	5	5	5	6	150
8	Fire Mile Creek	94	94	96	96	96	194	194	194	96	194	138	138	38	38	38	138	138	138	136	136	38	138	96	96	34	17	17	17	17	17	3169
9	Middleton Mill Slough	38	35	33	36	40	38	36	35	39	43	43	43	42	42	41	41	41	41	41	35	31	27	25	19	28	60	54	39	25	33	1172
10	Mason Creek	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	4	6	7	9	8	10	12	16	122
11	Mason Drain	24	23	24	24	23	24	24	24	23	23	23	24	24	25	26	27	28	29	29	28	24	22	23	23	26	23	24	21	22	22	729
12	Indian Creek	99	139	134	132	110	135	111	99	103	103	28	103	103	103	10	99	97	100	97	101	107	97	87	101	109	86	81	78	76	76	3093
13	Dixie Drain	6	6	6	6	6	6	6	6	6	6	6	10	10	11	11	11	9	9	9	9	9	6	7	8	6	8	7	8	8	8	228
	Total	322	368	413	418	404	493	487	475	384	453	446	475	469	469	476	463	453	455	450	442	373	347	360	383	354	355	345	281	269	283	12209

MAY

No	Name of Tributary	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
1	Cottonwood Creek	41	44	40	36	40	44	48	50	52	48	44	40	37	34	9	24	21	18	20	23	26	29	31	32	34	41	45	53	54	56	57	1195
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3	Boise Valley Waste	6	7	6	8	7	10	2	5	7	5	2	6	10	14	2	10	10	9	8	9	8	10	10	12	14	13	12	11	9	6	7	201
4	Ballantine Waste	6	6	7	6	6	7	2	5	5	5	4	5	4	4	6	4	3	2	2	3	3	4	6	7	8	6	4	3	3	3	3	140
5	Dry Creek Waste	0	0	0	0	0	0	0	0	29	28	26	31	36	43	44	41	41	41	37	33	37	37	34	36	36	41	47	52	50	48	49	845
6	Thurman Mill Slough	5	7	10	22	21	20	20	20	21	19	18	17	17	16	15	13	13	13	12	10	9	6	7	9	8	10	6	8	10	10	10	350
7	Phyllis Slough	6	6	6	6	6	6	7	7	7	6	6	4	4	4	6	6	6	7	7	6	4	5	7	6	4	7	7	6	4	5	5	181
8	Fire Mile Creek	17	17	34	60	60	60	60	60	60	60	60	34	25	17	11	46	91	60	35	39	31	28	31	32	36	89	143	115	120	125	115	1628
9	Middleton Mill Slough	38	50	61	69	77	85	108	132	164	150	161	160	159	138	116	106	96	90	86	79	71	64	56	61	81	101	124	121	101	110	119	3253
10	Mason Creek	18	20	21	24	26	24	28	27	37	36	26	36	41	22	7	23	32	16	18	20	25	10	12	15	20	38	38	40	32	34	35	844
11	Mason Drain	44	59	56	62	69	65	61	67	74	68	128	106	63	21	1	34	106	86	71	67	63	70	70	77	84	98	107	92	80	79	77	2262
12	Indian Creek	76	76	79	81	83	120	120	99	99	99	104	104	106	106	10	102	105	102	110	120	113	111	115	115	119	121	139	138	129	126	126	3358
13	Dixie Drain	8	8	9	8	9	12	12	16	16	16	16	16	17	15	9	19	19	20	20	21	21	22	22	23	23	23	23	27	27	25	27	576
	Total	277	298	339	386	412	456	471	492	580	561	603	587	530	446	412	428	547	471	404	433	412	397	403	425	475	588	721	674	681	663	646	15308

JUNE

No	Name of Tributary	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
1	Cottonwood Creek	42	51	55	59	62	46	46	48	44	41	45	38	38	35	31	30	29	27	30	33	31	30	31	32	32	32	31	31	30	30	1120
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
3	Boise Valley Waste	8	9	11	12	12	12	6	10	9	7	5	7	9	7	5	6	4	4	7	7	5	6	8	10	12	12	11	6	2	4	226
4	Ballantine Waste	4	4	4	4	4	4	4	5	7	9	11	11	12	11	9	9	8	8	12	13	14	14	15	16	14	16	12	17	17	15	327
5	Dry Creek Waste	35	31	30	29	26	24	23	24	34	26	16	16	19	24	30	34	36	38	36	37	43	39	37	38	35	38	34	27	23	6	1017
6	Thurman Mill Slough	10	10	8	6	5	4	4	6	10	10	21	21	21	21	21	23	22	17	15	14	9	9	9	14	18	21	26	11	10	8	7	370
7	Phyllis Slough	6	7	8	8	8	8	8	8	9	9	9	10	9	8	7	7	8	8	9	9	9	10	10	10	9	8	8	7	7	7	7	270
8	Fire Mile Creek	97	30	17	61	42	37	40	70	58	44	181	30	65	66	61	90	119	100	97	97	70	66	62	144	179	120	73	60	24	23	2360
9	Middleton Mill Slough	111	103	94	89	89	93	117	143	169	195	162	139	139	129	109	102	97	92	86	79	77	72	70	85	116	105	85	86	94	90	3256
10	Mason Creek	34	32	39	35	35	38	42	42	42	42	28	31	30	32	33	34	34	32	33	33	33	39	41	36	34	28	19	25	25	33	1056
11	Mason Drain	78	78	79	68	73	73	85	86	87	88	88	89	106	97	87	96	95	89	95	92	91	90	88	90	89	91	91	93	103	113	2687
12	Indian Creek	122	122	124	126	122	124	130	133	135	138	142	149	174	165	165	171	172	171	180	180	161	176	170	170	164	164	161	180	180	182	4644
13	Dixie Drain	25	26	26	27	27	28	28	29	29	30	30	31	31	32	31	30	29	28	27	26	25	24	23	22	22	21	21	21	20	20	782
	Total	579	620	604	512	483	506	561	601	636	653	708	577	661	657	615	631	713	730	707	737	671	673	695	726	753	674	677	652	679	688	18844

AVERAGE

CHART 6

JULY

No.	Name of Tributary	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
1	Cottonwood Creek	36	31	32	34	36	37	36	35	34	32	31	30	28	26	34	39	34	33	32	32	34	37	33	35	38	38	38	36	36	37	39	1061
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3	Boise Valley Waste	5	6	6	5	6	5	5	6	5	5	5	6	6	7	7	7	1	1	1	7	6	5	6	6	6	5	4	4	5	2	2	153
4	Ballantine Waste	13	12	10	9	6	3	6	9	13	11	8	8	7	6	5	5	5	6	7	8	6	5	3	3	9	8	8	9	8	8	10	237
5	Dry Creek Waste	0	0	0	0	0	0	0	0	0	0	0	13	26	25	24	16	16	29	20	18	1	1	3	0	0	0	0	0	0	0	0	192
6	Thurman Mill Slough	7	6	7	6	5	3	6	10	13	11	10	16	11	12	12	12	13	11	8	8	8	8	3	4	6	9	10	10	10	6	6	260
7	Phyllis Slough	7	7	6	6	6	6	6	6	7	8	7	8	9	8	7	7	7	7	6	6	6	5	5	5	5	5	6	7	6	4	5	197
8	Five Mile Creek	40	0	0	1	3	34	40	47	63	114	130	41	37	44	78	62	26	20	16	40	20	23	24	23	35	42	50	57	41	21	31	1213
9	Middleton Mill Slough	52	100	147	118	88	78	67	57	113	169	156	144	148	152	156	147	118	51	50	48	46	44	43	42	47	52	56	66	65	70	76	2753
10	Mason Creek	23	13	15	18	17	20	23	23	22	21	21	26	29	28	29	30	31	32	33	34	35	34	25	22	23	34	32	36	34	32	28	823
11	Mason Drain	118	105	102	102	102	85	82	79	82	81	77	74	64	81	82	82	84	86	88	91	87	85	91	80	74	75	76	74	80	87	87	2672
12	Indian Creek	147	148	144	151	151	149	149	145	154	154	148	149	157	151	155	141	149	130	135	133	135	154	161	146	156	156	145	151	138	139	136	4545
13	Dixie Drain	20	20	19	19	19	19	18	18	18	19	20	19	18	18	18	18	18	18	19	19	19	20	20	20	21	21	21	22	22	22	22	607
	Total	470	456	496	477	447	447	444	443	527	633	621	534	593	576	615	560	502	440	423	452	411	431	417	394	427	447	460	474	433	436	450	14976

AUGUST

No.	Name of Tributary	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
1	Cottonwood Creek	37	33	32	35	38	42	34	37	42	49	44	36	37	38	45	51	45	43	42	41	40	37	34	36	38	36	33	36	37	35	33	1198
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3	Boise Valley Waste	7	10	11	8	6	4	8	2	2	2	2	2	2	2	2	2	2	4	6	6	6	5	5	5	6	7	6	5	4	4	5	145
4	Ballantine Waste	10	10	9	9	9	8	8	7	8	8	8	8	8	8	7	10	10	5	5	5	9	8	8	8	8	6	7	10	8	9	11	264
5	Dry Creek Waste	0	0	0	0	0	0	0	6	6	1	1	1	1	4	1	1	1	5	6	3	1	1	1	1	1	1	1	1	1	1	1	42
6	Thurman Mill Slough	7	8	6	7	7	7	8	8	8	9	8	8	11	9	11	11	8	6	10	8	6	8	6	6	6	5	4	4	4	5	6	228
7	Phyllis Slough	5	5	6	5	5	5	6	6	6	8	7	9	6	6	4	5	6	6	6	6	8	8	9	9	7	4	6	6	5	5	6	192
8	Five Mile Creek	28	38	39	34	33	27	27	25	23	25	28	31	29	60	24	28	31	74	42	34	39	41	29	17	12	10	11	10	11	11	9	895
9	Middleton Mill Slough	50	66	66	66	54	61	61	43	35	35	33	34	28	28	26	25	25	93	130	134	131	132	127	113	120	36	15	15	22	22	21	1878
10	Mason Creek	31	37	33	27	22	22	23	24	28	28	26	22	21	16	18	20	24	33	29	36	28	8	7	10	5	4	1	1	1	1	3	591
11	Mason Drain	91	79	74	76	79	89	81	77	88	89	85	82	78	69	71	73	74	85	87	90	95	100	98	95	99	86	79	85	95	86	87	2619
12	Indian Creek	144	139	144	134	144	136	138	130	132	129	133	103	141	137	102	134	149	157	155	153	171	166	149	144	147	139	132	127	130	128	131	4374
13	Dixie Drain	22	23	23	23	23	24	24	24	24	32	40	39	19	16	18	39	40	20	21	22	20	21	20	20	21	15	19	19	19	19	20	746
	Total	454	456	451	432	428	433	426	400	410	423	424	414	384	403	427	407	423	513	557	550	566	543	501	481	478	360	317	317	345	334	343	13423

SEPTEMBER

No.	Name of Tributary	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
1	Cottonwood Creek	36	37	37	42	42	38	39	43	47	52	49	47	49	52	56	59	58	52	58	58	59	61	64	66	68	66	63	60	59	58	1569
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
3	Boise Valley Waste	6	5	5	5	5	6	7	7	7	8	8	7	10	11	10	8	7	8	8	7	7	8	8	10	7	7	6	6	7	7	219
4	Ballantine Waste	11	11	11	11	12	12	12	13	14	14	13	14	13	14	8	3	3	3	4	2	2	3	3	4	3	2	2	2	2	2	221
5	Dry Creek Waste	1	1	1	1	1	1	1	1	1	1	1	14	18	19	10	6	6	52	40	22	13	21	29	20	13	12	6	6	8	10	310
6	Thurman Mill Slough	6	8	6	6	7	7	7	8	8	8	9	6	7	7	7	6	6	5	4	5	7	8	7	8	9	10	9	10	10	10	222
7	Phyllis Slough	8	7	6	5	5	5	7	8	6	4	6	5	5	6	8	7	14	6	7	7	7	7	7	6	6	8	6	7	5	5	162
8	Five Mile Creek	9	8	8	6	9	8	8	9	44	24	21	27	38	60	52	52	54	54	61	55	56	56	211	42	42	22	21	21	21	21	1105
9	Middleton Mill Slough	22	27	22	30	55	40	49	95	132	105	98	93	112	112	123	115	101	81	16	28	69	129	135	126	117	108	98	90	81	72	2601
10	Mason Creek	12	13	12	7	3	2	1	4	7	4	10	7	8	9	20	10	5	5	5	5	6	8	24	12	9	9	8	8	8	10	276
11	Mason Drain	74	68	67	74	55	78	80	87	89	89	85	82	58	82	88	87	80	79	86	74	79	81	93	76	74	74	74	73	96	74	2427
12	Indian Creek	138	136	136	137	140	139	141	146	164	156	158	100	171	152	158	136	129	121	114	118	123	122	125	122	125	181	180	185	182	181	4583
13	Dixie Drain	20	20	20	20	20	20	20	20	20	21	26	26	27	27	26	24	24	23	22	21	20	22	25	28	31	33	35	38	40	39	705
	Total	351	362	339	354	396	372	385	449	547	494	492	504	542	579	615	583	524	547	530	520	506	586	786	585	565	540	520	511	502	497	15082

CHART 15.

TABLE SHOWING RETURN FLOW ACTUALLY FLOWING INTO BOISE RIVER; RETURN FLOW DIVERTED BY PIONEER AND RIVERSIDE IRRIGATION DISTRICTS; AND CANAL REQUIREMENTS IN SECTION TWO OF BOISE RIVER; FOR THE PERIOD JULY 22 TO SEPT. 14, Inc. 1918. DATA IN SEC. FT.

JULY

	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	Avg.
ter at River ppage Flow																						461	422	381	423	452	449	463	436	446	394	4317	431
rted by anal																						28	38	34	34	28	38	28	30	28	30	316	32
ted & Retain- d High Line																						24	37	10	2	28	18	26	26	68	40	289	29
h Diverted High Line																						37	37	37	37	37	38	38	38	38	38	375	37
erted by igh Line C.																						13	13	13	12	12	12	11	11	11	10	118	12
rain at Canal																						59	59	60	61	61	61	58	58	58	59	594	59
able Return ction 2.																						622	606	545	569	618	616	624	589	649	571	6009	600
irements Decree																						540	540	540	540	540	540	540	540	540	540	5400	540
																						+ 82	+ 66	+ 5	+ 29	+ 78	+ 76	+ 84	+ 49	+ 109	+ 31	+ 609	+ 60

AUGUST

	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	Avg
ter at River age Flow.	430	482	470	447	801	796	800	807	424	406	421	423	378	416	419	443	328	50	565	603	609	614	619	552	479	421	385	349	365	428	455	15608	503
ed by al	31	31	28	30	28	27	27	24	23	30	27	24	27	28	28	37	31	3[illegible]	39	37	48	47	48	36	46	44	31	28	34	34	42	1033	34
d Retained igh Line	60	56	41	41	41	35	37	45	43	42	45	47	0	0	0	65	59	39	58	58	54	58	62	62	60	60	60	60	60	60	60	1468	47
h Diverted igh Line	38	37	37	36	35	34	33	33	32	32	32	32	32	32	32	32	32	2[illegible]	33	33	33	33	33	32	31	30	27	25	24	23	23	984	33
erted by igh Line	10	10	10	10	9	9	9	9	9	8	8	8	8	8	7	7	7	7	7	7	7	7	7	6	6	6	6	5	5	5	5	231	7
rain at Canal	59	59	59	59	59	59	59	59	59	58	56	56	56	56	56	56	56	5[illegible]	56	59	59	59	59	59	56	56	56	56	56	56	56	1780	57
able Return ction 2.	628	675	645	593	774	960	965	977	590	576	589	590	501	539	542	640	513	67[illegible]	758	797	810	818	827	747	678	617	565	523	544	606	641	21104	681
irements Decree	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	54[illegible]	540	540	540	540	540	540	540	540	540	540	540	540	540	16740	540
	+ 88	+ 135	+ 105	+ 53	+ 434	+ 420	+ 425	+ 437	+ 50	+ 36	+ 49	+ 50	- 39	- 1	+ 2	+ 100	- 27	+ 13	+ 218	+ 257	+ 270	+ 278	+ 287	+ 207	+ 138	+ 77	+ 25	+ 17	+ 4	+ 66	+ 101	4364	+ 141

SEPTEMBER

	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	Avg.
ter at River age Flow.	379	382	373	398	403	436	445	478	515	536	573	610	675	802																		7005	500
ed by al	35	25	22	22	30	31	22	43	36	24	31	43	51	54																		469	34
8 Retained igh Line	60	60	60	60	60	60	60	59	30	57	47	39	15	15																		682	49
Diverted igh Line	22	22	21	21	21	20	20	19	19	18	18	17	17	17																		272	19
Diverted by igh Line	5	5	5	5	5	5	5	5	5	4	4	4	4	4																		65	5
rain at Canal	53	53	56	56	56	55	55	55	55	55	53	53	56	50																		755	54
ble Return ction 2	454	547	537	562	576	607	607	659	660	694	726	766	812	942																		9248	661
irements Decree	540	540	540	540	540	540	540	540	540	540	540	540	540	540																		7560	540
	+ 14	+ 7	- 3	+ 22	+ 35	+ 67	+ 67	+ 119	+ 120	+ 154	+ 186	+ 226	+ 272	+ 402																		+ 1688	+ 121

Average Daily Flow in Second Feet.

Period	Available Return Flow	60% Canal Requirements	Excess	100% Canal Requirements	Excess
July 22-31	600	324	276	540	60
Aug. 1-31	681	324	357	540	141
Sept. 1-14	661	324	337	540	121
Average	661	324	337	540	121

CHART 13

TABLE SHOWING THE AVAILABLE WATER PASSING THE CALDWELL HIGH LINE CANAL AND DELIVERIES TO CANALS, BY DAYS, JULY 22 TO SEPT. 14, Inc. 1916, FOR THE SECTION BETWEEN THE CALDWELL HIGH LINE CANAL AND NOTUS

JULY

	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	Avg.
Natural Flow Boise River Passing Caldwell High Line																					33	43	54	63	70	54	54	54	66	66	120	595	69
Deliveries to Canals																					444	465	486	486	477	503	517	492	512	514		4916	491
Tributary Gain																					307	361	388	360	379	392	407	376	375	390		3756	375
Seepage Gain																					94	61	43	63	73	57	56	40	71	4		562	56
Net Gain Caldwell High Line to Notus																					461	422	361	423	452	440	463	426	446	394		4317	431

AUGUST

	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	Avg.
Natural Flow Boise River Passing Caldwell High Line	120	81	81	120	81	64	19	7	0	0	2	1	13	13	35	32	106	84	92	51	51	26	14	2	2	2	2	5	5	2	2	1090	35
Deliveries to Canals	550	563	603	583	582	582	594	594	714	706	712	694	721	725	737	735	734	689	651	654	666	670	633	654	681	423	387	354	370	430	457	16698	539
Tributary Gain	398	387	389	389	389	389	389	389	389	386	386	386	386	386	386	386	386	386	386	386	386	386	386	386	386	297	258	263	283	272	279	11295	364
Seepage Gain	32	95	50	52	42	42	32	40	47	50	50	69	71	66	61	66	119	121	64	89	128	113	105	80	136	69	124	127	86	82	156	4313	139
Net Gain Caldwell High Line to Notus	430	482	470	441	471	802	796	800	807	842	836	842	821	833	778	815	819	773	829	829	603	603	603	609	614	619	652	479	421	385	349	365	429	453	15608	503

SEPTEMBER

	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	Avg.
Natural Flow Boise River Passing Caldwell High Line	2	1	3	5	3	2	2	3	37	31	32	27	37	32																	235	17
Deliveries to Canals	701	685	676	703	708	698	707	708	714	706	705	647	712	693																	7240	517
Tributary Gain	253	291	271	281	320	300	361	414	414	414	414	414	414	414																	5017	358
Seepage Gain	96	90	152	117	83	136	134	104	69	69	69	203	234	329																	1298	93
Net Gain Caldwell High Line to Notus	379	382	373	395	403	436	445	479	536	536	536	736	1067	802																	7005	500

Period	Tributary	Seepage	Total Gain
July 22-31	375	56	431
Aug. 1-31	364	139	503
Sept. 1-14	308	142	500
Five days	365	1235	490

(Storage water excluded)

CHART

TABLE SHOWING NATURAL FLOW OF BOISE RIVER PASSING HIGHLAND AND DELIVERIES TO CANALS BY DAYS, JULY 22 - SEPT. 14, inc. 1918, FOR THE SECTION BETWEEN HIGHLAND AND THE CALDWELL HIGH LINE CANAL.

JULY

	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	Avg.
Natural Flow Boise River Passing Highland																						1566	1385	1272	1111	1283	1265	1192	1118	1054	1241	12487	1249
Deliveries to Canals																						1831	1624	1486	1333	1568	1577	1312	1215	1341	1459	14756	1476
Tributary Gain																						64	56	56	67	68	68	67	67	61	65	639	64
Seepage Gain																						171	183	158	155	217	244	53	30	226	193	1630	163
Net Gain Highland to Caldwell High Line																						235	239	214	222	285	312	120	97	287	258	2269	227

AUGUST

	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	Avg.
Natural Flow Boise River Passing Highland	1327	1494	1655	1032	1121	1073	846	851	901	893	958	916	830	814	885	875	964	1064	1021	981	893	820	700	809	925	848	850	807	817	879	930	28689	925
Deliveries to Canals	1451	1354	1315	1425	1964	1345	1112	1004	1130	1204	1285	1048	1052	1008	1156	1245	1349	1314	1309	1267	1117	1100	1486	1089	1149	1124	1140	1062	1200	657	1156	37065	1195
Tributary Gain	66	69	66	67	68	69	66	68	74	77	72	67	67	64	74	83	74	74	81	75	70	67	62	64	67	68	59	64	62	62	64	2130	69
Seepage Gain	58	291	194	326	215	203	200	85	155	234	253	66	135	125	189	287	310	186	207	211	134	213	724	216	157	213	231	19	321	284	161	6246	201
Net Gain Highland to Caldwell High Line	124	360	260	393	283	272	266	153	229	311	325	132	202	189	263	370	384	260	288	286	224	280	786	280	224	276	290	255	383	222	225	8376	270

SEPTEMBER

	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	Avg.
Natural Flow Boise River Passing Highland	784	752	718	858	725	659	520	623	619	655	878	1037	1044	856																	10728	766
Deliveries to Canals	1100	1067	977	882	834	825	790	931	990	928	1217	1414	1288	1171																	14414	1029
Tributary Gain	68	70	68	73	75	72	74	80	85	91	88	97	101	106																	1148	82
Seepage Gain	248	245	191	-49	34	94	196	228	286	182	251	280	143	209																	2538	181
Net Gain Highland to Caldwell High Line	316	315	259	24	109	166	270	308	371	273	339	377	244	315																	3686	263

A.L.T. '18

Period	Tributary	Seepage	Total Gain
July 22-31	64	163	227
Aug. 1-31	69	201	270
Sept. 1-14	82	181	263
Avg. 55 days	71	189	260

1919

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS BY DAYS DURING THE IRRIGATION SEASON OF 1919. INCLUDING STORAGE WATER.

APRIL

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
U.S.R.S.	1025	1032	1039	1121	1017	1032	971	1032	1106	1143	1257	1221	1221	1237	1227	733	766	825	921	1032	1128	1198	1244	1239	1088	1605	1548	1624	1740	1771	34367
New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
Penitentiary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	5	5	5	27
Ridenbaugh	0	0	0	0	0	24	24	44	64	78	78	80	92	98	98	112	123	123	122	126	145	160	175	200	233	260	271	277	298	307	3592
Bibb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	7	7	6	8	10	8	7	7	70
Gruzen	0	0	0	0	0	0	0	0	0	10	20	30	42	55	72	75	77	77	76	80	80	82	82	82	83	85	85	83	84	76	1438
Boise City No. 1	0	0	0	0	0	0	0	0	0	2	2	2	3	3	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	6	78
Settlers	0	0	0	0	0	0	0	0	0	13	13	13	13	13	13	13	13	13	13	15	13	29	42	57	71	82	89	93	104	112	822
Thurman Mill	0	0	0	0	0	0	0	0	4	8	9	10	12	12	12	14	14	14	15	16	16	18	17	17	17	18	19	19	20	20	321
Farmers Union Ditch	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	67	105	145	317
Little Union	4	4	4	4	4	3	2	2	2	3	4	5	5	2	2	2	4	4	4	5	5	6	7	8	9	9	9	11	12	12	164
Dry Creek	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	29	33	62
Ballantine	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	30
Middleton Water Co.	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	4	4	4	4	5	5	5	5	5	30	35	40	42	45	46	367
Eagle Island Canals	0	0	0	0	0	0	0	0	0	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	987
Middleton Mill Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	35	46	58	70	81	78	401
Phyllis	101	101	101	101	153	143	143	162	162	175	188	188	186	200	213	213	213	156	186	208	213	240	254	263	308	336	360	356	374	381	6536
Eureka No. 1	4	4	4	4	2	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	12	17	23	29	36	31	193
Pioneer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	10	10	11	11	13	15	15	17	17	19	183
Canyon County	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	53	52	51	156
Caldwell High Line	0	0	0	0	0	0	0	0	0	0	21	23	27	23	28	34	34	32	38	42	47	46	46	42	38	58	54	62	63	63	864
Farmers Cooperative	0	0	0	0	0	0	0	0	23	23	23	23	23	32	42	42	54	54	100	116	138	152	162	156	154	200	220	240	272	308	2599
Canyon	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	2	2	3	3	3	15
Sciberhero	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	6	8	11	13	13	13	13	16	15	14	161
Riverside No. 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	52	74	98	126	196	188	748
Pioneer Dixie	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	7	11	15	20	21	22	24	25	26	26	230
Eureka No. 2	0	0	0	0	0	2	2	2	2	2	2	3	3	3	4	4	15	15	30	30	38	46	46	48	48	50	52	54	54	54	609
Upper Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	4	4	8	8	10	10	12	12	14	13	16	16	16	151
Lower Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	3	3	4	4	5	5	5	39
Boise River @ Natus	3660	6030	6050	6620	8370	7506	5500	4980	3660	2920	2920	2920	2460	2660	2660	2920	2460	2010	2220	2010	2010	1280	1240	1140	1210	1620	2920	5780	5500	5780	109180
Miscellaneous	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	620
Total.	4776	7473	7480	9132	9810	8988	6926	6594	5305	4796	4979	4879	4436	4772	4859	4531	4442	3925	4120	4071	4425	4682	4779	4810	4775	4986	5304	6442	6538	6934	174028

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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
U.S.R.S.	1995	1978	1978	1973	1976	1965	1978	1966	1978	1978	1978	1978	1993	2003	2023	2023	2023	2013	2023	2023	2023	2033	2063	2073	2073	2073	2073	2032	2123	2123	2123	62732
New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8587
Penitentiary	4	1	4	4	2	4	3	5	3	5	5	10	10	12	14	14	1	0	0	0	0	0	10	10	10	20	11	13	13	12	13	222
Aidenbaugh	318	330	340	346	347	360	360	372	374	384	384	384	384	385	387	392	395	395	395	392	395	395	395	392	395	395	394	387	345	405	405	11777
Bubb	9	10	10	12	12	12	14	14	16	16	20	20	20	22	26	26	28	30	28	26	29	39	37	35	33	31	29	27	25	23	21	699
Cruzen	69	70	70	71	72	73	73	73	73	74	76	76	74	74	75	75	76	76	78	80	80	82	82	82	81	80	78	78	79	80	81	2361
Boise City No.1	6	7	7	7	6	6	6	7	7	7	5	5	5	8	8	8	8	7	7	6	6	6	6	6	6	6	7	7	7	8	8	207
Settlers	147	142	151	157	163	139	143	148	153	0	0	121	143	163	166	170	170	170	170	179	0	179	185	185	182	182	181	182	181	180	180	4590
Thurman Mill	28	28	28	27	26	26	27	27	28	30	30	30	32	32	32	34	36	38	40	40	41	43	42	42	41	41	40	39	39	38	38	1063
Farmers Union + B.V.	169	177	177	177	177	187	187	167	198	208	208	198	208	187	223	223	223	223	217	225	225	235	235	235	235	235	235	235	235	235	225	6544
Little Union	13	13	13	12	12	11	11	10	10	9	9	8	7	6	6	3	3	5	6	6	6	10	10	10	12	12	14	14	16	16	18	311
Dry Creek	36	36	34	28	25	23	26	29	32	36	40	45	50	52	56	57	55	52	49	49	49	50	52	52	54	54	56	58	58	58	60	1411
Ballantine	10	10	10	11	12	13	13	13	14	14	14	14	15	15	16	16	14	12	10	12	12	16	16	17	17	17	17	16	16	16	15	433
T Eagle Island Land	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	41	47	41	47	47	47	47	47	1457
Middleton Water Co	69	79	86	93	97	100	100	96	91	91	93	95	94	96	97	99	95	95	87	92	97	130	97	87	86	82	84	85	97	102	97	2890
Middleton Mill Ditch	76	74	78	82	91	93	87	82	76	70	64	58	52	46	40	31	37	64	58	63	92	93	88	63	61	56	59	61	61	56	61	2071
Phyllis	400	416	404	276	276	419	414	429	431	431	439	441	433	433	443	438	446	443	445	455	455	453	451	451	451	451	447	447	450	450	451	13264
Eureka No.1	26	22	22	24	24	26	26	26	24	24	24	22	22	22	20	32	30	27	22	22	22	24	26	26	26	26	30	30	27	27	26	772
Pioneer	21	20	20	19	19	18	18	18	19	19	20	20	21	22	22	24	27	30	32	32	32	32	34	34	33	33	33	32	32	33	33	802
Canyon County	65	82	88	72	66	60	65	69	69	69	68	68	63	63	61	62	63	64	65	65	67	70	74	74	74	76	77	76	75	74	69	2154
Caldwell High Line	63	64	64	64	58	63	75	63	63	58	58	58	63	52	52	50	49	49	52	60	71	75	75	75	23	75	75	75	23	63	25	1988
Farmers Cooperative	333	333	344	109	128	128	124	124	138	138	138	163	163	200	228	239	269	269	292	346	367	367	367	360	353	366	363	367	374	374	380	8244
Canyon	8	8	9	9	11	12	12	12	14	14	14	15	17	17	17	17	17	16	16	16	15	15	14	14	14	15	15	15	15	15	16	436
Seibenberg	14	14	13	13	13	12	11	11	11	12	12	10	10	8	7	8	9	9	11	11	13	15	16	16	17	17	16	16	15	15	14	389
Riverside No.2	212	28	170	200	206	192	164	206	0	0	173	181	188	206	192	220	195	206	208	212	209	206	188	220	206	220	193	202	206	206	200	5636
Pioneer Dixie	13	14	14	18	21	24	23	26	26	26	22	19	19	18	17	29	29	30	30	31	32	34	36	36	36	35	34	33	32	30	28	815
Eureka No.2	54	50	47	44	38	34	32	33	33	34	34	35	35	36	37	39	42	45	48	57	58	62	67	66	64	62	60	59	57	55	53	1467
Upper Center Point	16	16	15	15	15	14	15	16	17	17	16	15	13	13	12	12	14	14	16	16	17	19	20	20	20	19	17	15	15	15	17	493
Lower Center Point	3	4	4	5	3	3	4	4	4	4	4	4	4	4	4	5	5	6	6	6	6	8	8	8	6	6	6	8	9	8	10	175
Boise River at Notus	5300	4980	4910	5230	3920	2910	2460	1860	1620	1450	1280	1280	1450	1140	1140	1140	1010	1010	890	1450	3910	4450	5230	5780	4700	4980	5780	5500	3500	9000	6620	108050
Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
Total	10016	9369	9473	9453	9173	7286	6848	6220	5879	5573	5581	5728	5447	5690	5776	5841	5724	5795	5656	6326	8693	9496	10274	10824	9715	10019	10780	10559	10580	14072	11692	253006

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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
U.S.R.S.	2123	2123	2123	2123	2123	2143	2163	2163	2163	2163	2163	2163	2163	2163	2163	2163	2163	2163	2163	2163	2163	2163	2163	1805	1776	1757	1805	1853	1853	1853	62231
New York Stock	277	277	277	277	277	277	277	279	277	277	277	272	272	272	272	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
Penitentiary	15	15	10	10	10	9	9	9	10	10	12	11	16	16	11	12	12	12	12	12	14	9	9	9	9	9	8	6	6	5	310
Ridenbaugh	392	392	392	403	402	402	397	397	362	268	382	398	393	392	385	395	385	392	400	400	392	400	392	385	397	400	405	398	400	400	11708
Bubb	20	18	16	15	15	15	15	15	15	15	13	14	12	12	14	14	17	20	18	16	14	14	13	12	12	13	14	15	16	15	429
Cruzen	80	80	79	79	78	76	74	73	72	71	71	72	72	74	74	73	73	78	25	76	76	76	78	76	78	76	76	78	80	78	2268
Boise City No. 1	8	9	9	9	10	10	11	11	12	12	11	10	10	8	8	8	9	9	9	10	11	10	9	10	10	10	9	8	10	11	291
Settlers	180	180	179	179	178	177	176	176	169	156	163	155	166	162	171	171	171	171	171	171	171	172	172	173	173	173	173	172	171	170	5130
Thurman Mill	38	37	36	36	35	34	32	30	30	30	29	29	29	30	31	31	27	28	28	29	29	30	31	30	30	29	28	26	30	32	924
Farmers Union + B.V.	198	225	218	218	225	223	223	223	187	206	198	198	198	198	198	198	198	198	198	203	203	203	203	203	203	202	198	198	198	198	6140
Little Union	18	18	20	20	18	16	14	10	12	8	6	6	6	6	8	8	8	7	8	9	9	9	11	10	12	14	14	14	15	16	350
Dry Creek	60	62	64	65	61	56	53	52	49	46	43	43	44	44	46	46	48	48	50	52	52	54	54	54	56	56	56	56	58	58	1590
Ballantine	15	15	14	14	14	14	12	12	16	16	16	14	14	14	12	12	12	10	12	12	12	11	12	14	15	16	16	15	15	16	414
7 Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1910
Middleton Water Co.	90	84	93	95	100	93	95	44	93	48	20	59	48	75	73	75	75	76	75	72	66	72	78	77	80	80	82	92	92	91	2344
Middleton Mill Ditch	43	26	43	47	43	46	46	37	29	8	8	12	47	61	66	70	70	70	65	62	56	64	71	69	90	91	70	71	67	63	1631
Phyllis	443	443	444	442	442	442	442	442	357	300	296	457	395	409	425	425	444	448	405	420	406	409	439	410	408	406	405	449	449	447	12546
Eureka No. 1	27	27	26	28	28	28	28	28	28	28	30	31	31	31	30	30	26	22	21	20	20	17	16	16	18	20	21	21	21	23	741
Pioneer	32	32	33	34	30	26	22	18	18	16	15	13	13	10	14	14	16	16	18	18	18	20	20	23	23	26	26	28	26	25	646
Canyon County	65	61	57	59	62	65	63	61	54	57	55	51	51	55	59	58	56	54	52	50	53	57	55	51	50	48	53	58	64	70	1709
Caldwell High Line	57	39	49	43	42	42	42	46	38	26	24	22	16	12	12	13	11	6	11	29	19	32	0	26	49	57	61	63	63	63	1063
Farmers Cooperative	367	329	367	329	346	367	378	380	377	350	367	366	344	344	345	374	349	333	283	272	262	250	242	278	200	198	199	199	266	252	9407
Canyon	16	16	17	17	16	16	16	16	16	15	15	15	15	14	14	15	16	14	14	14	16	16	16	16	15	15	14	14	13	14	455
Seibenberg	14	13	13	11	10	9	9	9	9	9	9	8	8	8	7	6	3	3	3	3	7	7	6	6	6	6	7	8	10	11	238
Riverside No. 2	200	196	202	196	196	200	200	195	170	170	170	192	180	173	173	172	168	176	176	177	177	177	178	176	178	180	182	184	186	190	5492
Pioneer Dixie	27	26	26	20	15	9	9	9	10	12	12	14	17	16	16	14	12	8	8	8	10	10	12	13	13	13	12	10	10	8	399
Eureka No. 2	53	51	49	47	47	45	49	53	48	48	48	45	43	42	40	40	37	34	34	34	34	34	35	36	34	33	33	31	31	29	1219
Upper Center Point	15	13	13	11	10	8	8	8	8	10	10	10	10	9	9	8	8	9	9	9	9	9	9	8	8	8	7	5	7	9	11	276
Lower Center Point	10	12	12	11	5	1	1	1	2	2	4	4	4	6	6	4	3	2	2	2	2	4	4	7	9	9	9	10	10	10	170
Boise River at Notus	3670	3430	3920	3670	1280	1010	1280	1280	1010	800	780	610	610	380	320	220	170	140	145	70	70	45	45	45	45	40	20	25	25	27	25682
Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	930
Total	8631	8374	8874	8631	4696	5939	6224	6202	5124	4325	5325	5374	5301	5122	5090	5024	4949	4899	4820	4768	4726	4729	4727	4425	4452	4338	4356	4463	4549	4541	166433

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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
U.S.R.S.	1853	1911	1966	1966	1966	1999	1998	1998	1998	1998	2044	1919	2144	2164	1999	2134	2180	2082	2250	2230	2124	2124	2063	1962	1962	1857	1857	1857	1805	1805	1805	62099
New York Stock	277	219	164	164	164	131	131	131	131	131	131	131	81	81	81	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2279
Penitentiary	6	6	2	2	2	2	8	14	14	16	20	15	16	18	11	13	8	8	7	4	9	11	11	12	16	10	10	14	11	11	15	319
Aidenbaugh	405	403	403	398	398	403	400	403	382	363	372	337	318	328	330	328	326	328	330	329	352	352	350	352	353	350	336	313	352	352	352	11098
Bibb	14	14	12	13	15	15	14	15	16	14	12	11	10	5	5	6	3	3	4	4	4	3	4	6	3	4	3	4	5	6	6	263
Gruzen	76	75	73	69	65	65	77	73	72	72	70	81	82	85	72	81	72	82	77	73	73	75	77	76	71	82	73	73	81	82	77	2332
Boise City No. 1	11	12	12	12	11	11	9	7	9	8	9	10	10	11	11	10	10	9	9	9	9	10	10	10	9	7	5	7	9	6	7	291
Settlers	167	165	163	161	145	142	142	132	132	123	122	121	107	106	110	110	110	110	110	102	115	112	110	98	98	107	107	66	107	101	107	3714
Thurman Mill	34	33	33	31	28	28	27	26	36	24	41	32	24	28	24	27	24	24	23	23	23	23	22	22	22	22	21	21	21	21	21	807
Farmers Union + B.V.	198	198	195	162	162	146	146	146	146	127	127	117	177	177	177	177	177	177	120	118	116	116	116	45	44	43	61	58	60	62	64	3888
Little Union	16	17	18	18	13	18	20	17	2	10	9	8	4	4	4	4	6	6	6	6	6	5	3	3	3	4	5	5	6	6	6	258
Dry Creek	57	60	61	60	54	60	59	39	38	39	41	41	33	33	33	33	33	33	33	33	17	33	33	33	33	33	33	28	35	33	33	1220
Ballantine	13	10	10	10	11	11	11	10	10	10	9	9	9	9	8	8	8	10	10	10	9	9	9	11	11	10	11	12	12	11	12	313
Eagle Island Canals	47	47	47	47	47	47	47	35	35	35	35	35	28	28	28	28	28	28	28	20	28	28	28	28	28	28	28	28	28	28	28	1036
Middleton Water Co.	93	92	91	82	80	85	77	78	38	77	75	69	38	38	33	72	69	69	70	68	68	69	72	69	61	54	75	61	53	78	74	2219
Middleton Mill Ditch	63	64	64	62	63	61	66	53	52	53	52	41	40	40	39	24	40	43	40	41	38	37	36	35	31	30	17	5	2	10	27	1269
Phyllis	448	447	447	446	432	418	301	418	411	411	398	375	376	343	336	352	337	318	313	298	399	341	333	292	267	243	284	264	206	203	197	10649
Eureka No. 1	22	23	23	24	23	22	16	22	23	23	22	22	12	12	12	18	18	13	13	13	13	14	19	16	16	13	13	6	6	9	13	514
Pioneer	28	28	29	24	27	24	32	29	30	30	27	26	20	16	22	3	22	23	23	23	18	23	19	18	23	24	20	16	11	11	12	678
Canyon County	66	61	57	55	53	51	50	48	66	66	63	61	54	57	57	57	56	56	57	58	58	57	56	54	53	50	50	47	44	41	38	1701
Caldwell High Line	61	60	0	0	0	0	0	0	0	0	20	31	32	37	41	45	52	54	54	54	52	47	0	26	32	32	32	37	37	32	30	898
Farmers Cooperative	303	300	279	255	273	226	242	246	216	226	187	184	163	163	139	110	117	125	132	139	135	153	196	125	153	126	130	137	130	122	126	5608
Canyon	14	17	12	6	14	14	11	8	8	8	7	7	8	6	7	7	8	8	9	9	10	16	14	14	10	8	8	7	7	7	7	296
Sethenberg	13	14	19	21	24	21	25	26	16	22	12	12	11	9	5	4	4	4	10	14	9	15	10	4	4	4	4	4	4	4	4	357
Riverside No. 2	195	193	192	204	214	200	206	201	200	210	197	203	145	86	86	198	92	150	134	128	126	123	126	127	127	125	123	114	134	120	119	4798
Pioneer Dixie	2	10	16	10	22	13	13	19	18	10	19	19	22	23	23	27	22	23	23	11	8	2	16	29	30	13	12	14	15	10	12	522
Eureka No. 2	28	28	28	28	31	23	30	36	36	28	27	28	27	25	26	28	23	23	28	32	45	58	55	53	42	33	23	17	16	16	27	948
Upper Center Point	14	13	13	2	3	9	9	9	13	16	15	11	14	15	13	10	10	11	10	18	13	14	13	12	11	8	5	5	4	4	6	323
Lower Center Point	9	9	9	3	2	2	2	10	10	10	10	10	9	9	6	5	6	7	7	7	10	11	11	11	10	9	8	7	6	6	6	237
Boise River at Natus	27	27	50	50	48	40	42	16	32	25	20	22	18	19	17	18	18	16	15	20	18	17	20	16	15	14	15	16	14	18	15	718
Miscellaneous	31	31	31	31	31	31	31	23	23	23	23	23	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	674
Total	4591	4572	4532	4416	4420	4308	4243	4209	4254	4268	4221	4091	4085	4016	3943	4018	3899	3801	3961	3918	3923	3918	3774	3625	3546	3379	3387	3262	3241	3243	3307	122326

AUG 19

AUGUST

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
U.S.R.S.	1796	1744	1749	1749	1749	1725	1725	1497	1497	1520	1520	1520	1520	1520	1542	1542	1542	1542	1542	1050	1050	994	997	1000	318	300	274	252	243	252	252	37528
New York Stock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penitentiary	8	8	8	7	7	7	7	10	10	10	7	10	7	7	7	7	7	7	7	10	7	7	11	7	7	4	2	3	3	3	3	220
Tidenbaugh	312	318	358	244	242	242	280	295	293	263	288	290	235	257	275	288	288	295	285	276	337	330	321	307	262	251	235	235	102	102	102	8276
Bubb	6	7	8	7	6	6	5	7	6	6	5	5	6	5	8	5	6	7	8	7	6	8	9	6	4	4	4	5	6	3	5	186
Cruzen	83	77	73	77	77	81	78	77	76	75	73	72	73	56	28	27	27	50	51	52	28	70	75	72	69	73	72	72	73	75	74	2083
Boise City No. 1	9	10	10	10	9	9	9	8	7	6	6	5	6	7	7	7	12	15	14	14	13	13	14	10	5	5	0	0	5	5	5	255
Settlers	104	102	100	96	96	98	99	101	101	101	100	106	35	61	65	66	65	66	66	65	64	63	62	61	60	59	58	46	58	58	58	2340
Thurman Mill	21	21	20	20	20	20	20	20	19	19	19	19	19	19	18	18	18	19	19	19	19	19	19	20	20	21	21	21	21	21	21	610
Farmers Union B.V.	113	113	112	112	112	112	111	111	111	156	38	130	137	138	138	137	135	132	129	126	123	120	53	53	52	52	51	60	50	49	49	3105
Little Union	6	6	6	6	6	6	6	6	9	9	9	9	7	9	9	9	9	9	8	8	8	8	8	8	7	5	3	4	4	4	11	226
Dry Creek	33	33	33	33	33	33	33	33	33	0	0	0	36	52	52	49	42	36	0	36	35	33	33	33	33	33	33	33	33	33	33	965
Ballantine	12	12	13	14	12	12	12	10	10	11	12	12	12	11	11	10	8	8	8	8	8	8	9	9	9	8	7	7	7	7	8	305
7 Eagle Island Canals	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	868
Middleton Water Co.	68	68	70	69	68	68	62	62	54	23	24	41	41	46	48	66	61	77	77	75	68	61	53	61	51	41	48	28	36	41	45	1703
Middleton Mill Ditch	45	50	52	55	53	54	54	49	46	24	35	35	33	49	49	50	50	55	53	52	48	49	40	43	37	28	33	19	24	29	40	1331
Phyllis	203	241	323	348	342	335	295	293	263	225	284	264	228	224	193	242	228	250	231	246	233	205	187	226	196	164	153	124	140	132	132	7155
Eureka No. 1	17	22	17	21	22	20	18	15	16	17	24	24	18	18	22	26	26	35	25	24	23	23	28	27	19	24	9	5	5	13	13	615
Pioneer	18	18	18	15	14	15	18	18	17	18	20	21	20	19	20	21	21	22	17	13	15	16	16	15	14	14	14	13	15	18	16	529
Canyon County	41	44	48	51	54	42	47	42	30	47	45	41	38	38	40	40	42	42	41	42	43	40	43	40	36	36	34	37	34	35	35	1287
Caldwell High Line	29	53	57	54	53	50	44	30	30	24	32	43	28	28	28	33	32	42	41	41	41	40	39	42	42	37	30	28	28	28	28	1155
Farmers Cooperative	122	126	146	160	190	190	172	154	136	130	124	114	100	118	112	123	112	126	112	118	118	115	103	103	102	102	101	100	98	98	97	3817
Canyon	8	10	12	12	16	20	21	20	19	18	12	14	15	16	16	12	11	10	9	9	9	9	10	8	9	9	9	9	9	9	9	379
Seibenberg	5	9	15	22	20	22	24	19	8	6	6	19	21	14	7	7	7	6	6	6	7	9	11	11	15	13	9	5	6	7	7	349
Riverside No. 2	114	115	104	106	110	114	118	124	120	142	137	133	121	109	100	96	96	96	95	93	91	89	87	85	85	85	83	81	80	80	80	3165
Pioneer Ditch	7	10	10	12	12	11	11	12	12	12	14	16	17	19	19	18	17	16	16	16	15	14	11	11	12	13	13	13	13	13	13	418
Eureka No. 2	28	36	32	42	42	43	37	30	28	27	25	21	36	43	30	35	35	34	33	37	34	32	34	36	38	40	35	29	30	31	36	1045
Upper Center Point	8	9	9	10	10	11	8	6	6	5	4	3	5	7	7	5	6	6	7	7	7	7	6	8	9	9	9	9	11	12	12	238
Lower Center Point	6	6	6	8	9	10	10	9	8	8	7	6	8	8	7	6	6	6	6	6	6	6	6	7	8	8	9	9	9	9	9	232
Boise River at Notus	15	18	20	22	25	24	20	19	18	18	18	18	18	19	19	17	18	16	16	16	16	15	15	16	17	17	18	17	17	18	17	337
Miscellaneous	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	558
Total	3321	3387	3475	3429	3455	3426	3387	3185	3049	2966	2939	3037	2906	2965	2923	3006	2972	3067	2980	2518	2565	2449	2346	2370	1500	1498	1419	1295	1206	1238	1251	81300

A.M.T. 19

SEPTEMBER

No.	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
1	U.S.R.S.	252	252	252	252	296	303	303	303	303	303	303	303	718	96	70	70	74	165	252	252	252	230	252	150	150	60	150	150	150	150	6256
2	New York Stock	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
3	Ridenbaugh	98	98	115	113	113	113	111	113	139	135	135	147	173	120	170	169	164	167	163	163	163	170	162	170	170	164	165	170	167	173	4450
4	Penitentiary	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	110
5	Bubb	4	4	3	3	3	3	4	4	4	4	4	4	3	3	3	4	4	3	4	4	3	0	4	4	3	3	4	4	4	3	104
6	Gruzen	73	72	67	79	74	67	68	71	73	63	36	39	73	78	83	76	75	73	76	73	70	68	72	72	73	73	73	74	74	75	2115
7	Boise City No. 1	9	9	9	10	12	14	14	13	14	14	14	14	14	13	12	12	13	12	10	8	5	2	4	6	8	8	7	7	6	5	298
8	Settlers	65	65	65	65	65	65	65	65	63	61	67	67	67	67	67	67	67	67	67	74	61	71	51	51	66	71	71	71	71	71	1976
9	Thurman Mill	20	19	18	18	18	18	17	16	15	13	13	13	12	12	10	8	6	6	0	0	0	0	0	0	0	0	0	0	0	0	252
10	Farmers Union B.V.	52	51	50	48	46	44	42	40	67	66	80	80	80	80	80	80	20	20	20	20	20	20	20	20	20	20	20	20	20	20	1266
11	Little Union	14	14	11	2	2	6	6	5	5	5	5	5	5	5	5	5	5	2	2	2	2	2	2	2	4	4	4	4	4	4	143
12	Dry Creek	33	33	33	33	33	33	32	32	30	29	29	30	29	28	27	23	34	32	23	31	31	17	29	30	31	30	29	27	25	23	879
13	Ballantine	7	6	6	6	8	8	8	9	10	10	10	11	11	12	12	12	14	12	12	10	8	8	8	8	7	7	7	6	6	6	265
14	Eagle Island Canals	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	840
15	Middleton Water Co.	52	50	49	41	37	40	48	51	48	48	41	34	35	36	36	30	24	25	25	24	22	20	20	21	21	20	21	20	20	20	979
16	Middleton Mill Ditch	48	48	43	41	37	39	44	51	47	43	38	33	35	37	37	27	35	42	40	28	17	8	0	0	10	6	4	4	4	4	850
17	Phyllis	132	125	107	96	118	120	128	138	132	140	143	143	143	143	143	135	160	178	169	176	176	175	143	143	143	143	143	143	127	143	4288
18	Eureka No. 1	16	12	10	9	15	17	20	24	22	22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	207
19	Pioneer	15	14	12	12	13	13	13	13	11	8	4	4	5	6	7	8	5	0	0	0	0	0	0	0	0	0	0	0	0	0	163
20	Canyon County	35	34	34	33	34	32	30	30	30	28	26	26	28	30	30	26	28	28	26	6	6	5	5	5	5	4	4	4	4	4	620
21	Caldwell High Line	28	29	29	29	30	30	30	30	29	29	28	28	28	28	26	26	26	26	24	24	24	22	22	22	20	20	20	21	21	19	768
22	Farmers Cooperative	97	102	102	130	102	102	106	112	126	130	130	136	128	128	118	114	138	172	187	197	184	175	166	157	148	146	152	154	152	146	4139
23	Canyon	8	8	8	13	9	10	11	13	16	16	16	12	12	12	9	6	7	9	8	8	7	7	7	5	5	5	6	7	7	8	274
24	Seibenberg	7	7	7	7	7	7	8	8	8	8	8	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	121
25	Riverside No. 2	79	79	88	84	90	110	110	100	98	99	100	101	101	101	101	101	101	103	106	109	112	107	103	105	106	104	102	101	104	108	3013
26	Pioneer Dixie	16	11	16	16	12	8	9	11	11	10	9	10	10	10	10	10	10	10	10	13	11	11	10	10	9	8	8	8	5	8	313
27	Eureka No. 2	28	28	28	34	30	27	30	33	36	35	34	32	30	30	28	18	26	26	41	29	27	25	23	22	22	22	22	23	23		844
28	Upper Center P.	8	8	8	9	9	8	7	7	6	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	2	2	2	157
29	Lower Center P.	9	9	10	10	10	11	11	11	7	5	5	4	3	3	3	3	2	2	2	4	4	5	5	6	6	7	7	6	4	4	178
30	Boise River at Notus	17	18	17	19	20	20	20	22	23	35	36	35	18	20	22	24	35	31	60	55	37	33	33	35	33	33	32	33	35	35	890
31	Miscellaneous	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	540
	Total	1272	1255	1247	1262	1293	1318	1345	1375	1443	1416	1371	1370	1220	1157	1168	1123	1137	1272	1406	1369	1299	1240	1200	1101	1117	1107	1106	1114	1091	1107	37298

AUG. 79.

TRIBUTARY AND RETURN FLOW TO BOISE RIVER DURING IRRIGATION SEASON 1919.

CHART 6.

APRIL

No.	Name of Tributary	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
1	Cottonwood Creek	102	95	87	76	66	48	30	33	36	39	42	45	48	53	56	59	62	65	65	65	65	61	57	53	49	45	41	37	33	31	1645
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
3	Boise Valley Waste	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	2	2	3	4	4	37
4	Ballantine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	7	7	7	7	7	7	50
5	Dry Creek Waste	48	45	42	39	36	33	30	29	27	26	26	24	23	23	23	22	21	21	20	20	19	19	19	19	19	19	19	19	19	19	768
6	Phyllis Slough	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	5	5	5	4	4	4	4	4	5	5	5	5	151
7	Fire Mile Creek	88	125	152	25	20	14	13	14	60	112	157	43	32	100	123	111	103	44	70	42	44	28	6	6	6	14	14	44	29	22	1761
8	Middleton Mill Slough	29	29	30	31	36	31	25	30	34	18	25	24	26	25	34	24	26	27	25	35	25	20	17	15	14	40	26	43	45	33	813
9	Mason Creek	9	9	9	10	10	9	9	9	9	9	10	10	11	6	6	7	6	7	8	9	9	10	15	16	17	19	16	19	10	13	311
10	Mason Drain	26	27	27	28	28	28	27	27	25	33	34	34	35	28	28	27	29	29	29	29	28	27	29	29	29	35	35	66	36	68	977
11	Indian Creek	104	94	94	173	187	153	173	189	157	163	173	193	206	225	173	170	167	180	173	153	141	112	120	78	78	103	110	116	117	117	4378
12	Dixie Drain	11	11	11	12	12	12	12	12	11	11	11	11	10	10	10	10	11	11	11	11	12	12	12	12	11	11	10	10	11	11	333
	Total	431	419	466	408	409	342	337	357	398	425	491	502	426	433	446	435	443	396	386	367	357	322	287	249	244	307	313	372	324	335	11464

MAY

No.	Name of Tributary	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
1	Cottonwood Creek	29	28	27	27	26	26	26	25	25	25	24	24	24	23	22	22	22	22	21	21	31	20	20	20	20	21	21	21	21	20	21	776
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3	Boise Valley Waste	3	3	3	2	2	1	1	1	1	2	2	3	3	4	5	6	6	6	7	7	7	7	6	6	6	5	5	5	4	6	6	130
4	Ballantine	10	10	10	11	12	13	13	13	14	14	14	14	15	15	16	16	14	12	10	12	12	16	16	17	17	17	17	16	16	16	15	433
5	Dry Creek Waste	10	0	0	1	1	2	2	2	2	4	4	6	6	8	10	12	4	6	7	3	3	4	4	5	7	8	9	10	11	12	14	176
6	Phyllis Slough	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	3	3	3	4	4	4	4	4	5	5	5	5	141
7	Fire Mile Creek	1	58	67	67	74	90	67	71	65	104	133	113	95	60	22	14	50	60	58	56	37	22	15	22	29	27	52	22	36	52	69	1813
8	Middleton Mill Slough	20	21	30	60	37	30	53	69	25	76	98	86	68	70	75	70	18	19	30	51	29	91	120	113	91	115	88	82	72	57	101	2054
9	Mason Creek	27	31	38	39	40	43	44	14	14	12	12	12	12	16	17	18	13	13	12	21	17	26	30	38	45	42	37	38	38	38	38	906
10	Mason Drain	65	65	67	69	70	71	72	74	84	89	105	89	67	84	80	76	84	76	76	74	72	71	73	94	84	89	69	88	84	84	84	2444
11	Indian Creek	118	118	119	120	114	109	185	200	165	163	103	100	101	183	90	94	107	123	115	138	89	103	117	132	136	133	123	137	141	143	141	3841
12	Dixie Drain	11	12	12	12	13	13	13	13	14	14	14	14	14	14	15	15	15	14	14	15	15	15	15	16	16	16	16	17	17	17	17	448
	Total	307	359	386	420	426	413	419	495	410	476	522	474	418	490	365	356	350	365	367	420	317	377	424	467	456	483	354	439	478	476	539	13250

JUNE

No.	Name of Tributary	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
1	Cottonwood Creek	22	22	23	21	22	22	23	23	23	23	22	22	21	20	20	18	18	18	17	17	17	18	18	20	20	20	21	21	21	22	614
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
3	Boise Valley Waste	6	5	3	4	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	4	4	5	5	6	6	6	8	88
4	Ballantine	15	15	14	14	14	14	12	12	16	16	16	14	14	14	12	12	12	12	12	12	12	11	12	14	15	16	16	15	15	14	418
5	Dry Creek Waste	20	20	22	25	24	23	22	20	18	16	16	14	14	12	12	10	8	6	6	4	4	2	2	2	2	2	2	2	2	2	329
6	Phyllis Slough	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	5	5	5	5	5	189
7	Fire Mile Creek	83	92	86	60	71	78	169	131	94	30	44	52	55	30	87	36	34	29	29	36	29	22	101	40	19	20	33	29	33	32	1717
8	Middleton Mill Slough	99	92	59	58	72	26	80	109	93	66	53	46	32	48	52	64	69	71	79	78	73	51	59	55	64	63	71	70	77	98	2087
9	Mason Creek	60	70	70	64	77	60	68	60	52	44	52	45	38	37	29	17	12	8	6	5	4	4	13	18	13	16	15	13	12	11	882
10	Mason Drain	80	130	104	103	117	130	112	109	108	130	125	118	130	121	117	84	130	117	115	106	117	92	80	86	84	90	90	90	90	92	3265
11	Indian Creek	173	170	166	113	150	150	168	170	172	172	229	216	161	173	176	141	139	145	150	148	145	151	138	155	110	120	131	141	137	133	4674
12	Dixie Drain	17	18	18	18	17	17	17	18	18	18	19	19	19	20	20	20	21	21	21	21	21	20	20	20	19	19	19	20	20	20	575
	Total	590	577	529	477	576	584	684	668	610	530	591	567	505	491	551	469	463	440	430	442	440	398	465	428	377	388	427	424	430	436	15044

ALLEN

EUGENE DIETZGEN Co.

"Dietzgen" CROSS SECTION GRAPH 10 × 10 = 1 INCH

CHART 6A.

JULY

No.	Name of Tributary	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
1	Cottonwood Creek	23	24	24	20	16	16	26	22	26	24	24	30	33	34	32	29	35	33	33	29	27	30	27	31	32	26	27	26	32	34	30	885
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3	Boise Valley Waste	10	11	11	15	11	9	7	5	3	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	103
4	Ballantine	13	10	10	10	11	11	11	10	10	10	9	9	9	9	8	8	8	10	10	10	9	9	9	11	11	10	11	12	12	11	12	313
5	Dry Creek Waste	1	2	2	2	2	2	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	38
6	Phyllis Slough	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	201
7	Five Mile Creek	14	12	12	18	29	14	8	4	5	6	14	14	23	19	15	14	14	14	26	26	25	26	28	4	10	11	3	3	2	1	1	355
8	Middleton Mill Slough	75	69	132	64	86	60	20	64	57	57	48	38	57	51	40	30	28	27	26	23	25	26	27	34	24	20	14	8	8	8	7	1382
9	Mason Creek	10	9	10	10	10	8	9	4	3	3	7	6	4	4	3	3	4	4	5	18	32	41	54	31	25	17	7	13	3	20	11	385
10	Mason Drain	94	103	88	84	101	94	93	94	84	92	90	88	84	84	85	81	78	71	70	68	71	73	68	71	69	70	72	70	68	68	70	2526
11	Indian Creek	139	135	120	135	148	139	142	169	137	140	137	146	146	142	142	122	143	135	137	139	143	146	146	146	132	130	137	132	124	124	124	4364
12	Dixie Drain	20	20	19	19	19	19	19	19	20	22	22	22	19	22	18	18	18	18	19	19	19	19	19	20	20	20	20	20	19	16	19	606
	Total	413	414	412	411	447	386	351	406	360	367	367	374	391	381	357	352	395	324	343	374	388	407	422	365	333	329	318	300	285	322	291	11546

AUGUST

No.	Name of Tributary	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
1	Cottonwood Creek	28	36	34	32	30	32	36	30	32	31	34	28	28	33	32	26	17	9	9	12	23	31	29	28	28	36	31	29	27	32	32	884
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3	Boise Valley Waste	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
4	Ballantine	12	12	13	14	13	12	12	10	10	11	12	12	12	11	11	10	8	8	8	8	8	8	7	9	9	8	7	7	7	7	8	305
5	Dry Creek Waste	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	1	1	1	1	1	1	1	1	1	1	1	1	1	38
6	Phyllis Slough	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	7	7	7	6	6	6	6	7	7	7	6	6	6	6	6	204
7	Five Mile Creek	12	12	25	33	26	20	18	22	14	5	1	16	15	14	14	13	13	14	15	14	12	14	13	13	13	11	10	4	6	7	6	443
8	Middleton Mill Slough	75	75	75	102	51	86	64	64	8	53	46	109	97	90	80	25	32	49	58	133	27	71	66	53	50	38	18	28	28	28	29	1778
9	Mason Creek	22	14	34	28	28	16	17	17	22	21	17	23	21	15	13	17	23	25	21	21	19	17	16	15	17	19	20	17	15	15	17	527
10	Mason Drain	67	69	67	64	63	60	54	57	53	52	50	46	41	41	40	38	38	38	37	33	31	25	25	23	24	42	27	28	32	35	37	1330
11	Indian Creek	132	130	145	138	136	167	139	117	111	127	122	114	116	125	123	121	111	123	118	117	112	105	103	107	105	103	103	103	105	103	101	3734
12	Dixie Drain	20	21	21	21	21	21	21	19	19	19	20	20	20	20	21	21	21	21	22	22	22	18	15	15	20	19	19	19	18	18	19	622
	Total	385	398	431	480	410	431	368	361	292	330	314	413	346	359	342	287	281	294	306	356	270	310	302	286	281	273	253	253	254	258	257	10204

SEPTEMBER

No.	Name of Tributary	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
1	Cottonwood Creek	33	30	30	30	38	37	36	36	34	33	34	35	36	32	28	37	42	52	55	54	57	45	42	45	48	46	44	40	44	42		1202
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		240
3	Boise Valley Waste	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		30
4	Ballantine	7	6	6	6	8	8	8	9	10	10	10	11	11	12	12	12	14	12	12	10	8	8	8	8	7	7	7	6	6	6		265
5	Dry Creek Waste	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	4	4	3	3	3	4	4	4	4	3			61
6	Five Mile Creek	8	10	9	14	9	9	9	6	8	6	7	6	6	6	6	6	8	10	18	28	18	14	28	24	20	28	28	28	29	28		281
7	Middleton Mill Sl.	28	30	30	34	58	58	52	58	52	70	65	60	50	49	36	35	55	56	57	56	50	32	27	24	24	21	21	21	21	21		1258
8	Mason Creek	23	17	17	17	17	19	18	20	18	19	19	18	19	20	14	7	10	12	11	8	8	8	8	6	7	9	12	11	11	11		394
9	Mason Creek Drain	36	37	36	32	37	35	36	37	36	35	34	32	32	35	32	35	36	37	37	37	36	37	42	47	47	46	47	36	35	35		1072
10	Phyllis Slough	5	5	5	6	6	6	6	6	5	5	5	5	6	6	6	6	7	7	7	7	7	7	7	6	6	6	5	6	6	6		180
11	Indian Creek	99	103	106	96	99	103	105	103	108	107	106	107	107	106	105	103	115	111	115	122	116	115	112	112	111	112	112	112	103	103		3238
12	Dixie Drain	20	20	21	21	21	21	21	21	21	22	22	22	22	21	21	21	21	22	22	22	22	23	23	23	23	23	24	24	24	23		657
	Total	261	268	269	316	304	306	301	308	303	319	312	306	299	297	260	272	317	329	342	358	332	306	309	296	295	301	304	301	302	295		9094

TABLE SHOWING RETURN FLOW ACTUALLY FLOWING INTO BOISE RIVER, RETURN FLOW DIVERTED BY PIONEER AND RIVERSIDE IRRIGATION DISTRICTS, AND CANAL REQUIREMENTS IN SECTION TWO OF BOISE RIVER, FOR THE PERIOD JULY 15 TO SEPT. 17 Inc. 1919. DATA IN SEC. FT.

CHART 14.

JULY

	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	Avg.
Available Water at River																																	
Return & Seepage Flow															313	291	289	365	353	362	344	349	344	425	440	339	320	320	329	306	304	5990	352
5 Mile Diverted by Phyllis Canal															24	10	9	8	26	13	26	44	29	22	31	32	34	34	20	34	32	433	26
5 Mile Diverted by Caldwell High Line C.															11	9	9	9	11	11	15	15	18	15	11	11	11	11	15	15	13	210	12
Wilson Slough Diverted by Caldwell High Line															30	14	40	41	42	38	38	39	39	40	40	41	41	42	42	42	38	667	39
Mason Cr. Diverted by Caldwell High Line															12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	204	12
West End Drain at Riverside Canal															31	31	31	31	31	31	29	29	29	30	30	30	30	29	29	29	30	510	30
Total Available Return Flow to Section 2															421	407	390	456	475	467	484	538	541	544	524	465	455	448	447	439	434	8014	471
Canal Requirements 100% 1919 Decree															540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	9180	540
Excess +															-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-
Deficit -															119	133	150	84	65	73	56	2	1	16	16	75	85	92	93	102	106	1166	69

AUGUST

	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	Avg.
Available Water at River																																	
Return & Seepage Flow	312	333	348	381	421	433	422	389	354	364	341	338	334	351	311	316	306	306	295	304	298	292	281	283	293	293	284	271	272	275	272	10078	325
5 Mile Diverted by Phyllis Canal	42	32	37	30	34	34	24	12	12	15	16	20	11	8	8	18	30	19	19	31	31	32	27	28	34	22	22	23	10	8	10	696	22
5 Mile Diverted by Caldwell High Line C	11	11	10	10	10	9	7	7	6	4	7	7	6	6	6	7	6	6	6	6	6	6	6	4	2	2	2	2	2	2	2	184	6
Wilson Slough Diverted by Caldwell High Line	46	45	49	43	42	39	36	37	38	39	39	40	0	34	0	0	35	34	35	35	35	35	36	34	35	35	34	34	34	36	33	1048	34
Mason Cr. Diverted by Caldwell High Line	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248	8
West End Drain at Riverside Canal	30	30	30	30	30	30	30	30	30	29	28	28	28	28	28	28	28	28	29	30	30	30	30	30	28	28	28	28	28	28	28	898	29
Total Available Return Flow to Section 2	449	459	482	502	543	555	524	483	448	459	439	441	392	435	361	377	413	401	392	414	408	403	387	387	400	386	378	366	354	357	353	13152	424
Canal Requirements 100% 1919 Decree	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	16740	540
Excess +	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deficit -	91	81	58	38	5	15	16	57	92	81	101	99	148	105	179	163	127	139	148	126	132	137	153	153	140	154	162	174	186	183	187	3588	116

SEPTEMBER

	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	Avg.
Available Water at River																																
Return & Seepage Flow	248	268	282	320	287	301	306	315	330	342	342	336	308	311	298	291	323														5224	307
5 Mile Diverted by Phyllis Canal	9	10	10	5	5	10	10	10	5	8	5	7	7	9	7	7	7														131	8
5 Mile Diverted by Caldwell High Line	2	2	2	2	3	3	3	2	2	2	2	2	1	1	1	2	2														34	2
Wilson Slough Diverted by Caldwell High Line	31	31	31	31	31	28	27	27	22	22	22	22	22	22	17	17	17														420	25
Mason Creek Diverted by Caldwell High Line	5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8														136	8
West End Drain at Riverside Canal	26	26	28	28	28	28	28	27	27	27	26	26	25	26	25	25	25														430	26
Total Available Return Flow to Section 2	344	375	361	394	362	378	376	389	394	409	405	401	371	376	356	352	382														6395	376
Canal Requirements 100% 1919 Decree	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540														9180	540
Excess +	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														-	-
Deficit -	196	165	179	146	178	162	164	151	146	131	135	139	169	164	184	188	158														2785	164

Average Daily Flow in Second Feet

Period	Available Return Flow	60% Canal Requirement	Excess	Deficit
July 15-31	471	540	157	69
Aug. 1-31	424	540	100	116
Sept. 1-17	376	540	52	164
Mean	424	540	100	116

A.U.T. 19

CHART 12.

TABLE SHOWING NATURAL FLOW OF BOISE RIVER PASSING HIGHLAND AND DELIVERIES TO CANALS BY DAYS, JULY 15 – SEPT. 17, inc. 1919, FOR THE SECTION BETWEEN HIGHLAND AND THE CALDWELL HIGHLINE CANAL.

JULY

	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	Avg.
Natural Flow Boise River Passing Highland															1119	1087	1047	940	914	863	880	835	770	762	747	746	729	747	741	743	753	14431	849
Deliveries to Canals															1390	1318	1308	1031	1165	1188	1259	1019	775	1110	961	1135	990	1147	957	982	1133	18716	1101
Tributary Gain															30	27	43	53	53	74	76	49	46	52	49	46	48	48	54	55	52	844	50
Seepage Gain															221	79	208	38	141	249	325	133	-41	296	146	343	213	402	162	184	328	3441	202
Net Gain Highland to Caldwell High Line															271	206	233	91	194	323	401	182	5	348	195	389	261	450	216	239	380	4285	252

AUGUST

	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	Avg.
Natural Flow Boise River Passing Highland	740	678	642	607	607	627	643	649	666	628	613	628	670	667	624	621	585	593	563	556	546	537	543	522	494	492	482	484	490	502	503	18202	587
Deliveries to Canals	904	764	862	823	874	891	1137	851	940	712	858	1044	872	914	742	722	752	881	795	749	843	759	738	722	846	758	744	723	660	753	686	25429	820
Tributary Gain	50	58	57	58	57	54	58	58	52	51	61	50	50	54	58	46	35	37	34	30	41	49	48	47	47	54	50	46	44	49	50	1511	49
Seepage Gain	114	28	163	358	210	210	436	144	222	32	194	326	152	193	63	153	132	261	198	163	258	173	147	153	51	212	262	193	126	202	133	5716	184
Net Gain Highland to Caldwell High Line	164	86	220	416	267	264	494	202	274	83	245	376	202	247	118	199	167	298	232	193	299	222	195	200	98	266	312	239	170	251	183	7227	233

SEPTEMBER

	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	Avg.
Natural Flow Boise River Passing Highland	502	493	503	511	511	500	504	524	542	546	523	493	470	464	491	523	581														8683	511
Deliveries to Canals	749	742	747	710	741	721	765	818	849	813	694	624	577	846	870	830	814														12908	759
Tributary Gain	50	46	46	46	46	45	54	45	53	53	54	56	57	54	50	59	66														974	53
Seepage Gain	197	203	198	153	174	166	207	239	230	212	117	73	50	328	329	248	167														3371	195
Net Gain Highland to Caldwell High Line	247	249	244	199	220	211	261	284	305	265	171	129	107	382	379	307	233														4225	248

A.U.T. 12

Period	Tributary	Seepage	Total Gain
July 15-31	50	202	252
Aug 1-31	49	184	233
Sept 1-17	53	195	248
Avg 65 days	50	192	242

"Keuffel" CROSS SECTION CLOTH. 10 × 10 = 1 INCH.

CHART 13.

TABLE SHOWING THE AVAILABLE WATER PASSING THE CALDWELL HIGH LINE CANAL AND DELIVERIES TO CANALS BY DAYS JULY 15 TO SEPT. 17, Inc. 1912, FOR THE SECTION BETWEEN THE CALDWELL HIGH LINE CANAL AND NOTUS.

JULY

	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	Avg.
Natural Flow Boise River Passing Caldwell High L.															9	10	11	12	15	16	10	10	47	16	2	1	1	1	1	1	1	164	10
Deliveries to Canals															322	741	300	367	368	378	374	439	481	441	402	340	318	321	330	307	305	6154	362
Tributary Gain															309	305	292	277	290	300	342	358	426	373	307	183	262	260	231	267	239	5083	297
Seepage Gain															*	84	- 3	84	63	62	22	81	- 72	112	93	56	65	60	98	39	65	935	55
Net Gain Caldwell High Line to Notus															313	341	289	355	353	362	364	399	411	425	400	339	327	320	329	306	304	5990	352

AUGUST

	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	Avg.
Natural Flow Boise River Passing Caldwell High Line	1	6	6	13	13	10	1	1	1	2	6	6	2	2	6	2	2	6	4	4	5	4	2	2	2	2	2	1	1	2	2	119	4
Deliveries to Canals	313	339	354	394	434	445	421	390	335	366	347	344	341	353	317	318	308	312	299	308	303	296	283	285	295	295	286	272	278	277	274	10197	329
Tributary Gain	335	340	374	422	353	377	310	303	240	278	263	365	296	305	287	241	244	267	272	326	229	261	254	239	235	239	203	207	210	209	207	8693	280
Seepage Gain	- 23	- 7	- 26	- 41	68	58	110	86	114	86	78	- 27	43	46	24	75	60	39	23	- 22	69	31	27	44	38	54	61	64	62	66	65	1385	75
Net Gain Caldwell High Line to Notus	312	333	348	381	421	435	420	389	354	364	341	338	339	351	311	316	306	306	295	304	298	292	281	283	293	293	284	271	272	275	272	10078	325

SEPTEMBER

	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	Avg.
Natural Flow Boise River Passing Caldwell High Line	1	2	2	2	2	2	2	2	1	1	1	1	1	0	2	0	3														23	1
Deliveries to Canals	269	270	284	322	289	303	302	317	331	343	343	337	309	311	328	293	326														5247	308
Tributary Gain	211	222	223	270	248	251	247	253	248	264	258	250	242	243	241	273	283														4106	241
Seepage Gain	57	46	59	50	39	50	53	62	82	78	84	86	66	68	88	80	70														1118	66
Net Gain Caldwell High Line to Notus	268	268	282	320	287	301	300	315	330	342	342	336	308	311	329	293	328														5224	307

A.U.T.19

Period	Tributary	Seepage	Total Gain
July 15-31	247	65	352
Aug 1-31	280	45	325
Sept 1-17	241	66	307
All 65 days	275	53	328

1920

CHART 6A.

JULY

No.	Name of Tributary	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
1	Cottonwood Creek	6	6	6	6	9	9	9	6	9	10	10	10	10	9	9	8	7	7	6	6	6	6	7	7	7	6	7	7	6	6	6	237
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3	Ballantine Waste	12	12	12	14	14	14	12	12	11	11	11	11	10	10	7	7	7	8	8	12	12	8	8	8	8	9	10	10	10	10	10	316
4	Dry Creek Waste	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	51
5	Phyllis Slough	5	5	4	4	5	6	6	6	6	6	5	4	6	6	6	7	7	7	8	8	9	10	10	9	9	8	8	7	7	7	6	206
6	Five Mile Creek	19	35	40	17	39	27	20	20	15	14	16	19	16	13	8	8	8	10	12	15	18	16	19	16	17	18	21	20	21	24	27	578
7	Middleton Slough	31	31	26	31	31	35	37	31	28	31	43	100	113	113	100	100	86	113	85	75	75	99	95	89	42	31	37	40	37	37	34	1821
8	Mason Creek	45	45	45	44	26	29	23	25	30	36	31	32	38	38	35	31	26	21	26	31	33	33	32	17	14	14	17	17	13	13	9	858
9	Mason Drain	104	96	96	89	87	92	104	63	59	80	61	63	58	59	61	62	65	63	67	77	79	80	86	98	97	92	90	86	88	91	84	2468
10	Indian Creek	187	183	179	180	182	183	185	187	188	189	190	191	186	211	195	192	186	200	215	178	180	180	183	177	176	174	170	165	161	166	173	5692
11	Dixie Drain	29	29	29	29	29	29	29	25	30	26	26	26	26	28	28	30	30	28	28	28	34	30	30	32	36	37	36	34	32	36	36	945
	Total	459	453	448	425	420	433	434	384	384	406	402	464	474	495	460	458	430	468	465	440	456	470	484	473	416	399	395	389	390	399	394	13420

AUGUST

No.	Name of Tributary	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
1	Cottonwood Creek	6	7	7	7	6	6	6	6	7	8	7	7	8	8	7	6	6	6	6	6	6	5	6	5	5	7	7	7	5	5	6	196
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3	Ballantine Waste	10	10	10	9	9	9	9	8	8	8	8	6	6	6	6	6	7	7	6	7	7	7	9	9	8	9	8	9	9	9	9	298
4	Dry Creek Waste	1	3	3	2	2	2	2	2	3	3	3	3	2	2	2	3	3	3	1	1	1	1	1	1	1	1	1	3	3	3	2	64
5	Phyllis Waste	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	5	5	5	6	6	6	8	8	9	10	10	10	10	9	192
6	Five Mile Creek	26	27	28	24	25	24	25	25	22	22	42	65	41	32	22	22	22	22	23	20	18	14	13	18	19	20	23	23	16	17	18	760
7	Middleton Slough	41	25	27	19	20	19	15	16	16	16	13	16	16	16	15	16	17	20	23	24	37	50	50	65	54	54	50	54	54	101	68	1030
8	Mason Creek	7	7	7	9	14	15	20	24	21	17	16	17	18	16	14	14	12	12	13	17	9	10	12	13	14	15	17	20	21	20	19	460
9	Mason Drain	88	79	89	92	86	82	102	80	72	74	72	75	63	65	61	56	58	56	63	58	61	63	63	65	63	67	70	75	72	67	68	2205
10	Indian Creek	170	167	194	192	144	155	144	142	139	145	138	148	158	168	160	154	145	147	150	145	145	146	146	150	153	153	160	163	166	169	172	4828
11	Dixie Drain	36	24	31	31	36	32	32	32	32	33	32	29	29	28	29	28	28	28	28	28	27	28	28	28	28	28	28	28	28	28	26	911
	Total	399	363	416	399	356	357	368	348	332	337	344	379	353	353	328	317	310	314	326	319	325	340	341	368	366	371	382	400	392	437	405	11142

SEPTEMBER

No.	Name of Tributary	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
1	Cottonwood Creek	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	7	7	7	6	6	6	6	6	6	6	6	6	6	6		207
2	Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		240
3	Ballantine Waste	6	8	8	10	9	9	9	7	8	8	8	10	12	12	12	10	12	11	9	7	7	7	7	7	7	7	8	9	9	9		264
4	Dry Creek Waste	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	3	3	3	3	3	5	5	7	7	7	6	6	6		91
5	Phyllis Slough	9	8	8	8	8	7	7	7	8	8	8	7	7	8	9	8	8	8	7	7	7	7	7	6	6	6	6	6	5	5		217
6	Five Mile Creek	19	22	24	24	30	18	18	16	17	19	25	25	14	17	18	18	18	18	18	18	17	17	17	17	17	18	15	13	13	13		566
7	Middleton Slough	55	31	35	35	55	34	35	49	67	77	77	80	81	77	92	67	61	57	67	116	111	105	95	77	67	62	57	62	57	54		1969
8	Mason Creek	18	15	15	10	7	7	7	7	4	5	16	16	10	14	15	15	16	17	18	18	14	9	9	8	9	7	6	4	3	1		316
9	Mason Drain	69	65	62	56	52	48	49	48	50	46	48	48	50	50	46	49	48	46	46	46	49	45	50	52	47	46	44	44	42	41		1481
10	Indian Creek	170	169	168	167	165	163	161	160	158	156	154	152	150	149	147	145	144	143	141	140	138	137	138	136	136	136	135	134	133	132		7457
11	Dixie Drain	26	29	24	25	26	24	27	24	24	24	24	25	25	25	25	24	24	24	24	24	21	20	20	20	21	21	21	20	20	20		700
	Total	389	364	361	352	348	327	325	335	353	360	377	380	366	370	381	353	347	342	348	393	378	370	362	342	321	324	316	317	307	300		10508

Plotted by Checked by Date

TRIBUTARY AND RETURN FLOW TO BOISE RIVER DURING IRRIGATION SEASON 1920.

CHART C

APRIL

No. Name of Tributary	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
1 Cottonwood Creek	80	82	82	80	80	80	82	82	82	82	80	81	81	81	81	81	81	80	81	82	78	74	70	67	64	61	70	65	60	62	2292
2 Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
3 Ballantine Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	8	8	0	9	9	0	0	0	0	0	0	0	64
4 Dry Creek Waste	47	46	46	46	38	38	36	36	40	42	42	42	40	40	40	35	35	40	40	42	46	46	41	37	36	33	28	21	20	20	1129
5 Phyllis Slough	11	11	11	12	12	12	8	8	5	8	10	10	10	11	11	11	12	12	12	11	11	10	10	10	11	12	9	7	5	5	301
6 Five Mile Creek	70	65	4	2	3	70	76	46	17	52	57	19	65	56	71	58	47	53	60	66	60	58	58	61	61	62	60	56	62	19	1475
7 Middleton Slough	16	16	16	16	16	16	16	16	16	16	16	16	11	10	15	17	16	10	16	10	10	10	6	6	6	6	6	6	39	39	422
8 Mason Creek	1	2	2	2	2	2	3	2	2	3	4	5	3	3	4	3	4	4	4	5	8	9	12	12	11	13	13	14	15	16	185
9 Mason Drain	23	26	22	21	22	21	24	24	21	23	21	19	21	19	17	16	16	15	15	15	10	12	13	12	14	13	11	13	15	16	524
10 Indian Creek	89	90	91	92	93	95	96	64	173	150	104	104	104	127	140	107	103	103	103	104	154	150	130	120	110	100	96	95	94	93	3027
11 Dixie Drain	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	13	15	13	13	13	14	14	14	13	13	281
Total	353	354	290	287	282	356	350	299	375	392	350	316	341	363	407	401	387	390	389	402	413	372	370	346	339	324	306	289	298	270	10430

MAY

No. Name of Tributary	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
1 Cottonwood Creek	53	45	40	40	40	36	36	30	30	32	32	30	26	26	26	26	24	24	24	24	24	23	23	23	23	22	22	22	22	22	20	888
2 Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
3 Ballantine Waste	0	6	6	6	4	4	4	5	5	7	7	7	8	9	9	9	9	6	6	6	5	5	5	7	7	7	9	9	11	12	12	225
4 Dry Creek Waste	5	4	2	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	3	1	1	1	1	2	2	2	1	1	1	58
5 Phyllis Slough	6	6	7	7	8	8	8	8	8	8	7	7	7	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	215
6 Five Mile Creek	20	58	58	58	63	28	27	27	53	39	20	22	54	63	59	63	59	40	65	138	95	64	21	21	22	36	29	32	36	42	138	1550
7 Middleton Slough	18	67	39	26	25	26	74	215	201	182	182	181	182	179	182	135	122	122	163	142	36	95	52	44	48	57	111	95	96	95	83	3305
8 Mason Creek	16	18	13	16	19	20	23	19	15	16	11	12	19	27	16	16	16	16	17	17	16	18	29	28	24	25	20	16	16	17	18	569
9 Mason Drain	16	21	19	27	27	40	36	46	56	44	48	46	41	61	61	68	70	68	61	63	67	61	56	64	65	59	68	84	92	68	76	1781
10 Indian Creek	92	91	92	93	92	92	92	90	160	233	158	148	128	98	130	141	193	145	147	160	162	154	136	135	161	163	165	167	169	172	174	4325
11 Dixie Drain	9	10	11	10	11	14	14	14	18	13	13	12	13	15	17	17	14	17	20	21	23	21	20	22	23	22	23	23	24	24	24	537
Total	242	334	295	292	298	277	323	463	554	585	487	474	489	494	525	441	474	455	510	569	436	527	380	403	412	460	466	467	483	468	562	13701

JUNE

No. Name of Tributary	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
1 Cottonwood Creek	20	19	19	17	16	16	16	16	16	16	15	15	14	14	14	14	12	12	12	11	10	10	10	9	9	8	8	6	6	6	6	386
2 Boise Sewer	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	6	6	8	8	8	8	8	8	8	8	8	8	8	240
3 Ballantine Waste	14	14	14	14	13	13	11	11	11	11	11	12	12	10	10	8	6	4	4	5	6	7	28	18	11	11	10	10	12	12		324
4 Dry Creek Waste	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2		45
5 Phyllis Slough	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	6	6	5		216
6 Five Mile Creek	112	93	91	92	47	48	27	25	23	23	26	26	25	29	10	27	27	70	32	27	26	27	69	35	28	28	10	39	20	42		1186
7 Middleton Slough	72	62	160	176	72	92	134	135	145	118	108	110	115	95	115	93	145	145	150	115	115	150	150	113	90	70	50	75	100	113		3382
8 Mason Creek	15	17	8	8	8	24	29	29	30	28	31	31	36	39	37	37	41	41	41	37	41	24	16	14	12	11	9	7	7	6		719
9 Mason Drain	79	84	104	116	109	117	109	110	119	118	120	122	131	126	131	138	153	167	173	178	170	159	152	131	117	110	96	92	92	90		3657
10 Indian Creek	176	178	179	180	181	192	193	184	186	188	189	190	191	192	194	195	146	199	148	200	201	202	202	203	204	205	206	207	207	197		5795
11 Dixie Drain	23	24	23	25	24	28	30	28	29	29	29	27	29	29	29	29	30	32	30	29	28	30	28	29	25	19	19	23	25	27		807
Total	527	498	615	634	486	520	555	554	570	547	547	551	571	550	556	558	632	685	637	614	613	625	663	568	512	479	425	463	475	496		16750

Plotted by _____ Checked by _____ Date _____

SEPTEMBER.

	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
1 Home of Canal	711	748	748	736	746	634	682	821	824	826	818	821	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U S P.S.	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
2 New York Stock	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
3 Pemberly	10	10	10	10	10	10	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
4 Aldenbaugh	276	276	300	308	306	300	295	298	298	304	312	309	285	247	240	248	245	247	242	192	184	188	193	192	192	180	178	178	178	178	7249
5 Burns	6	6	6	6	6	6	6	7	7	7	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	161
6 Cruzen	76	76	75	75	70	70	74	74	72	72	70	70	70	68	68	68	66	66	64	64	64	64	64	64	64	60	60	60	58	58	2012
7 Boise City No 1	4	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	77
8 Settlers	79	79	78	78	78	78	78	78	78	78	78	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	2436
9 Thurman Mill	21	21	22	22	22	23	23	22	22	22	20	20	20	20	18	18	18	20	22	22	18	18	16	16	16	16	16	16	16	16	584
10 Farmers Union E.V.	123	122	79	79	79	79	79	79	79	79	79	45	43	43	42	42	42	41	41	40	40	40	40	40	40	40	38	38	32	32	1684
11 Little Union	9	9	9	9	10	1	7	7	7	7	7	8	8	8	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	230
12 Dry Creek	32	32	28	28	28	26	26	26	26	26	30	32	33	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	901
13 Ballantine	6	8	9	10	9	9	9	7	8	8	8	10	12	12	12	12	12	11	9	7	7	7	7	7	7	7	8	9	9	9	264
14 T Eagle Island Canal	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	784
15 M. Ulston Waters	60	61	61	62	63	63	64	66	66	67	67	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	1761
16 Middleton Mill Ditch	35	35	35	36	36	36	38	40	40	41	41	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	1057
17 Phyllis	189	187	164	166	168	146	147	137	117	107	107	107	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	3053
18 Eureka No 1	12	13	14	12	12	10	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	8	7	7	6	6	6	6	266
19 Pioneer	14	15	15	16	15	15	14	14	15	15	15	14	13	13	13	12	12	12	10	10	10	10	10	10	11	11	11	12	13	13	380
20 Canyon County	41	41	41	42	42	45	45	45	42	42	40	40	40	40	40	39	38	38	38	38	38	36	36	30	30	28	28	35	35	28	1119
21 Caldwell High Line	26	24	18	18	18	18	18	18	18	15	12	12	13	13	23	23	23	18	18	18	15	12	15	15	10	16	10	5	5	5	471
22 Farmers Cooperative	240	177	130	140	132	132	114	92	89	86	84	92	104	151	178	182	190	194	174	172	156	146	151	178	226	240	234	215	206	194	4814
23 Canyon	8	8	7	12	10	13	8	9	8	7	8	8	10	15	15	2	2	2	0	0	2	2	2	2	2	2	2	2	2	2	172
24 Salzberg	6	6	6	7	7	9	9	10	10	10	10	11	17	12	11	9	7	7	7	5	5	5	5	5	5	4	4	4	3	3	211
25 Riverside No 2	158	142	145	145	142	150	146	147	145	142	136	142	146	146	146	143	140	145	136	0	0	0	0	0	0	0	0	0	0	0	2742
26 Pioneer Ditch	16	15	16	16	12	15	16	17	16	11	11	11	13	10	6	6	6	6	6	4	6	5	4	4	4	4	4	10	11	9	294
27 Eureka No 2	50	46	46	25	35	35	35	36	36	37	37	37	36	30	31	31	31	30	32	33	33	33	33	34	34	35	35	36	35	34	1015
28 Upper Center Point	11	9	10	10	10	10	10	10	9	9	10	10	4	5	5	5	4	4	4	4	4	4	4	5	5	5	5	5	5	5	199
29 Lower Center Point	5	4	7	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	9	6	6	5	5	5	4	4	4	3	3	194
30 Boise River at Notus	41	65	54	47	47	43	47	44	41	40	38	36	65	65	76	87	92	98	114	182	202	202	207	223	232	269	284	299	294	246	3784
31 Miscellaneous	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	10	10	10	10	10	10	10	10	10	10	10	10	10	10	435
Total	2330	2281	2295	2182	2150	1944	1708	1669	1641	1622	1565	1573	1640	1636	1667	1641	1643	1646	1620	1264	1176	1228	1231	1315	1443	1527	1521	1566	1553	1430	47463

AUGUST

Name of Camp	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
1 U.S.F.S.	1920	1914	1908	1902	1896	1890	1884	1878	1872	1866	1860	1854	1848	1842	1836	1830	1824	1818	1812	1806	1800	1794	1788	1782	1776	1770	1764	1758	1752	1746	1740	56880
2 New York Stock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 Pomeroy	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
4 Ridenbaugh	344	344	342	340	342	340	340	340	342	302	302	292	290	288	288	288	280	280	280	280	265	265	265	265	265	265	265	270	265	265	265	8660
5 Eddy	6	6	6	6	6	6	8	8	7	7	7	8	8	8	7	7	7	8	8	8	8	7	7	7	7	7	7	7	7	7	7	236
6 Quizen	78	80	84	84	80	78	77	77	74	76	77	75	75	73	72	70	71	71	70	72	70	70	72	72	70	68	66	66	68	65	71	2262
7 Bear City No.1	3	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	91
8 Settlers	106	102	110	110	110	110	110	110	110	110	106	106	106	106	108	106	100	102	100	98	98	96	96	94	94	92	110	110	110	80	80	3205
9 Truman Mill	25	25	25	25	23	23	22	22	20	20	20	20	20	22	22	23	23	24	24	24	22	22	22	24	24	24	20	20	20	21	21	685
10 Farmers Union Ck	120	56	56	56	56	56	56	56	56	113	113	113	113	115	117	119	122	126	126	126	125	125	124	124	124	124	123	123	122	122	122	3827
11 Little Union	8	8	8	9	11	12	12	12	12	10	10	10	9	9	8	8	8	8	8	6	6	6	7	7	7	7	6	6	7	7	8	260
12 Dry Creek	33	33	33	34	32	28	30	30	0	30	30	30	30	32	52	52	52	52	52	52	46	46	42	42	42	46	42	30	30	30	30	1161
13 Salamine	10	10	10	9	9	9	9	8	8	8	8	8	6	6	6	6	7	7	6	7	7	7	9	9	8	9	9	9	9	9	9	248
14 Ephraim Canyon	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	868
15 Mathias Meeks	66	66	66	66	64	65	68	68	68	66	66	67	64	64	64	64	60	60	60	58	58	58	48	48	50	48	58	58	58	58	57	1893
16 Middleton Mill Ck	36	36	36	36	36	37	37	37	37	37	40	40	38	38	38	40	40	40	40	38	36	36	36	36	36	36	34	34	34	34	34	1149
17 Pigmie	343	354	327	312	261	231	231	228	238	308	333	343	333	333	266	294	316	318	323	336	323	313	323	321	321	336	336	340	268	263	223	9347
18 Eureka No.1	20	19	18	18	14	14	14	13	17	17	15	15	15	13	12	12	12	12	12	12	12	12	12	14	14	14	14	14	13	12	12	453
19 Pioneer	14	14	14	14	14	16	16	16	16	16	15	15	15	14	14	20	24	24	24	25	25	22	20	18	18	18	17	16	16	14	12	545
20 Canyon Creek	50	53	49	47	44	47	47	45	45	44	44	44	45	44	40	40	33	33	34	36	36	37	37	40	45	44	53	50	46	41	41	1341
21 Colonel Highline	58	55	49	49	44	44	38	34	34	30	25	0	49	67	63	63	25	25	33	36	38	40	40	38	47	45	45	47	40	36	33	1258
22 Farmers Cooperative	193	203	225	177	228	152	178	177	150	176	173	180	185	188	115	116	109	102	112	118	124	124	132	134	147	167	210	229	209	140	216	5106
23 Canyon	11	11	13	14	15	13	13	15	15	10	12	12	11	10	11	13	12	11	13	9	12	12	12	12	12	10	9	10	11	13	13	369
24 Seibenthy	7	7	8	8	8	7	7	10	7	10	13	16	8	8	8	7	7	6	7	7	6	10	8	10	10	9	7	6	6	6	6	251
25 Pleasant No.2	188	184	188	165	142	130	131	129	123	128	130	134	151	168	138	146	146	146	144	142	153	160	150	160	169	179	170	174	174	170	165	4797
26 Power Dam	21	21	21	20	12	12	13	15	15	13	14	13	14	13	13	13	14	15	16	17	21	16	20	20	21	24	24	24	20	19	17	505
27 Eureka No.2	39	34	42	52	53	48	43	39	42	49	54	56	54	49	43	43	40	38	40	39	46	47	46	45	46	48	50	50	53	51	50	1434
28 Upper Center Point	6	6	6	7	7	8	5	5	6	6	8	10	10	10	5	6	6	6	6	7	7	7	7	8	9	10	10	10	12	10	14	274
29 Lower Center Point	8	9	10	10	10	10	8	8	8	8	10	12	11	10	10	10	11	12	12	12	13	15	14	14	15	15	15	15	15	10	5	340
30 Base Fiber Athletes	20	17	16	16	15	13	11	13	15	20	32	47	30	29	16	16	11	10	11	11	10	13	14	13	11	22	31	32	32	34	32	579
31 Miscellaneous	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	589
Total	3920	3803	3824	3701	3665	3590	3527	3518	3534	3646	3576	3561	3609	3613	3424	3476	3476	3451	3469	3456	3341	3320	3311	3329	3358	3247	3288	3288	3217	3131	3090	106721

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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
1 U.S.R.S.	2102	2107	2107	2112	2112	2112	2097	2097	2102	1997	2102	2097	2160	2210	2215	2041	2037	2041	2041	2046	2046	2046	2046	2046	2172	2172	2172	2167	2167	2171	2164	65099
2 New York Stock	207	207	207	207	207	207	207	207	207	207	207	207	210	164	164	164	164	164	164	164	164	164	164	164	0	0	0	0	0	0	0	7849
3 Penitentiary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
4 Farmers High	343	342	342	341	301	350	349	349	389	385	385	389	389	389	389	389	389	389	385	389	389	385	382	385	344	344	344	344	344	340	344	18445
5 Dube	15	15	6	16	16	16	16	16	16	16	16	15	15	15	15	16	16	16	16	15	15	14	15	15	14	14	12	12	10	9	9	452
6 Cruzen	68	68	68	70	72	72	70	70	70	72	72	74	74	74	76	76	76	77	80	80	80	77	77	76	74	74	82	82	82	80	78	2326
7 Brooklyn No 1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	49
8 Settlers	176	174	174	173	172	172	172	171	171	171	170	168	167	166	172	137	139	152	146	146	112	112	115	117	115	115	114	114	115	114	114	4826
9 Thurman Mill	28	30	30	30	30	28	28	28	29	29	29	30	32	31	31	31	31	31	31	32	32	32	32	30	30	30	30	30	29	28	26	940
10 Farmers Union 2nd	190	190	190	189	193	190	190	192	193	194	194	195	196	191	179	172	172	160	160	164	134	132	129	128	130	128	124	123	121	120	120	5020
11 Little Union	9	9	9	7	7	7	7	7	12	12	12	12	5	5	3	3	3	5	9	12	12	12	11	12	10	10	10	10	9	9	9	273
12 Dry Creek	64	64	64	64	64	62	60	60	58	58	62	60	0	0	24	68	61	93	93	93	93	93	93	93	60	60	55	55	52	53	53	1724
13 Ballantine	12	12	12	14	14	14	12	12	11	11	11	11	10	10	7	7	7	8	8	12	12	6	8	8	8	8	10	10	10	10	10	316
14 Lake Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	35	34	33	28	28	28	28	28	28	28	1284
15 Middleton Water Co	102	102	102	102	102	102	102	102	98	98	98	100	103	103	102	86	86	86	87	87	87	84	83	69	68	68	68	68	67	67	66	2787
16 Middleton Milling	68	70	70	70	70	65	65	65	65	63	67	67	70	70	70	48	47	47	49	52	57	64	63	39	39	38	38	38	37	36	36	1438
17 Phyllis	436	434	434	444	444	470	445	440	433	433	433	433	433	433	445	447	435	426	434	442	442	360	360	362	460	460	360	360	360	360	360	12692
18 Eureka No 1	24	26	26	26	26	26	27	27	27	27	27	27	27	27	27	25	26	24	24	23	23	23	23	23	23	22	22	22	21	20	20	760
19 Pioneer	26	14	20	3	2	2	2	2	3	32	38	36	34	32	29	49	39	29	30	25	25	26	24	24	24	24	24	20	20	20	18	682
20 Canyon County	48	52	48	48	49	49	49	49	47	52	57	58	60	67	56	54	51	60	48	48	47	46	46	45	45	45	43	41	47	49	49	1846
21 Gabriel High Line	20	20	17	17	17	16	0	11	23	35	54	65	80	80	80	80	80	80	80	80	67	71	61	67	67	48	48	67	65	65	65	1983
22 Farmers Caprice	360	354	356	350	344	337	312	279	186	154	200	246	230	246	220	227	225	200	216	260	196	212	276	182	186	267	220	282	245	263	228	5184
23 Canyon	20	8	26	28	28	21	23	25	5	4	4	12	14	13	13	9	5	4	5	7	7	5	5	7	8	8	6	4	4	3	3	350
24 Seaman	8	17	15	12	15	14	15	17	7	6	14	15	20	20	11	11	7	6	8	13	9	12	12	11	12	10	8	7	6	6	6	356
25 Pioneer No 2	195	197	200	196	197	197	200	205	212	205	210	197	25	195	195	196	190	190	190	196	194	174	175	175	176	176	172	172	192	192	190	6760
26 Farmers Dire	14	11	8	9	11	19	18	12	15	12	18	13	24	20	8	10	11	11	30	18	14	16	15	10	8	8	21	24	24	15	18	334
27 Eureka No 2	36	33	28	21	21	21	24	33	28	26	28	58	68	63	65	52	49	47	65	57	61	46	67	39	42	60	42	42	33	44	47	1340
28 Upper Conner Ford	12	13	14	11	12	13	19	17	12	12	7	19	19	19	19	16	8	8	10	12	16	10	11	14	16	20	19	12	6	9	5	387
29 Lower Conner Ford	3	6	10	8	8	7	5	8	11	10	8	13	14	14	13	12	10	10	11	13	12	12	14	15	15	14	13	13	11	11	13	336
30 Boise Mort Main	374	365	109	85	80	78	47	37	20	16	16	20	32	80	47	20	16	65	47	32	20	16	32	47	60	65	51	40	28	16	13	1734
31 Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	28	28	19	19	19	19	19	19	19	19	549
Total	5179	4950	4902	4849	4869	4838	4780	4729	4600	4602	4689	4793	4702	4795	4842	4593	4444	4429	4497	4536	4318	4214	4297	4195	4192	4250	4142	4126	4132	4117	3970	149671

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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
1 U.S.R.S.	2087	2082	2092	2092	2082	2087	2092	2107	2107	2112	2102	2092	2087	2092	2092	2102	2077	2072	2102	2102	2112	2112	2112	2097	2102	2117	2112	2092	2102	2092	63006
2 New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
3 Montezuma	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	300
4 Ridenbaugh	393	396	396	407	410	416	416	416	416	415	415	415	415	415	397	397	397	397	397	397	397	397	396	396	396	396	396	396	396	396	11926
5 Bubb	86	86	86	88	88	88	88	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	2580
6 Gruzen	73	72	73	73	73	73	74	76	76	76	76	76	80	80	82	83	83	83	83	84	80	77	74	76	76	76	74	74	76	76	2285
7 Boise City No. 1	3	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	6	5	4	3	3	3	3	3	3	3	3	3	3	110
8 Settlers	183	184	184	185	185	185	186	186	185	184	182	180	180	179	178	178	178	178	178	179	179	179	179	176	178	177	176	176	175	5442	
9 Thurman Mill	26	26	26	26	27	27	27	27	27	27	28	28	28	27	35	27	28	28	28	28	28	29	29	30	34	34	829				
10 New York Union Ex.	169	168	166	208	208	212	212	217	217	217	217	217	217	217	212	208	195	190	206	206	209	210	210	215	207	207	200	190	196	6091	
11 Little Union	8	8	8	8	9	9	10	10	10	10	10	9	8	8	6	6	6	6	6	7	9	11	12	12	12	12	12	8	9	9	268
12 Dry Creek	57	58	58	62	64	66	66	64	64	64	64	64	64	61	64	64	64	64	64	62	68	68	62	62	62	62	62	62	62	62	1860
13 Ballantine	14	14	14	14	13	13	11	11	11	11	11	12	12	10	10	8	8	6	4	4	4	4	4	4	4	4	4	4	4	4	110
14 Twodot Island Canal	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1410
15 Middleton Water Co.	90	88	88	84	84	80	82	80	81	80	80	78	78	78	76	76	76	76	78	78	76	78	88	88	90	90	90	95	95	95	2504
16 Middleton Mill Ditch	73	72	72	72	72	76	69	69	69	69	67	67	67	67	68	68	64	68	68	69	67	60	68	68	68	68	68	68	68	68	1965
17 Phyllis	455	455	455	454	456	456	452	452	453	453	453	453	453	456	454	454	454	454	396	403	405	395	390	386	0	0	395	390	396	386	12103
18 Eureka No. 1	27	26	26	26	24	24	28	28	27	27	27	26	26	26	26	26	26	26	22	22	22	20	25	0	0	25	25	25	24	24	702
19 Pioneer	31	31	31	31	30	30	30	30	30	30	30	29	29	29	29	29	28	28	28	28	27	27	27	27	27	27	26	26	26	26	856
20 Canyon County	67	67	67	64	62	59	57	57	57	59	59	61	58	58	46	49	42	38	40	42	42	44	46	48	60	64	67	64	68	68	1606
21 Caldwell High Line	66	66	66	66	66	60	60	60	60	60	60	60	60	50	47	40	40	16	22	22	22	22	18	18	20	20	20	20	20	20	1284
22 Farmers Cooperative	385	381	366	351	336	321	336	330	345	348	348	350	350	360	360	370	370	364	358	355	350	345	337	337	338	338	330	366	362	10726	
23 Canyon	15	15	15	15	17	17	17	17	14	14	14	15	17	18	18	18	18	17	16	16	12	8	4	4	4	7	7	15	14	14	422
24 Seiberberg	20	20	20	21	21	21	17	17	17	16	16	16	17	16	13	13	13	11	11	11	10	9	9	9	11	11	14	16	16	16	447
25 Riverside No. 2	203	206	206	208	208	208	210	210	212	214	215	217	219	221	221	221	220	220	218	218	218	217	217	215	215	212	210	206	206	204	6377
26 Pioneer Dixie	18	18	18	18	15	18	20	20	20	20	20	18	18	18	18	18	18	22	22	24	24	20	19	17	17	17	17	16	16	16	572
27 Eureka No. 2	40	41	43	47	50	50	50	50	51	52	52	52	53	54	60	48	48	43	43	40	40	39	36	33	33	33	37	37	37	36	1120
28 Upper Center Point	10	10	10	10	12	12	12	14	14	14	11	11	9	7	7	7	7	7	7	9	9	6	5	3	5	7	7	9	9	11	271
29 Lower Center Point	15	15	15	15	13	16	15	16	12	12	12	13	14	14	14	14	14	14	9	9	7	7	7	5	5	5	5	5	7	7	333
30 Boise River Nos.	3060	1400	1400	1440	1400	1400	1400	1464	2200	2200	2240	2540	2200	2280	2200	2600	3060	2770	1960	1400	1320	1240	1240	1320	1320	975	650	223	145	374	45577
31 Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	930
Total	7997	6314	6312	6395	6347	6308	6323	6361	7169	7181	7169	7459	7142	7157	7138	7474	7923	7458	6762	6763	6083	6003	6006	6074	5874	5332	5162	5040	4971	5152	193784

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	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
1 U.S.R.S.	1991	1832	1697	1732	1889	1977	1930	1964	1974	1966	1994	2019	2033	2058	2058	2068	2048	2046	2057	2062	2038	1908	2038	2072	2042	2073	2087	2102	2112	2047	2057	64,010
2 New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	278	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8587
3 Pemberton	10	10	10	10	10	10	10	15	15	15	15	15	15	15	10	13	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	315
4 Fiddlebaugh	262	283	283	315	325	328	332	342	357	360	360	360	360	360	385	385	388	388	391	391	391	391	396	396	396	396	396	396	396	396	396	11,887
5 Buhr	4	4	4	6	6	8	10	10	12	14	14	17	19	19	19	16	18	21	21	24	24	24	26	26	28	28	30	32	32	34	34	826
6 Cruzan	63	63	65	65	65	75	75	75	70	70	66	64	62	62	57	70	85	85	85	87	57	59	59	57	56	56	59	63	65	68	70	2165
7 Boise City No.1	2	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	92
8 Settlers	116	120	129	132	135	140	144	150	159	159	159	159	159	159	159	159	166	166	166	165	165	0	165	164	144	144	144	144	143	141	139	4532
9 Thurman Mill	12	14	15	15	15	17	17	17	17	18	18	19	20	20	20	18	17	17	18	34	41	41	41	41	35	30	27	28	28	28	28	733
10 Farmers Union Ch	146	160	163	170	170	172	165	195	165	182	180	180	177	177	177	206	206	206	206	195	172	180	180	178	126	126	172	172	172	165	165	5609
11 Little Union	3	2	3	3	4	4	4	4	3	3	3	3	2	2	2	5	9	13	13	11	11	10	10	10	8	9	9	9	8	8	5	194
12 Dry Creek	0	0	0	30	33	33	33	33	38	38	42	44	46	48	52	64	54	54	60	64	60	68	64	67	70	70	70	71	70	68	66	1490
13 Ballantine	6	6	6	6	4	4	4	5	5	7	7	7	8	9	9	9	9	6	6	6	5	5	7	7	9	9	11	12	12	12	13	235
14 Eagle Lake Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
15 Middleton Water Co	97	102	107	112	118	112	106	100	94	88	82	76	70	64	64	65	70	78	86	86	82	82	82	82	90	90	90	96	96	90	90	2772
16 Middleton Mill Ditch	30	38	44	50	54	54	54	54	52	52	52	50	50	48	48	50	52	54	54	56	58	60	60	64	68	68	74	74	75	75	75	1736
17 Phyllis	332	361	390	410	420	424	0	446	0	0	0	0	0	430	430	435	434	436	444	444	458	491	0	487	447	444	488	497	487	0	453	10460
18 Eureka No.1	15	15	15	15	15	16	0	16	0	0	0	0	0	23	23	23	23	22	16	12	4	4	0	28	28	26	26	27	27	0	27	496
19 Pioneer	12	18	24	28	28	28	27	27	27	26	26	25	24	23	20	23	25	28	30	42	65	65	42	35	31	31	31	31	31	31	31	930
20 Canyon County	25	27	30	33	36	40	44	48	52	54	57	60	60	60	60	56	55	55	51	48	44	44	47	52	58	58	58	60	62	65	68	1566
21 Caldwell High Line	24	40	40	40	60	60	60	52	0	0	40	40	35	26	28	26	31	26	31	42	29	37	37	36	53	52	56	59	59	66	66	1270
22 Farmers Cooperative	306	309	310	312	317	317	327	327	342	347	350	351	356	360	365	370	374	376	382	382	390	390	390	390	390	385	385	385	390	390	390	11,157
23 Canyon	15	17	17	17	19	21	21	17	17	11	10	7	7	8	8	14	17	17	21	21	21	19	19	19	19	19	19	16	16	15	15	505
24 Settlers	7	15	12	15	15	15	13	13	13	12	11	10	12	12	14	15	16	16	16	15	15	14	15	15	15	17	17	17	18	20	26	495
25 Riverside No.2	140	140	144	144	152	156	156	160	160	156	152	148	144	140	176	182	188	190	195	195	195	198	198	198	198	198	198	200	200	200	200	5446
26 Pioneer Dixie	0	11	11	12	12	12	14	14	14	13	15	16	16	16	17	17	18	18	19	19	19	19	19	21	21	21	23	23	19	17	15	506
27 Eureka No.2	30	30	32	32	35	35	30	30	34	34	34	35	37	40	40	40	46	48	48	42	42	50	60	56	55	55	55	61	61	61	58	1339
28 Upper Center Point	7	7	8	8	10	10	10	8	8	8	9	7	7	7	7	7	8	8	8	11	11	11	10	10	10	8	8	9	9	9	9	267
29 Lower Center Point	0	0	8	10	10	12	12	14	15	15	17	19	18	18	18	16	16	15	14	14	14	14	14	14	15	15	17	17	16	16	16	431
30 Boise River at Notus	160	133	223	160	171	223	409	190	1160	1180	1400	1100	935	934	358	374	434	466	434	434	368	434	855	1100	1700	1460	1700	1490	2200	2200	3064	26360
31 Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
Total	3768	3911	4132	4281	4429	4565	4479	4685	5121	5201	5424	5193	5099	5022	4994	5038	5166	5192	5199	5188	5104	4972	5192	6035	6279	6210	6657	6914	7015	6688	6501	165,210

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS

BY DAYS DURING THE IRRIGATION SEASON OF 1920 INCLUDING STORAGE

APRIL

No. 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
	1107	1130	1130	1134	1134	1169	1201	1217	1076	841	667	691	626	901	971	946	980	976	966	764	711	781	934	955	1067	1126	1213	1311	1401	1517	30398
1 U.S.R.S.	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
2 New York Stock	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
3 Penitentiary	0	0	0	0	0	0	0	0	30	30	66	56	58	86	66	66	56	66	66	68	92	92	102	128	139	148	182	233	238	267	2537
4 Ridenbaugh	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
5 Dubb	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
6 Cruzen	66	68	58	68	59	64	59	60	62	62	63	63	64	65	65	61	65	62	60	0	0	0	55	58	60	70	67	64	62	62	1639
7 Boise City No. 1	1	1	1	0	0	0	1	1	1	2	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	26
8 Settlers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	33	37	49	57	62	57	459
9 Thurman Mill	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	4	7	10	12	33
10 Farmers Union B.V.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	58	66	68	85	85	95	110	105	106	1146
11 Little Union	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	3	3	3	3	3	18
12 Dry Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0
13 Ballantine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	9	0	0	0	0	0	0	0	69
14 T Eagle Island Canals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	8	8	9	9	9	9	0	0	0	0	0	0	69
15 Middleton Water Co.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	705
16 Middleton Mill Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	32	45	58	72	80	84	93	484
17 Phyllis	28	28	55	55	75	75	75	75	111	75	111	111	111	111	111	111	111	111	148	162	162	162	162	175	188	202	235	262	287	320	4005
18 Eureka No. 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	0	0	0
19 Pioneer	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
20 Canyon County	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	0	0
21 Caldwell High Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	8	11	11	16	16	20	24	23	20	180
22 Farmers Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	140	170	199	227	254	266	278	291	305	2240
23 Canyon	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	4	8	12	13	37
24 Seibenberg	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
25 Riverside No. 2	10	10	10	10	10	10	10	16	10	10	10	10	10	10	30	70	80	80	90	90	110	110	110	120	120	124	127	130	133	137	1921
26 Pioneer Ditch	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
27 Eureka No. 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	5	7	7	7	8	10	12	14	16	17	20	23	26	29	211
28 Upper Center Point	0	0	0	0	0	0	0	0	0	2	4	4	4	4	4	4	4	4	3	3	3	3	3	3	4	4	4	5	6	7	82
29 Lower Center Point	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
30 Boise River at Notus	564	610	534	610	610	745	650	610	650	564	666	449	466	404	469	382	390	274	404	374	382	198	374	228	260	167	119	104	309	114	12308
31 Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
Total	2048	2114	2045	2144	2165	2335	2278	2280	2207	1963	1858	1741	1644	1958	1974	1944	1992	1913	2035	1902	1995	1944	2396	2394	2586	2647	2830	3060	3158	3485	67342

CHARTS.

TABLE SHOWING TOTAL FLOW OF BOISE RIVER PASSING HORSESHOE AND DELIVERIES TO CANALS, BY DAYS. AUGUST 1 TO SEPTEMBER 22, FOR THE SECTION BETWEEN HORSESHOE AND THE CALDWELL HIGH LINE CANAL.

AUGUST

	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	Fig.
Total Flow Boise River Passing Horseshoe	3126	3126	3096	3086	3031	1420	2435	2863	2863	2956	3022	2967	2471	2934	2878	2943	2943	2947	2871	2978	2946	1653	2447	2408	2512	2044	2529	2532	2503	2390	2275	2813
Deliveries to Canals	3428	3284	3244	3283	3178	3155	3104	3093	3061	3093	3218	3137	3192	3153	3057	3097	3102	3039	2987	3119	2987	1712	2714	2719	2714	2782	2781	2896	2747	3616	2560	3016
Tributary Gain	25	28	29	26	25	26	25	24	26	27	26	24	24	24	23	23	24	24	21	22	22	21	23	23	22	20	24	27	25	25	25	24
Seepage Gain	78	132	229	171	137	210	144	206	172	280	170	124	197	197	156	231	235	118	94	218	19	167	244	201	180	218	228	367	239	301	260	179
Net Gain Highland to Caldwell High Line	103	160	248	197	162	235	169	230	198	307	196	148	221	221	179	254	259	142	115	240	41	146	267	224	202	238	252	394	264	326	285	203

SEPTEMBER

	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	Fig. 1513
Total Flow Boise River Passing Highland	2154	1838	1544	1506	1493	1481	1745	1024	970	998	970	918	944																		
Deliveries to Canals	1598	1748	1738	1757	1738	1510	1300	1281	1264	1257	1208	1202	833																		1435
Tributary Gain	23	25	25	27	26	26	26	29	25	25	25	27	29																		26
Seepage Gain	-529	236	169	224	213	3	-171	238	264	234	213	247	-140																		92
Net Gain Highland to Caldwell High Line	-506	261	194	251	239	29	-145	267	294	259	238	274	-111																		118

Period	Tributary	Seepage	Total Gain
August 1-31.	24	179	203
September 1-13	26	92	118
Avg. 44 days	25	159	136

CHART 9.

TABLE SHOWING TOTAL FLOW OF BOISE RIVER PASSING HIGHLAND AND DELIVERIES TO CANALS, BY DAYS, AUGUST 1 TO SEPTEMBER 30, 1920 FOR THE SECTION BETWEEN HIGHLAND AND THE CALDWELL HIGH LINE CANAL.

AUGUST

	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	Avg
Total Flow Boise River Passing Highland	3814	3720	3696	3686	3041	2920	2935	2863	2863	2916	3022	2989	2971	2934	2878	2843	2843	2947	2912	2978	2876	2958	2947	2945	2912	2944	2829	2832	2838	2196	2275	2813
Deliveries to Canals	3323	3286	3444	3289	3198	3168	3104	3093	3061	3293	3218	3187	3192	3158	3089	3097	3102	3089	4187	3118	2987	4712	2714	2719	2714	2782	2781	2896	2797	3616	2660	3016
Tributary Gain	25	28	21	26	25	25	25	24	26	27	26	24	24	24	23	23	24	24	21	22	22	21	23	23	24	21	24	27	25	25	25	24
Seepage Gain	78	132	230	171	137	210	144	206	172	280	170	124	197	197	156	231	235	118	94	218	19	167	244	201	180	213	233	337	239	301	260	179
Net Gain Highland to Caldwell High Line	103	160	248	197	162	235	169	230	198	307	196	148	221	221	179	254	259	142	115	240	41	146	267	224	202	238	257	364	264	326	285	203

SEPTEMBER

	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	Avg. 1918
Total Flow Boise River Passing Highland	2184	1832	1544	1506	1403	1481	1445	1034	970	998	970	928	944																		
Deliveries to Canals	1794	1743	1738	1757	1732	1510	1380	1281	1164	1257	1208	1202	933																		1435
Tributary Gain	23	25	25	27	26	26	26	24	25	25	25	27	29																		26
Seepage Gain	-519	236	169	224	213	3	-171	233	169	234	213	247	-140																		92
Net Gain Highland to Caldwell High Line	-506	261	194	251	239	29	-145	257	194	259	238	274	-111																		118

Period	Tributary	Seepage	Total Gain
August 1-31.	24	179	203
September 1-13	26	92	118
Avg. 44 days	25	153	178

1921

PLATE

SHEET OF

MAY.

No. 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
1 U.S.G.S.	1971	1981	2005	1966	1971	1997	2006	1992	1971	761	1957	1958	1930	1935	1935	1934	1946	1946	1966	1966	1950	1972	1997	1992	1922	1901	1902	1978	1921	1916	1917	54176
2 Northstar	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8587
3 Fontenay	6	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	237
4 Pederson	385	380	388	372	380	368	365	388	388	183	383	389	391	398	412	415	395	388	285	280	295	287	325	267	276	389	391	395	412	415	422	11801
5 Eudo	8	10	10	10	10	10	11	11	11	12	12	12	10	10	10	10	11	11	11	11	14	14	13	13	13	13	13	14	14	15	15	360
6 Cruzen	44	45	37	39	41	43	45	47	49	49	49	50	50	50	60	57	57	52	58	64	65	56	57	58	60	62	62	64	64	65	66	1676
7 Base City No1	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	5	5	3	3	6	6	7	6	6	6	6	6	5	5	5	132
8 Gerlach	144	151	131	144	157	144	144	144	168	167	168	158	165	172	179	186	178	139	104	80	145	145	0	86	140	140	80	145	0	58	3460
9 Thurman Mill	24	28	28	28	26	26	30	30	30	30	28	28	28	28	24	24	26	26	26	24	27	17	7	8	12	12	25	25	23	26	26	780
10 Farmers Union Ck	192	192	194	200	206	206	212	212	212	212	212	214	214	214	218	216	216	140	140	140	140	140	140	140	140	140	142	142	142	144	206	5125
11 Little Union	11	11	11	11	10	10	11	13	14	14	14	13	12	12	11	11	10	10	9	8	8	8	9	8	9	10	9	9	8	9	10	326
12 Dry Creek	58	60	62	63	66	66	60	60	58	58	58	56	56	54	54	52	50	50	50	54	54	54	58	58	60	61	62	62	64	65	65	1808
13 Ballantine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	12	14	14	14	14	10	10	10	10	10	5	7	6	6	181
14 Regelsberger	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
15 Madden Main Ca	68	70	72	72	74	74	74	80	76	76	75	25	25	25	94	95	95	95	84	93	86	80	82	94	96	88	90	90	90	92	92	2850
16 Madden Mill Ditch	52	52	53	53	55	55	55	58	60	60	58	60	60	60	58	58	56	56	56	56	56	58	60	60	60	58	58	58	58	58	58	1798
17 Phillis	334	350	348	348	348	348	348	348	359	359	359	359	405	405	405	405	413	413	402	132	132	0	138	278	348	363	378	378	378	390	393	10477
18 Eureka No.1	16	6	2	2	2	2	2	2	21	21	21	21	25	25	25	25	17	17	8	8	8	0	2	2	2	2	2	2	2	2	2	288
19 Pioneer	17	17	17	17	15	13	13	20	20	20	22	22	20	20	20	22	20	18	16	16	14	12	12	12	14	14	14	15	18	20	536
20 Canyon County	60	62	68	64	64	64	66	68	50	52	55	58	60	62	62	26	70	68	66	62	25	16	11	11	12	15	62	68	70	72	74	1871
21 Cottrell Stubline	51	60	75	75	81	87	69	69	68	69	69	69	69	87	87	87	87	87	70	45	17	0	47	68	58	68	68	70	72	72	76	2088
22 Farmers Canyon	306	304	300	298	293	298	307	307	303	300	297	300	300	300	302	314	321	320	282	230	220	150	158	154	166	150	210	242	244	244	221	8946
23 Canyon	15	12	10	7	9	3	3	4	4	6	9	20	22	25	25	28	28	28	28	16	16	16	14	14	9	9	9	9	10	10	11	422
24 Delamberg	12	12	12	12	13	13	13	14	14	14	15	15	15	16	16	16	17	17	17	12	12	10	8	6	6	6	6	7	8	8	10	372
25 Riverside No 2	210	208	205	201	198	194	190	190	190	200	200	200	205	208	212	217	220	220	218	216	214	214	212	211	210	208	204	204	200	198	196	6375
26 Pioneer No 2	35	37	28	30	30	30	29	29	28	28	26	24	20	20	24	24	26	26	26	20	20	18	18	18	19	18	16	16	15	15	13	707
27 Eureka No 2	30	28	32	33	34	36	45	45	54	52	52	48	48	48	48	50	52	52	54	54	56	56	48	48	48	48	52	50	48	44	44	1414
28 Upper Center Pt.	0	0	0	0	8	8	8	8	11	11	11	11	11	16	10	6	6	6	6	6	6	8	8	8	8	7	7	10	10	10	11	229
29 Lower Center Pt.	1	1	1	1	1	1	1	1	1	5	7	7	7	7	7	7	8	8	12	12	12	12	10	9	9	9	9	6	3	3	3	181
30 Base Riverside	3160	3651	3910	3910	4170	4170	5040	5940	6830	610	11200	11400	11200	11000	12400	12000	12000	12700	13520	14100	12800	11900	11900	11900	11100	11600	12200	12000	11800	11810	11900	344610
31 Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
Total	7560	8053	8411	8320	8617	8785	9491	10455	13362	172	13723	13993	14092	14433	15091	14670	14962	14294	13825	13573	13293	12096	12071	11910	11901	12115	12197	11926	11907	11862	11928	431687

April | May | June | July | August | September

Plotted by..... Checked by..... Date.....

CHART 62

JUNE.

No. 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
1 U.S.R.S.	1746	1726	1706	1687	1675	1668	1653	1614	1591	1619	1623	1604	1577	1577	1585	1587	1586	1746	1811	1831	1841	1836	1811	1796	1757	1742	1757	1796	1801	1817	65176
2 Nevilon Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
3 Penitentiary	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
4 Ridenbaugh	428	428	428	428	437	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	446	13329
5 Budd	18	18	20	20	18	18	20	22	22	24	26	27	28	26	26	24	24	22	22	20	20	18	16	14	12	12	12	12	12	12	535
6 Cruzen	69	68	70	70	71	72	73	73	74	74	74	76	78	74	70	68	65	63	61	57	57	60	60	61	61	62	63	65	67	67	2028
7 Boise City No. 1	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	6	6	6	6	6	6	7	7	7	7	7	8	8	8	183
8 Settlers	197	195	196	200	200	200	200	200	200	200	200	200	200	200	200	200	200	156	172	172	166	186	196	200	200	200	200	200	200	200	5748
9 Thurman Mill	26	26	24	24	23	23	24	24	26	26	26	28	30	32	32	30	30	30	28	28	28	27	27	26	26	24	24	24	24	26	802
10 Farmers Union-21	212	192	187	206	212	222	224	226	227	225	228	229	227	242	227	226	245	225	245	224	224	223	223	224	224	224	224	224	224	224	6502
11 Little Union	10	11	12	13	14	14	13	12	12	12	13	13	14	14	14	12	12	12	12	13	10	10	10	11	12	12	11	11	11	11	361
12 Dry Creek	66	67	68	67	66	66	64	64	62	62	62	60	58	58	58	58	56	58	58	57	57	57	55	56	56	56	57	57	56	56	1772
13 Ballantine	8	8	8	8	8	8	12	12	12	12	12	11	11	10	10	10	11	11	11	11	11	11	8	8	8	8	7	6	6	6	275
14 Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1410
15 Middleton Water Co.	99	98	102	102	106	106	98	98	100	105	105	106	107	107	112	112	111	110	110	112	110	114	114	114	110	102	105	110	116	118	3195
16 Middleton Mill Ditch	60	60	60	63	64	58	55	54	54	52	48	51	0	0	0	0	11	11	11	11	12	12	14	20	24	29	30	32	35	42	592
17 Phyllis	369	359	359	409	414	419	419	419	400	409	389	384	384	404	403	382	380	399	399	399	419	427	442	462	462	462	462	462	462	462	12446
18 Eureka No. 1	26	26	26	26	26	26	26	26	30	26	26	26	26	26	27	28	30	11	11	11	11	18	18	18	18	18	18	18	18	18	654
19 Pioneer	28	32	32	30	30	26	26	26	24	24	20	18	17	22	17	10	8	5	5	6	7	7	7	9	9	9	10	11	11	11	322
20 Canyon County	80	85	85	85	87	87	84	82	81	80	76	76	72	70	70	70	68	70	70	76	76	76	77	77	75	80	82	86	86	86	2357
21 Caldwell High Line	78	78	78	94	95	98	98	105	98	98	98	98	98	85	82	75	67	65	65	34	34	34	45	50	58	56	50	49	49	49	1390
22 Farmers Cooperative	330	330	342	345	350	356	360	377	370	384	382	369	362	328	321	317	312	314	328	342	331	350	356	364	370	376	384	390	396	390	10560
23 Canyon	11	11	10	15	15	15	9	7	6	5	7	9	10	12	12	14	14	14	14	14	15	14	14	15	16	16	17	16	14	15	380
24 Seibenberg	11	12	12	10	10	10	9	8	7	8	10	13	15	15	5	4	2	3	5	7	9	9	10	12	14	12	10	8	8	8	276
25 Riverside No. 2	230	230	226	226	226	220	196	196	192	192	196	190	202	202	206	216	218	220	220	222	222	224	225	223	223	220	218	216	214	212	6457
26 Pioneer Dixie	12	12	12	14	14	14	20	22	24	24	24	21	21	21	19	17	16	16	18	18	17	14	14	11	11	11	11	11	10	9	481
27 Eureka No. 2	44	44	46	48	48	48	50	50	50	50	46	46	42	42	42	40	39	39	40	40	40	40	41	41	41	41	42	42	42	42	1336
28 Upper Center Point	11	11	11	11	10	10	10	10	13	13	13	13	13	12	12	10	10	10	10	10	8	8	8	8	8	7	5	9	10	11	307
29 Lower Center Point	1	1	1	1	1	1	1	5	4	7	9	9	9	8	8	7	6	6	6	6	6	13	13	13	12	12	10	10	8	8	203
30 Boise River at Notus	1502	1490	1503	1662	1693	1693	1682	2200	2000	2400	2001	2000	2200	1982	1992	1992	1992	2000	2050	2110	2110	2110	4360	4290	3330	3490	3350	3350	3350	3350	85490
31 Miscellaneous.	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	930
Total	5874	5846	5912	6034	6083	6081	6049	7048	7031	7450	7722	7380	7586	6625	6691	6535	6542	6404	6562	6947	6915	6991	9309	9691	10268	9512	9662	9750	9783	9675	243854

Acre

Plotted by Checked by Date

May June July August September

CHART B C.

JULY

	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
1 Bank of Canal																																
2 U.S.A.S.	161	178	181	181	181	178	178	178	176	177	177	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	5456
3 New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8587
4 Monterey	13	13	13	13	13	13	13	13	12	13	13	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	370
5 Aldebaran	443	450	450	448	448	448	448	448	448	448	448	448	448	448	448	448	448	448	448	448	446	446	446	446	446	446	446	446	446	446	446	13826
6 Bulls	13	13	13	13	13	13	13	13	12	12	12	12	12	12	15	15	15	15	15	15	12	12	12	10	10	7	7	7	7	7	7	253
7 Crown	70	70	70	71	73	75	75	77	77	78	80	82	84	86	88	88	88	85	85	86	86	86	87	87	87	86	86	86	87	87	87	2501
8 Dorsey No. 1	7	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	6	6	6	6	6	184
9 Sethen	208	210	185	187	187	188	187	185	183	183	183	183	183	185	185	185	185	186	179	179	179	179	179	179	179	174	174	165	165	165	5444	
10 Thurman Mill	25	26	27	30	30	32	32	32	34	34	34	34	36	36	36	34	34	34	32	30	30	32	30	30	30	30	30	30	30	30	30	1004
11 Tennessee No. 1	220	220	205	205	202	202	202	201	230	230	230	230	230	230	230	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	7068
12 Little Union	12	13	13	14	14	14	16	16	12	12	13	14	14	14	13	13	13	14	14	12	12	12	12	12	12	13	15	15	16	14	15	441
13 Dry Creek	55	55	55	52	52	52	56	56	54	54	52	52	52	52	52	52	52	53	53	53	54	56	56	55	55	54	53	53	53	50	49	1634
14 Ballantine	7	7	7	7	7	9	9	12	12	12	12	11	11	13	13	13	13	13	12	12	11	12	12	12	10	10	10	8	8	8	7	321
15 Maplefield Canal	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
16 Middleton Co.	118	120	124	124	128	128	128	131	130	132	132	140	141	141	142	136	130	124	112	114	108	113	120	98	96	94	92	88	85	85	87	3633
17 Middleton Mill Ditch	39	41	42	42	44	44	44	46	45	56	56	62	70	80	84	87	85	83	81	80	78	78	76	74	70	72	68	66	64	60	58	1955
18 Phillis	462	462	462	462	462	462	462	462	371	356	386	406	406	406	442	441	446	447	447	437	403	388	373	360	360	360	345	331	331	326	326	12632
19 Eureka No. 1	15	15	15	15	15	15	15	15	24	25	25	24	24	24	24	19	24	23	23	23	22	22	22	20	20	20	20	19	19	19	17	634
20 Pioneer	20	22	22	22	24	27	27	27	27	27	28	28	30	30	30	30	30	30	30	25	21	17	17	18	18	18	20	20	21	21	20	744
21 Canyon County	90	90	90	92	92	92	86	86	90	90	90	95	95	102	110	107	106	100	96	92	90	85	82	78	76	74	70	67	64	62	62	2621
22 Caldwell High Line	56	62	64	24	20	20	24	37	82	82	82	82	82	90	90	95	95	88	87	87	87	87	87	87	87	87	87	87	87	87	87	2697
23 Farmers Co-operative	365	369	347	359	355	367	364	276	252	328	364	368	391	373	378	384	380	377	373	386	390	386	383	375	367	369	370	346	311	263	237	10854
24 Canyon	15	15	15	13	11	8	10	4	7	14	20	28	6	20	18	16	15	15	17	20	18	18	18	15	9	0	0	0	0	0	0	372
25 Sebree	10	11	11	11	12	9	8	6	14	11	8	9	9	8	8	8	16	16	15	14	14	13	11	0	0	7	7	7	7	15	14	362
26 Riverside No. 2	240	235	230	225	219	212	229	213	213	220	228	221	229	229	236	224	222	230	220	212	225	217	229	217	205	200	196	208	212	198	200	6924
27 Parma No. 4	8	7	12	11	6	17	4	14	16	17	19	18	16	28	22	16	25	23	22	34	30	29	28	27	26	24	22	23	36	15	20	695
28 Eureka No. 2	43	43	38	40	43	46	0	14	8	28	38	62	71	72	71	70	67	65	70	65	66	64	61	60	58	61	63	57	55	54	45	1560
29 Upper Content	11	11	10	10	11	7	0	6	6	6	6	6	11	12	12	12	11	11	10	10	12	11	9	9	9	9	8	7	6	6	6	274
30 Lower Content	6	6	3	2	2	0	0	11	10	13	15	15	16	16	16	16	18	19	19	18	16	15	14	14	13	12	11	10	9	9	8	339
31 Southern Idaho	2160	2232	1948	1944	1982	670	542	205	92	52	96	241	96	65	30	30	31	31	31	31	31	31	31	31	31	31	31	23	23	23	19	1116
32 Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	23	23	23	19	961
Total	4564	4700	4378	5037	5093	5097	4947	4484	4425	5196	5379	5628	5711	5996	6012	5881	5986	5938	5870	5796	5715	5604	5582	5367	5318	5203	5111	4965	4870			

April | May | June | July | August | September

Printed by ..... Checked by ..... Date .....

PLATE

CHART 5D.

AUGUST

No.	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
1	U.S.R.S.	1682	1699	1685	1687	1687	1698	1694	1692	1689	1682	1682	1713	1808	1873	1883	1890	1868	1863	1873	1760	1736	1707	1716	1712	1647	1614	1614	1616	1592	1574	1588	53052
2	New York Stock	131	131	132	64	64	64	131	131	131	131	100	100	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1671
3	Pennsylvania	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	347
4	Fridenbaugh	342	342	342	342	340	340	365	365	365	343	350	350	347	350	348	352	350	344	362	363	365	362	370	365	372	381	380	369	367	356	389	11488
5	Bubb	8	8	8	8	12	10	12	12	12	12	12	12	12	11	12	12	12	12	11	11	11	11	11	11	12	12	12	12	11	11	16	522
6	Cruzen	83	85	85	85	84	84	84	84	85	85	85	84	84	83	83	84	84	85	85	84	84	84	82	82	81	80	80	78	77	76	76	2538
7	Boise City No. 1	8	8	8	8	8	8	8	8	8	8	8	6	6	6	6	6	6	6	5	5	5	5	5	5	5	8	8	8	8	8	8	217
8	Settlers	135	135	131	131	131	134	129	129	127	120	134	134	131	134	134	134	134	134	130	134	134	137	137	137	137	137	113	113	113	104	113	3958
9	Thurman Mill	26	26	27	23	23	22	22	22	24	22	24	20	20	20	20	21	21	21	21	21	21	21	22	22	24	23	23	23	24	22	22	760
10	Farmers Union 2K	164	164	164	164	164	165	165	165	165	165	134	134	134	164	164	164	164	164	164	164	164	162	164	165	160	120	130	134	134	134	141	5166
11	Little Union	15	15	15	12	12	12	9	8	8	9	11	15	15	15	15	12	10	11	11	11	6	8	8	8	7	5	5	6	5	7	9	317
12	Dry Creek	57	63	63	63	63	48	87	0	0	67	63	61	57	56	54	52	47	46	44	44	44	44	44	44	44	46	46	46	47	48	49	1744
13	Ballentine	7	7	6	6	6	6	8	8	8	9	9	10	10	9	9	8	7	5	5	5	6	6	6	6	7	7	7	7	7	7	8	225
14	7 Eagle Island Canals	35	35	35	35	35	35	28	28	28	25	28	24	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	974
15	Middleton Mobile Co.	94	94	97	99	103	106	109	111	35	64	61	57	60	60	60	59	59	59	61	64	64	67	68	70	72	70	70	70	70	66	68	2326
16	Middleton Mill Ditch	50	49	46	46	48	50	50	53	58	60	66	76	73	70	67	64	62	61	61	60	58	60	45	40	35	30	30	30	30	30	29	1567
17	Phyllis	372	372	375	357	361	324	332	321	343	335	335	353	343	343	343	343	343	343	343	343	318	319	311	292	298	334	334	334	319	290	134	11,940
18	Eureka No. 1	23	23	20	23	19	18	18	14	15	15	15	15	16	16	16	16	17	17	17	17	17	17	16	16	16	16	16	16	16	16	15	570
19	Pioneer	20	20	19	19	19	19	19	20	20	20	20	19	19	19	19	18	18	18	18	17	17	17	16	16	16	15	15	15	18	18	12	567
20	Canyon County	63	63	63	64	64	64	65	65	65	81	65	65	65	66	66	65	65	65	65	64	62	62	63	63	63	60	57	57	57	52	48	1930
21	Caldwell High Line	24	27	27	32	32	32	0	32	32	40	49	54	61	60	55	39	67	55	55	55	55	55	45	45	37	42	35	35	30	30	25	1203
22	Farmers Cooperative	230	242	238	226	236	273	240	208	168	142	194	230	238	250	263	281	297	285	274	250	241	233	212	196	177	177	176	150	184	197	210	6934
23	Canyon	11	12	12	9	7	22	15	8	6	6	8	15	16	20	23	15	17	21	25	30	24	18	11	10	8	10	11	13	13	15	15	479
24	Seibenberg	7	9	10	8	7	8	8	2	4	6	8	15	10	13	16	11	24	21	18	16	17	19	12	11	9	9	8	7	6	5	5	324
25	Riverside No. 2	202	210	194	182	194	208	205	203	188	178	180	188	186	195	200	184	203	181	160	184	173	162	163	165	155	157	159	162	165	162	160	5834
26	Pioneer Pump	24	28	16	14	14	25	25	25	15	14	22	18	27	32	35	46	46	40	36	32	35	33	31	28	21	25	29	29	30	28	27	854
27	Eureka No. 2	36	66	72	70	47	53	46	40	72	53	67	65	71	71	71	59	67	52	47	45	40	34	45	38	42	45	50	52	57	57	46	1630
28	Upper Center Point	5	3	4	3	3	12	10	12	13	11	12	12	13	11	10	9	11	11	11	9	8	5	5	7	9	9	9	10	10	9	9	254
29	Lower Center Point	7	5	6	5	4	2	6	10	9	8	3	5	13	12	12	8	9	9	15	15	15	15	15	7	6	6	6	5	3	5	5	215
30	Boise Effluent Note	49	48	52	48	42	36	32	52	42	33	37	42	50	52	50	46	50	38	32	48	50	44	36	32	35	33	32	32	32	38	32	1206
31	Miscellaneous	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	589
	Total	4035	4150	4015	3914	3947	3945	3908	3807	3659	3687	3725	3926	4022	4062	4080	4105	4109	4033	3997	3913	3854	3782	3719	3656	3595	3492	3517	3501	3460	3405	3369	118,175

April | May | June | July | August

Plotted by ..... Checked by ..... Date .....

CHART 5.

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS

BY DAYS, DURING THE IRRIGATING SEASON OF 1921. PERIOD NO STORAGE.

APRIL.

No. 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
1 U.S.A.S.	703	744	766	815	891	903	907	915	902	745	703	705	711	715	696	816	1041	1011	1001	1036	921	852	704	721	776	791	852	1035	1190	1220	33845
2 New York Steck	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	477	277	277	277	277	277	277	277	277	277	277	277	8310
3 Penitentiary	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	71
4 Ridenbaugh	0	0	0	0	0	0	0	0	0	65	92	112	136	161	170	181	189	202	267	216	230	252	273	273	309	317	337	342	360	380	4615
5 Bubb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	6	6	6	5	5	5	5	5	5	5	5	6	6	6	97
6 Citizen	25	25	25	26	26	28	28	28	29	30	30	31	31	31	31	32	32	32	32	31	31	32	34	30	29	29	28	30	30	32	854
7 Boise City No.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	2	2	2	6
8 Settlers	0	0	0	0	0	0	41	65	41	55	23	37	70	70	80	86	92	98	104	110	117	117	137	142	134	147	144	144	144	144	2308
9 Thurman Mill	0	0	0	0	0	0	0	4	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	5	5	7	12	18	234
10 Farmers Union-B.V.	75	75	75	75	75	75	75	75	75	75	75	75	75	87	102	111	118	124	145	142	144	142	144	142	144	170	162	162	170	170	3316
11 Little Union	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	7	7	6	9	9	9	9	9	10	87
12 Dry Creek	0	0	0	0	0	0	0	0	0	0	0	8	8	8	8	10	10	12	16	20	24	28	30	32	34	38	42	46	50	54	478
13 Ballentine	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
14 Hamilton Canals	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
15 Middleton Water Co.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	47	47	47	47	47	47	47	47	47	47	47	47	47	705
16 Middleton Mill Ditch	0	0	0	0	0	0	0	0	0	0	5	5	6	8	10	15	20	25	30	40	50	56	58	60	60	60	62	64	64	67	990
17 Phyllis	0	0	0	0	0	0	0	0	0	0	0	8	12	16	18	20	25	27	30	33	36	38	40	44	46	44	50	50	50	52	649
18 Eureka No.1	60	60	60	70	70	70	80	80	140	140	160	168	180	195	195	210	202	212	227	240	265	292	308	321	334	347	332	332	332	332	5970
19 Pioneer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8	10	10	12	12	14	16	18	18	18	18	18	192
20 Canyon County	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	13	14	14	14	14	15	15	15	16	17	17	17	17	17	237
21 Caldwell High Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	15	20	23	26	29	32	35	36	41	46	47	51	55	55	60	586
22 Farmers Cooperative	13	13	13	13	22	22	22	31	31	26	22	47	47	52	52	64	70	76	82	89	95	102	109	109	102	102	102	95	93	92	1582
23 Canyon	41	41	41	41	100	0	0	50	51	54	60	67	74	80	82	100	120	138	160	156	156	242	242	260	274	290	300	303	305	305	4185
24 Seibenberg	0	0	0	0	0	0	5	7	7	7	9	9	9	10	10	13	16	16	17	17	20	20	23	24	27	27	29	30	30	30	416
25 Riverside No.2	0	0	0	0	0	0	0	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	4	5	5	6	6	7	7	7	91
26 Pioneer Dixie	116	132	146	150	145	150	147	147	141	141	140	132	130	125	120	115	110	110	107	110	112	120	125	120	132	140	200	205	202	202	4334
27 Eureka No.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	12	12	12	12	14	15	16	20	24	187
28 Upper Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	12	12	11	11	14	20	28	30	32	32	34	34	32	32	32	382
29 Lower Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8	8	8	8	10	10	12	12	12	12	11	11	11	10	187
30 Boise Project Notus	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
31 Miscellaneous	5370	5370	5810	6270	6230	6310	6310	6810	6710	6710	6810	6810	6810	6810	6810	6810	6810	6810	6720	6720	6720	6720	6650	6700	6160	6220	6200	6200	6200	6200	186100
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31	31	31	31	31	465
	6620	6697	7218	7327	7226	6835	6897	6666	6887	6887	6917	6979	7090	7276	7249	7587	7821	7784	7642	7357	8024	7214	7107	7334	6714	6738	7045	7060	6804	7302	215744

April | May | June | July | August | September

Plotted by A.K.T. Checked by ..... Date .....

TRIBUTARY AND RETURN FLOW TO BOISE RIVER, IRRIGATION SEASON 1921.

CHART G.

APRIL.

No.	Name of Tributary	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
1	Cottonwood Creek	20	20	20	20	22	22	23	23	20	24	26	29	28	24	24	23	22	22	22	20	20	20	19	19	19	19	19	19	20	20	645
2	Boise Sewer	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	240
3	Dans Drain	5	5	5	5	6	6	5	5	5	5	5	5	5	5	5	5	5	5	6	4	6	6	6	4	4	5	5	6	7	7	160
4	Callister Drain	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
5	Eagle Drain	10	9	10	12	8	12	11	11	10	12	7	7	11	11	7	6	8	9	10	11	12	12	14	14	15	14	12	12	12	12	328
6	Dry Creek Waste	32	28	33	41	42	43	49	45	43	43	39	38	40	42	43	42	41	42	43	52	55	44	37	32	27	27	26	30	29	28	1155
7	Phyllis Waste	4	4	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	7	7	7	8	8	8	10	10	10	9	9	9	184
8	Five Mile Creek	54	54	54	54	43	53	41	41	36	36	33	54	87	103	127	127	127	117	111	87	73	58	53	53	53	53	53	53	66	66	2078
9	South Middleton Drain	3	3	3	2	2	2	3	3	3	3	3	4	4	4	5	6	7	8	8	9	10	10	11	11	12	12	12	12	12	13	190
10	Middleton Slough Drain	28	28	29	31	30	30	31	31	32	32	33	34	34	36	36	36	37	38	39	33	28	24	20	17	15	14	13	12	28	29	907
11	Hartley Drain	3	3	3	3	3	4	4	4	4	3	3	3	3	3	4	4	4	4	4	4	5	5	6	6	7	8	8	9	10	10	11	162
12	Mason Creek	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	5	9	10	16	18	16	16	18	19	26	23	22	27	28	29	303
13	Mason Drain	29	29	28	28	26	28	27	28	26	26	25	27	31	32	31	33	35	35	34	35	41	43	44	61	70	69	86	89	106	129	1333
14	Indian Creek	110	110	145	168	106	152	124	126	128	128	127	127	168	205	223	221	166	111	89	48	98	98	115	119	122	126	126	135	142	164	4041
15	Dixie Drain	9	8	5	7	9	9	9	10	13	10	11	14	10	12	11	13	12	12	16	16	14	14	15	15	16	16	16	18	23	23	396
	Total	326	333	370	393	372	394	388	393	387	393	387	362	431	490	529	574	487	436	370	367	382	361	367	384	399	401	427	467	527	568	12442

MAY

No.	Name of Tributary	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
1	Cottonwood Creek	27	30	32	34	36	38	40	42	44	44	46	46	48	49	60	58	52	52	54	55	56	53	57	60	60	58	57	55	54	52	50	1498
2	Boise Sewer	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	7	9	9	9	9	9	9	9	279
3	Dans Drain	8	8	8	9	8	8	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	5	5	5	5	6	7	8	8	8	9	211
4	Callister Drain	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
5	Eagle Drain	12	12	15	15	15	16	13	17	17	21	20	20	22	23	23	24	26	26	24	23	30	30	29	29	32	27	27	26	26	26	25	858
6	Dry Creek Waste	15	15	19	24	30	35	38	42	45	40	41	27	27	30	32	30	29	30	34	34	36	35	31	36	35	35	26	26	24	21	16	921
7	Phyllis Waste	9	8	8	8	7	7	7	7	7	8	8	8	8	8	9	9	9	9	9	8	9	9	9	8	7	7	7	7	7	6	6	240
8	Five Mile Creek	78	80	80	90	78	78	66	66	66	63	47	47	47	63	66	80	80	160	240	240	167	167	167	167	135	127	111	103	103	95	73	3137
9	South Middleton Drain	13	14	14	14	17	21	23	26	28	30	32	34	36	36	40	40	40	42	42	42	43	44	44	46	48	50	52	58	58	60	63	1146
10	Middleton Slough Drain	56	62	76	85	92	92	105	112	118	135	116	132	152	155	161	164	170	179	171	163	155	147	139	126	112	90	72	65	49	36	32	3574
11	Hartley Drain	12	12	14	17	19	19	19	17	17	17	16	16	16	18	18	18	19	19	19	15	15	15	15	15	17	17	17	18	18	17	17	578
12	Mason Creek	10	9	9	11	13	10	13	11	9	8	7	7	8	10	9	13	50	70	64	54	50	36	16	31	40	36	34	40	43	43	50	770
13	Mason Drain	127	129	123	117	113	119	129	123	117	117	116	113	106	117	124	129	153	308	294	266	196	129	153	165	173	156	177	177	125	172	147	4210
14	Indian Creek	180	205	206	208	239	187	191	196	200	185	180	157	152	157	178	177	187	235	378	461	366	282	186	198	202	135	177	153	190	186	190	6527
15	Dixie Drain	21	21	21	21	23	24	24	28	27	27	29	29	30	30	30	30	29	26	27	32	31	31	32	32	32	29	25	25	25	25	26	837
	Total	575	622	685	692	692	664	685	704	729	714	685	672	677	714	768	795	849	1136	1362	1419	1237	984	909	906	902	830	902	969	787	795	774	25209

PLATE

CHART 6-A

JUNE

No.	Name of Tributary	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
1	Cottonwood Creek	45	46	46	46	46	44	44	42	40	39	27	27	25	24	23	21	20	18	16	14	12	11	11	9	9	5	5	5	5	5	648
2	Boise Sewer	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	270
3	Davis Drain	9	9	9	9	9	9	9	9	8	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	9	9	7	7	7	7	248
4	Collister Drain	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	30
5	Eagle Drain	26	27	25	27	30	30	32	32	33	34	34	36	37	38	39	40	39	39	29	27	27	27	30	33	36	38	39	38	33	36	966
6	Dry Creek Waste	14	12	12	10	10	10	9	8	6	6	4	4	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	58
7	Phillis Waste	6	6	6	6	6	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	10	10	10	9	9	9	258
8	Five Mile Creek	80	78	80	80	87	87	101	95	80	80	75	75	75	67	95	103	103	103	101	75	80	80	80	78	78	78	78	66	69	68	2457
9	South Middleton Drain	65	68	71	74	78	80	81	83	84	87	90	93	96	99	102	105	108	107	105	105	104	103	98	96	94	94	92	85	79	75	2700
10	Middleton Slough Drain	25	27	27	29	32	36	40	43	47	46	46	46	49	53	56	58	62	60	48	39	36	34	31	33	30	33	36	38	40	42	1203
11	Hartley Drain	19	18	18	17	17	17	16	16	16	17	17	17	18	18	18	17	17	16	14	14	15	15	15	14	13	12	12	12	8	8	461
12	Mason Creek	44	38	31	29	29	37	36	38	44	45	43	37	31	32	28	34	35	34	28	23	18	18	17	16	16	11	12	13	11	9	832
13	Mason Drain	141	133	141	146	140	143	153	147	153	155	153	148	153	153	154	154	155	153	147	149	142	141	134	137	129	117	114	112	110	105	4206
14	Indian Creek	191	193	187	184	169	184	181	175	167	175	175	215	216	206	175	172	175	186	180	195	189	190	189	146	184	171	151	142	140	142	5310
15	Dixie Drain	28	26	29	29	29	28	30	32	29	30	30	31	28	28	29	35	35	26	25	26	24	25	26	25	26	26	27	27	32	28	821
	Total	708	680	666	667	681	712	755	728	712	730	715	753	725	717	748	748	772	757	727	720	676	644	627	601	616	611	588	557	545	532	20553

JULY

No.	Name of Tributary	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
1	Cottonwood Creek	9	10	10	11	11	11	11	9	9	13	16	16	14	14	11	11	11	12	12	12	12	14	12	15	15	15	16	17	16	15	15	396
2	Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
3	Davis Drain	7	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	10	10	8	8	8	8	9	9	9	10	10	11	11	11	11	267
4	Collister Drain	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	74
5	Eagle Drain	39	38	36	36	40	36	33	33	33	26	26	37	37	36	35	36	33	33	33	33	33	41	38	38	36	25	30	30	28	24	24	1039
6	Dry Creek Waste	2	1	1	1	2	2	3	3	3	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2	3	3	3	2	1	1	1	56
7	Phillis Waste	9	10	10	10	10	9	9	9	9	10	10	10	10	9	10	10	9	9	9	8	8	7	7	7	7	7	7	7	7	7	7	266
8	Five Mile Creek	47	41	41	43	73	80	84	86	81	21	21	21	21	21	21	21	36	31	26	26	26	21	21	26	26	34	47	47	47	47	41	1111
9	South Middleton Drain	64	64	59	55	61	28	35	41	44	43	42	40	43	46	69	69	79	88	79	79	80	76	141	105	69	72	75	64	64	64	63	1996
10	Middleton Slough Drain	34	33	22	26	29	33	24	25	30	34	38	41	61	60	63	67	66	64	61	56	60	62	57	56	61	41	62	56	55	54	42	1285
11	Hartley Drain	10	10	9	7	6	6	6	5	6	10	13	13	9	14	12	11	24	16	12	11	10	10	11	10	10	9	8	8	11	9	7	373
12	Mason Creek	15	28	34	41	38	40	36	32	32	36	33	31	32	34	36	37	6	6	7	7	7	17	8	13	16	11	5	4	7	23	20	694
13	Mason Drain	103	107	104	105	105	106	106	107	107	108	108	109	109	110	110	111	111	112	112	113	114	115	116	117	118	119	123	103	92	93	93	3385
14	Indian Creek	140	136	138	147	146	132	125	119	121	123	125	128	129	138	126	131	144	157	151	135	168	138	136	141	147	104	136	146	156	127	127	4279
15	Dixie Drain	28	32	27	27	28	27	27	26	28	29	28	28	28	27	26	28	28	28	25	25	24	26	22	28	28	26	25	23	23	26	26	816
	Total	524	570	554	566	542	528	493	460	472	494	492	496	515	561	541	546	551	564	542	509	565	551	534	575	542	541	560	480	456	494	467	16390

April | May | June | July | August | September

Plotted by ..... Checked by ..... Date .....

CHART B.

AUGUST

No.	Name of Tributary	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
1	Cottonwood Creek	15	14	13	15	15	15	14	14	12	15	16	17	17	17	16	15	14	14	14	12	12	13	13	13	12	11	11	11	10	10	9	421
2	Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
3	Davis Drain	12	12	12	12	12	12	11	11	11	11	11	10	10	10	10	10	10	10	10	10	11	11	11	12	12	12	12	12	12	12	11	345
4	Collister Drain	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	115
5	Eagle Drain	31	33	32	30	29	29	28	30	31	32	32	32	34	35	36	36	35	35	33	34	38	38	40	40	36	38	39	39	36	36	36	1163
6	Dry Creek Waste	2	3	3	3	3	3	4	4	5	5	5	6	17	17	6	6	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	126
7	Phillis Waste	7	7	7	7	7	7	8	8	8	9	9	10	10	10	9	9	9	9	9	10	10	10	11	11	11	11	10	10	9	9	8	279
8	Five Mile Creek	26	26	26	41	26	31	26	26	26	26	26	21	21	26	26	21	21	13	13	13	13	13	13	13	13	13	21	21	13	13	13	670
9	South Middleton Drain	43	44	41	44	51	50	54	43	43	58	59	63	72	81	80	64	64	60	57	63	64	63	64	68	56	54	57	57	57	54	60	1929
10	Middleton Slough Drain	32	31	28	17	26	26	24	34	34	26	26	24	24	25	26	54	67	25	25	25	27	26	26	23	20	20	20	22	21	22	20	936
11	Hartley Drain	6	6	14	12	11	12	12	12	14	10	10	9	10	10	10	10	9	9	10	10	9	9	8	8	8	8	8	8	8	10	12	302
12	Mason Creek	23	21	9	3	2	1	2	1	2	17	15	26	32	33	33	26	15	34	34	38	27	17	7	6	12	16	8	8	9	10	9	522
13	Mason Drain	89	109	107	107	103	97	96	94	96	94	96	74	74	73	70	76	77	76	76	82	83	84	94	96	99	101	105	105	106	105	107	2800
14	Indian Creek	157	168	157	138	136	128	135	157	140	132	124	136	126	146	131	137	145	142	149	147	149	150	150	152	154	155	160	161	161	163	164	4586
15	Dixie Drain	28	26	24	29	30	30	32	28	27	26	27	29	27	27	26	26	26	26	24	26	27	27	27	26	25	25	26	24	26	25	24	820
	Total	544	559	517	500	490	470	478	454	437	447	463	491	490	537	531	516	527	492	470	490	495	493	495	498	481	485	490	497	497	494	501	15174

SEPTEMBER

No.	Name of Tributary	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
1	Cottonwood Creek	9	9	8	8	8	7	7	7	6	6	6	6	7	7	7	8	8	7	7	7	7	6	6	6	6	6	6	6	6	6	205
2	Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	300
3	Davis Drain	11	10	10	9	9	9	9	9	9	9	10	10	11	11	11	11	11	11	11	10	10	10	10	9	9	9	9	9	9	8	292
4	Collister Drain	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	150
5	Eagle Drain	36	37	37	37	36	36	36	38	37	36	38	38	38	38	37	37	36	36	36	35	35	34	34	34	33	33	33	33	32	32	1065
6	Dry Creek Waste	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4	6	7	7	7	7	7	5	4	7	5	2	2	2	1	1	122
7	Phillis Waste	7	7	7	8	8	8	9	9	10	10	10	9	9	9	8	8	8	7	7	6	6	7	7	7	7	6	6	6	6	6	223
8	Five Mile Creek	13	13	13	13	31	21	21	21	21	26	31	26	31	36	47	57	57	53	57	73	95	103	27	57	57	57	57	66	73	20	1417
9	South Middleton Drain	41	43	46	67	56	66	77	82	80	96	88	86	84	89	91	90	98	69	69	107	96	94	75	66	60	76	52	48	60	48	2196
10	Middleton Slough Drain	28	28	32	35	36	36	39	67	58	61	61	60	60	61	30	46	62	57	50	58	52	51	50	50	46	43	42	40	38	39	1388
11	Hartley Drain	14	13	12	13	14	13	12	10	9	9	9	9	9	9	15	13	11	9	10	10	9	9	9	9	9	8	8	8	8	8	308
12	Mason Creek	5	6	7	7	9	10	12	13	13	18	19	13	8	7	5	6	6	7	10	12	12	13	9	7	7	7	7	7	6	5	276
13	Mason Drain	101	100	103	110	110	111	111	101	106	112	115	113	112	111	109	114	115	114	117	116	106	102	100	94	101	97	96	90	84	36	3161
14	Indian Creek	161	165	163	165	163	155	161	165	163	172	163	170	170	202	212	203	191	196	203	215	206	203	205	184	168	168	187	176	167	166	5425
15	Dixie Drain	25	25	26	21	22	22	23	28	27	27	27	30	31	31	30	30	30	30	32	29	28	28	27	27	26	26	25	26	25	25	831
	Total	488	493	503	530	534	531	554	552	540	601	601	593	589	619	621	646	649	618	657	695	675	671	648	670	626	630	597	561	573	425	17417

April | May | June | July | August | September

Plotted by ..... Checked by ..... Date .....

SHEET 52.

PLATE

SEPTEMBER.

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
1 U.S.A.S.	1037	1024	1014	1015	1015	1016	1009	1009	247	1017	1027	1076	1026	1007	1060	917	940	930	935	945	944	938	941	939	938	942	943	945	945	945	30655
2 New York Stock	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
3 Penitentiary	8	8	8	8	8	8	10	10	10	10	10	10	10	10	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	174
4 Rideabaugh	342	334	345	348	347	348	349	346	302	351	345	340	335	334	340	324	332	332	330	330	330	345	342	342	340	342	342	342	342	342	10228
5 Buell	10	10	9	9	8	8	8	8	8	9	9	9	10	10	10	10	9	9	9	1	1	1	1	1	1	1	1	1	1	1	217
6 Cruzer	76	76	76	76	76	75	75	75	75	74	74	74	74	72	72	72	72	72	70	70	70	67	67	67	67	67	67	67	67	67	2145
7 Base City No.1	7	7	7	7	7	10	10	10	10	10	10	10	10	9	9	9	9	6	6	6	6	6	6	6	6	6	6	6	6	6	222
8 Seffers	113	113	113	113	113	113	113	113	113	113	70	70	70	86	117	117	117	117	117	117	117	92	92	92	92	92	98	92	98	98	3075
9 Truman Mill	20	20	18	18	18	18	18	18	18	16	16	16	16	12	12	12	12	14	14	14	14	16	15	15	13	13	12	12	12	12	444
10 Kern's Union Ext.	145	145	145	145	145	145	145	145	145	145	87	87	87	160	160	160	160	160	111	111	117	117	117	117	106	106	111	117	110	108	3552
11 Little Union	10	10	11	11	9	9	8	8	8	8	9	10	10	10	8	6	6	6	6	5	4	4	3	3	3	3	3	3	3	3	206
12 Dry Creek	42	42	42	42	40	40	44	44	42	40	38	36	34	33	32	30	30	30	28	26	20	15	11	11	11	10	10	10	10	10	866
13 Ballantine	8	10	8	11	11	11	11	10	7	7	7	7	6	6	6	6	6	5	5	5	6	6	6	6	7	7	7	7	8	8	234
14 Eagle Bend Comb	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	1176
15 Middleton Patent	66	61	61	58	58	54	54	50	50	50	49	48	48	48	48	47	47	46	46	45	45	45	44	42	42	40	38	36	35	35	1503
16 Middleton Mill Extn	30	32	32	30	28	28	26	26	28	30	30	30	28	28	26	26	18	16	16	16	16	14	13	12	12	12	12	12	10	10	634
17 Phyllis	276	262	248	267	295	280	280	270	260	265	250	240	240	225	210	202	202	202	160	160	132	98	65	63	93	120	123	124	124	124	5077
18 Eureka No.1	14	13	12	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	8	8	8	7	7	7	7	7	7	7	6	6	266
19 Pioneer	12	12	14	14	14	14	16	16	16	15	11	11	11	11	11	10	10	10	10	10	9	8	6	6	6	6	6	6	6	6	314
20 Canyon County	47	47	47	47	42	42	42	42	42	49	46	46	46	47	47	47	47	43	43	42	42	40	40	39	39	39	38	36	36	36	1285
21 Caldwell High Line	9	6	18	22	31	27	27	18	14	18	18	18	14	14	14	14	14	14	14	14	14	14	10	10	10	7	7	7	7	7	433
22 Farmers Cooperative	145	181	169	187	206	216	225	236	259	232	214	206	233	260	257	254	252	231	186	192	136	130	125	128	126	124	122	116	118	556	6911
23 Canyon	16	16	17	21	25	25	24	24	23	23	24	25	24	23	23	23	23	1	1	1	1	1	1	1	1	1	1	1	1	1	399
24 Seybenberg	4	4	4	7	9	15	27	18	17	24	25	26	19	12	12	13	13	17	15	13	12	11	10	10	9	9	8	8	8	8	380
25 Riverside No.2	160	148	147	151	155	153	152	151	151	144	142	144	154	164	162	144	140	136	196	186	182	167	133	130	132	128	126	124	130	132	4439
26 Pioneer Drie	33	27	26	30	33	38	33	29	30	27	27	27	29	25	25	27	30	30	28	26	26	26	25	24	19	24	25	25	24	24	772
27 Eureka No.2	49	45	42	49	55	56	55	52	57	58	59	60	54	48	46	46	44	29	28	27	27	25	24	23	23	25	25	25	23	23	1297
28 Upper Center Point	9	9	8	9	10	10	9	9	9	6	6	6	6	5	6	4	6	5	5	5	5	5	5	5	5	5	5	3	3	3	170
29 Lower Center Point	4	4	4	4	4	3	3	1	1	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	45
30 Base Rivers Acres	34	31	32	34	36	46	51	78	75	82	95	113	140	177	240	238	272	296	344	428	510	445	345	345	341	330	335	330	327	275	6798
31 Miscellaneous	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	493
Total	3351	3295	3279	3351	3357	3390	3374	3330	2777	3106	2695	2805	2801	2792	2862	2735	2870	2639	2224	2611	2521	2335	2266	2245	2211	2144	2169	2072	2062	1951	82382

April | May | June | July | August | September

Plotted by ..... Checked by ..... Date .....

1922

CHART 5.

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS

BY DAYS DURING THE IRRIGATION SEASON OF 1912. NORTH SIDE.

APRIL

No. 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
1 U.S.F.S.	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	4200
2 Northstock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
3 Fortenbury	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
4 Middaugh	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
5 Budd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	111	96	101	116	116	116	116	116	116	3,480
6 Custer	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	900
7 Boise City No. 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	0	0	0
8 Settlers	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
9 Thurman Mill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	61	61	61	61	61	61	61	61	61	1,830
10 Ramsey Lateral	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
11 Little Union	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	26	26	26	26	26	26	26	780
12 Dry Creek	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
13 Ballantine	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
14 Ridenbaugh	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
15 Middleton Ditch	42	42	42	42	42	42	42	45	45	47	45	47	47	47	52	60	64	66	66	66	66	71	73	73	80	85	85	91	101	101	2,282
16 Middleton Mill Ditch	19	19	19	19	19	19	19	19	19	15	17	17	17	17	17	17	16	16	16	16	16	15	15	15	15	15	14	14	14	14	423
17 Phifer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	98	125	125	121	121	121	168	208	211	242	242	223	238	245	245	6,227
18 Eureka No. 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	0	0	0
19 Pioneer	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
20 Canyon County	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	630
21 Caldwell High Line	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	10	10	20
22 Farmers Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	35	35	42	42	42	42	42	42	42	1,120
23 Conyer	0	0	0	0	0	0	0	0	0	0	0	0	22	35	21	19	32	30	37	37	37	37	41	41	37	37	41	44	49	56	1,116
24 Deerings	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
25 Riverside No. 2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	0	0	0	0	3	3	3	3	3	3	87
26 Pioneer Line	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
27 Eureka No. 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	0	0	0
28 Upper Centerline	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
29 Lower Centerline	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
30 Dan Brennan	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	5,100
31 Miscellaneous	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
Total	2681	2681	2963	3560	3674	3660	3667	3681	3675	3691	3665	3693	3693	3702	3747	3750	3767	3767	3767	3767	3767	3767	3767	3767	3767	3767	3767	3767	3767	3767	112,993

Posted by ..... Checked by ..... Date .....

Remarks .....

CHART 54

FLUME

DAILY

No.	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
1	U.S.F.S.	1459	1433	1313	1457	1531	1581	1604	1609	1781	1747	1741	1761	1751	1751	1741	1651	1771	1771	1781	1621	1661	1611	1661	1661	1661	1661	1611	1611	1661	1611	1611	50,151
2	New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8,587
3	Pemberton	0	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	250
4	Pedlenaupa	195	205	245	288	251	275	291	318	336	346	368	393	411	419	369	399	393	411	419	424	431	437	448	436	437	437	435	436	435	440	440	11,452
5	Bubb	5	5	4	6	6	6	7	7	7	7	9	9	9	9	9	9	9	11	10	10	12	12	12	9	8	8	8	8	8	8	10	261
6	Cruzen	74	74	74	70	70	70	70	74	73	72	76	76	76	76	76	76	76	76	72	72	74	68	66	66	66	64	62	62	60	60	58	2,162
7	Bone City No.1	4	4	4	4	4	4	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	7	7	7	7	7	6	6	6	6	202
8	Settler	86	92	98	101	113	110	114	117	121	127	127	127	151	166	172	175	179	175	179	179	179	183	186	186	186	186	183	179	180	180	180	4,743
9	Thurman Mill	0	0	0	18	20	22	24	26	27	25	29	29	29	25	27	26	26	26	26	26	25	25	24	24	24	24	24	23	23	22	493	
10	Home Union BK	81	88	100	110	122	144	172	190	206	225	231	231	221	231	227	227	208	248	248	248	246	240	240	240	238	236	232	232	238	243	6,972	
11	Little Union	12	12	12	0	0	8	12	12	12	13	13	13	13	13	14	14	11	11	11	12	12	13	12	14	14	11	9	8	7	7	330	
12	Dry Creek	16	13	16	0	0	30	35	41	44	43	48	52	57	60	60	67	75	75	65	60	63	61	62	62	62	60	57	51	53	48	48	1,397
13	Ballantine	0	9	8	8	5	10	10	10	10	11	10	10	14	14	14	16	21	19	17	17	13	11	9	7	9	9	10	10	10	10	10	357
14	Eagle Island Canal	47	47	47	47	47	47	47	43	43	43	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1,457
15	Middleton Water Co.	101	101	89	74	86	92	100	100	101	110	110	112	111	120	120	120	111	111	113	111	111	111	91	111	112	111	111	97	91	72	92	3,293
16	Middleton Mill Ditch	41	41	66	66	60	114	114	117	121	125	125	125	112	100	100	100	112	111	109	108	108	108	108	108	108	108	101	97	93	101	93	3,133
17	Phyllis	158	271	285	300	335	370	372	0	0	392	422	440	425	425	425	425	426	446	446	367	363	383	441	441	444	264	241	241	14	0	26	28	28	8,615
18	Eureka No.1	0	0	0	0	0	0	45	0	0	45	45	47	40	40	40	40	39	40	40	40	24	24	24	24	24	21	21	21	14	0	26	28	28	787
19	Pioneer	14	17	15	19	13	14	14	16	17	19	21	26	29	32	37	38	36	34	32	30	30	28	27	27	27	27	27	23	30	30	30	31	787
20	Canyon County	22	22	22	56	63	56	60	60	68	72	77	81	82	82	64	84	84	84	84	85	85	86	86	86	89	89	88	89	91	92	92	2,285
21	Caldwell High Line	100	100	100	100	100	100	100	0	100	99	100	97	106	106	100	100	100	0	97	87	94	94	94	94	100	94	100	100	82	94	100	2,731
22	Farmers Cooperative	119	112	154	167	204	194	234	244	263	0	231	293	318	308	308	317	344	366	362	365	373	370	368	368	374	342	351	333	333	353	462	8,795
23	Canyon	19	19	22	24	26	26	24	23	25	12	12	12	12	12	11	10	10	10	10	10	9	9	8	8	8	8	8	8	8	8	10	240
24	Seibenberg	5	5	5	6	7	12	12	14	13	14	14	13	11	9	7	5	4	4	4	5	5	5	6	6	6	6	7	7	8	8	8	312
25	Eureka No.2	0	0	0	0	78	80	174	178	180	180	180	180	180	180	180	182	180	180	160	180	140	140	107	117	120	0	0	0	0	0	0	1,957
26	Pioneer Ditch	0	0	0	0	0	0	0	0	0	0	0	0	6	0	8	15	15	15	18	24	33	28	8	8	8	0	0	0	0	0	0	157
27	Eureka No.2	0	0	14	18	14	18	22	32	38	35	37	35	35	35	41	50	50	50	47	49	49	49	49	49	49	49	49	49	49	49	49	1,465
28	Upper Center Point	0	0	0	12	12	12	12	14	14	14	14	14	15	15	15	15	15	15	19	19	10	10	7	5	5	5	5	5	5	5	5	357
29	Lower Center Point	0	0	0	6	6	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
30	Boise River Mtrs	6/90	6/90	6/85	7/60	7/70	6/70	8/50	8/70	8/70	8/70	7/60	7/60	7/60	7/60	7/62	7/60	7/60	7/60	6/80	6/80	7/60	7/80	7/70	7/80	7/80	7/80	7/80	7/80	7/80	7/80	7/80	7/60	7/60	7/60
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
	Total	2831	3077	3241	3540	3676	3963	4241	4529	4878	5265	5389	5476	5507	5525	5521	5781	5771	5871	5875	5868	5707	5768	5761	5778	5748	5677	5568	5461	5464	5509	5683	170,033

Plotted by ..... Checked by ..... Date .....

JUNE

No. 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
1 U.S.R.S.	844	1822	844	844	1822	847	844	847	847	847	847	1016	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	30,4[illegible]
2 New York Stock	277	597	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8,31[illegible]
3 Penitentiary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	300
4 Peterson	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	447	0	894	894	894	894	894	447	8,94[illegible]
5 Budd	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	39[illegible]
6 Cruzen	64	64	60	60	60	60	60	60	60	60	60	64	64	64	64	64	64	64	64	64	64	64	64	60	60	60	60	60	60	60	1,8[illegible]
7 Bone City No.1	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	18[illegible]
8 Settlers	183	183	183	181	181	181	183	180	180	180	180	180	180	180	180	180	180	180	180	183	183	183	183	183	183	183	183	183	183	183	5,49[illegible]
9 Thurman Mill	34	34	32	32	33	33	33	34	34	34	34	33	34	34	34	32	32	33	33	33	33	33	33	33	32	32	33	33	33	33	99[illegible]
10 Farmer Union Ext	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	7,44[illegible]
11 Little Union	6	6	6	12	11	12	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	34[illegible]
12 Dry Creek	98	98	98	96	80	82	83	83	83	83	83	83	83	83	82	80	80	77	77	77	78	78	78	78	78	78	78	80	80	82	2,33[illegible]
13 Ballentine	10	11	12	12	13	14	14	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	39[illegible]
14 Teal Island Canal	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1,41[illegible]
15 Malden Rivers	117	121	121	121	121	122	122	122	122	122	122	122	122	122	122	122	122	61	61	61	56	57	57	93	93	113	113	113	113	113	3,39[illegible]
16 Malden Mill Ditch	108	108	114	114	114	111	115	114	114	110	107	107	107	107	107	107	107	114	111	108	108	107	143	111	108	101	101	101	114	108	107	114	3,37[illegible]
17 Payne	480	480	480	480	480	480	600	592	480	480	463	464	479	479	479	367	401	388	388	380	378	370	370	443	458	492	498	506	506	492	13,6[illegible]
18 Eureka No.1	28	28	28	28	28	28	28	28	28	28	28	24	28	28	28	28	28	28	28	28	28	27	27	27	27	42	42	42	42	42	42	38	87[illegible]
19 Pioneer	34	33	33	34	34	33	29	24	24	24	24	24	24	24	24	24	24	23	23	23	23	21	21	21	21	28	30	32	33	33	33	33	82[illegible]
20 Canyon County	92	91	93	94	94	96	97	98	98	98	98	98	98	98	96	96	96	96	96	96	96	96	96	100	100	101	102	102	102	102	102	102	2,81[illegible]
21 Gabriel High Line	100	100	110	104	106	112	112	112	112	106	106	100	94	87	74	74	74	74	74	74	74	74	74	69	69	69	69	69	69	50	62	2,45[illegible]
22 Farmers Cooperative	360	377	393	396	390	393	393	393	393	374	367	360	363	348	318	295	295	260	260	276	308	308	308	305	308	305	310	313	313	310	10,07[illegible]
23 Canyon	9	9	12	20	20	20	20	12	12	12	12	11	11	11	11	11	11	10	10	10	10	10	10	15	15	15	16	16	16	16	39[illegible]
24 Sebenberg	10	11	12	12	14	16	16	14	14	14	14	17	17	17	17	16	16	12	10	11	9	8	8	8	8	7	9	10	12	360
25 Riverside No.2	0	0	106	106	104	104	138	134	126	120	120	120	120	120	105	105	105	100	100	95	95	95	95	0	0	0	216	216	222	222	4,25[illegible]
26 Foster Dyke	22	20	20	20	20	15	18	20	20	20	20	22	22	22	23	23	23	19	17	13	9	9	9	11	12	12	15	15	15	16	42[illegible]
27 Eureka No.2	49	49	49	50	50	50	51	55	55	55	55	53	53	55	55	55	49	49	47	42	43	43	43	43	43	43	44	44	44	43	1,43[illegible]
28 Upper Corbett	16	16	16	16	16	17	17	13	13	13	12	12	12	12	12	12	9	9	6	7	8	9	8	8	7	7	5	5	5	5	13[illegible]
29 Lower Corbett	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 Ea. River Valley	6830	6816	7160	7630	8870	9600	11100	10700	9970	9230	7850	6190	6037	7233	10230	10231	9560	8520	8524	8170	8170	7860	7911	8440	8330	8390	8410	8430	8360	8330	230,[illegible]
31 Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	930
Total	11543	11619	12036	12729	13607	14345	16167	15744	14901	14238	12880	11130	11187	12439	14835	14693	14125	13085	13056	12795	12918	12546	12620	13854	13869	14144	14350	14567	14665	14350	397,[illegible]

April | May | June | July | August | September

Plotted by ..... Checked by ..... Date .....

JULY

CHART 5C

No. Name of Camp	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
1 U.S.R.S.	641	1888	1807	1872	1867	1824	1901	1914	1902	1872	1809	1809	1809	1770	1760	1760	1746	1760	1760	1685	1644	1685	1685	1685	1685	1644	1644	1644	1644	1644	1644	1644
2 Hanford SCA	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237
3 Pentagram	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
4 Robinson	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	14508
5 Bldg	16	16	16	17	17	17	17	17	16	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	496
6 Cruzen	61	61	61	61	61	61	61	63	63	63	63	63	63	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	1984
7 Bus City No 1	6	6	8	8	8	8	8	8	7	7	7	7	7	7	7	9	9	9	9	9	9	6	6	6	8	8	8	8	8	8	8	237
8 Setter	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	176	5456
9 Thurman Mill	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	2666
10 Tamarack No 2	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	8184
11 Little Union	15	15	15	15	15	15	15	15	14	14	14	14	14	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	496
12 Dry Creek	27	27	30	54	54	54	54	86	106	90	79	93	93	88	88	65	65	65	65	63	63	61	61	61	61	61	61	61	61	61	61	1936
13 Ballantine	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	558
14 Maple Island Camp	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
15 Millston Wash	116	116	90	90	90	121	109	147	121	109	116	116	112	107	94	106	106	98	98	98	98	94	94	94	94	94	94	94	94	94	94	3223
16 Millston Mill Dam	97	97	101	101	101	101	96	96	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	3170
17 Pacific	482	470	368	515	503	515	490	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	499	15453
18 Loretta No 1	38	38	38	38	38	38	31	31	31	31	31	31	31	23	23	24	25	26	26	27	0	0	0	0	0	0	0	0	0	0	0	1054
19 Power	32	32	30	28	28	28	27	23	19	15	12	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1054
20 Canyon County	100	95	91	90	86	91	96	96	92	90	95	100	98	93	91	93	91	95	80	76	77	72	70	70	70	70	70	70	70	70	70	2578
21 Caldwell Hall Dr	39	39	39	61	36	60	63	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	2542
22 Nampa Cemetery	389	392	360	385	391	398	391	346	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	9844
23 Canyon	12	12	9	8	9	9	10	10	10	10	9	8	8	10	10	10	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	310
24 Jo Bunting	4	17	17	17	11	9	9	10	10	10	9	5	5	9	9	5	8	8	8	11	15	15	15	15	15	15	15	15	15	15	15	403
25 Pioneer No 2	220	220	210	210	218	199	210	198	210	214	213	213	204	212	204	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	6262
26 Pioneer Dike	28	28	32	34	38	37	0	0	7	40	36	36	37	6	16	21	32	42	42	58	59	60	60	60	60	60	60	60	60	60	60	1457
27 Lewis No 2	48	52	42	46	22	38	48	42	58	48	42	42	60	70	64	62	60	58	58	60	60	60	60	60	60	60	60	60	60	60	60	1860
28 Lewis Cem East	0	0	0	8	8	8	11	9	12	11	11	12	18	18	18	16	17	8	16	17	16	6	9	12	8	16	16	16	16	16	16	403
29 Lewis Cem West	0	0	0	0	5	12	15	20	22	23	18	18	17	8	18	17	16	6	9	12	8	15	18	19	16	14	12	10	15	18	19	403
30 Soil Reclamation	1170	860	618	410	340	470	65	36	68	68	64	64	28	34	42	56	27	40	40	67	78	66	39	36	36	37	58	58	58	58	58	1798
31 Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	23	23	23	23	23	23	23	23	23	23	713
Total	6615	5701	5294	5853	5962	6370	6209	6941	6941	6947	6837	6928	6780	6834	6808	6785	6756	6810	6787	6797	6776	6721	6721	6721	6721	6734	6726	6697	6745	6747	6747	209,230

April | May | June | July | August

Plotted by ..... Checked by ..... Date .....

CHART 5-D.

AUGUST.

No. 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
1 U.S.R.S.	207	206	206	206	206	206	206	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	6417
2 New York Stock	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	5611
3 Penitentiary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
4 Rockwood	395	395	392	391	386	385	385	380	387	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	388	12028
5 Bibo	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	527
6 Crozier	67	67	67	65	65	65	65	65	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	1984
7 Bard Creek No.1	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
8 Sellers	150	150	150	145	145	145	145	144	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	4495
9 Thurman Mill	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	1488
10 Farmers Choice	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	5890
11 Little Union	12	12	12	12	12	12	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	288
12 Dry Creek	54	53	54	54	49	48	50	50	50	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	1525
13 Ballantine	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	496
14 Rockland Canal	35	35	35	35	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	868
15 Middleton Water Co	60	60	60	60	60	70	69	68	68	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	2077
16 Middleton Milling	63	63	59	48	47	56	55	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	1488
17 Phillis	395	395	404	388	388	388	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	11904
18 Eureka No.1	30	30	21	35	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
19 Pioneer	16	16	15	15	17	17	17	17	17	17	16	16	16	16	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	496
20 Canyon County	69	69	68	60	58	57	56	58	58	58	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	1426
21 Caldwell High Line	25	24	26	27	24	24	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	837
22 Farmers Cooperative	217	217	234	303	321	347	337	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	9858
23 Canyon	20	19	15	17	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	589
24 Salisbury	11	11	13	15	17	16	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	316
25 Arcade No.2	101	101	99	96	101	98	99	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	3038
26 Pioneer Dixie	15	12	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	434
27 Eureka No.2	50	49	50	47	49	47	45	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	1364
28 Upper Center Point	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	341
29 Lower Center Point	10	11	13	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
30 Boise Irrigation	97	97	99	89	102	104	102	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	2945
31 Miscellaneous	23	23	23	23	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	589
Total	4308	4307	4307	4277	4270	4268	4259	4218	4196	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	4195	130,057

Plotted by ... Checked by ... Date ...

CHART 52

SEPTEMBER.

No. 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
1 U.S.A.S.	146	146	135	116	144	146	146	146	146	146	146	135	146	146	146	146	146	146	146	146	146	0	0	0	0	0	146	146	146	0	3723.5
2 New York Steel	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
3 Penitentiary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	300
4 Fridenbaugh	344	344	334	337	331	336	336	336	331	337	335	335	339	341	336	330	336	336	331	326	330	332	335	328	326	326	332	335	335	332	9905
5 Zuck	10	10	10	9	9	9	9	11	11	11	10	10	07	07	07	07	5	5	5	2	1	1	1	1	1	1	1	1	1	1	157
6 Cruzen	64	64	60	60	60	60	60	60	58	64	64	64	61	61	62	64	64	64	60	72	72	72	65	65	60	62	62	62	62	60	1844
7 Bone City No.	6	6	6	6	6	6	4	4	4	4	4	4	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	203
8 Settles	12	12	12	12	12	12	12	12	12	12	12	12	05	05	05	05	05	05	05	66	66	71	71	71	71	71	71	71	71	71	2171
9 Thurman Mill	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	372
10 Farmers Union Elk	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	496
11 Little Union	6	6	6	6	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	186
12 Big Creek	48	48	48	45	44	44	42	43	41	40	40	40	40	40	40	40	40	40	40	37	37	37	37	37	37	37	37	37	37	37	1180
13 Ballentine	12	12	9	9	9	9	9	5	5	5	5	5	5	5	6	6	6	6	5	4	4	4	4	4	4	4	4	4	4	4	144
14 Eagle Island Canal	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	868
15 Middleton Power Co.	86	90	91	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	2852
16 Middleton Mill Dam	41	41	41	39	37	36	36	35	34	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	1023
17 Phyllis	350	350	350	350	316	307	330	330	330	330	330	330	314	315	315	314	304	310	304	310	310	310	310	310	310	310	310	310	310	310	9600
18 Eureka No. 1	20	20	20	20	17	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	465
19 Pioneer	17	17	17	16	16	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	465
20 Canyon County	65	65	64	58	54	51	48	47	43	45	45	45	44	44	44	43	44	44	44	6	6	6	6	6	6	6	6	6	6	6	1350
21 Caldwell Main Line	44	44	44	44	24	20	14	12	12	12	12	12	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	1350
22 Farmers Canal Co.	207	208	210	203	196	203	208	217	217	207	214	206	196	194	184	183	194	170	165	174	167	163	165	180	171	173	173	173	177	168	5328
23 Canyon	9	9	9	9	9	9	9	9	9	9	9	9	12	14	16	16	16	16	16	16	16	16	9	9	9	7	7	7	7	7	306
24 Sebern	18	19	20	15	10	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	6	6	6	5	4	4	4	4	4	4	324
25 Sebern	7	7	6	9	6	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	124
26 Boise No. 2	106	104	107	111	108	106	108	102	103	103	103	102	102	102	102	102	102	102	102	105	105	105	105	110	110	114	114	118	118	118	3276
27 Boise No. 2	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	434
28 Ridenbaugh	21	21	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	651
29 Eureka No. 2	0	52	48	48	38	28	24	14	13	12	12	12	11	11	11	10	10	10	9	9	9	8	8	8	8	8	8	8	8	8	1
30 Upper Conner Pmt	17	19	15	10	10	12	10	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	155
31 Lower Conner Pmt	20	17	17	17	14	5	5	5	5	5	5	5	37	37	37	37	37	37	37	36	36	36	37	28	26	29	31	28	34	35	1192
32 Boise River Mills	78	79	86	93	86	98	98	50	50	45	44	44	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	1000
33 Miscellaneous	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	589
Total	2425	2465	2460	2399	2358	2372	2376	2276	2209	2193	2207	2181	2149	2149	2139	2139	2139	2139	2139	2139	2139	2139	2139	2139	2139	2139	2139	2139	2139	2139	66,277

April | May | June | July | August | September

Placed by ... Checked by ... Date ...

CHART 6.

TRIBUTARY AND RETURN FLOW TO BOISE RIVER AT CALDWELL SEASON 1922.

APRIL.

No.	Name of Tributary	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
1	Cottonwood Creek	8	8	8	8	10	22	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	670
2	Boise Junior	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	187
3	Davis Drain	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	226
4	Collister Drain	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	279
5	Eagle Drain	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	558
6	Dry Creek Ditch	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	186
7	Phillis Ditch	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	124
8	Five Mile Creek	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
9	South Nampa Drain	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	1550
10	Nampa Meridian Drain	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	341
11	Farm Drain	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	186
12	Mason Creek	8	8	8	8	8	8	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	317
13	Mason Drain	43	43	43	43	43	46	46	46	46	46	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1402
14	Indian Creek	57	57	57	60	60	60	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	1827
15	Dixie Drain	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	321
	Total	252	253	261	267	276	292	296	294	292	290	291	304	292	299	316	318	309	312	412	411	411	411	411	411	411	411	411	411	411	411	11,911

MAY.

No.	Name of Tributary	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
1	Cottonwood Creek	20	20	20	17	14	17	17	18	17	19	30	30	30	30	30	30	26	20	14	14	14	12	12	10	10	10	10	10	10	10	10	474
2	Boise Junior	6	6	6	6	6	9	9	9	9	9	9	9	9	9	9	9	7	7	7	7	7	8	8	9	9	9	9	9	9	9	9	239
3	Davis Drain	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	10	10	10	10	10	9	9	9	9	9	40	40	40	40	39	283
4	Collister Drain	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	26	39	39	40	40	40	40	40	40	40	40	28	683
5	Eagle Drain	14	14	29	18	44	44	39	44	44	58	39	32	32	34	34	38	44	34	34	34	30	30	30	30	30	30	30	30	30	30	30	1,015
6	Dry Creek Ditch	11	11	11	11	11	11	11	11	11	14	14	16	16	19	18	20	20	23	25	25	27	30	30	30	30	30	30	30	30	30	30	1,015
7	Phillis Ditch	5	5	5	6	7	7	7	7	6	6	6	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	186
8	Five Mile Creek	65	67	72	57	21	26	32	37	43	48	58	58	61	64	66	71	76	77	80	82	84	46	68	90	90	107	116	125	131	149	150	2,261
9	South Nampa Drain	48	54	59	64	70	67	63	61	59	59	59	58	60	64	48	48	61	61	61	70	72	70	66	62	60	58	56	56	54	56	58	1,748
10	Nampa Meridian Drain	87	72	57	41	25	22	18	15	12	9	11	13	30	45	45	6	6	6	7	7	7	7	7	8	8	10	10	12	14	16	16	1,000
11	Farm Drain	4	4	5	6	7	7	7	7	7	7	6	6	6	6	6	6	6	7	7	7	7	7	8	8	10	12	21	25	30	34	38	341
12	Mason Creek	12	14	16	18	20	20	20	20	19	19	19	18	22	23	23	24	24	24	23	22	21	21	21	21	25	30	34	38	41	45	48	1,052
13	Mason Drain	47	47	47	47	47	70	74	74	74	78	87	91	97	103	108	113	116	116	112	107	104	102	121	130	138	140	147	140	132	134	135	3,325
14	Indian Creek	77	84	84	80	75	72	81	85	87	89	92	96	69	72	83	90	94	96	98	98	96	94	92	90	88	86	84	82	80	78	76	2,547
15	Dixie Drain	12	12	12	12	12	12	13	13	13	14	14	15	16	16	17	17	18	18	18	19	19	19	19	20	22	24	26	26	28	30	31	1,000
	Total	482	485	492	496	506	585	593	595	626	691	809	825	909	964	970	1,018	1,068	1,077	1,082	1,085	1,085	1,085	1,085	1,085	1,085	1,085	1,085	1,085	1,085	1,085	1,085	31,000

Plotted by ..... Checked by ..... Date .....

CHART 67

JUNE

No. Name of Tributary	1	2	3	4	5	6	7	8	9	10	11	12
1 Cottonwood Creek	7	8	8	8	8	10	11	11	11	11	8	7
2 Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10
3 Davis Drain	9	9	8	8	8	8	8	9	9	10	10	10
4 Collister Drain	6	7	9	9	9	9	9	9	9	10	10	10
5 Eagle Drain	48	48	44	44	44	44	47	52	48	44	41	40
6 Dry Creek Waste	26	24	22	23	19	18	16	3	3	3	3	3
7 Phyllis Waste	11	11	10	12	10	16	15	14	14	14	14	15
8 Five Mile Creek	70	68	55	54	52	50	47	46	46	46	46	46
9 South Middleton Drain	150	148	134	134	127	120	120	97	97	100	120	122
10 Middleton Town Drain	47	47	38	34	30	32	31	90	90	90	90	90
11 Hartley Drain	16	17	12	12	12	12	14	10	10	10	10	10
12 Mason Creek	40	40	37	37	33	31	30	25	27	27	29	30
13 Mason Drain	160	160	152	148	144	142	140	134	140	136	143	150
14 Indian Creek	125	120	111	103	96	86	91	88	85	101	100	111
15 Dixie Drain	30	29	29	29	29	29	29	30	30	30	29	29
Total	779	764	714	684	660	647	644	616	611	617	630	638

No. Name of Tributary	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total
1 Cottonwood Creek	7	7	7	7	7	7	7	8	8						9	9	9	9	198
2 Boise Sewer	10	10	10	10	10	10	10	10	10						10	10	10	10	300
3 Davis Drain	10	10	10	10	10	10	10	10	10						8	8	8	8	260
4 Collister Drain	10	10	10	10	10	10	10	9	9						8	8	8	8	261
5 Eagle Drain	40	40	40	40	40	40	40	40	40						39	39	38	38	1419
6 Dry Creek Waste	3	3	3	3	3	3	3	3	3						3	3	3	3	345
7 Phyllis Waste	15	15	15	15	15	15	15	14	14						11	11	11	11	372
8 Five Mile Creek	46	46	46	46	46	46	46	46	46						43	43	43	43	1625
9 South Middleton Drain	120	120	120	120	120	120	120	120	120						105	105	105	105	4062
10 Middleton Town Drain	90	90	90	90	90	90	90	90	90						36	36	36	36	1860
11 Hartley Drain	10	10	10	10	10	10	10	10	10						9	9	9	9	357
12 Mason Creek	30	31	31	33	33	34	35	35	35						27	27	29	29	1045
13 Mason Drain	150	150	150	150	150	150	150	138	136						120	116	108	108	4187
14 Indian Creek	111	111	111	111	111	111	110	110	110						93	93	93	90	3405
15 Dixie Drain	29	29	29	29	29	29	29	28	28						23	23	23	23	889
Total	661	661	661	664	664	664	665	651	645						524	527	524	524	20126

JULY

No. Name of Tributary	1	2	3	4	5	6	7	8	9	10	11	12
1 Cottonwood Creek	6	6	6	6	6	7	7	7	8	5	5	5
2 Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10
3 Davis Drain	9	9	9	9	9	9	9	9	9	10	10	10
4 Collister Drain	8	8	8	8	8	8	8	8	8	8	8	8
5 Eagle Drain	37	35	31	41	40	37	41	45	40	45	44	41
6 Dry Creek Waste	5	4	4	4	3	3	3	3	3	3	3	3
7 Phyllis Waste	11	11	11	11	11	11	12	12	12	12	12	12
8 Five Mile Creek	37	37	29	42	40	38	38	36	36	34	34	33
9 South Middleton Drain	120	120	116	119	119	119	115	113	111	107	117	115
10 Middleton Town Drain	32	30	28	27	26	31	36	41	42	54	64	70
11 Hartley Drain	9	9	9	9	9	10	10	12	12	16	14	15
12 Mason Creek	28	27	27	26	25	27	30	31	35	37	40	42
13 Mason Drain	100	97	97	93	91	93	93	99	99	118	103	107
14 Indian Creek	96	83	82	78	76	74	80	86	89	89	92	91
15 Dixie Drain	24	25	24	28	30	31	27	25	26	26	27	26
Total	533	510	493	509	505	504	519	556	576	593	579	592

No. Name of Tributary	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
1 Cottonwood Creek	5	6	6	7	7	7	7	7	7	7	8	8	9	9	9	10	10	11	11	224
2 Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
3 Davis Drain	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	308
4 Collister Drain	10	10	10	10	10	10	10	10	10	10	10	10	11	11	9	9	9	9	9	345
5 Eagle Drain	39	39	36	40	40	41	42	43	44	43	44	44	46	45	44	44	44	44	44	1491
6 Dry Creek Waste	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	98
7 Phyllis Waste	11	11	11	11	11	11	11	9	9	8	7	8	8	8	6	7	7	8	8	301
8 Five Mile Creek	33	33	33	31	31	31	31	35	39	40	41	45	45	45	47	47	47	47	47	1250
9 South Middleton Drain	115	113	104	96	87	81	76	112	117	120	134	131	137	140	140	140	142	142	142	3595
10 Middleton Town Drain	70	79	78	66	59	51	65	77	71	61	55	51	46	43	13	11	11	11	11	1879
11 Hartley Drain	15	17	17	14	14	14	14	13	10	13	12	12	12	12	32	30	32	32	30	1066
12 Mason Creek	44	43	41	40	40	38	36	36	36	36	36	36	36	36	34	34	34	34	34	1045
13 Mason Drain	112	112	112	111	111	111	110	110	114	117	120	123	120	120	91	89	89	91	95	3691
14 Indian Creek	96	85	91	91	94	104	98	98	96	98	90	89	89	89	23	23	23	23	26	845
15 Dixie Drain	30	28	26	26	27	26	25	24	23	25	27	27	27	28	24	24	24	24	24	1944
Total	603	599	584	567	554	577	586	587	589	591	596	597	596	598	462	462	462	465	472	17446

Engineer in Charge ____ Date ____

AUGUST.

No. Name of Tributary	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
1 Cottonwood Creek	11	11	11	11	11	12	12	12	11	11	11	9	9	9	9	11	11	11	12	10	8	7	7	7	11	10	9	10	10	10	10	307
2 Boise Sewer	10	10	9	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
3 Davis Drain	11	11	11	11	11	13	13	13	12	12	12	12	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	294
4 Collister Drain	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	277
5 Eagle Drain	48	48	48	48	48	48	46	46	44	44	44	44	45	38	38	36	36	36	36	36	38	38	38	40	40	40	42	42	44	44	44	1294
6 Dry Creek Waste	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
7 Phyllis Waste	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	12	12	13	14	15	15	337
8 Five Mile Creek	47	46	47	47	46	46	45	45	45	46	47	48	48	21	22	24	20	17	17	16	14	13	11	12	20	20	21	21	20	19	16	879
9 South Middleton Drain	72	72	68	68	73	73	69	74	74	73	66	66	69	69	68	66	64	65	65	67	70	73	74	74	75	76	76	76	75	75	76	2264
10 Middleton Short Drain	36	36	36	41	50	64	74	74	73	73	69	66	67	42	38	22	26	30	28	26	22	19	19	19	18	17	17	17	17	18	21	1197
11 Hartley Drain	11	11	11	11	11	10	10	10	10	9	9	9	8	8	7	7	6	7	9	9	10	10	10	10	11	11	11	11	10	10	10	295
12 Mason Creek	64	64	65	67	68	68	68	67	66	65	64	65	65	18	12	7	6	6	7	9	11	13	13	12	11	10	10	9	10	10	9	605
13 Mason Drain	122	122	118	124	122	120	118	116	115	112	110	106	100	95	88	84	79	78	81	84	87	90	88	88	88	86	91	96	101	106	110	3147
14 Indian Creek	108	108	108	122	127	127	127	125	108	104	102	102	97	94	94	93	93	95	97	98	99	99	98	98	98	100	100	102	104	112	117	3048
15 Dixie Drain	28	31	29	34	31	28	27	24	27	26	25	26	26	26	26	26	27	26	26	26	25	26	26	27	24	23	23	24	22	24	26	739
Total	666	671	648	672	676	684	687	674	650	648	638	633	630	495	484	440	442	440	449	438	430	423	418	429	444	444	448	463	467	483	492	16,562

SEPTEMBER.

No. Name of Tributary	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
1 Cottonwood Creek	12	14	12	10	10	10	10	11	10	11	10	9	9	9	9	8	8	10	24	30	30	34	32	26	22	11	11	9	9	8	436
2 Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	300
3 Davis Drain	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	261
4 Collister Drain	9	9	9	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	287
5 Eagle Drain	42	42	42	42	40	38	38	38	36	36	36	36	35	35	35	35	35	35	35	35	35	35	36	36	36	38	38	38	38	38	38	1221
6 Dry Creek Waste	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	185
7 Phyllis Waste	15	16	17	17	17	16	16	16	16	16	16	16	11	11	11	9	9	9	9	9	8	8	8	8	7	7	7	7	7	7	7	376
8 Five Mile Creek	16	16	16	16	16	14	15	15	15	16	17	17	16	15	13	13	12	12	11	11	10	10	9	9	8	7	7	7	7	7	6	367
9 South Middleton Drain	76	76	77	78	79	81	83	82	80	78	76	75	75	75	75	75	75	75	75	72	70	69	67	66	63	60	60	60	58	58	57	2174
10 Middleton Short Drain	24	27	30	35	40	32	27	27	27	27	28	28	28	28	27	26	25	24	23	23	23	22	22	22	22	21	21	21	20	20	20	870
11 Hartley Drain	11	12	12	12	13	13	14	14	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	452
12 Mason Creek	9	8	8	8	8	7	7	7	8	9	10	11	11	12	13	14	14	16	16	16	16	15	15	15	13	21	21	21	22	22	22	428
13 Mason Drain	103	100	100	101	101	98	97	95	93	93	90	89	83	78	72	70	70	66	66	66	66	66	66	65	61	59	57	57	56	56	55	2365
14 Indian Creek	114	116	117	122	122	122	117	116	114	107	105	102	100	99	97	96	96	94	94	92	92	90	90	89	89	89	89	89	89	89	89	2917
15 Dixie Drain	26	26	28	29	30	31	31	27	29	31	28	25	24	23	22	22	22	22	23	23	23	24	24	24	24	25	25	25	24	24	24	764
Total	480	488	485	493	504	495	492	489	483	488	480	473	450	442	429	414	421	415	424	426	425	423	423	421	398	386	386	382	379	379	376	13,062

April | May | June | July | August | September

Plotted by ..... Checked by ..... Date .....

1923

CHART 6B.

AUGUST.

No.	Name of Tributary	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
1	Cottonwood Creek	5	5	6	5	5	5	5	6	10	11	11	11	11	10	10	10	10	1	1	12	5	6	6	6	6	5	5	5	5	5	5	174
2	Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
3	Davis Drain	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	294
4	Callister Drain	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	151
5	Eagle Drain	41	41	41	41	41	43	44	41	41	41	41	42	41	41	43	43	43	44	44	44	44	44	41	42	46	47	46	46	46	46	46	1252
6	Dry Creek Waste	2	2	2	3	3	3	2	2	2	3	3	3	3	2	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	59
7	Phyllis Waste	8	8	8	8	9	10	11	11	11	11	11	11	12	12	12	12	11	11	11	10	10	10	10	10	10	9	9	9	9	9	9	312
8	Five Mile Creek	35	26	26	30	30	31	32	36	41	40	35	34	30	30	38	38	26	26	26	26	23	22	23	23	24	24	23	23	23	24	23	1015
9	South Middleton Dr.	93	98	93	93	98	95	90	89	88	86	81	84	81	81	82	79	79	78	78	81	93	86	88	104	98	97	92	98	99	99	95	2815
10	Middleton Slough Dr.	8	8	8	8	8	9	9	9	10	11	13	12	11	11	11	12	13	12	6	12	12	14	22	20	30	26	29	19	21	26	14	409
11	Hartley Drain	12	12	12	12	12	12	11	11	11	12	12	12	13	14	15	15	16	16	17	12	18	18	18	17	12	17	17	16	15	16	17	447
12	Mason Creek	32	26	26	28	30	30	31	31	33	35	40	46	43	50	50	48	49	46	46	46	44	43	44	45	44	46	46	46	47	45	42	1248
13	Mason Drain	137	136	129	122	118	115	113	112	111	109	107	108	106	105	104	104	102	102	100	100	99	99	95	95	93	98	98	98	98	96	94	3014
14	Indian Creek	114	115	120	116	123	118	117	120	118	119	121	112	109	102	110	106	109	108	107	106	102	99	118	114	110	118	125	123	119	110	111	3397
15	Dixie Drain	30	30	30	31	32	31	32	32	31	31	30	30	29	28	30	30	30	30	30	30	29	29	29	29	30	30	31	30	29	30	31	928
	Total	536	532	531	536	533	531	523	540	536	536	531	514	518	509	514	504	517	502	495	557	495	516	517	530	520	523	538	543	520	515	520	16315

SEPTEMBER.

No.	Name of Tributary	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
1	Cottonwood Creek	6	5	5	5	5	5	6	8	11	15	15	15	14	13	12	12	12	13	15	16	16	15	15	13	14	13	12	10	9	9	335
2	Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	300
3	Davis Drain	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	325
4	Callister Drain	6	6	6	6	5	5	5	6	6	6	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	169
5	Eagle Drain	37	37	37	35	33	34	33	34	33	33	32	34	33	34	34	35	34	35	34	32	31	33	31	33	30	26	25	22	20	19	952
6	Dry Creek Waste	1	1	1	1	2	2	3	3	2	2	3	3	3	3	3	3	3	4	4	4	4	4	3	3	3	2	2	2	2	2	75
7	Phyllis Waste	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	9	9	9	9	8	8	9	9	9	9	10	10	10	10	269
8	Five Mile Creek	33	32	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	32	32	602
9	South Middleton Dr.	98	101	99	103	103	105	103	103	103	103	104	115	114	116	110	109	109	109	109	109	110	111	116	113	116	140	193	181	183	185	3492
10	Middleton Slough Dr.	19	12	11	28	30	16	15	14	15	23	15	17	14	12	11	12	11	13	13	15	12	11	15	12	16	18	44	54	54	54	618
11	Hartley Drain	19	18	18	19	20	21	22	22	23	22	21	20	19	18	17	16	15	16	17	18	19	21	23	25	27	30	28	29	26	25	632
12	Mason Creek	43	38	42	42	42	40	40	40	40	40	39	39	38	38	37	37	36	35	34	34	34	34	33	33	33	33	32	32	31	30	1102
13	Mason Drain	96	95	96	97	97	93	93	92	90	89	89	90	92	92	95	95	93	90	88	88	90	91	90	90	90	94	94	95	96	96	2765
14	Indian Creek	112	113	113	109	113	123	120	126	117	114	116	112	118	109	97	102	107	112	117	112	108	102	100	97	97	97	93	90	90	90	3229
15	Dixie Drain	32	33	34	35	35	34	33	32	30	29	26	30	31	31	32	32	31	30	30	30	30	31	29	28	28	28	28	32	27	27	916
	Total	521	514	510	528	525	527	526	528	524	537	520	533	527	519	501	506	508	511	515	513	517	521	511	507	529	538	610	570	548	537	15799

CHART 69

JUNE

#	Name of Tributary	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
1	Cottonwood Creek	35	32	30	30	27	29	24	18	23	25	20	22	28	30	34	32	30	30	28	19	18	17	16	16	16	16	14	13	12	10	697
2	Boise Sewer	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	480
3	Davis Drain	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	360
4	Collister Drain	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	120
5	Eagle Drain	31	31	31	31	31	30	30	30	30	30	31	31	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	930
6	Dry Creek Waste	16	17	24	31	35	40	30	30	15	15	5	5	5	5	5	5	30	30	30	30	30	35	35	35	35	35	35	35	35	35	1020
7	Phyllis Waste	12	12	12	12	12	12	12	12	11	11	11	11	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	309
8	Fire Mile Creek	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	1500
9	South Middleton Dr.	176	166	165	159	153	135	112	105	98	91	84	77	85	91	84	84	77	70	63	56	49	42	35	28	21	14	7	0	0	0	3339
10	Middleton Slough Dr.	99	92	86	80	73	66	59	52	45	38	31	24	17	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1243
11	Hartley Drain	10	10	10	10	10	9	8	8	9	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	277
12	Mason Creek	84	67	51	35	19	26	21	22	24	26	29	33	34	36	38	2	9	10	11	12	12	12	12	12	11	11	11	11	11	11	1026
13	Mason Drain	290	282	274	176	188	139	131	128	126	124	140	136	140	146	139	126	138	145	145	141	142	142	142	142	142	142	142	142	142	142	4363
14	Indian Creek	50	50	50	50	50	50	50	50	48	46	137	137	137	137	136	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	4056
15	Dixie Drain	31	30	27	24	20	22	24	24	23	24	24	24	25	26	27	27	27	28	29	26	26	26	26	26	26	26	26	26	26	26	792
	Total	964	904	854	801	746	709	658	634	607	657	656	662	682	693	696	724	710	793	824	687	593	87	581	0	543	835	766	704	654	624	22819

JULY

#	Name of Tributary	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
1	Cottonwood Creek	14	16	16	16	14	15	22	20	16	16	14	13	14	16	11	12	15	15	18	17	14	12	11	10	15	13	13	16	12	7	5	465
2	Boise Sewer	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	496
3	Davis Drain	11	11	11	11	11	11	12	12	12	12	12	11	11	11	11	11	10	10	10	10	10	10	10	10	12	12	11	11	10	10	10	345
4	Collister Drain	4	4	4	4	4	4	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
5	Eagle Drain	38	34	33	36	36	37	37	37	38	38	38	37	39	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	1364
6	Dry Creek Waste	15	12	3	3	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	109
7	Phyllis Waste	11	11	11	11	11	11	11	11	10	10	10	10	11	11	11	12	12	12	11	11	10	10	9	9	9	9	9	9	9	9	9	309
8	Fire Mile Creek	62	56	56	54	52	50	50	28	28	28	26	26	26	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	1000
9	South Middleton Dr.	95	95	104	102	111	114	120	120	121	120	120	126	126	129	211	100	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	3216
10	Middleton Slough Dr.	26	26	27	27	28	28	27	26	21	18	18	20	24	27	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	864
11	Hartley Drain	12	12	13	14	15	15	16	17	17	18	19	20	20	21	21	21	22	22	21	21	20	19	19	19	19	19	19	19	19	19	19	589
12	Mason Creek	34	34	32	30	32	35	31	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	868
13	Mason Drain	136	133	128	124	128	131	130	132	134	136	140	142	142	140	140	135	131	126	121	120	118	116	114	112	110	108	106	104	102	100	98	3744
14	Indian Creek	112	108	97	125	132	135	136	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	4092
15	Dixie Drain	24	26	27	28	27	27	27	27	27	27	27	27	26	25	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	837
	Total	598	587	589	624	663	665	676	635	621	603	613	577	596	628	719	613	774	764	725	733	680	67	660	0	687	674	643	617	603	581	567	20353

CHART 6.

TRIBUTARY AND RETURN FLOW TO BOISE RIVER, IRRIGATION SEASON 1923.

APRIL

No.	Name of Tributary	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
1	Cottonwood Creek	30	30	30	22	20	15	12	15	22	25	20	15	15	15	15	17	17	15	15	15	20	21	25	25	27	21	9	10	14		608
2	Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	9	10	12	12	12	12	12	306
3	Davis Drain	7	7	7	7	7	7	7	7	5	5	5	6	6	6	6	6	6	6	7	7	8	8	8	9	9	9	9	9	10	10	197
4	Callister Drain	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	120
5	Eagle Drain	6	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	6	6	6	7	7	7	6	6	6	7	11	11		124
6	Dry Creek Waste	12	12	10	10	9	8	8	8	7	7	6	3	3	4	4	3	3	10	10	10	9			5	5	5	4	3	2	2	207
7	Phyllis Waste	6	5	5	6	6	7	8	8	10	10	10	10	10	10	10	10	10	12	12	11	11	11	11	11	12	12	12	12	12		299
8	Five Mile Creek	30	30	30	34	40	54	65	72	84	73	64	63	52	30	22	18	12	7	7	8	10	11	12	12	20	32	34	35	50		1016
9	South Middleton Dr.	30	31	31	31	31	31	31	31	34	34	37	36	32	32	30	37	34	21	21	37	35	41	27	26	27	32	37	40	47		928
10	Middleton Stephens Dr.	34	34	32	30	27	24	21	18	15	12	08	06	04	02	00	16	12	7	10	10	11	12	12	12	12	12	12	12	12		734
11	Hartley Drain	5	5	5	5	5	5	5	5	5	4	4	4	5	5	5	6	6	6	7	7	7	7	7	9	9	9	9	10	10	10	197
12	Mason Creek	1	1	1	1	1	1	1	1	1	1	4	9	12	16	21	26	35	40	40	39	38	41	40	40	43	42	44	39	39		652
13	Mason Drain	45	43	44	44	45	46	47	48	52	53	56	59	62	65	68	73	79	82	92	100	112	118	120	121	130	140	150	160	170	171	2713
14	Indian Creek	50	52	67	82	97	112	127	142	157	140	139	119	115	136	126	120	111	105	100	103	96	91	87	82	85	80	76	73	75	85	3041
15	Dixie Drain	10	10	11	12	12	13	14	16	17	19	19	19	18	18	18	18	18	18	19	19	20	21	22	21	22	23	23	24	24		594
	Total	265	272	285	299	317	336	364	392	430	440	409	418	416	396	369	364	385	356	366	390	405	441	431	421	488	466	464	476	506		11773

MAY

No.	Name of Tributary	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
1	Cottonwood Creek	16	14	18	22	22	20	19	18	19	25	28	20	19	22	22	20	23	27	26	30	30	31	33	30	40	45	35	18	14	17		699
2	Boise Sewer	10	10	10	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	316
3	Davis Drain	10	10	10	8	9	9	9	7	7	7	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	11	308
4	Callister Drain	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	124
5	Eagle Drain	9	10	10	10	13	14	16	16	18	18	20	20	20	20	21	21	21	24	25	25	25	24	24	28	29	26	26	27	26	27	28	780
6	Dry Creek Waste	2	3	4	5	5	5	5	5	5	5	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1	12	20	27	30	35	42	235
7	Phyllis Waste	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	11	11	11	11	11	12	12	12	12	12	344
8	Five Mile Creek	69	84	97	111	104	92	96	83	71	70	68	67	56	46	42	68	94	120	129	136	142	147	152	147	142	136	126	94	87	84	3183
9	South Middleton Dr.	54	61	74	83	78	62	58	42	32	32	38	55	70	85	100	118	132	150	137	113	100	112	114	120	125	132	140	155	150		2762
10	Middleton Stephens Dr.	12	14	26	37	27	27	27	26	26	26	26	35	25	31	32	37	42	47	40	48	49	50	50	50	55	76	72	54	50		1291
11	Hartley Drain	11	12	13	14	14	13	13	12	12	11	11	12	12	10	9	9	11	12	11	9	8	9	9	9	9	9	10	10	10	10		325
12	Mason Creek	34	29	30	32	32	31	31	31	32	30	29	25	25	25	27	39	50	62	51	49	52	59	59	59	44	40	36	35	32	36		1129
13	Mason Drain	172	174	185	180	176	164	152	144	136	132	126	125	118	102	104	108	108	112	121	116	118	120	120	120	120	118	116	120	118	118		3936
14	Indian Creek	91	109	107	114	102	95	91	90	82	84	102	92	93	102	106	112	120	121	122	120	107	105	104	95	96	90	90	77	77			3345
15	Dixie Drain	26	28	31	34	31	28	25	26	26	32	32	29	25	30	30	33	36	40	39	35	36	35	35	33	41	34	42	32	31			993
	Total	532	567	624	667	644	614	576	566	549	551	557	567	525	580	603	683	760	866	840	834	839	874	884	864	907	926	904	819	805	833		21676

CHART-SE

SEPTEMBER

No.	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
1	U.S.R.S.	1545	1573	1557	1556	1582	1610	1596	1582	1556	1527	1514	1476	1463	1425	1415	1421	1395	1355	1336	1301	1301	1301	1301	1301	1301	771	771	765	765	693	36142
2	New York Stock	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
3	Penitentiary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	5	5	5	5	5	5	5	5	5	5	230
4	Fitzhugh	382	378	372	378	388	388	388	388	398	388	384	380	378	365	363	360	335	330	320	262	317	314	316	313	316	289	288	265	265	265	10311
5	Bubb	10	10	9	9	9	9	9	9	9	8	9	8	9	9	9	9	9	9	12	12	11	10	10	10	10	10	10	9	9	8	326
6	Gruzen	56	56	56	56	56	56	56	56	46	48	47	47	47	50	50	56	52	60	60	60	58	57	52	52	50	50	49	49	48	48	1566
7	Boise City No.1	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	150
8	Settlers	117	117	117	117	117	117	117	117	117	117	117	71	72	66	71	71	72	70	72	72	72	72	72	72	72	72	72	72	72	72	2645
9	Thurman Mill	18	18	17	16	16	15	15	16	17	18	20	20	20	23	25	25	24	32	32	24	21	24	32	24	26	27	30	30	30	30	694
10	Farmers Union + Ext	162	162	162	162	162	162	162	162	162	162	130	162	140	140	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	4272
11	Little Union	10	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	9	9	9	10	10	10	10	10	10	9	9	9	9	258
12	Dry Creek	45	45	45	45	44	45	44	45	42	42	40	40	40	40	40	40	40	40	40	40	50	50	50	50	50	50	50	50	50	50	1243
13	Ballentine	11	10	10	10	10	10	10	10	10	7	7	7	7	7	7	9	9	8	10	11	12	14	14	14	14	13	13	13	12	12	319
14	T Eagle Island Canal Co	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	850
15	Middleton Water Co	100	100	99	99	90	82	82	82	78	74	74	60	65	70	76	82	92	55	55	57	57	57	47	50	60	60	60	60	60	60	2165
16	Middleton Mill Ditch	48	48	48	48	41	35	37	37	35	34	35	33	33	33	33	33	33	60	52	43	45	45	45	46	47	48	49	49	48	48	1350
17	Phyllis	305	305	314	290	295	292	267	282	245	245	217	163	172	120	122	149	177	180	177	163	140	140	126	133	147	149	226	223	223	223	6083
18	Eureka No.1	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	5	7	7	7	7	7	16	16	17	21	16	16	15	15	308
19	Pioneer	18	16	16	15	14	12	12	12	10	9	9	15	18	13	19	10	10	25	10	11	11	11	15	16	17	18	18	18	17	17	438
20	Canyon County	50	50	52	52	56	51	51	51	51	51	51	51	51	48	44	44	44	46	46	45	51	51	51	55	60	68	56	56	56	56	1562
21	Caldwell High Line	20	29	34	24	32	37	24	24	26	34	32	29	20	12	15	15	15	15	13	17	8	8	8	8	8	6	8	8	8	8	364
22	Farmers Cooperative	198	205	208	196	187	188	188	187	165	162	208	208	206	201	176	176	176	176	176	170	160	160	160	158	160	160	162	162	162	162	5358
23	Canyon	10	11	12	12	10	12	9	10	16	20	20	16	21	21	14	14	16	18	22	22	14	14	14	14	18	18	16	15	15	14	483
24	Seibenberg	3	3	4	9	9	3	5	7	11	14	3	6	3	3	3	3	3	3	12	14	10	10	10	10	8	8	8	8	8	8	233
25	Riverside No.2	155	156	157	149	153	161	162	160	147	144	135	138	140	139	126	139	130	132	132	130	117	110	110	110	106	105	105	105	105	105	3588
26	Pioneer Ditch	29	33	38	33	33	35	41	40	38	36	36	37	36	38	30	33	33	40	40	40	42	42	42	42	40	40	40	40	40	40	1158
27	Eureka No.2	44	42	41	42	43	46	57	60	62	62	61	62	61	58	58	58	58	58	58	58	56	56	56	56	56	56	56	56	56	56	1636
28	Upper Center Point	12	11	12	12	11	11	15	15	10	10	10	12	9	9	8	9	11	14	16	16	12	12	12	13	12	12	13	12	12	12	378
29	Lower Center Point	9	6	8	5	5	4	5	9	8	9	8	10	10	5	7	5	6	7	8	8	8	8	8	8	8	8	8	8	8	8	207
30	Boise River at Notus	40	46	42	38	40	37	41	43	44	38	38	38	37	44	44	41	40	37	41	37	42	42	42	43	43	44	44	44	44	44	1289
31	Miscellaneous	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	558
	Total	3474	3500	3503	3464	3474	3467	3465	3479	3416	3376	3349	2923	2786	2650	2644	2672	2697	2693	2643	2583	2542	2527	2516	2532	2611	2613	2542	2507	2507		83

CHART 3D.

AUGUST

No.	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
1	U.S.R.S.	4[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]	[illegible]	[illegible]	[illegible]
2	New York Stock	114	131	131	131	131	131	131	131	131	131	131	81	81	81	81	81	81	0	0	0	131	131	0	0	0	0	0	0	0	0	0	2385
3	Pantenbary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	326
4	Pioneer	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	7440
5	Bubb	12	12	12	10	8	8	8	8	8	8	8	8	10	10	11	11	11	14	15	12	10	9	9	8	8	12	12	12	12	12	12	348
6	Cruzen	60	60	60	60	60	60	60	60	60	60	48	48	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	1812
7	Boise City No 1	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
8	Settlers	140	140	140	140	140	132	132	116	116	116	116	116	116	116	116	116	116	112	110	112	112	112	112	112	112	112	112	112	112	112	112	3378
9	Thurman Mill	30	30	30	27	27	33	33	27	27	27	27	28	24	24	24	21	21	21	21	21	24	24	20	19	19	19	19	19	19	19	19	724
10	Farmers Union 3 & 4	194	194	194	194	162	162	162	162	162	162	162	190	190	190	190	190	190	190	190	190	190	190	190	190	190	190	162	162	162	162	162	5606
11	Little Union	0	9	9	9	9	9	10	10	10	10	10	10	12	12	12	12	12	10	10	10	10	9	9	9	9	10	10	10	10	10	10	309
12	Dry Creek	70	60	50	46	52	46	56	52	50	50	46	46	50	50	50	50	48	40	32	41	40	40	41	41	40	40	40	40	45	45	45	1529
13	Ballantine	13	14	16	16	16	14	12	16	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	398
14	7 Eagle Island Canals	35	35	35	35	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	926
15	Middleton Water Co	34	85	103	98	93	88	83	82	77	77	76	76	76	77	77	76	75	74	64	58	62	61	85	87	96	98	99	100	101	100	100	2485
16	Middleton Mill Ditch	96	92	88	90	90	90	90	90	90	90	42	36	30	26	28	50	50	50	50	50	50	50	50	50	50	50	50	50	49	49	49	1768
17	Phyllis	403	403	394	370	354	394	386	386	394	394	394	392	382	382	382	382	382	376	320	352	368	354	372	366	382	366	362	366	366	366	366	11680
18	Eureka No 1	23	23	23	23	25	25	25	25	25	25	25	22	27	27	27	27	25	25	25	25	23	11	11	11	11	11	11	11	11	11	11	425
19	Pioneer	32	30	28	28	30	30	32	32	30	26	24	24	22	22	22	22	22	18	18	20	21	22	22	20	22	23	23	23	18	18	18	749
20	Canyon County	58	58	56	63	70	65	68	70	70	70	63	67	70	63	68	63	60	56	56	56	56	52	52	54	54	54	54	51	49	49	49	1842
21	Caldwell High Line	25	23	24	20	18	23	19	27	23	23	29	29	29	29	29	29	29	24	19	24	29	29	27	26	24	20	22	22	25	25	25	784
22	Farmers Cooperative	170	240	242	242	242	225	251	252	227	300	280	240	220	230	286	242	194	188	180	223	227	211	196	200	204	202	200	198	196	196	7002
23	Canyon	16	14	14	14	21	22	21	22	25	45	61	91	12	16	16	14	16	8	8	8	9	14	16	16	12	25	14	12	24	14	14	420
24	Siebenberg	12	13	10	12	13	14	15	14	8	14	14	10	6	12	12	12	10	10	8	8	9	2	2	6	10	3	3	3	3	3	3	287
25	Riverside No 2	184	182	187	182	176	171	169	165	158	157	159	153	151	150	150	152	163	182	170	176	166	157	140	140	145	158	157	157	158	157	157	5070
26	Pioneer Dune	32	34	33	28	32	32	33	32	28	27	24	22	20	11	8	26	26	26	27	28	18	5	18	21	25	25	25	24	25	25	25	736
27	Eureka No 2	39	44	43	50	51	52	50	50	45	40	42	40	37	44	41	39	44	40	42	43	37	31	39	41	44	45	40	40	41	41	41	1227
28	Upper Center Point	5	3	6	6	9	10	10	5	8	7	8	10	11	12	10	8	10	11	13	14	10	7	10	12	12	12	12	10	10	10	10	293
29	Lower Center Point	0	0	0	0	0	8	8	8	8	0	9	6	6	6	5	5	5	5	5	5	0	6	0	0	0	0	0	0	0	0	0	85
30	Boise Average Rates	70	39	33	33	32	57	85	57	44	42	42	53	52	65	58	48	34	29	33	14	142	11	92	92	65	68	65	60	61	63	63	1935
31	Miscellaneous	23	23	23	23	19	19	19	12	18	18	19	18	19	19	19	19	19	19	19	18	18	18	18	19	19	19	19	19	18	19	19	604
	Total.	4157	4142	4105	4099	4094	4133	4081	3983	3983	3956	3982	3989	3935	3966	3962	3866	3856	3794	3827	3951	3945	3711	3838	3864	3877	3820	3881	3846	3873	3870	3853	119533

CHART-3C.

July

No.	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
1	U.S.R.S.	1871	1881	1930	1945	1995	196	2139	2208	1786	1781	1721	1811	1226	1516	1862	1862	1935	1925	1925	1941	1911				1761	1741	1729	1729	1729	1729	1544	53992
2	New York Stock	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	7032
3	Farmers Canal	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	496
4	Independent	436	436	427	423	434	428	431	453	437	443	448	472	483	460	477	527	527	522	520	545	561	521			522	521	522	522	525	522	512	16120
5	Bubb	13	10	10	13	14	15	15	15	13	13	13	13	13	13	13	16	16	16	16	16	15				16	13	13	14	15	15	15	412
6	Cruzen	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52				52	52	52	52	52	52	52	1612
7	Base City No. 1	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
8	Settlers	183	154	182	170	170	170	170	183	183	183	183	190	183	183	183	183	183	183	181	183	183				183	183	183	183	183	183	183	5749
9	Thurman Mill	32	35	38	35	41	41	40	40	40	36	34	37	35	29	25	35	33	32	32	40	40				36	35	33	31	29	29	30	1102
10	Farmers Union Ext.	240	239	247	247	247	247	250	244	90	239	185	228	278	258	256	250	250	255	247	247	247				247	247	247	247	247	193	184	6908
11	Little Union	19	15	15	17	18	18	16	16	14	13	13	14	14	15	16	17	18	18	19	19	18				15	12	12	12	12	12	12	469
12	Dry Creek	0	0	73	73	73	74	76	65	77	69	60	66	60	70	74	74	81	80	80	80	80				0	68	70	72	72	72	70	1913
13	Ballantine	9	9	10	11	12	14	14	14	16	16	14	16	16	16	12	12	12	16	16	15	15				12	12	11	11	11	13	13	338
14	Teeple Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47				47	47	47	47	47	47	45	1445
15	Middleton Water Co.	106	106	110	108	105	115	126	127	127	128	127	136	120	116	102	96	88	77	62	66	57				44	65	61	61	62	43	47	2841
16	Middleton Mill Ditch	100	115	129	115	102	100	100	102	104	105	105	105	105	105	102	102	102	102	103	102	101				104	101	96	95	95	101	108	3211
17	Phyllis	454	454	471	467	467	468	452	0	430	472	476	405	477	477	481	0	0	444	423	451	453				462	458	458	458	458	457	457	13043
18	Eureka No. 1	23	23	23	27	27	27	27	0	27	27	27	27	27	27	27	0	0	27	25	25	25				25	27	27	27	27	23	23	735
19	Pioneer	25	28	31	34	36	36	36	38	38	36	32	34	30	30	26	24	22	20	17	19	21				24	24	24	22	18	18	0	807
20	Canyon County	72	85	90	90	89	87	81	74	69	73	61	67	94	100	106	113	102	88	76	78	80				77	75	73	70	65	62	60	2544
21	Caldwell High Line	87	100	100	100	90	100	100	102	106	107	107	36	106	106	0	48	50	50	52	54	54				56	50	46	46	46	34	30	2166
22	Farmers Cooperative	372	372	372	372	372	372	338	279	303	298	372	409	192	334	348	340	324	375	372	372	372				396	394	396	393	331	299	290	10904
23	Canyon	24	24	23	23	23	12	18	18	18	18	11	18	21	22	22	0	9	10	10	23	20				15	7	7	7	7	7	8	423
24	Seibenberg	10	10	16	13	16	10	12	12	12	12	12	12	12	21	21	21	22	14	8	12	12				12	10	5	5	3	3	12	335
25	Riverside No. 2	190	196	210	238	244	244	240	208	204	205	202	180	200	180	176	196	189	208	207	206	208				242	240	198	196	194	194	194	6281
26	Pioneer Ditch	26	31	31	26	32	36	36	30	26	23	20	16	16	16	22	23	19	21	23	19	24				36	41	37	33	33	31	25	808
27	Ricarte No. 2	50	50	72	48	44	48	48	48	48	50	50	50	60	60	50	38	30	30	40	40	36				36	36	47	46	45	44	47	1493
28	Upper Center Point	14	16	18	17	16	16	18	18	14	15	17	8	16	15	13	12	12	12	11	12	9				11	10	10	10	9	9	7	386
29	Lower Center Point	10	11	12	10	8	11	16	17	17	18	19	12	18	19	18	16	16	16	14	15	14				12	12	12	13	10	6	2	426
30	Boise River Rights	1980	1810	1690	1590	1590	1525	1470	173	188	231	109	109	41	179	2340	2340	2325	2310	2295	2331	2217				1791	2103	1851	1836	1815	927	744	49727
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31				31	31	31	31	31	31	23	953
	Total.	6624	6676	6808	6574	6670	6610	6785	4730	4830	5366	4771	4927	4960	5076	5758	4954	4854	5060	5204	5269	5119	540			4824	4858	4778	4756	4746	4426	4150	164078

DRAFT-SE

No.	Name of Canal	LINE 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
1	U.S.R.S.	2195	1956	2028	2065	2(illegible)	2174	2121	2072	2081	2091	2094	2154	2112	2060	2095	2117	2122	2102	2169	2150	2144	2181	(illegible)	(illegible)	1971	1291	1664	1484	1671	1258	(illegible)
2	New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277		277	277	277	277	277	277	277	3324
3	Penitentiary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		10	10	10	10	10	10	10	300
4	Ridenbaugh	327	315	324	328	327	324	292	303	320	314	329	324	408	402	407	404	400	397	390	407	404	370		273	224	322	340	324	403	420	11204
5	Bunn	11	12	10	10	10	10	12	11	11	11	5	5	5	12	12	14	14	14	14	14	14	14		15	17	12	13	13	13	12	322
6	Grezer	70	65	68	66	66	66	68	64	60	60	62	62	66	66	66	62	62	62	62	62	62	62		62	62	62	64	62	62	62	1808
7	Boise City No.1	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	150
8	Settlers	126	123	124	123	129	129	132	129	129	129	129	129	129	129	129	129	162	162	162	162	162	162		122	122	122	122	129	116	119	4092
9	Thurman Mill	36	36	35	35	33	32	30	30	30	30	37	36	24	23	23	20	20	20	18	18	18	18		19	24	22	24	28	26	25	788
10	Farmers Union-B.V.	195	195	195	195	195	195	195	195	195	195	244	240	229	228	228	228	228	228	228	228	228	228		217	217	217	217	217	224	224	6923
11	Little Union	6	6	7	7	7	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10		10	10	10	10	10	12	12	347
12	Dry Creek	63	60	62	60	61	62	62	63	63	63	76	76	82	82	82	84	84	84	66	74	72	72		62	62	62	62	62	62	62	1991
13	Ballentine	16	16	16	16	16	17	17	18	18	18	20	5	5	5	5	12	11	11	11	11	9	9		8	7	8	11	11	8	8	362
14	Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47		47	47	47	47	47	47	47	1410
15	Middleton Water Co.	69	69	69	69	69	69	69	69	69	69	101	117	113	107	103	97	97	97	93	93	93	93		80	77	81	93	99	107	106	2422
16	Middleton Mill Ditch	73	74	76	78	80	81	82	80	81	80	93	96	98	100	102	100	113	116	90	92	92	92		24	22	20	80	82	80	80	2314
17	Phyllis	0	0	0	0	0	0	0	0	0	0	420	432	432	432	432	426	414	414	402	372	372	372		220	200	191	191	347	400	414	9085
18	Eureka No1	0	0	0	0	0	0	0	0	0	0	17	17	17	17	16	14	14	14	11	8	8	6		8	20	27	27	27	23	23	367
19	Pioneer	19	19	19	19	19	22	25	30	32	32	33	34	34	34	30	30	30	26	26	26	26	26		15	18	13	13	15	19	22	719
20	Canyon County	57	57	57	57	57	57	57	58	66	36	87	97	98	91	97	85	81	28	28	72	72	72		70	70	68	66	67	68	75	2161
21	Caldwell High Line	17	17	17	16	10	12	12	37	37	37	55	71	72	72	70	69	40	32	16	42	42	42		12	09	14	10	10	55	22	1142
22	Farmers Cooperative	322	324	316	318	312	291	323	293	345	290	351	292	318	335	307	290	286	335	321	304	333			298	295	324	324	296	286	302	8102
23	Canyon	19	18	19	18	15	15	15	17	17	17	12	12	10	10	5	10	20	14	13	13	13	13		15	18	20	27	23	20	20	764
24	Seibenberg	9	10	12	14	16	17	14	12	12	8	5	5	10	10	10	14	14	12	12	10	9	9		13	13	14	14	11	15	14	355
25	Riverside No.2	160	160	158	156	152	155	154	150	150	152	200	202	192	190	178	170	170	141	138	162	162			135	136	102	112	132	142	162	4226
26	Pioneer Dixie	41	39	38	36	34	30	28	26	24	22	20	20	20	18	20	20	20	18	16	16	16			5	6	5	5	6	5	5	607
27	Eureka No.2	55	54	50	45	40	40	37	37	37	36	41	41	50	52	50	50	57	52	57	57				62	66	46	62	62	62	63	1531
28	Upper Center Point	10	9	7	7	6	6	5	4	4	4	6	6	6	7	8	9	11	14	14	13				11	11	8	15	15	13	10	271
29	Lower Center Point	9	9	7	13	12	14	12	7	7	7	12	9	9	8	16	16	16	14	14	12				12	14	14	11	11	18	19	334
30	Boise River at Notus	4116	3920	3920	2330	1980	2060	1980	1848	3220	5412	5920	5920	6198	5920	5920	5920	1980	1848	1848	1650	1650			3300	2970	2970	2970	2970	2640	2640	92895
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31				31	31	31	31	31	31	31	930
	Total	8595	7830	8186	6850	6689	6893	6864	7389	8432	9581	9774	10156	11178	10178	9514	9039	8648	8388	8407	8778	8			7277	6981	6668	6668	6830	6861	6878	243672

CHART #7

MAY

No.	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
1	U.S.B.S.	1444	1010	1091	1112	1101	1142	1148	1128	1111	1113	1112	1132	1104	1108	1101	1101	1101	1112	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111	34444
2	New York Stock	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	6882
3	Centennary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
4	Ridenbaugh	393	395	390	391	390	396	398	390	390	390	395	392	392	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	394	12214
5	Bush	45	45	45	45	45	45	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	1364
6	Cruzan	61	60	60	60	60	61	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	1856
7	Boise City No. 1	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
8	Settlers	165	165	162	162	162	162	162	162	162	162	162	162	162	162	0	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	5022
9	Pioneer Mill	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	930
10	Farmers Union Ditch	201	201	201	200	205	211	211	163	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	233	7208
11	Little Union	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	372
12	Dry Creek	33	33	33	33	34	34	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	1004
13	Ballantine	18	16	17	16	16	16	18	18	18	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	504
14	Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
15	Middleton Water Co.	96	86	86	77	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	2372
16	Middleton Mill Ditch	100	101	101	101	100	92	98	95	95	94	92	92	90	102	104	106	110	110	110	100	100	100	100	100	100	100	100	100	100	100	100	3098
17	Phyllis	435	422	425	436	433	430	440	440	441	441	440	438	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	13640
18	Eureka No. 1	13	13	13	0	13	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	0	0	0	0	0	0	0	0	0	0	403
19	Pioneer	24	23	20	19	21	21	25	22	22	22	22	22	22	22	22	22	22	22	22	21	21	0	0	0	0	0	0	0	0	0	0	622
20	Canyon County	96	96	96	96	96	96	0	96	96	96	96	96	96	96	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	2208
21	Caldwell High Line	65	64	65	64	62	65	65	62	65	64	64	64	64	0	32	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	2944
22	Farmers Cooperative	310	310	300	300	300	302	300	288	268	292	296	296	328	328	328	328	314	324	304	278	278	278	278	278	278	278	278	278	278	278	278	9162
23	Canyon	14	16	21	21	19	14	10	12	18	23	23	23	23	23	21	21	18	17	14	16	6	6	6	6	6	6	6	6	6	6	6	497
24	Seibenberg	17	16	17	18	8	8	12	7	8	12	12	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	396
25	Riverside No. 2	6	0	0	0	0	180	178	180	182	180	180	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	6382
26	Pioneer Dixie	40	40	38	36	36	38	33	33	33	33	30	28	25	25	25	31	29	29	23	23	23	23	23	23	23	23	23	23	23	23	23	1000
27	Eureka No. 2	48	48	64	64	64	60	64	60	60	62	64	64	68	68	68	68	20	20	20	58	56	39	24	24	24	24	24	24	24	24	24	1268
28	Upper Conner Point	12	14	14	14	14	13	14	12	14	14	16	9	8	12	14	14	12	11	11	11	9	9	9	9	9	9	9	9	9	9	9	372
29	Lower Conner Point	6	6	9	12	9	9	7	7	7	11	12	12	12	14	14	14	14	12	12	10	10	10	10	10	10	9	9	9	9	9	9	304
30	Boise River at Notus	730	810	695	535	495	360	238	129	81	87	107	160	109	137	102	275	224	210	220	230	230	72	230	230	230	230	230	230	230	230	230	7440
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
	Total	5344	5417	5327	5136	5088	5227	5042	5019	4976	5147	5230	5309	5260	5243	5158	5466	5436	5474	5453	5749	5746	5376	5481	5481	5481	5481	5481	5481	5481	5481	5481	169,532

CHART 5

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS

BY D.F.T. DURING THE IRRIGATION SEASON OF 1923. INCLUDING STORAGE.

APRIL

No.	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
1	U.S.R.S.	462	566	1183	1181	1236	1255	1270	1246	1247	1247	1246	1244	1221	1222	1221	1200	1201	1202	2023	2002	2019	2040	2040	2040	2040	2040	1941	2070	1952	2070	59522
2	New York Stock	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	227	6810
3	Penitentiary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	96
4	Ridenbaugh	60	49	72	87	106	132	128	141	168	174	188	213	250	262	284	298	322	330	379	345	345	345	345	345	370	370	355	292	346	364	7665
5	Bubb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	14	18	10	10	10	14	14	14	14	12	12	12	12	13	15	180
6	Gruzen	20	20	20	20	30	34	34	34	36	34	30	42	42	42	42	44	46	48	48	47	47	47	47	47	55	55	55	55	50	50	1273
7	Boise City No. 1	0	0	0	0	0	0	0	0	0	0	0	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
8	Settlers	0	0	0	0	14	17	18	18	14	14	26	33	26	42	103	110	123	127	142	150	162	162	162	162	162	162	162	162	158	162	2544
9	Thurman Mill	0	0	0	0	6	6	6	6	0	0	0	0	0	0	0	20	20	20	20	20	20	20	23	23	23	23	25	29	28	30	327
10	Farmers Union No. 2	30	30	30	30	30	30	30	30	30	30	30	68	61	65	65	100	130	110	165	173	165	165	179	201	201	201	201	201	201	201	3195
11	Little Union	3	2	2	2	3	4	5	5	5	4	5	6	6	5	5	5	6	6	6	6	6	6	6	6	6	8	8	10	11	11	162
12	Dry Creek	2	0	0	0	0	0	0	0	0	0	0	0	5	7	9	14	16	18	20	24	26	28	28	30	30	30	30	32	32	32	416
13	Ballentine	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	6	7	7	7	8	8	8	12	14	14	16	16	16	192
14	Locke Island Canals	0	0	0	0	0	0	0	0	0	0	22	22	22	24	24	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	840
15	Middleton Water Co.	6	6	6	6	6	6	6	6	6	6	6	18	18	18	25	62	122	127	130	123	116	116	124	126	118	116	102	96	100	100	1957
16	Middleton Mill Ditch	0	0	0	0	0	0	0	0	0	0	71	74	76	73	72	71	77	83	93	88	94	92	91	92	96	99	100	100	100	107	2407
17	Phyllis	20	162	127	142	186	180	197	217	226	248	253	243	312	337	368	398	406	420	426	417	394	394	398	413	427	435	411	435	422	443	9268
18	Eureka No. 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18	16	23	12	18	12	12	173
19	Pioneer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	19	20	21	21	21	26	26	26	26	26	25	24	399
20	Canyon County	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	42	42	79	83	87	95	101	101	101	101	816
21	Caldwell High Line	5	5	5	5	5	6	5	5	5	0	5	8	16	12	12	8	6	23	57	63	61	62	63	76	76	76	76	76	78	54	945
22	Farmers Cooperative	0	0	0	0	0	0	0	0	0	50	90	90	90	100	100	112	120	120	120	150	150	150	245	224	218	225	235	282	290	290	3566
23	Canyon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	12	15	15	12	12	12	15	15	15	15	15	15	15	15	237
24	Seltenberg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	45	45	16	14	17	18	16	18	18	18	339
25	Riverside No. 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	135	142	155	142	127	127	126	166	166	171	172	182	183	173	2335
26	Pioneer Dixie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	6	12	12	35	35	38	38	40	42	42	42	372
27	Eureka No. 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32	32	40	40	40	40	48	48	48	48	48	48	48	48	736
28	Upper Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	10	11	11	11	62
29	Lower Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	5	5	5	5	35
30	Boise River at Notus	495	490	495	410	550	625	666	662	625	582	535	510	410	295	215	170	195	223	147	114	83	84	125	142	146	163	225	625	1146	1146	11496
31	Miscellaneous	0	0	0	0	0	0	0	0	0	0	45	45	45	45	45	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	558
	Total	1860	1970	2070	2165	2463	2565	2733	2808	2862	3035	3122	3217	3352	3357	3377	3370	4038	4346	4361	4415	4281	4284	4317	4379	4384	4400	4128	4392	4478	4578	103778

1923

CHART 6B.

AUGUST.

No.	Name of Tributary	1	2	3	4	5	6	7	8	9
1	Cottonwood Creek	5	5	6	5	4	9	8	10	10
2	Boise Sewer	10	10	10	10	10	10	10	10	10
3	Davis Drain	9	9	9	9	9	9	9	9	9
4	Callister Drain	5	5	5	5	5	6	6	5	5
5	Eagle Drain	41	41	41	41	41	43	44	41	41
6	Dry Creek Waste	3	3	3	3	3	3	3	3	3
7	Phyllis Waste	5	5	5	5	5	10	6	11	11
8	Five Mile Creek	35	36	36	30	30	31	32	36	41
9	South Middleton Dr.	91	94	92	96	95	95	97	97	89
10	Middleton Slough Dr.	7	8	8	8	8	9	9	9	10
11	Hartley Drain	17	13	13	12	12	13	11	11	11
12	Mason Creek	34	36	36	28	30	30	31	31	39
13	Mason Drain	137	136	129	123	114	115	113	112	111
14	Indian Creek	116	115	120	136	123	118	117	130	118
15	Dixie Drain	30	30	30	31	32	33	32	32	31
	Total	536	532	531	536	533	531	523	540	538

No.	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
1	10	11	11	11	10	10	10	10	11	11	12	12	12	12	8	6	6	6	5	5	5	7	274
2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
3	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	290
4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	151
5	41	41	41	42	41	41	43	43	43	44	44	44	44	41	39	40	37	36	36	36	35	37	1256
6	3	3	3	2	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	59
7	11	11	11	12	12	12	12	11	11	11	10	10	11	10	10	10	9	9	9	9	9	9	312
8	40	38	34	30	30	28	26	26	25	24	23	22	21	20	20	20	21	22	23	23	24	23	844
9	90	91	91	91	91	92	93	92	93	93	91	92	94	96	98	98	98	98	98	99	99	98	3316
10	11	10	9	13	11	11	11	12	13	12	6	12	15	14	22	20	20	26	28	19	21	22	509
11	12	12	12	13	14	15	15	16	16	17	12	15	15	18	17	12	17	17	16	15	16	17	487
12	35	46	46	53	50	50	49	49	46	46	45	44	44	44	45	44	46	46	46	47	47	48	1268
13	109	108	106	105	104	102	102	102	100	100	100	98	98	98	98	98	98	98	98	98	96	96	3234
14	119	121	112	104	102	110	106	109	108	108	137	146	146	123	119	114	110	118	125	123	109	110	3691
15	31	30	29	27	27	26	28	30	30	30	30	25	25	29	29	30	30	31	36	29	30	31	925
	Total	526	531	514	518	508	514	504	517	502	535	537	495	516	517	530	520	523	538	543	520	515	526	16315

SEPTEMBER.

No.	Name of Tributary	1	2	3	4	5	6	7	8	9
1	Cottonwood Creek	6	5	6	5	5	5	6	8	11
2	Boise Sewer	10	10	10	10	10	10	10	10	10
3	Davis Drain	10	10	10	10	10	10	10	10	10
4	Callister Drain	6	6	5	6	5	5	5	6	6
5	Eagle Drain	37	37	37	35	33	34	33	34	33
6	Dry Creek Waste	1	1	1	1	2	2	2	2	2
7	Phyllis Waste	9	9	9	9	9	9	9	9	9
8	Five Mile Creek	23	22	20	20	20	20	20	20	20
9	South Middleton Dr.	95	101	99	105	103	105	103	103	103
10	Middleton Slough Dr.	19	12	11	28	20	16	15	14	15
11	Hartley Drain	18	18	18	19	20	21	22	22	23
12	Mason Creek	43	42	42	42	42	40	40	40	40
13	Mason Drain	96	95	96	94	94	93	93	92	90
14	Indian Creek	112	113	113	109	113	123	120	120	117
15	Dixie Drain	32	33	34	35	35	34	33	32	30
	Total	521	514	510	528	525	527	526	526	524

No.	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total
1	11	15	15	14	13	12	12	12	12	15	16	16	15	15	13	14	13	12	10	9	9	335
2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
3	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	325
4	6	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	169
5	33	33	34	33	34	34	35	34	35	34	32	31	31	31	32	30	26	25	22	20	19	852
6	2	3	3	3	3	3	3	3	4	4	4	4	4	3	3	3	2	2	2	2	2	75
7	9	9	8	8	8	8	8	9	9	9	8	8	8	8	8	9	9	10	10	10	10	269
8	20	20	19	18	18	18	19	19	19	19	19	20	21	20	20	20	20	21	21	22	22	602
9	101	104	115	114	116	110	109	112	108	109	110	114	114	116	113	114	140	193	151	133	125	3492
10	15	15	17	14	12	11	12	11	13	13	15	12	14	15	12	16	18	24	34	34	34	618
11	22	21	20	19	18	17	16	15	16	17	18	19	31	33	25	27	30	28	29	26	25	632
12	40	39	39	38	38	37	37	36	35	34	34	34	34	33	33	33	33	32	32	31	30	1102
13	95	99	98	98	96	95	95	93	90	88	88	90	91	90	90	90	94	94	95	96	96	2765
14	114	116	118	118	109	97	102	107	112	117	112	108	101	100	92	97	97	93	90	90	90	3329
15	29	30	30	31	31	32	32	31	30	30	30	30	30	31	29	28	28	28	27	27	27	916
	Total	537	540	533	527	519	501	506	508	511	515	513	517	521	511	507	529	538	610	570	548	537	15789

CHART 6A

JUNE

#	Name of Tributary	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Cottonwood Creek	35	32	32	30	27	28	24	18	22	25	26	24	28	30	31	32	30	28	26	18	12	7	10
2	Boise Sewer	12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8
3	Davis Drain	12	12	12	12	12	12	12	12	12	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4	Collister Drain	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	Eagle Drain	31	31	31	31	31	33	33	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31
6	Dry Creek Waste	10	17	24	21	25	20	20	20	15	12	9	9	9	9	9	9	9	9	9	9	9	9	9
7	Phyllis Waste	12	12	12	12	12	12	12	12	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10
8	Fire Pike Creek	90	96	102	112	108	125	112	108	98	91	84	90	90	91	92	100	90	100	104	102	106	110	110
9	South Middleton Dr.	136	166	157	148	139	131	122	118	113	104	96	96	90	90	90	90	90	100	104	102	106	110	110
10	Middleton Slough Dr.	99	82	76	69	65	60	55	55	52	50	53	52	50	50	50	50	105	112	118	126	130	134	134
11	Hartley Drain	16	12	10	10	10	9	8	8	9	10	10	9	9	9	8	8	8	9	10	11	12	12	12
12	Mason Creek	94	67	52	38	19	20	21	22	24	26	29	33	34	36	38	40	42	44	46	44	42	40	38
13	Mason Drain	290	232	214	176	138	129	121	128	136	144	149	156	162	165	169	176	180	185	189	191	188	184	180
14	Indian Creek	90	81	86	92	97	98	90	94	108	112	107	112	107	112	116	106	108	106	106	102	98	94	90
15	Dixie Drain	31	30	27	24	26	22	24	24	23	24	24	24	25	26	27	27	27	28	29	30	30	30	30
	Total	964	904	854	801	744	709	658	654	607	654	656	662	682	693	696	726	710	793	824	857	593	874	862

#	Name of Tributary	24	25	26	27	28	29	30	Total
1	Cottonwood Creek	10	16	16	14	12	10		657
2	Boise Sewer	8	10	10	10	10	10		302
3	Davis Drain	10	10	10	10	10	10		346
4	Collister Drain	4	4	4	4	4	4		130
5	Eagle Drain	31	31	31	31	31	31		1044
6	Dry Creek Waste	9	9	9	9	9	9		439
7	Phyllis Waste	10	10	10	10	10	10		337
8	Fire Pike Creek	110	110	110	110	110	110		3639
9	South Middleton Dr.	134	134	134	134	134	134		3819
10	Middleton Slough Dr.	134	134	134	134	134	134		3726
11	Hartley Drain	12	12	12	12	12	12		368
12	Mason Creek	36	34	32	30	28	26		1142
13	Mason Drain	176	172	168	164	160	156		4096
14	Indian Creek	86	82	78	74	70	66		3393
15	Dixie Drain	30	30	30	30	30	30		793
	Total	643	835	766	704	644	624		22919

JULY

#	Name of Tributary	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Cottonwood Creek	14	16	16	10	14	15	22	20	18	16	14	12	16	19	11	13	15	12	18	12	16	14	12
2	Boise Sewer	11	10	10	10	16	10	10	16	16	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3	Davis Drain	11	11	11	11	11	11	12	12	12	12	12	12	11	11	11	11	11	11	11	11	12	12	12
4	Collister Drain	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	Eagle Drain	32	34	33	36	36	37	37	37	38	38	38	37	39	44	44	44	45	45	43	43	43	44	44
6	Dry Creek Waste	15	12	8	3	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
7	Phyllis Waste	11	11	11	11	11	11	11	11	10	10	11	11	11	11	11	12	12	12	11	11	10	10	9
8	Fire Pike Creek	62	56	46	64	52	30	30	28	28	32	36	40	40	36	36	34	32	30	28	26	24	22	20
9	South Middleton Dr.	95	98	102	104	111	114	120	120	126	130	116	120	120	120	120	118	100	92	90	86	82	78	74
10	Middleton Slough Dr.	26	26	27	27	28	28	27	24	21	18	18	20	22	23	23	22	68	70	72	74	76	78	80
11	Hartley Drain	12	12	12	14	15	15	16	17	17	18	19	20	20	21	21	22	22	22	21	21	20	20	20
12	Mason Creek	34	34	32	30	32	30	31	28	26	24	22	22	24	26	28	30	32	34	36	38	40	42	44
13	Mason Drain	134	142	148	154	158	161	150	142	136	130	127	124	122	120	118	120	121	122	123	120	116	112	108
14	Indian Creek	112	108	97	126	152	140	136	132	124	120	122	124	118	116	114	120	92	102	106	109	112	115	118
15	Dixie Drain	24	26	27	27	27	27	27	27	27	27	27	27	26	25	25	32	33	35	36	37	38	39	40
	Total	598	587	589	624	663	665	676	635	626	603	613	577	596	628	719	913	774	769	725	733	686	674	662

#	Name of Tributary	24	25	26	27	28	29	30	31	Total
1	Cottonwood Creek	10	15	13	13	10	7	5		425
2	Boise Sewer	10	16	16	16	16	16	16		316
3	Davis Drain	12	12	12	12	12	12	12		346
4	Collister Drain	5	5	5	5	5	5	5		144
5	Eagle Drain	44	44	44	44	44	44	41		1277
6	Dry Creek Waste	3	3	3	3	3	3	3		109
7	Phyllis Waste	9	9	9	9	9	9	9		326
8	Fire Pike Creek	20	20	22	22	22	22	20		1241
9	South Middleton Dr.	74	74	74	74	74	74	74		3662
10	Middleton Slough Dr.	80	80	80	80	80	80	80		1830
11	Hartley Drain	20	20	20	20	20	22	24		523
12	Mason Creek	46	48	50	52	54	56	58		1438
13	Mason Drain	104	100	96	92	88	84	80		3393
14	Indian Creek	121	124	127	130	133	136	139		3538
15	Dixie Drain	40	40	40	40	40	40	40		1044
	Total	687	674	643	617	603	591	587		20355

CHART 6.

TRIBUTARY AND RETURN FLOW TO BOISE RIVER IRRIGATION SEASON 1923.

APRIL

No.	Name of Tributary	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
1	Cottonwood Creek	30	30	30	25	20	15	12	19	21	25	29	25	15	19	16	17	17	16	15	19	25	21	21	21	21	18	21	19	15	14	630
2	Boise Sewer	12	10	12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	12	12	12	12	12	340
3	Davis Drain	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	7	7	9	9	9	9	9	10	10	10	10	10	197
4	Collister Drain	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	130
5	Eagle Drain	6	6	6	6	6	2	2	2	2	2	2	2	2	2	2	2	2	6	6	6	7	6	6	6	6	6	6	7	11	11	134
6	Dry Creek Waste	12	12	10	10	9	8	8	8	7	7	6	5	4	4	3	3	3	10	10	10	9	5	5	5	4	3	2	2	2	2	207
7	Phyllis Waste	5	5	5	6	6	7	8	8	10	10	10	10	10	10	10	10	10	10	10	11	10	11	11	12	12	12	12	12	12	12	288
8	Five Mile Creek	30	30	30	34	45	54	65	73	84	73	64	53	42	30	22	18	13	7	7	9	16	17	20	28	24	35	35	35	45	45	1015
9	South Middleton Dr.	36	31	31	31	31	31	31	31	34	34	37	36	34	32	30	27	24	21	21	27	33	26	27	33	33	37	30	37	37	37	934
10	Middleton Slough Dr.	34	34	32	30	27	24	21	18	15	17	19	23	24	20	22	16	10	2	10	14	14	12	12	12	12	12	12	12	12	12	714
11	Hartley Drain	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	7	7	7	9	9	9	9	10	10	10	10	10	197
12	Mason Creek	1	1	1	1	1	1	1	1	1	1	1	5	10	16	22	30	38	46	50	58	58	50	42	34	26	18	10	2	1	1	632
13	Mason Drain	45	43	44	44	45	46	47	48	52	53	56	59	63	67	68	73	72	84	92	100	115	102	102	102	102	102	102	102	102	102	2718
14	Indian Creek	50	52	67	82	97	112	127	142	157	140	134	128	140	136	126	120	112	105	100	103	96	90	84	78	72	66	60	54	48	42	2961
15	Dixie Drain	6	10	11	12	12	13	14	16	18	19	19	17	16	15	13	12	15	18	18	19	19	25	21	22	22	23	23	24	24	24	594
	Total	266	272	285	299	317	336	364	392	430	445	409	418	418	393	366	364	355	356	366	390	405	401	401	409	406	408	420	426	405	406	11773

MAY

No.	Name of Tributary	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
1	Cottonwood Creek	16	16	19	22	22	20	19	19	19	25	25	20	19	20	20	26	28	27	26	25	25	20	19	17	15	15	15	15	16	17	17	639
2	Boise Sewer	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	310
3	Davis Drain	10	10	10	9	9	9	9	9	9	9	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	10	305
4	Collister Drain	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4	4	4	4	4	4	4	4	4	4	124
5	Eagle Drain	9	10	10	10	13	14	16	16	19	18	20	20	20	20	21	21	21	24	25	25	25	28	28	28	26	26	26	28	26	27	27	780
6	Dry Creek Waste	2	3	4	4	5	5	5	5	5	5	5	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	3	235
7	Phyllis Waste	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	10	10	10	10	11	11	11	11	11	11	12	12	12	12	12	341
8	Five Mile Creek	69	84	97	111	104	97	90	83	77	70	68	62	56	46	42	68	94	120	125	136	142	142	142	140	134	130	125	94	87	87	3183
9	South Middleton Dr.	54	61	72	83	93	62	53	42	34	32	38	53	70	85	100	115	127	135	137	115	100	112	114	120	122	124	126	126	130	130	2962
10	Middleton Slough Dr.	12	14	26	37	27	27	27	26	26	26	26	28	29	31	32	37	42	44	40	47	49	50	52	50	50	50	70	50	54	50	1281
11	Hartley Drain	11	12	13	14	14	13	13	12	11	11	11	10	10	9	8	9	11	12	11	9	8	9	9	9	9	10	10	10	10	10	10	345
12	Mason Creek	34	29	30	32	32	31	31	31	32	30	29	28	27	28	27	39	50	62	51	49	52	39	40	40	39	38	36	37	36	36	1128
13	Mason Drain	102	104	105	100	100	104	102	104	96	100	96	105	108	102	102	104	103	102	101	100	100	100	100	100	102	216	204	210	199	196	3536
14	Indian Creek	91	100	107	114	105	95	91	90	94	94	101	92	91	102	106	112	110	101	102	104	104	95	86	86	84	95	86	84	88	77	3046
15	Dixie Drain	26	28	31	34	31	28	25	26	26	27	27	29	29	30	30	31	31	32	33	36	36	34	34	33	33	32	32	31	30	30	903
	Total	532	567	624	667	641	614	576	566	567	551	557	567	575	590	603	680	765	830	840	834	839	804	787	790	836	862	850	809	833	816	21676

CHART-SE.

SEPTEMBER

No.	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
1	U.S.R.S.	1545	1573	1557	1604	1602	1616	1576	1582	1580	1557	1514	1476	1463	1395	1445	1421	1395	1354	1382	1411	1391	1341	1311	1302	1281	1241	1227	1208	1204	1178	31342
2	New York Stock	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
3	Penitentiary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	5	5	5	5	5	5	5	5	5	5	230
4	Aldenkaugh	382	370	376	378	383	398	393	393	398	398	381	370	378	365	363	350	338	330	320	265	317	313	311	311	313	316	289	288	285	284	10311
5	Bubb	10	10	9	9	9	9	9	9	8	8	8	8	8	9	9	8	9	9	9	12	12	10	10	10	10	10	10	9	9	9	276
6	Gruzen	55	54	54	50	50	55	55	55	48	49	47	47	52	50	52	50	52	50	60	61	60	60	60	62	52	50	50	49	49	48	1566
7	Boise City No.1	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	152
8	Settlers	112	113	110	112	112	112	112	112	112	112	112	71	72	66	71	71	72	70	72	72	72	72	72	72	72	74	74	73	73	74	2266
9	Thurman Mill	18	18	17	16	16	16	16	16	17	18	20	20	20	23	24	24	23	23	22	24	22	21	21	21	22	23	24	26	22	20	604
10	Farmers Union + B.V.	162	162	162	162	162	162	162	162	162	163	130	162	140	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	4272
11	Little Union	10	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	9	9	10	10	10	10	10	10	10	10	9	9	9	258
12	Dry Creek	45	45	45	44	44	45	45	44	44	42	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	42	45	45	45	45	1263
13	Ballentine	11	10	10	10	10	10	10	10	10	7	7	7	7	7	7	9	9	8	10	11	12	12	14	14	14	13	13	13	12	12	316
14	T Eagle Island Canal C	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	840
15	Middleton Water Co.	100	100	99	99	90	82	82	82	78	74	74	60	65	70	76	82	92	88	88	87	87	87	87	47	50	58	60	60	60	60	2105
16	Middleton Mill Ditch	48	48	48	48	41	35	32	35	35	35	35	33	33	33	33	33	33	33	60	52	42	41	45	45	46	47	48	48	48	48	1390
17	Phyllis	305	305	318	256	220	272	267	282	245	245	217	160	172	120	122	149	177	180	177	163	140	140	140	126	133	167	179	206	220	223	6033
18	Eureka No.1	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	5	7	7	7	7	14	14	14	16	16	17	21	16	16	15	308
19	Pioneer	18	16	16	14	14	12	12	12	10	9	9	12	18	18	19	10	10	25	10	11	14	14	14	15	16	17	18	18	12	12	438
20	Canyon County	50	50	52	54	56	51	51	51	51	51	52	51	50	48	49	49	47	46	48	51	51	51	51	57	55	60	68	56	56	56	1502
21	Caldwell High Line	30	29	34	24	24	37	24	24	26	34	32	29	20	16	15	15	15	16	16	13	14	14	14	8	8	8	6	6	6	6	504
22	Farmers Cooperative	198	205	208	190	187	180	188	187	165	162	148	209	206	203	174	176	176	176	176	170	167	167	167	160	155	156	150	142	142	142	5291
23	Canyon	10	11	12	12	10	12	9	10	15	20	20	16	21	21	19	19	16	18	22	22	20	20	20	19	18	18	18	16	15	15	493
24	Sorbenberg	2	3	4	8	9	3	5	7	11	14	3	6	3	3	3	3	3	3	12	14	14	14	14	10	10	10	8	8	8	8	233
25	Riverside No.2	154	156	157	149	153	161	162	160	157	144	136	138	130	134	128	134	130	132	134	130	120	120	120	117	110	110	116	106	105	106	3988
26	Pioneer Ditch	39	33	38	33	33	35	41	40	38	36	36	32	35	39	30	33	34	40	40	40	40	40	40	42	42	42	40	40	40	40	1198
27	Eureka No.2	44	42	41	42	43	45	57	60	62	62	63	62	62	64	58	58	58	58	58	58	58	58	58	56	56	56	56	56	56	56	1636
28	Upper Center Point	12	11	11	11	11	11	15	15	15	15	14	12	9	9	8	9	11	14	16	16	16	16	16	13	13	13	12	12	14	12	378
29	Lower Center Point	6	6	6	6	6	7	6	6	8	9	8	16	10	6	7	6	6	7	8	8	8	8	8	8	8	8	8	8	8	8	207
30	Boise Forest Notes	40	36	32	38	40	37	41	43	44	38	38	38	38	42	44	41	40	37	41	42	43	43	43	43	43	43	43	43	43	43	2910
31	Miscellaneous	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	540
	Total	3474	3500	3503	3464	3474	3467	3465	3479	3418	3376	3299	2823	2796	2680	2664	2672	2697	2683	2693	2583	2542	2497	2468	2352	2297	2418	2652	2611	2613	2342	85507

CART-SD.

AUGUST

No.	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
1	U.S.A.S.	1600	1700	1700	1700	1700	1700	1700	1700	1700	1600	1600	1600	1600	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700	52227
2	New York Stock	134	134	134	134	134	134	134	134	134	134	134	81	81	81	81	81	81	0	0	0	134	134	134	134	81	0	0	0	0	0	0	3437
3	Penitentiary	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	320
4	Gildenbaugh	310	305	300	298	283	284	283	281	284	285	284	280	284	284	282	284	284	284	284	284	284	284	284	284	284	284	284	284	284	284	284	14580
5	Bubb	10	10	10	10	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	8	10	10	10	314
6	Cruzen	70	66	66	66	58	62	62	62	66	66	58	58	60	60	60	60	60	60	60	60	58	58	58	58	60	60	60	60	60	60	60	1917
7	Boise City No 1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	186
8	Settlers	120	120	120	120	120	120	120	116	120	120	120	120	120	120	120	120	120	120	120	112	112	112	112	112	112	112	112	112	112	112	112	3585
9	Trueman Mill	30	30	30	27	27	33	33	27	27	27	27	27	28	26	26	26	21	21	21	21	21	21	21	21	20	19	19	19	19	19	19	744
10	Farmers Union "B"	160	160	160	160	160	160	160	162	162	162	162	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	162	162	162	162	5086
11	Little Union	10	9	9	9	9	9	10	10	10	10	10	10	12	12	12	12	12	10	10	10	10	9	9	9	9	9	9	10	10	10	10	309
12	Dry Creek	70	60	56	56	52	46	56	58	58	54	46	46	50	50	50	52	48	46	46	46	46	44	44	44	44	44	44	44	44	44	44	1429
13	Ballantine	13	14	16	16	16	14	12	12	12	12	12	12	12	12	12	12	12	12	12	14	14	14	14	14	14	14	13	13	12	12	11	419
14	Eagle Island Canals	35	35	35	35	28	29	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	896
15	Middleton Water Co	36	85	103	98	91	88	81	82	77	77	76	76	76	77	77	76	76	74	64	58	52	47	96	96	96	96	96	96	100	101	2605
16	Middleton Mill Ditch	96	92	88	90	90	90	90	90	50	50	46	42	36	30	26	28	50	50	50	50	50	49	50	51	51	51	50	49	48	45	1768
17	Phyllis	403	403	394	390	384	384	384	384	382	382	382	382	382	382	382	382	382	376	320	352	368	352	382	366	362	364	362	366	366	366	366	11480
18	Eureka No 1	23	23	23	23	25	25	25	25	25	25	25	27	27	27	27	27	27	25	25	25	25	23	11	11	11	11	11	11	11	11	11	435
19	Pioneer	31	30	25	25	30	30	32	32	30	26	24	24	22	22	22	22	18	18	20	21	22	22	22	22	22	20	22	23	23	23	18	744
20	Canyon County	58	58	56	63	70	65	68	70	70	70	63	62	70	63	68	63	60	56	56	58	58	58	58	58	58	52	54	56	54	57	48	1842
21	Caldwell High Line	25	23	24	20	12	23	19	27	23	24	29	29	29	29	29	29	29	25	25	29	29	29	29	29	27	26	29	29	27	27	25	886
22	Farmers Cooperative	220	244	242	242	242	225	244	252	227	300	280	255	220	235	256	214	194	188	188	232	227	214	196	200	204	202	200	198	196	196	7002
23	Canyon	16	19	14	14	21	27	21	22	25	9	6	9	12	16	16	14	16	8	8	8	9	6	16	16	17	25	14	17	23	14	420
24	Seibenberg	12	13	12	12	13	14	15	14	8	14	14	10	6	12	12	13	10	10	8	8	6	2	2	6	10	3	3	3	3	3	3	287
25	Riverside No 2	184	182	182	182	176	174	168	168	158	157	158	158	157	158	158	162	164	164	170	176	168	168	140	140	140	138	137	137	138	140	5020
26	Pioneer Dixie	37	34	33	28	32	35	33	32	30	27	24	22	20	11	8	20	26	26	27	28	18	8	10	21	25	25	25	24	25	25	736
27	Eureka No 2	39	44	43	50	51	53	19	20	46	40	42	40	37	44	41	29	44	40	42	43	37	31	39	41	44	45	40	46	41	41	1227
28	Upper Center Point	5	3	6	9	9	10	10	5	8	7	5	10	11	12	10	8	12	11	13	14	10	12	12	12	12	12	12	12	10	10	224
29	Lower Center Point	0	0	0	0	0	5	5	5	5	0	5	6	6	6	6	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	85
30	Boise Rivercal Notes	70	68	66	62	62	62	60	62	48	48	52	50	52	62	62	48	38	28	28	24	42	42	60	62	62	62	62	60	62	62	1665
31	Miscellaneous	23	23	23	23	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	605
	Total.	4157	4142	4105	4099	4094	4133	4081	3983	3983	3956	3982	3989	3935	3966	3962	3966	3856	3794	3827	3951	3919	3811	3830	3844	3877	3826	3781	3846	3823	3833	117533

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SHEET 2

No.	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
1	L.A.&S.	1911	1888	1830	1855	1906	1861	2308	2008	1786	1781	1771	1811	1226	1816	1853	1842	1835	1825	1825	1841	1911				1761	1741	1729	1736	1734	1734	1834	59992
2	New York Stock	324	277	277	277	277	277	277	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222			222	222	222	222	222	222	222	7282
3	Farmers Co-op	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			10	10	10	10	10	10	10	310
4	Ardenvaugh	440	436	447	451	444	442	451	453	457	463	442	442	443	460	477	477	477	478	480	478	581	581			451	451	453	453	446	446	442	15120
5	Bubb	12	10	10	14	14	15	15	15	15	13	13	13	13	13	13	16	16	16	16	16	15	15			10	10	10	14	14	15	15	412
6	Green	57	57	57	56	56	56	56	56	56	56	56	56	56	56	56	58	58	58	58	58	56	56			56	57	56	56	56	56	56	1883
7	Boise City No. 1	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
8	Settlers	133	154	162	170	170	170	170	182	183	183	180	190	183	183	183	183	183	183	181	183	183	183			183	183	183	183	183	183	143	5488
9	Thurman Mill	33	38	38	38	41	41	40	40	40	36	34	32	38	29	28	38	33	37	32	40	40	40			36	35	33	31	29	29	30	1162
10	Farmers Union B.K	220	239	247	247	247	247	250	240	90	238	100	228	228	228	150	250	250	250	217	217	217	217			217	217	217	217	217	192	124	6908
11	Little Union	13	14	15	17	18	18	16	16	14	14	13	14	14	14	14	15	15	15	15	15	15	15			14	12	12	12	12	12	12	389
12	Dry Creek	0	0	23	23	23	24	26	65	71	69	60	66	69	70	74	74	81	80	80	80	80	80			0	68	70	73	73	73	70	1913
13	Ballantine	9	9	10	11	12	14	14	15	16	16	19	19	19	19	19	17	17	16	15	15	15	15			12	12	11	11	11	13	13	428
14	Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47			47	47	47	47	47	47	47	1645
15	Middleton Water Co.	106	106	110	108	105	115	126	127	127	108	140	136	120	116	102	96	88	72	67	60	97	97			65	61	61	62	73	57	28	2841
16	Middleton Mill Ditch	100	115	125	115	110	100	100	102	105	105	105	105	105	105	102	102	102	102	103	102	101	101			108	101	90	85	95	101	108	3211
17	Phyllis	454	455	471	467	467	468	452	0	459	474	474	464	477	477	481	0	0	444	483	481	483	481			466	458	458	458	474	437	437	13043
18	Elgin No. 1	23	23	23	27	27	27	27	0	27	27	27	27	27	27	27	0	0	27	25	25	25	25			27	27	27	27	23	23	23	795
19	Pioneer	25	28	31	34	36	36	36	34	34	34	34	34	30	26	26	25	22	20	17	19	21	21			24	27	24	22	19	19	0	507
20	Canyon County	72	85	90	90	89	93	81	74	69	75	81	87	94	100	106	102	100	98	76	78	80	80			77	75	73	70	64	62	60	2544
21	Caldwell High Line	87	104	100	100	90	100	102	102	106	107	102	30	114	106	0	40	50	50	52	54	100	100			50	50	50	50	44	34	30	2160
22	Farmers Co-operative	372	372	372	372	372	372	332	429	393	398	372	309	182	329	348	340	332	328	328	328	332	332			396	396	396	383	332	299	296	10965
23	Canyon	22	24	23	23	23	12	13	12	12	12	11	12	23	22	22	2	9	10	10	22	20	20			12	7	7	7	7	7	9	423
24	Seubert	16	16	16	13	10	10	12	12	12	12	12	12	12	22	21	20	20	14	6	15	12	12			10	10	9	9	9	7	12	385
25	Riverside No. 2	190	196	210	233	244	234	240	208	206	202	202	180	200	198	198	198	198	208	207	206	248	247			242	240	198	186	174	194	196	6281
26	Pioneer Ditch	30	31	31	26	32	36	34	31	26	23	20	14	16	16	20	22	18	21	24	19	30	30			36	41	37	33	33	33	29	908
27	Eureka No. 2	42	28	32	40	44	41	40	40	42	42	40	33	32	40	40	38	30	30	30	32	36	36			36	36	37	40	40	40	37	1423
28	Upper Center Point	14	16	18	17	16	15	13	13	14	14	12	8	16	15	12	12	12	14	11	12	9	9			11	10	10	10	9	9	7	386
29	Lower Center Point	10	11	12	10	8	11	16	12	12	13	13	12	12	19	19	18	15	16	15	15	14	14			12	12	12	12	10	6	2	426
30	Boise River Ditch	1960	1810	1650	1400	1560	1595	1570	1731	1844	2311	1159	1609	941	1729	2306	2318	1665	2110	2280	2311	2278	2278			1720	1693	1580	1506	1495	1571	1774	59423
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	21	31	31	31	31			31	31	31	31	31	31	23	953
	Total	6624	6676	6668	6574	6770	6810	7325	7230	6820	7338	7177	7107	6960	7096	7155	6847	6657	6702	6704	6678	6977	6911			6924	6828	6778	6656	6546	6426	6190	216378

CHART-SE

JUNE

No.	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
1	U.S.R.S.	2195	1976	2023	2065	2100	2124	2101	2070	2091	2097	2096	2165	2112	2126	2160	2150	2160	2112	2126	2160	2150	2160	2112	2126	2160	2150	2160	2112	2126	2160	63,660
2	New York Stock	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	6660
3	Penitentiary	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	480
4	Aldenleigh	387	345	394	368	372	366	382	367	370	374	422	424	418	421	432	446	446	397	430	417	421	419	422	424	440	424	403	420	424	403	12,047
5	Bubb	11	10	10	10	10	10	11	11	11	11	12	12	12	12	12	14	14	14	14	14	15	15	15	15	15	15	12	13	14	12	372
6	Gruzen	70	69	70	70	69	69	68	68	68	68	68	68	68	68	68	67	67	67	68	68	67	68	67	67	67	67	67	67	67	67	2028
7	Boise City No. 1	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	150
8	Settlers	129	123	123	123	119	119	122	120	120	120	168	169	169	169	168	168	166	166	166	166	166	166	166	166	166	166	129	116	129	109	4098
9	Thurman Mill	36	36	35	35	33	32	30	30	30	27	27	26	23	23	23	20	20	20	18	18	18	18	23	23	23	26	26	26	26	28	738
10	Farmers Union B.Y.	199	198	199	199	199	199	196	196	196	197	224	224	219	228	228	228	228	228	228	228	228	228	228	228	228	228	217	217	217	217	6622
11	Little Union	5	6	7	7	7	8	8	8	8	8	10	10	10	10	10	13	14	14	14	14	14	14	14	14	14	14	14	14	12	11	342
12	Dry Creek	62	62	62	62	61	60	62	62	62	62	76	76	82	82	82	84	84	84	86	72	72	72	72	72	72	72	0	0	52	52	2592
13	Ballantine	16	16	16	16	16	16	17	18	18	18	8	8	8	8	8	11	11	11	11	11	8	8	8	8	8	8	8	7	8	11	366
14	Eagle Island Canals	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	457	14170
15	Middleton Water Co.	69	69	69	70	70	72	70	69	65	62	101	117	112	107	102	97	92	87	86	87	88	85	93	95	107	106	2492				
16	Middleton Mill Ditch	72	74	76	78	80	81	82	80	82	84	93	96	98	100	102	104	112	116	86	90	88	80	82	80	82	80	70	2314			
17	Phyllis	0	0	0	0	0	0	332	371	420	417	420	422	422	422	422	424	424	424	424	377	378	378	378	378	378	378	378	378	378	378	11,718
18	Eureka No. 1	0	0	0	0	0	0	12	12	12	12	12	12	12	12	12	14	14	14	5	5	6	6	6	6	6	6	6	6	6	6	186
19	Pioneer	19	19	19	19	19	24	25	30	32	32	33	32	34	35	30	30	30	26	26	26	18	18	18	18	15	19	22	22	22	22	718
20	Canyon County	57	57	57	57	57	57	57	56	60	56	82	82	85	91	97	69	81	78	78	77	72	70	65	66	67	68	75	75	72	72	2162
21	Caldwell High Line	12	12	12	12	30	36	42	30	30	30	55	70	80	78	78	68	70	58	36	42	42	40	40	40	40	50	80	80	80	80	1164
22	Farmers Cooperative	322	324	316	318	312	291	322	295	294	294	350	284	318	324	302	280	286	330	334	334	330	324	324	324	294	284	302	310	302	302	8102
23	Canyon	18	18	18	18	18	18	18	18	18	18	12	10	10	8	10	10	14	14	14	14	14	14	14	20	22	22	22	20	20	20	546
24	Seldenberg	9	10	10	10	16	16	16	12	12	12	8	8	8	8	10	10	12	12	12	10	9	10	10	10	10	11	11	14	14	14	355
25	Riverside No. 2	180	180	180	176	172	168	168	180	180	180	204	204	194	190	176	170	170	170	170	168	168	168	168	168	168	168	168	168	168	168	4424
26	Pioneer Dixie	32	30	32	36	32	30	26	24	24	24	24	24	24	24	22	22	22	22	18	14	12	12	12	12	12	12	12	12	12	12	607
27	Eureka No. 2	52	52	50	48	40	40	32	32	32	32	50	60	50	50	50	50	52	52	52	52	52	52	52	52	52	52	52	52	52	52	1530
28	Upper Center Point	10	9	7	7	6	6	4	4	4	4	4	4	6	7	8	8	11	12	12	12	12	12	12	12	12	12	12	12	12	12	274
29	Lower Center Point	9	9	9	12	12	12	2	2	2	2	2	2	2	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	332
30	Boise River at Notus	4138	3910	3930	2334	1980	2060	1980	2980	3022	4020	4920	4920	4920	4920	3420	3120	1980	1260	1440	1440	1440	1440	1440	1440	1440	1440	1440	3360	2940	2880	90,890
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	930
	Total	8395	7530	8196	8355	8087	8193	8087	7998	8432	8567	9779	10156	10173	10178	9514	9014	8946	8293	8407	8278	8227	8231	8283	8305	8350	8350	8050	8331	8291	8280	253,872

CHART-D17

1917

No.	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
1	U.S.R.S.	2065	2070	2091	2112	2101	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	2102	66016
2	New York Stock	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	6882
3	Tenkenberry	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	496
4	Alexander High	388	385	390	391	390	396	399	399	400	400	400	402	402	402	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	12396
5	Bubb	45	45	45	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	1426
6	Orora	58	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	1860
7	Boise City No. 1	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
8	Settlers	160	160	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162	5022
9	Pioneman Mill	30	30	32	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	1054
10	Farmers Union-Bill	201	201	201	200	200	211	211	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213	6604
11	Little Union	12	12	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	427
12	Dry Creek	33	33	34	33	34	34	35	35	36	36	37	37	37	37	40	40	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	1281
13	Ballantine	18	16	17	17	17	17	43	43	43	41	42	42	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	1331
14	Caldwell Island Canals	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
15	Middleton Water Co.	90	85	88	77	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	2422
16	Middleton Mill Ditch	100	101	101	101	100	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	2852
17	Phyllis	435	427	425	438	433	440	440	445	441	441	441	450	450	457	457	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	14260
18	Eureka No. 1	13	13	13	9	13	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	744
19	Pioneer	24	23	20	19	21	23	23	22	20	18	19	21	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	682
20	Canyon County	96	96	95	95	93	93	0	90	90	90	90	91	92	92	94	94	94	96	98	98	96	96	96	96	96	90	90	85	86	86	88	2793
21	Caldwell High Line	65	65	65	66	67	68	75	72	76	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	70	65	65	60	60	60	2445
22	Farmers Cooperative	310	310	310	305	305	307	309	285	268	272	305	310	310	312	315	317	319	324	324	324	324	324	324	324	324	74	70	70	70	70	70	9162
23	Canyon	12	18	21	21	19	14	10	14	14	23	23	23	23	23	21	21	19	17	14	10	6	6	6	6	6	365	361	304	318	326	320	9959
24	Seibenberg	15	16	17	18	8	5	12	7	5	19	18	18	12	11	6	6	6	10	10	12	13	11	11	11	12	15	9	5	24	18	18	497
25	Riverside No. 2	6	6	6	6	6	120	120	120	118	114	123	200	200	190	190	184	174	180	190	190	178	178	178	178	178	12	14	15	15	9	6	7	360
26	Pioneer Ditch	40	40	38	34	36	32	33	33	33	33	30	22	24	24	32	32	34	34	34	32	32	32	32	32	32	201	196	194	196	196	192	172	4832
27	Eureka No. 2	48	48	65	65	65	60	54	50	50	62	68	68	68	68	70	70	70	68	66	66	72	72	72	72	72	35	33	30	24	22	34	26	1487
28	Upper Center Point	12	14	14	14	13	13	14	14	14	14	16	8	8	12	14	14	14	11	11	11	9	9	9	9	9	23	30	32	32	34	34	34	1028
29	Lower Center Point	6	6	8	12	8	8	7	7	7	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	15	15	15	14	14	14	11	378
30	Boise River Natives	220	210	695	503	495	340	238	123	67	67	123	158	165	437	187	225	220	210	220	230	230	230	230	230	230	14	8	5	6	7	12	8	3345
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	2930	2972	2746	2824	2826	2968	2968	96456
	Total	5344	5417	5527	5496	5488	5527	5542	5014	4976	5117	5236	5304	5260	5443	5458	5466	5438	5492	5493	5744	5746	5716	5716	5716	5716	5026	4935	12/59	12/62	4879	5027	7727	174332

CHART-5

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS

BY DAYS DURING THE IRRIGATION SEASON OF 1923. INCLUDING STORAGE.

APRIL

No	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
1	U.S.P.S.	1128	1166	1188	1191	1239	1255	1270	1216	1168	1212	1156	1164	1121	1178	1221	1196	1241	1162	1228	1232	1209	1242	1242	1242	2046	2066	2066	2020	2061	2070	35571
2	New York Stock	277	277	277	277	277	277	272	272	277	277	277	277	272	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8310
3	Penitentiary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	10	10	70
4	Ridenbaugh	60	69	72	87	106	122	132	141	165	172	198	213	255	262	268	288	322	330	344	348	345	347	347	347	370	392	392	392	346	364	7663
5	Bubb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	16	180
6	Gruzen	20	20	20	20	30	34	34	34	34	34	30	42	42	42	42	46	46	46	48	47	47	47	47	47	58	58	58	58	58	59	1223
7	Boise City No. 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	0	0	0
8	Settlers	0	0	0	0	14	17	10	10	14	14	26	32	26	42	118	118	122	127	142	148	157	158	158	158	162	162	162	162	162	158	2594
9	Thurman Mill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	20	20	22	22	22	22	23	23	25	25	25	30	327
10	Farmers Union Ditch	30	30	30	30	30	30	30	30	30	30	30	65	61	65	65	100	130	110	105	123	100	100	100	100	179	201	201	201	201	201	3195
11	Little Union	2	2	2	2	3	3	5	5	4	4	5	6	6	5	5	5	6	6	6	6	6	6	6	6	6	6	8	8	10	11	160
12	Dry Creek	0	0	0	0	0	0	0	0	0	0	0	5	7	9	14	16	18	20	24	26	28	28	30	30	28	30	30	30	22	32	414
13	Ballentine	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	5	6	6	7	7	7	8	8	8	12	14	17	16	18	18	179
14	7 Lake Island Canals	0	0	0	0	0	0	0	0	0	20	24	24	24	24	24	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	849
15	Middleton Water Co.	6	6	6	6	6	6	6	6	6	6	12	12	12	12	35	87	102	122	120	123	126	126	126	126	134	126	116	116	102	96	1955
16	Middleton Mill Ditch	0	0	0	5	5	5	5	5	5	47	71	74	74	73	72	71	77	83	87	83	76	82	82	82	91	92	96	98	100	100	1727
17	Phyllis	70	102	127	142	156	184	197	217	226	246	253	263	274	287	319	345	420	420	426	417	374	374	374	374	390	378	427	435	471	485	9263
18	Eureka No. 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	18	18	16	23	17	13	173
19	Pioneer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	19	20	21	21	21	21	26	26	26	26	26	25	448
20	Canyon County	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	52	52	52	79	83	87	95	101	101	916
21	Caldwell High Line	0	5	5	5	5	6	5	7	5	0	5	5	10	12	12	8	6	25	32	63	61	56	56	56	63	76	76	76	76	75	944
22	Farmers Cooperative	0	0	0	0	0	0	0	0	0	80	80	90	90	100	106	122	120	120	120	123	119	119	119	119	229	228	219	229	265	282	2906
23	Canyon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	12	15	19	19	18	15	15	15	15	15	15	15	15	15	15	237
24	Seibeberg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15	15	15	16	14	17	16	16	18	129
25	Riverside No. 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	125	140	150	142	121	121	121	121	125	160	166	171	172	182	2335
26	Pioneer Dixie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	32	32	32	32	35	35	38	38	36	48	522
27	Eureka No. 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	38	48	40	44	40	48	48	48	48	48	48	48	48	44	40	784
28	Upper Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	16	16	16	16	11	11	62
29	Lower Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	5	5	35
30	Boise River at Natus	485	590	485	590	580	625	660	640	625	580	525	490	410	395	235	428	600	203	147	114	83	83	83	83	145	142	140	168	275	425	11146
31	Miscellaneous	0	0	0	0	0	0	0	0	0	45	45	45	45	45	45	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
	Total	1860	1970	2070	2168	2463	2565	2733	2686	2562	3365	3122	3227	3352	3397	3577	3970	4036	4348	4361	4415	4284	4302	4302	4302	4747	4799	4834	4903	5028	5392	103579

AFF

1924

CHART 8

TRIBUTARY AND RETURN FLOW TO BOISE RIVER, IRRIGATION SEASON 1924.

APRIL.

No.	Name of Tributary	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
1	Callister Drain	5	5	5	6	6	6	7	7	6	6	6	6	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	180
2	Eagle Drain	10	10	10	12	12	12	11	13	16	17	20	16	15	17	11	10	10	10	8	8	8	8	8	8	13	14	11	10	8	8	352
3	Star Feeder	0	0	0	0	0	0	0	0	0	10	17	22	16	22	23	18	14	21	26	24	24	24	23	23	18	20	18	19	20	21	423
4	Lava Feeder	13	13	13	13	16	16	16	16	16	16	19	19	19	19	19	19	20	20	20	20	20	20	20	20	18	23	23	23	23	23	540
5	South Middleton	67	64	63	68	91	94	68	68	58	69	41	47	63	82	78	81	80	84	80	92	92	92	92	92	92	83	80	80	90	92	2446
6	No Middleton Drain	4	8	8	16	22	16	14	14	14	11	17	18	14	12	9	9	9	3	3	3	11	11	11	11	15	11	9	6	17	13	363
7	Hartley Drain	10	10	10	10	10	16	16	16	16	16	16	15	15	15	15	15	15	15	15	17	17	17	17	17	17	23	20	23	23	23	443
8	Phyllis Waste	4	4	4	4	4	4	5	5	5	5	6	5	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	180
9	Five Mile Creek	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	114
10	Mason Creek	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	16	13	16	13	21	22	225
11	Mason Drain	35	35	33	30	36	36	36	36	37	37	38	39	40	41	42	43	43	43	42	42	41	41	41	41	34	37	37	36	34	32	1143
12	Indian Creek	126	120	120	114	138	134	130	128	126	124	122	127	130	130	142	135	145	135	130	125	120	115	110	105	100	95	90	85	78	60	3698
13	Dixie Drain	10	10	10	10	10	10	10	10	10	10	5	5	8	9	10	11	12	12	12	12	12	12	12	12	13	14	14	15	15	16	336
	Total	329	324	319	329	341	334	318	323	308	321	312	324	346	376	371	352	371	362	360	370	369	366	363	360	344	352	344	333	342	335	10346

MAY.

No.	Name of Tributary	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
1	Callister Drain	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6	5	6	6	6	6	6	6	6	6	186
2	Eagle Drain	8	8	8	8	8	8	10	13	17	21	36	32	22	18	16	16	16	18	18	24	30	36	36	36	46	46	42	43	47	42	45	771
3	Star feeder	26	18	16	24	24	28	33	33	30	16	14	21	18	23	34	30	26	28	34	42	45	45	45	45	42	42	43	43	43	44	44	948
4	Long feeder	23	19	19	19	19	19	19	19	24	24	24	24	24	24	20	20	20	20	18	18	18	18	18	18	21	21	21	18	18	18	18	632
5	So. Middleton Drain	92	88	96	99	113	104	100	100	100	101	103	113	121	113	109	107	113	109	116	132	129	120	117	117	148	148	143	143	130	113	143	3616
6	No. Middleton Drain	16	13	8	14	17	17	17	18	18	18	20	20	14	15	17	18	23	23	20	21	20	19	21	20	16	14	13	21	26	19	22	560
7	Hartley Drain	20	20	20	19	19	19	19	19	19	21	21	21	21	21	24	24	24	24	24	24	20	20	20	20	20	20	19	19	19	19	19	635
8	Phyllis Waste	9	9	9	9	10	10	10	10	10	10	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	9	9	9	9	8	272
9	Five Mile Creek	5	4	3	2	1	1	1	1	1	1	1	1	3	3	3	3	3	4	4	5	5	5	5	5	6	6	6	6	6	6	7	113
10	Mason Creek	25	26	27	28	30	32	34	36	38	40	43	46	49	47	48	46	44	42	40	38	38	38	38	38	36	35	35	34	34	32	32	1148
11	Mason Drain	30	32	34	36	38	40	42	42	40	38	36	34	32	33	34	35	36	37	38	40	40	40	39	39	39	38	38	38	37	37	37	1146
12	Indian Creek	57	63	62	61	60	59	58	58	59	59	60	60	61	61	60	59	58	58	57	56	57	57	58	58	61	62	64	66	68	68	68	1871
13	Dixie Drain	16	17	17	17	18	18	18	18	18	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	18	18	19	19	18	18	18	539
	Total	321	307	319	342	363	361	369	373	356	352	396	414	356	391	359	329	344	350	344	370	381	384	383	382	417	414	407	416	426	410	467	12425

Keuffel PRESS SECTION PAPER. 10 TO THE INCH
KEUFFEL & ESSER CO.

CHART 84.

JUNE

No.	Name of Tributary	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
1	Callister Drain	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		180
2	Eagle Drain	45	45	45	45	42	38	31	30	32	32	29	31	30	34	28	34	32	30	36	36	31	28	28	28	26	28	28	28	24	26	1006
3	Star Feeder	44	43	43	43	44	45	51	56	54	49	47	49	44	43	44	43	43	43	43	41	40	40	38	36	36	36	34	36	36	40	1216
4	Long Feeder	18	18	18	21	21	21	21	21	21	23	23	23	23	23	20	20	20	20	20	22	20	20	18	16	16	16	16	16	19	19	558
5	So. Middleton Drain	156	152	140	127	141	160	160	160	160	160	160	160	160	152	149	135	122	118	125	136	130	124	120	116	112	100	102	92	87	84	4055
6	No. Middleton Drain	12	10	12	12	12	12	32	32	42	42	40	30	12	12	11	11	12	12	12	12	13	13	14	16	16	16	18	16	20	20	523
7	Hartley Drain	19	19	19	23	23	23	23	23	23	23	16	16	16	16	16	16	16	17	17	12	17	17	21	21	21	21	21	21	21	21	573
8	Phyllis Waste	8	8	8	8	8	8	9	9	9	9	9	9	9	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	222
9	Five Mile Creek	6	6	7	7	7	7	8	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	170
10	Mason Creek	30	38	46	45	40	44	43	42	40	37	34	31	28	26	24	23	23	24	25	26	27	25	25	25	25	28	28	27	25	25	947
11	Mason Drain	29	26	24	26	28	30	45	60	62	62	60	60	60	55	33	30	27	27	26	26	25	25	23	23	23	23	23	23	23	22	1035
12	Indian Creek	68	70	69	68	65	70	72	80	85	77	70	66	60	60	61	63	58	57	53	52	53	53	53	53	53	60	60	61	59	57	1795
13	Dixie Drain	18	18	20	20	20	19	19	19	19	20	21	22	21	20	19	19	15	15	15	19	19	20	20	20	20	20	20	18	18	20	574
	Total	459	459	460	446	461	483	517	545	560	536	512	513	474	441	423	402	384	384	389	405	420	400	394	390	382	366	377	369	365	370	13165

JULY

No.	Name of Tributary	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
1	Callister Drain	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	186
2	Eagle Drain	40	40	32	28	24	26	35	35	37	36	42	44	40	46	42	48	51	50	48	46	44	38	34	32	30	30	31	29	28	24	32	1132
3	Star Feeder	35	38	37	37	40	39	40	40	42	40	43	41	42	42	45	43	46	45	43	43	43	43	43	43	43	43	46	46	46	38	38	1303
4	Long Feeder	19	19	19	19	20	20	20	20	20	20	20	18	18	18	18	18	18	18	14	14	14	14	14	14	14	19	19	19	19	19	19	564
5	So. Middleton Drain	84	84	78	76	76	76	107	109	100	100	76	76	76	76	76	78	69	69	69	75	74	84	84	84	84	69	69	69	76	76	69	2442
6	No. Middleton Drain	20	20	20	24	28	28	28	28	28	28	25	25	25	25	25	25	32	32	32	32	32	28	28	28	28	32	32	32	32	38	38	846
7	Hartley Drain	21	21	18	18	18	18	18	18	18	18	16	16	16	16	16	16	16	16	12	12	12	12	15	13	13	15	15	15	13	17	17	504
8	Phyllis Waste	6	6	6	6	6	6	8	8	8	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	251
9	Five Mile Creek	6	6	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	182
10	Mason Creek	22	22	21	21	20	19	18	15	16	15	13	14	15	16	17	16	17	18	15	14	13	13	14	16	18	19	20	21	21	21	21	514
11	Mason Drain	3	3	3	4	4	4	5	5	6	6	7	7	8	8	7	6	6	6	7	7	7	8	8	8	8	9	9	9	8	8	8	203
12	Indian Creek	56	55	52	53	54	53	52	164	56	53	48	43	42	41	41	41	41	41	38	39	40	41	42	42	42	44	48	42	41	40	32	1444
13	Dixie Drain	19	19	18	18	18	18	18	17	17	17	17	17	16	16	16	16	16	16	16	16	16	15	15	14	14	14	14	14	14	13	13	493
	Total	337	339	315	315	319	314	360	372	364	349	328	323	320	324	326	325	332	329	314	322	314	314	325	324	325	345	365	350	354	321	319	10087

CHA

AUGUST

No	Name of Tributary	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
1	Collister Drain	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	186
2	Eagle Drain	36	36	34	32	28	36	34	36	32	28	32	41	40	46	42	40	46	42	28	34	28	34	32	32	31	28	32	36	30	28	32	1037
3	Star Feeder	42	46	42	42	42	42	42	42	42	46	46	46	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	1445
4	Long Feeder	14	14	14	14	14	14	14	14	18	18	18	18	18	18	18	18	18	18	21	21	21	21	21	21	21	21	21	21	21	21	14	529
5	So Middleton Drain	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	1910
6	No Middleton Drain	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	16	710
7	Hartley Drain	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	482
8	Phyllis Waste	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	193
9	Five Mile Creek	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	140
10	Mason Creek	21	21	21	20	20	20	19	19	18	18	18	18	17	17	15	16	16	15	14	14	13	13	12	12	11	11	10	10	9	9	8	476
11	Mason Drain	8	8	8	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	197
12	Indian Creek	38	42	38	34	34	29	30	32	33	34	34	33	32	32	32	32	26	24	23	27	34	35	36	36	37	37	31	35	34	34	33	1023
13	Dixie Drain	13	13	13	13	13	13	12	12	12	12	12	11	11	10	10	11	11	12	12	13	13	14	14	14	14	15	13	13	13	13	13	392
	Total	313	309	304	298	304	296	301	296	288	294	292	293	287	276	270	269	274	267	261	281	284	284	281	281	279	275	275	279	269	269	261	8820

SEPTEMBER

No	Name of Tributary	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
1	Collister Drain	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	180
2	Eagle Drain	36	36	34	28	28	36	24	31	28	27	16	14	18	22	14	28	29	21	32	24	26	32	32	32	21	19	18	21	24	22	758
3	Star Feeder	42	42	46	46	46	38	38	38	39	39	43	45	45	49	45	44	40	40	40	37	37	37	32	32	27	27	22	20	21	22	1121
4	Long Feeder	14	14	14	14	10	10	10	10	10	10	10	16	16	16	16	16	16	16	18	18	18	18	18	18	18	21	21	21	21	21	469
5	So Middleton Drain	62	62	62	56	54	58	50	64	62	62	62	62	66	67	67	67	68	62	62	56	48	54	54	54	54	50	50	52	54	50	1767
6	No Middleton Drain	16	16	16	16	18	18	18	20	20	20	20	24	24	24	28	28	18	18	18	16	16	16	16	16	14	14	14	11	11	11	533
7	Hartley Drain	15	15	15	12	12	12	12	11	11	11	11	11	11	14	14	14	14	14	14	14	14	12	12	12	12	12	12	12	12	12	388
8	Phyllis Waste	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	138
9	Five Mile Creek	5	3	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	36
10	Mason Creek	8	7	7	7	8	9	9	10	10	11	12	12	12	12	12	12	13	13	13	13	14	14	14	14	14	13	13	13	12	12	346
11	Mason Drain	6	6	6	6	6	6	6	5	5	5	5	6	6	6	7	7	7	8	8	9	9	10	10	10	9	9	7	7	7	7	211
12	Indian Creek	33	32	32	32	32	33	32	33	33	31	33	32	32	32	32	34	34	34	33	33	32	32	33	33	33	35	33	33	35	33	982
13	Dixie Drain	16	16	16	16	16	15	15	15	15	14	14	14	13	13	12	12	12	12	13	14	14	14	14	14	14	14	14	14	14	14	425
	Total	269	265	260	259	245	240	225	248	246	239	237	252	254	259	247	274	258	249	253	249	250	253	248	248	225	224	216	216	221	216	7364

WEST

Profile cross section paper, 10 x 10 - 5 inch
Eugene Electronics Co.

CHA

AUGUST

No.	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	To
	U.S.R.S.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282	242	18	0	0	0	0	0	0	182	382	381	231	18		
2	Nell Vaart Stock	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		
3	Penitentiary	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		
4	Bush	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	2	2	2	2	2	2	2	2	2	2	2	2	1	
5	Ridenbaugh	145	147	147	142	139	138	142	147	144	120	105	113	114	114	116	118	90	23	36	88	100	12	132	134	132	132	76	56	65	64	36	
6	Settlers	9	9	9	9	9	9	9	25	24	24	22	22	9	9	9	9	9	9	9	9	9	9	22	22	22	22	0	0	0	0	0	
7	Thurman	18	20	20	22	24	20	18	17	17	17	17	17	18	20	17	12	12	17	17	16	16	16	16	16	16	16	5	5	5	5	4	
8	Cruzen	26	26	26	26	26	26	26	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25	25	25	7	
9	Boise City	20	20	20	20	20	20	20	20	20	20	20	21	19	19	18	19	19	19	18	18	18	18	18	18	18	18	18	18	18	18	5	
10	Farmers Union Ditch	29	29	29	27	27	27	27	27	27	27	27	26	26	26	26	25	25	24	23	21	21	21	22	22	22	22	20	20	20	20	21	
11	Little Union	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	11	13	9	9	8	8	8	8	8	8	8	8	8	
12	Dry Creek	2	2	2	2	2	2	2	2	2	2	2	2	16	16	16	2	3	3	3	3	3	22	22	22	2	2	2	2	2	2	2	
13	Ballentine	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5	2	3	2	3	2	2	2	2	2	1	1	1	1	1	
14	Middleton Water Co.	55	55	55	58	60	60	59	59	59	59	59	66	66	64	64	66	63	64	62	61	55	61	66	66	66	66	66	53	47	41	18	
15	Middleton Mill Ditch	27	27	26	26	26	30	30	30	28	27	26	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	8	
16	Little Pioneer	15	15	15	15	15	15	12	12	12	12	9	9	9	12	14	17	17	17	16	15	15	15	15	15	15	15	15	15	15	15	4	
17	Canyon County	44	46	46	48	47	47	47	47	47	47	47	47	44	44	46	46	46	46	48	50	50	50	50	48	48	48	49	36	36	36	14	
18	Eagle Island Canals	21	22	21	23	23	21	23	21	24	25	23	23	25	25	23	24	25	25	23	24	25	24	25	25	25	25	25	24	24	24	9	
19	Phyllis	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		
20	Eureka No 1	20	20	20	20	20	20	20	20	10	10	10	10	10	19	19	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18	5	
21	Caldwell High Line	38	30	36	22	33	44	46	30	33	30	29	29	22	26	22	29	27	27	20	32	74	41	44	41	33	28	33	10	5	5	10	
22	Farmers Cooperative	47	48	46	44	42	42	48	46	44	43	42	42	40	38	37	36	35	34	35	38	46	64	62	24	48	46	45	44	48	47	18	
23	Canyon	7	9	5	7	7	7	7	7	7	7	7	8	7	7	7	7	7	7	5	8	9	7	11	12	8	6	7	6	5	5	2	
24	Siebenberg	7	7	6	5	7	5	7	7	6	6	6	5	4	6	7	7	7	7	7	8	6	4	5	5	4	6	7	6	6	6	1	
25	Riverside No 2	20	26	23	20	23	26	20	20	20	22	23	24	21	20	22	23	24	25	24	24	24	23	23	23	23	24	21	30	24	23	23	
26	Pioneer Dixie	18	19	16	13	13	16	15	15	15	18	20	21	21	20	19	19	19	19	21	22	22	21	23	26	20	26	21	20	19	20	6	
27	Eureka No 2	28	29	30	31	29	29	29	32	32	32	31	31	31	31	30	31	32	33	34	35	36	33	33	33	33	32	30	29	25	24	9	
28	Upper Center Point	9	9	9	10	8	9	10	11	11	10	10	11	12	11	10	8	8	9	11	12	12	10	3	6	5	5	6	6	5	5	2	
29	Lower Center Point	3	3	6	10	12	12	13	13	12	11	10	10	10	9	9	9	9	8	8	8	7	6	6	6	5	5	5	5	5	5	2	
30	Boise River at Notus	17	16	16	15	15	15	16	16	16	16	15	16	16	17	17	17	18	16	17	16	17	16	16	16	16	16	17	17	16	15	5	
31	Miscellaneous	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	3	
	Total	711	719	710	707	711	725	727	738	724	702	688	732	686	699	702	681	937	882	648	672	739	69	769	783	721	717	912	857	806	786	231	

M.E.M.

CHART

JULY

No.	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
1	U.S.R.S.	961	900	985	788	598	600	594	594	598	598	114	6	0	0	0	0	0	0	0	40	242	517	592	548	700	705	711	710	195	192	192	10092
2	New York Stock	-	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
3	Penitentiary	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Bubb	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	237
5	Ridenbaugh	388	397	320	200	250	208	241	241	208	231	241	185	180	182	182	187	182	158	142	182	161	140	161	160	163	155	145	143	143	140	143	6002
6	Settlers	110	112	110	110	60	60	60	60	63	60	66	66	66	62	68	68	62	63	62	60	63	44	44	44	44	44	9	11	11	11	9	1185
7	Thurman	22	22	22	23	23	23	23	23	20	20	20	20	20	20	20	20	19	19	19	19	19	15	15	17	17	17	17	17	18	17	17	609
8	Cruzen	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	25	25	25	25	25	25	25	25	25	25	25	1125
9	Boise City	19	19	19	19	19	19	15	15	15	15	19	19	19	20	20	20	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20	607
10	Trappers Union Ext	161	161	161	161	161	161	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	80	80	80	80	80	80	80	80	80	80	3272
11	Little Union	3	3	3	4	4	18	18	18	10	10	8	8	8	8	8	8	9	9	9	9	9	11	9	9	9	9	9	11	11	12	14	294
12	Dry Creek	43	43	43	44	44	44	43	43	45	45	45	45	45	44	44	44	42	42	39	35	30	28	22	22	22	22	2	2	2	2	2	1030
13	Ballantine	8	8	8	8	8	9	9	9	9	11	11	11	11	11	11	11	13	13	12	4	4	4	4	4	4	4	3	3	3	3	3	226
14	Middleton Water Co	58	58	58	60	60	60	68	66	64	64	61	60	60	58	54	51	68	68	66	64	61	65	68	64	64	66	66	64	63	66	60	1936
15	Middleton Mill Ditch	32	32	33	33	33	33	33	32	30	30	28	28	28	28	28	28	29	29	28	27	27	22	28	28	28	27	27	25	24	22	27	886
16	Little Pioneer	15	15	14	15	15	12	15	15	15	15	15	12	12	12	12	14	20	20	20	15	15	15	15	15	15	15	15	15	15	15	15	476
17	Canyon County	47	47	47	47	47	47	46	46	46	47	47	47	46	46	46	46	45	45	45	45	48	48	48	47	47	47	46	44	40	40	44	1426
18	Eagle Island Canal	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	868
19	Phyllis	306	270	255	253	253	254	252	122	80	80	59	56	56	56	52	72	72	60	60	55	55	60	60	60	60	60	56	56	56	0	0	3245
20	Eureka No 1	17	15	15	17	17	16	18	12	12	12	10	14	14	14	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	563
21	Caldwell High Line	34	34	48	48	48	46	41	26	46	35	29	32	39	51	28	26	28	31	11	5	5	5	21	11	35	30	39	39	33	14	17	955
22	Farmers Cooperative	90	71	82	83	84	87	90	82	65	48	47	46	42	44	39	40	41	44	48	42	39	39	39	39	39	39	46	44	44	45	46	1674
23	Canyon (Campbell)	10	7	8	10	11	16	21	20	16	14	12	10	9	8	8	9	10	10	11	8	6	6	8	8	7	7	7	7	7	7	7	305
24	Siebenberg	6	5	5	6	7	6	4	3	6	9	10	11	9	9	9	9	9	9	9	9	9	8	8	8	9	9	9	8	7	7	7	237
25	Riverside No 2	52	53	46	35	38	43	48	59	63	54	49	30	19	19	19	24	25	18	16	18	19	21	19	19	19	26	26	26	26	23	25	962
26	Pioneer Dixie	21	21	13	20	27	27	27	30	26	22	23	23	23	27	26	22	22	22	27	27	27	27	30	30	28	29	30	30	30	28	25	1072
27	Eureka No 2	34	40	36	40	44	38	32	29	25	25	29	33	37	37	37	36	37	37	38	39	39	39	37	31	32	32	34	37	33	35	31	1074
28	Upper Center Point	7	7	6	7	9	10	11	9	8	7	8	7	8	8	9	10	7	9	8	10	9	10	10	11	12	13	13	13	13	13	11	293
29	Lower Center Point	5	5	5	5	6	6	6	6	6	5	4	6	5	5	5	8	8	8	8	5	7	7	6	6	6	5	5	5	4	4	4	179
30	Boise River at Notus	15	17	16	14	14	14	16	16	14	14	14	14	14	15	16	16	16	16	17	18	18	18	18	18	18	19	20	19	18	18	18	600
31	Miscellaneous	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	11	11	11	11	557
	Total	2576	2567	2474	2146	1985	1965	1920	1774	1693	1667	1168	982	947	929	848	932	967	939	933	895	1280	1170	1170	1185	1281	1305	1239	855	1311	918	895	43210

WSEH

Keuffel & Esser Co. CROSS SECTION PAPER 10 to 1 inch
NEW YORK HOBOKEN

JUNE

No	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
1	USRS	182	184	184	186	186	178	178	178	180	180	180	180	180	180	180	180	179	179	179	177	177	177	177	177	177	177	177	177	177	177	5308
2	New York Stock	219	219	217	217	217	164	162	162	164	164	164	164	164	164	164	164	151	151	51	51	21	0	0	0	0	0	0	0	0	0	2
3	Penitentiary	6	6	6	6	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	2
4	Bubb	12	12	12	12	12	11	10	10	9	9	9	9	9	9	9	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	27
5	Ridenbaugh	368	368	364	321	329	363	372	362	366	367	368	369	370	363	366	369	360	317	316	324	25	0	0	0	0	0	0	0	0	0	1140
6	Settlers	162	165	160	154	152	170	170	170	170	169	170	170	169	169	169	169	140	113	113	113	113	113	111	110	110	110	110	110	110	110	4330
7	Thurman	34	34	30	30	28	30	26	28	24	22	22	22	23	25	24	24	25	26	26	27	28	28	30	30	30	30	30	30	30	30	794
8	Cruzen	42	45	42	40	42	40	42	42	42	42	42	42	42	42	42	44	44	44	44	44	44	44	42	44	44	44	44	44	44	44	1298
9	Boise City	37	32	38	38	35	38	32	32	31	30	30	30	30	30	29	29	29	28	27	29	26	26	28	20	18	18	18	19	19	19	522
10	Farmers Union + B.V.	140	200	200	200	200	200	198	198	198	198	198	198	198	198	198	198	165	165	165	165	163	163	163	163	162	162	162	162	162	162	5288
11	Little Union	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	13	13	12	12	12	12	12	10	10	10	10	10	8	8	6	336
12	Dry Creek	69	70	71	71	94	96	99	65	48	34	40	45	45	50	52	52	56	42	40	39	42	44	44	0	40	38	36	33	33	34	1140
13	Ballantine	15	15	15	15	14	14	10	12	12	19	19	14	14	10	10	10	10	10	10	10	10	10	8	8	8	8	8	8	8	8	344
14	Middleton Water Co.	118	118	118	110	102	98	96	90	82	84	80	100	90	80	80	80	80	80	80	80	64	65	66	66	66	66	66	66	66	66	2288
15	Middleton Mill Ditch	60	58	58	60	60	60	65	62	61	61	61	60	60	60	50	50	50	46	46	44	42	42	42	40	40	40	40	37	37	37	1320
16	Little Pioneer	26	26	25	25	23	22	20	20	20	20	20	12	9	10	10	14	17	17	17	16	16	15	20	27	15	15	15	15	15	15	554
17	Canyon County	70	70	74	74	74	70	70	70	69	60	54	45	50	54	48	58	58	58	60	63	54	44	48	48	48	44	44	47	47	47	1746
18	Eagle Island Canals	47	47	47	47	47	47	47	47	47	47	38	36	36	35	36	32	28	28	28	28	28	28	28	28	29	28	28	29	28	28	1072
19	Phyllis	344	344	344	342	338	335	336	336	302	304	339	339	339	274	299	299	299	309	309	308	309	0	0	305	287	305	305	287	287	287	9440
20	Eureka No. 1	29	29	29	26	25	25	24	24	23	21	21	21	21	21	20	20	20	20	20	20	20	20	18	18	18	18	18	18	18	18	634
21	Caldwell High Line	70	70	69	70	70	70	70	70	42	34	39	39	26	21	35	30	65	50	50	50	50	50	37	36	36	29	29	29	28	28	1328
22	Farmers Cooperative	296	168	155	158	170	182	194	206	220	232	244	254	200	136	105	99	99	104	114	118	116	31	25	79	72	48	50	64	78	47	2700
23	Carpon	20	18	13	13	24	20	10	5	3	2	2	2	15	12	5	3	2	14	24	30	34	11	11	14	21	28	6	2	2	4	0
24	Siebenberg	4	4	4	5	5	6	9	6	4	2	4	4	3	6	9	10	6	12	11	12	11	9	7	8	14	14	14	5	5	18	0
25	Riverside No. 2	192	180	174	138	159	160	164	166	167	163	160	164	165	154	123	120	106	104	106	124	110	33	64	65	62	69	71	62	54	382	0
26	Pioneer Dixie	21	26	17	8	5	12	17	26	32	30	37	30	21	12	12	11	19	20	20	20	20	20	13	16	19	19	21	21	21	21	57
27	Eureka No. 2	43	45	47	45	36	38	38	39	39	40	40	36	32	32	28	24	27	30	33	36	37	38	33	37	40	30	32	36	40	40	1035
28	Upper Center Point	12	13	10	0	7	5	6	7	8	9	10	9	7	6	5	5	6	7	9	10	10	9	9	9	9	7	7	9	9	23	0
29	Lower Center Point	26	26	20	15	10	5	7	6	5	4	4	4	3	3	2	1	2	4	5	8	8	7	6	6	5	5	5	5	5	22	0
30	Boise River Ditches	84	62	32	35	22	22	33	102	122	102	65	46	33	27	27	22	17	17	17	20	17	0	18	15	18	17	17	16	15	1076	0
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	23	23	23	23	23	23	19	19	19	19	19	0	15	15	15	15	15	15	15	714	0
	Total	4049	3864	3854	3622	3720	3583	3610	3554	3520	3486	3444	3367	3268	3069	2802	2737	2553	2529	2685	2681	2772	1	2696	2587	2685	2674	2623	2568	2568	89,706	0

MAY

No.	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
1	U.S.P.S.	450	444	1034	444	1520	490	447	428	491	474	490	495	440	1005	1329	1336	1370	1329	1425	1490	1386	1	1	1	1	1	1	1	1	1	1	14,028
2	New York Stock	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8,587
3	Penitentiary	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	248
4	Burns	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	11	11	11	10	10	10	11	12	12	12	12	12	12	12	12	366
5	Fidenbaugh	435	420	440	446	440	450	445	446	440	447	456	450	445	445	455	447	447	442	467	472	473	470	464	467	467	471	472	470	480	470	470	14,093
6	Settlers	185	180	187	192	190	190	190	178	178	178	174	174	176	176	176	176	176	176	176	176	175	178	181	184	180	180	182	182	180	180	180	5,580
7	Thurman	23	23	23	24	24	25	25	30	30	30	30	33	33	33	33	33	33	33	34	34	34	34	36	36	36	36	36	36	36	36	36	977
8	Cruzen	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	1240
9	Boise City	40	40	40	41	41	41	39	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	44	44	32	30	30	30	31	32	32	1227
10	Farmers Union Ditch	197	192	192	192	192	192	192	192	197	205	205	205	201	205	205	205	205	205	205	212	212	212	212	212	212	212	212	212	212	212	212	6,578
11	Little Union	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	16	16	16	17	18	18	18	16	14	14	14	14	14	14	14	14	444
12	Dry Creek	62	60	62	62	60	60	62	62	64	64	64	65	67	76	80	80	65	68	60	62	64	64	64	64	64	64	64	64	64	64	69	2043
13	Ballantine	16	16	16	16	16	10	10	10	10	10	12	13	13	13	13	16	16	16	16	16	16	10	14	14	14	14	14	15	15	15	15	411
14	Middleton Water Co.	131	131	131	131	131	113	110	110	110	110	105	104	114	114	114	114	114	114	114	115	116	116	116	120	120	120	120	120	120	106	118	3624
15	Middleton Mill Ditch	60	60	60	62	56	62	62	62	62	70	70	65	65	60	65	62	62	67	65	62	60	60	62	60	60	60	63	64	64	62	60	1956
16	Little Pioneer	25	25	25	26	25	27	24	24	22	22	22	26	26	26	26	26	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	835
17	Canyon County	72	72	72	72	72	72	73	72	72	72	70	70	69	70	80	80	72	72	70	80	80	72	72	72	72	72	72	72	72	72	72	2237
18	Eagle Island Canals	47	49	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	1457
19	Phyllis	331	331	331	341	341	343	343	344	345	346	347	345	331	331	331	330	320	326	327	326	326	324	324	324	332	361	347	347	347	347	314	10292
20	Eureka No. 1	34	34	34	24	24	24	24	24	24	24	24	26	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	37	775
21	Caldwell High Line	72	73	73	73	71	72	72	74	73	74	74	74	65	73	73	73	72	71	71	70	70	70	70	70	70	70	70	70	70	70	70	2216
22	Farmers Cooperative	187	215	220	228	247	260	242	230	226	253	230	225	220	214	214	212	222	230	230	226	230	264	248	244	248	252	268	272	264	258	220	7355
23	Canyon	18	17	16	16	15	14	14	14	15	15	15	16	16	16	17	15	19	20	21	21	21	21	20	21	21	21	6	6	6	5	50	458
24	Siebenberg	14	14	12	12	12	10	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	9	9	8	7	7	6	6	4	4	4	222
25	Riverside No. 2	175	183	183	200	215	220	226	220	214	198	202	202	200	200	201	202	203	204	205	206	207	208	208	210	211	212	214	216	216	217	205	6317
26	Pioneer Dixie	34	34	34	33	33	32	32	32	46	46	40	37	35	35	36	36	36	37	37	37	37	36	36	36	36	36	35	35	35	30	25	1224
27	Eureka No. 2	52	53	53	55	60	63	65	61	69	53	49	46	43	43	43	43	44	44	44	45	45	49	49	45	47	46	46	46	46	46	46	1631
28	Upper Center Point	10	11	12	14	16	15	20	18	16	15	13	11	10	11	12	13	14	15	17	18	17	16	15	14	13	12	12	11	10	11	11	426
29	Lower Center Point	20	20	20	20	20	22	24	22	20	18	16	14	13	14	16	17	20	22	24	25	25	24	23	22	23	25	25	26	26	26	26	666
30	Boise River at Notus	87	86	84	65	73	93	120	144	102	97	77	97	71	62	52	40	34	46	40	40	46	39	34	46	60	68	65	62	62	62	137	2245
31	Miscellaneous	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	961
	Total	4179	4071	4344	4392	4331	4376	4238	4340	4329	4296	4313	4281	4232	4215	4076	4071	4099	4191	4209	4209	4194	4184	4173	4201	4191	4041	4133	4106	3934	3976	4030	129,837

MAY

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS BY DAYS DURING THE IRRIGATION SEASON OF 1924 INCLUDING STORAGE.

APRIL

No.	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
1	U.S.R.S.	0	0	36	26	100	106	214	246	288	1	1	3	1	42	131	142	142	251	312	423	536	442	322	240	1078	1140	1150	1250	1171	1402	13577
2	New York Stock	0	0	0	0	0	0	0	0	0	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	8311
3	Penitentiary	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	90
4	Bubb	0	0	0	0	0	0	0	6	8	6	12	12	12	12	12	12	12	12	12	13	13	14	14	14	14	14	14	14	14	14	277
5	Ridenbaugh	77	82	60	46	42	68	75	85	90	108	127	137	180	190	176	196	210	215	238	270	317	316	324	340	340	360	362	370	390	410	6224
6	Settlers	14	30	30	26	22	14	22	63	65	50	50	46	46	60	64	76	80	93	110	127	142	118	120	120	180	180	187	190	190	191	3827
7	Thurman	0	0	0	0	0	0	0	6	6	6	12	12	12	12	18	18	18	18	18	18	18	18	20	20	20	20	20	22	22	22	372
8	Cruzen	25	25	25	25	25	25	20	25	25	25	40	40	40	40	40	41	40	40	41	40	40	40	40	40	40	40	40	40	40	40	1050
9	Boise City	0	0	0	0	0	0	0	0	0	8	8	12	16	20	20	26	28	30	30	34	36	37	37	38	38	40	40	40	46	42	612
10	Farmers Union-BV	15	15	15	15	15	15	15	15	15	25	25	30	30	42	42	60	68	75	100	130	140	118	122	122	184	184	184	184	188	193	2566
11	Little Union	0	0	0	0	0	3	3	3	4	4	4	6	8	10	10	10	12	12	12	12	12	14	14	14	14	14	14	14	14	13	230
12	Dry Creek	0	0	0	0	5	5	5	5	5	5	5	5	7	10	10	10	10	12	30	30	55	50	48	48	60	60	63	66	58	54	786
13	Ballantine	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	12	13	13	13	14	14	16	16	16	16	16	16	16	16	16	255
14	Middleton Interio	10	10	10	8	4	4	4	6	0	0	10	10	10	10	20	36	43	50	68	90	89	100	120	120	138	138	138	98	122	126	1647
15	Middleton Mill Ditch	10	10	10	10	10	8	8	8	6	6	6	12	20	25	30	34	36	38	38	56	56	66	58	58	58	58	60	60	60	60	965
16	Little Pioneer	0	0	0	0	0	0	0	0	0	0	0	0	6	8	9	16	22	34	34	26	26	24	22	22	38	34	30	28	28	28	466
17	Canyon County	36	36	36	0	0	0	0	0	0	0	0	0	36	36	40	45	60	65	69	85	91	90	80	75	70	75	75	70	70	75	1532
18	Eagle Island Canals	0	0	0	0	0	10	10	10	10	10	20	20	20	20	20	40	40	40	40	40	42	42	42	42	42	42	42	42	42	42	822
19	Phyllis	20	20	20	20	20	20	80	90	105	70	70	50	130	195	210	210	224	246	276	296	329	336	330	330	332	332	326	326	330	330	5978
20	Eureka No. 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24	24	24	20	20	20	20	18	18	24	24	30	30	526
21	Caldwell High Line	10	16	16	30	30	30	30	34	38	38	38	38	38	38	51	51	51	51	51	51	63	71	71	82	82	82	84	84	84	84	1463
22	Farmers Cooperative	30	30	30	30	30	30	30	30	30	40	50	60	70	80	90	100	110	140	140	140	160	160	160	170	200	200	210	230	240	240	3370
23	Canyon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	14	160
24	Siebenberg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14	14	14	14	14	84
25	Riverside No. 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160	164	164	165	169	165	170	170	170	170	175	175	180	186	186	184	2668
26	Pioneer Dixie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	30	30	40	150
27	Eureka No. 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	40	52	52	52	52	52	52	52	52	52	52	632
28	Upper Center Point	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	10	10	10	10	10	10	10	10	10	700
29	Lower Center Point	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
30	Boise River at Notus	291	261	295	340	363	261	191	200	221	197	191	122	102	70	73	84	110	102	76	73	70	65	73	70	106	110	102	84	70	95	4452
31	Miscellaneous	0	10	0	5	3	5	10	10	60	15	15	15	20	20	20	25	25	25	31	31	31	31	31	31	31	31	31	31	31	31	597
	Total.	598	588	643	663	724	657	727	822	896	831	951	896	1112	1233	1478	1710	1898	2053	2290	2560	2817	3023	3048	3047	3670	3734	3811	3915	4007	4109	59916

M.E.M.

EXHIBIT 5

OFFICE OF

PIONEER IRRIGATION DISTRICT

CANYON AND ADA COUNTIES, IDAHO

CALDWELL, IDAHO, July 3, 1928.

Mr William Welch,
Watermaster, Boise River,
Boise, Idaho.

WATER DISTRICT 12A

File No. 16/1

Dear Sir,-

As you are aware the water decreed to this District and drawn at the Phyllis Canal is insufficient to provide a sufficient head for proper irrigation of the lands under that canal.

As you are also aware this District is under contract to carry thru its Caldwell Canal the water decreed to the Franklin Ditch Co under decrees Nos 34 and 77, and to the Mason Creek Ditch Co under decree No 46, amounting to 4010 inches.

Owing to the fact that a large amount of water is frequently supplied to these ditches by this District which is developed by drain ditches within the District there are times when all of the water is not needed by these ditch companies.

In view of these facts I am asked by our Board of Directors to request that if it is possible for you to do so you make temporary transfer to the Phyllis Canal of such surplus water of these rights mentioned when it is not needed by these companies.

Very truly yours,

Fred L. Evans

Secretary.

I. A. WEAVER
CHAIRMAN OF THE BOARD
WM. H. TULLER
PROJECT MANAGER
F. J. HANAGAN
SECRETARY-TREASURER

REFERENCES—PACIFIC NATIONAL BANK, BOISE, IDA.
BUREAU OF RECLAMATION—DENVER, COLO.: WASHINGTON, D. C.

BOARD OF CONTROL

BOISE PROJECT

(FORMERLY BOISE U. S. RECLAMATION PROJECT)

BOISE, IDAHO

OPERATING AGENCY FOR 167,000 ACRES FOR THE FOLLOWING IRRIGATION DISTRICTS:
NAMPA & MERIDIAN DISTRICT
BOISE-KUNA DISTRICT
WILDER DISTRICT
NEW YORK DISTRICT
BIG BEND DISTRICT

July 5, 1928

WATER DISTRICT 12A
File No. 16

Mr. Wm. Welsh,
Boise River Watermaster,
Boise, Idaho.

Dear Mr. Welsh:

Reference is made to your letter of July 5, regarding the temporary transfer to the Phyllis Canal of any surplus water decreed to the Franklin and Mason Creek Ditch Company, and I have to advise that the matter was presented to the Board of Directors in session today and the following resolution was adopted.

"It was moved by Sparks, seconded by Lampert, THAT we object to the transfer of this water to the Pioneer District and hereby serve written notice on the Boise River Watermaster, Wm. E. Welsh, to that effect. Motion carried."

Yours very truly,

Wm H Tuller

Wm. H. Tuller
Project Manager

WW;VH

Boise, Idaho. July 5, 1923.

Mr. Wm. H. Tuller,
Project Manager,
Board of Control-Boise Project,
Boise, Idaho.

WATER DISTRICT 12 A

File No. 165

Dear Sir:

The Directors of the Pioneer Irrigation District have requested that I transfer temporarily to the Phyllis Canal any surplus water that has been decreed to the Franklin and Mason Creek Ditch Company and carried thru the Caldwell Highline Canal that is not needed on these lands.

There are two reasons why all of the water decreed to the Franklin and Mason Creek Company is not needed in the Caldwell Highline Canal. First; there is a considerable wet area in these lands and they do not require all of the water. Second; they receive a large amount of water from the drain flowing from the Pioneer Irrigation District.

I have told the Directors of the Pioneer Irrigation District that I would not be able to make this transfer if any user objected. In my opinion the theory of the law is that any user is entitled to the full amount of the water decreed to them as long as they can put it to beneficial use but if they cannot use it beneficially then it automatically reverts back to the State and belongs to the next right in line, therefore, I consider that I cannot transfer it if any user claims an injury thereby.

Such transfer at this time would effect the amount of water you are receiving from the River and I am therefore asking for your approval or disapproval in this matter.

Very truly yours,

Boise River Watermaster.

BOARD OF CONTROL-BOISE PROJECT

REGULAR MEETING

July 5, 1928

Meeting called to order at 10.20 a.m. by Chairman Weaver.

Roll Call showed all Directors present.

Visitors present: W.H.Kollenborn, Z.N. McCall and C. F. Oellien.

On motion by Sparks, seconded by Antrim the Minutes of the previous meeting were approved as read.

The Financial Report showing the following was read:

Balance reported on May 31,1928.....$	178,024.89
Collections during June,1928.....	9,407.27
Total.....	187,432.16
Disbursements June,1928 Cks.#1512-1586 Incl..	15,073.88
Balance as of June 30,1928.....$	172,358.28

It was moved by Lampert, seconded by Olsen that the Financial Report be approved. Motion carried.

At this time the Project Manager gave his report covering the following:

Status of Storage and River Flow
Expenditures
Status of Districts' Accounts
Delivery of Water
Drowning of team in Canal
Robinson Hill Pipe Line
Seepage Water - Kuna Reservoir

At this time a communication was read from Wm. E. Welsh, Watermaster, Boise River, stating that the Directors of the Pioneer District had requested the temporary transfer of any surplus water decreed to the Franklin and Mason Creek Ditch Company carried thru the Caldwell Highline Canal that is not needed on these lands. The letter further stated that the Franklin and Mason Creek lands did not need this water because of seeped lands within their territory and that they receive a large amount of water from the drain flowing from the Pioneer District. As this transfer would effect the amounts of water the Boise Project is receiving, Mr. Welsh desired to know if there was any objection.

Mr. Decoursey and Mr. May appeared before the Board presenting the matter from the standpoint of the Pioneer District and Mr. Welsh spoke regarding the effect of the transfer from the standpoint of the Department of Reclamation. After discussing the contract obligations, the law and all angles of the case, it was moved by Sparks, seconded by Lampert THAT we object to the transfer of this water to the Pioneer District and hereby serve written notice on the Boise River Watermaster, Wm. E. Welsh, to that effect. Motion carried.

At this time Mr. Lampert gave the report for the Committee on change of telephone lines at the Airport, stating that Boise City had put up $500.00 for the proposed change and that the estimate cost would be approximately $800.00, the Board was to assume the difference. Mr. Tuller then made a report on the work stating that the cost would be about as estimated.

It was moved and duly seconded that the report and the actions of the Committee be approved. Motion carried.

The Committee's report on the complaint of the Lakeview residents was filed and it was moved by Sparks, seconded by Amesbury that the matter be deferred until the afternoon session. Motion carried.

Mr. Oellien then requested that the Board hear Mr. Brock, the owner of the horses that drowned in the Low Line Canal during the afternoon session. By agreement of the Board, the Chairman advised that this would be satisfactory.

At this time the Board resumed discussion of the Project Manager's report. In the matter of repair of the Robinson Hill Pipe, the request for authority to increase the amount of work over the proposed program, it was moved by Lampert, seconded by Sparks that the Project Manager is hereby authorized to make the necessary expenditures as requested for the Robinson Hill pipe as outlined in his report. Motion carried.

In the matter of delivery of seepage water for the Kuna Reservoir as requested by Mr. D. R. Hubbard for the Iowa-Idaho Lateral and Reservoir Company, the Manager explained that under the terms of the contract dated March 3, 1906, he had cut off delivery of the seepage water as soon as it became necessary to draw on Arrowrock Storage, which was the position taken by the United States in past years with the exception of the year 1926 when water had been delivered for nine days after the storage delivery began. Mr. Hubbard had objected to this method so after much discussion with Mr. Hubbard and the Reclamation people, delivery had again been resumed pending the dicision of the Board at this meeting, with the understanding that the question of rights would not be involved in such delivery. Mr. Weaver reported the opinion of Mr. Grebe in the matter, stating that the whole question being hinged on the term "Unregulated Flow of the Boise River". The Board went into the matter very

PHONE 9-2001

716 ARTHUR STREET

PIONEER IRRIGATION DISTRICT

CANYON AND ADA COUNTIES

CALDWELL, IDAHO

December 12, 1955

Mr. Edwin B. Karn, Watermaster
214 Broadway
Boise, Idaho

Dear Eddie:

In reply to your letter of December 7th regarding our acreages, figures are as follows:

We are assessing 34,361.85 acres, and of course you know we are carrying water for Canyon Hill, which is 755.47 acres. We also carry water for Franklin, but don't know the number of acres, and don't know that you want that under ours anyway. Hope these are the figures you want.

Merry Christmas and Happy New Year.

Very truly yours,

W. W. Moore, Secretary

WWM/sg

There is approx. 1000 acres under the H.L. Inc. Canyon Hill & excluding Franklin water, which is not a part of our acreage. They have 3760 inches of water and all the land of H.L. Lands are irrigated from the Denned from Mason Creek & 5 Mile creek

EXHIBIT 6

Franklin Ditch Co.

To

Idaho & Oregon Land Imp. Co.

This agreement made this second day of October A. D. 1883, by and between the Franklin Ditch Company a corporation, organized under the laws of Idaho Territory the party of the first part and the Idaho & Oregon Land Improvement Company, a corporation organized under the laws of the State of Colorado, the party of the second part.

Witnesseth: Whereas the party of the first part is the claimant of and in possession of a certain Water Right and irrigating ditch taking water out of Boise River or its Sloughs, on the south side of the River, on the farm of William Frost, about Seven or Eight miles above the town of Middleton in Ada County, Idaho Territory by means of a ditch and through the sloughs of said River for the irrigation of the lands of the Shareholders of said company: and whereas said party of the second part desires to acquire said Water right and ditch and to enlarge and extend the same for the irrigation of lands below those now covered by it.

Now, therefore, said party of the first part acting by and through its board of Trustees, for and inconsideration of the conveyance of thirteen hundred and fifty inches of Water by said party of the second part, to said party of the first part, or to such persons being its shareholders, as it may designate, in such several shares as it may designate, covenants and agrees to convey to said party of the second part all its said Water Right and ditches at any time on or before the first day of May 1884, upon the performance by said party of the second part, of its covenants and agreements as herein after contained and the execution and delivery of the deeds as hereinafter mentioned.

And in consideration of the foregoing agreement said party of the second part, acting by and through its corporate officers thereunto duly authorized by its Board of Trustees, Covenants and agrees to and with said party of the first part that it will, before the first day of May next, enlarge said ditch from the point where the water is taken from Boise River to where the line of the ditch crosses what is known as Mason Creek, and will on or before said day convey by good and sufficient deed of conveyance, to the said party of the first part, or at the option of the said party of the first part, to such persons as the party of the first part may designate, they being shareholders of the party of the first part, and as appurtenant to the lands now owned, entered occupied or claimed by the said shareholders, one thousand three hundred and fifty (1350) Statutory inches of Water, to be taken by the party of the first part, or its said shareholdrs or their grantees from the ditch of the party of the second part, or from any slough along the line of said ditch, at such point or points, as said party of the first part or said shareholders, or their grantees, may from time to time prefer, and said party of the second part further covenants and agrees, to leave at all times at least three hundred and fifty (350) inches of water in what is known as the outside or South Slough, into which the ditch of the party of the first part now empties near the Bluff, and not less that Eight hundred (800) inches of water in what is known as the Back Slough that leaves the main slough about twenty feet aboue the head gate of the party of the first part, said sloughwater being for the use of said shareholders and theirgrantees, over and above thirteen hundred and fifty inches to be taken from the ditch as aforesaid. Said party of the second part further agrees to bridge all public reads crossed by said ditch and to bridge at least three private roads or trails, sufficient to cross cattle and stock at points to be designated by the party of the first part.

It is understood and agreed that said conveyance or conveyances shall be sufficient to vest the first thirteen hundred and fifty inches of water carried by said ditch and to convey the same, appurtenant to said lands in such severall interests as may be designated by the party of the first part, free and clear of all expenses costs and charges for the construction, repair, and maintenance of said ditch forever. That said water ditch/shall only be appurtenant to and shall only be used upon the lands now owned, entered, occupied or claimed by the shareholders of the party of the first part, but may be taken at any time or place by said shareholders, their successors or assigns for that purpose, but when not desired for that purpose, shall not be taken from said ditch.

The party of the second part is to have the necessary right of way for said ditch over the lands of the shareholders of the party of the first part, without charge therefor.

The party of the second part is to have immediate possession of the premises, but if this agreement is not duly executed and delivered by the party of the second part, on or before the first day of November next, such possession shall be surrendered and all work and improvements forfeited.

The Expense of all conveyances shall be bourne equally by the parties hereto.

Time is the essence of this agreement and if said party of the second part shall fail or omit to enlarge said ditch or to convey said water as aforesaid, on or before said first day of May next, or shall be unable on said day to furnish and supply said thirteen hundred and fifty inches of water on said day or when required thereafter, there and in that case the party of the first part shall be released from all obligations to make its said conveyance and the said party of the second part shall forfeit

all rights under this agreement and all work and improvements on said premises and all claim thereto shall upon demand quit and surrender the premises to the party of the first part or its assigns.

In Witness Whereof, said party of the first part has by resolution of its board of Trustees, caused this agreement to be signed by its Trustees and sealed with their private seals said company having no corporate seal, and said party of the second part has by resolution of its Board of Trustees caused this agreement to be subscribed by its President and Secretary and its corporate seal to be hereunto affixed.

In Duplicate

Thomas Wheatley (Seal)

G. W. Wootan (Seal)

his
Robert X White (Seal)
mark

Trustees Franklin Ditch Company
A. Caldwell, Pres. I & O.L.I.Co.

Attest (Seal)

H. C. Wallace, Secretary

Territory of Idaho)
)ss
County of Ada)

On this 2nd day of October A. D. 1883, personally appeared, before me M. R. Jenkins, a Justice of the Peace, in and for said Ada County, Thomas Wheatley, G. W. Wootan and Robert White, whose names are subscribed to the annexed instrument as parties thereto, personally known to me to be the same persons described in and who executed the said annexed instrument as parties thereto, who each of them acknowledged to me that they each of them respectively, executed the same freely and voluntarily and for the uses and purposes therein mentioned.

In Witness Whereof, I have hereunto set my hand and affixed my seal this day and year in this certificate first above written.

M. R. Jenkins

Justice of the Peace

Territory of Idaho)
) ss
County of Alturas)

On the 27th day of October one thousand eight hundred and eighty three, personally appeared before me, C. B. Fox a Notary Public in and for the County of Alturas, A. Caldwell, President and H. C. Wallace, Secretary of the Idaho & Oregon Land Improvement Company, a corporation and whose names subscribed to the annexed instrument as parties thereto personally known to me to be the same persons described in and who executed the said annexed instrument as parties thereto as President and Secretary of said Company, who duly acknowledged to me that they executed the same freely and voluntarily and for the purposes and uses therein mentioned.

In Witness Whereof I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

(SEAL)

C. B. Fox

Notary Public.

C and B

Bl P296 Recorded at the request of Thomas Wheatley Dec. 3rd 1883 at 10 o'clock A. M.

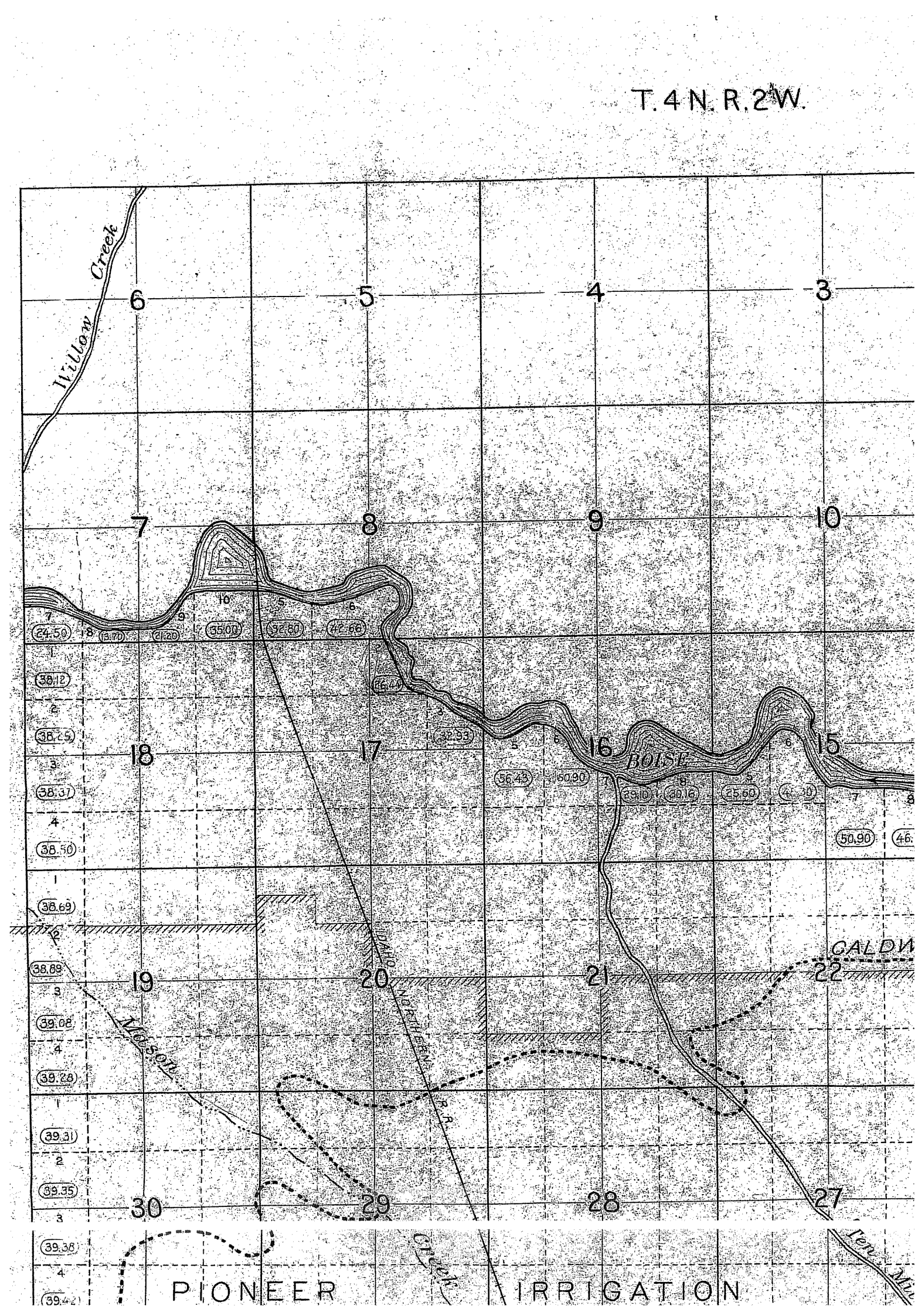
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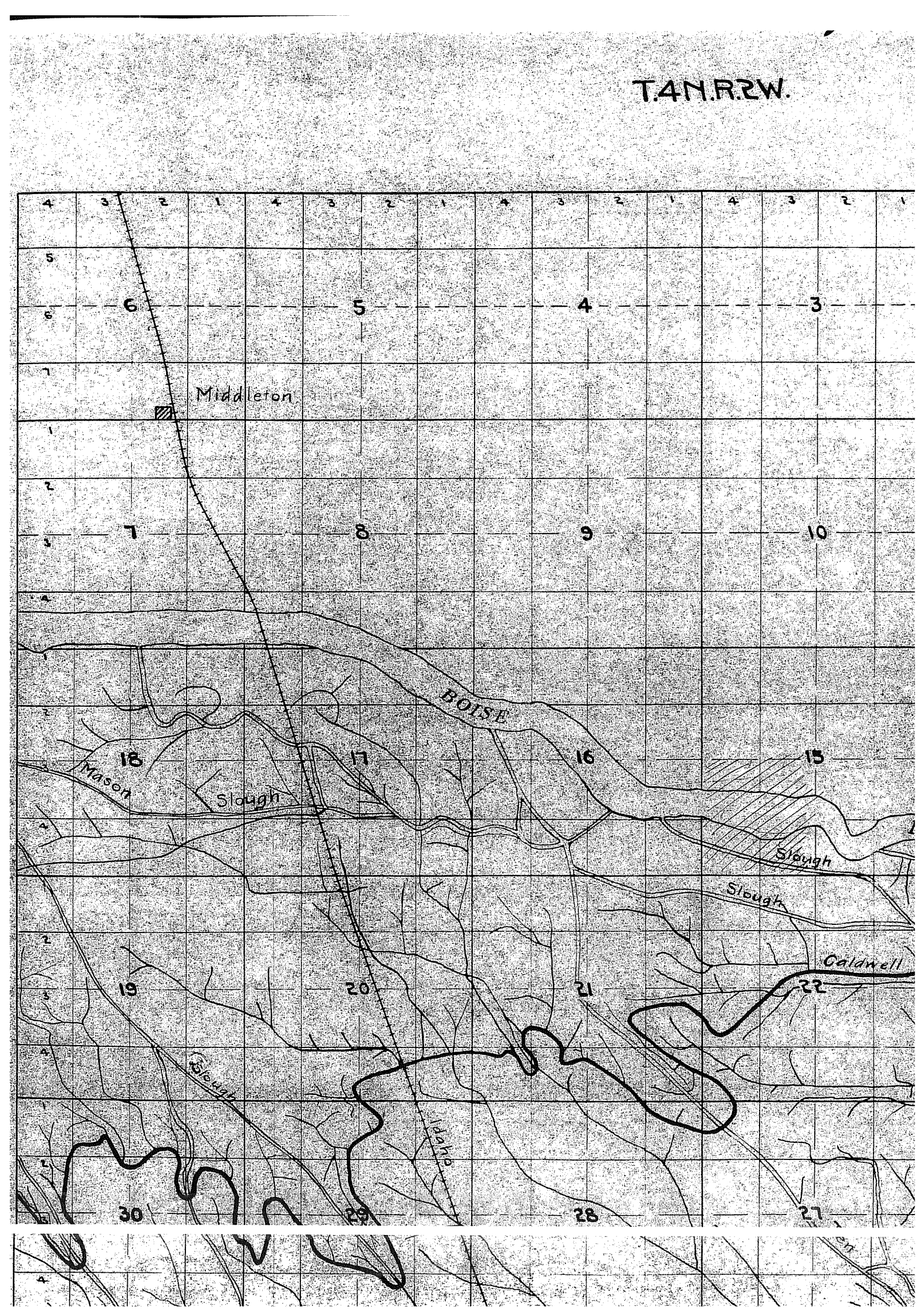
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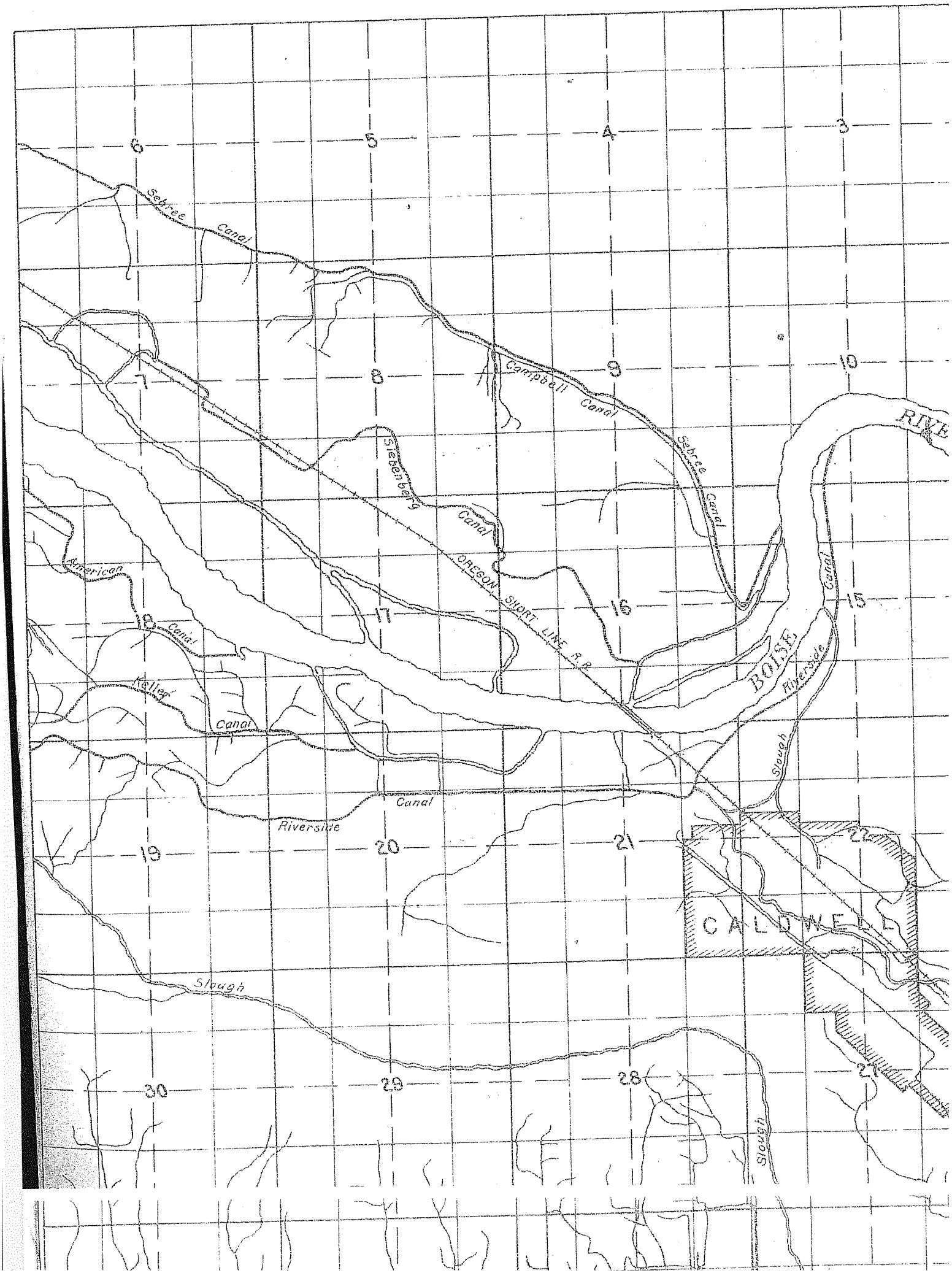
B. S. Prickett

Recorder

EXHIBIT 7


T. 4 N. R. 2 W.
Willow Creek
BOISE
IDAHO NORTHERN R.R.
McLeon
PIONEER IRRIGATION
Ten Mile Creek


T.4N.R.2W.
Middleton
BOISE
Mason
Slough
Slough
Slough
Slough
Caldwell
Idaho
6
5
4
3
7
8
9
10
18
17
16
15
19
20
21
22
30
29
28
27


T. 4 N. R. 3 W.
Sebree Canal
Campbell Canal
Sebree Canal
Siebenberg Canal
OREGON SHORT LINE R.R.
American Canal
Kelley Canal
Canal
Riverside
Canal
Riverside Canal
BOISE
Slough
CALDWELL
Slough
Slough
6
5
4
3
7
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16
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27

T.4.N., R.2.W.

NW¼ SECTION 33, T.4.N., R.2.W.
Present Owner, Patrick Mullen, Nampa.
Right of Way: 3.75 Acres.
Scale 1 I. 400 Ft.

IDAHO

NORTHERN

RR

R. of W. 1.90 Acres

173+23 P.I.
Δ 57°03'
R 319.6
169+97.9
236.9
S 67°40 E
172+16.4 P.C.
183.9
235.1
174+22.2 P.T.
151.7
85.1
67°40
S 30°37 E
162.4
176+58.8
185.9
90°
89°46
376.0
151.4
1319.9
89°43
89°44
1319.9
90°20
89°20
1326.0
1326.1
1325.9
1326.5
1320.4
S 89°41' E
1320.4
90°19
89°41
191+00
R or W 1.47 Acres
191+50
P.I. 191+80
Δ 51°32
R 114.6
192+27.8
P.I. 189+27.7
Δ 78°20'
R 249.1
N 1°03 E
257.2
257.2 E
4.8 ft
135.4
198+12.1
90°00'
89°44
130.1
136'
484.5
245.5
90°00'
89°44
2640.8
33
89°56
90°04
206+15.2
S 42°29 E
210+68.3 P.C.
Δ 31°06'
D 20°
R 286.5
214+00
S 80°34 E
217+79.2 P.T.
212+23.8 P.T.
215+65.2 P.C.
Δ 42°48'
D 20°
R 286.5
224+76.5
Δ 8°31'
687.2
Creek
Bridge
S 29°19
30'
90°2
49°29
50
50'
2652.5
N 0°03 W
N 0°00 E
2640.0
90°21
89°36
90°24
N 89°39 W
2074.2
2643'
30

SE¼ SECTION 33, T.4.N., R.2.W.
Present Owner - C. E. Leonard, Butte, Montana.
Right of Way = 8.90 Acres.
Scale, 400' = 1 Inch.
Mar. 1914

d	By whom surveyed	Date of contract	Amt of surveys Miles	chains	links	When surveyed	When changed in the Surr Genl's Accounts
S	Wm H Thompson	August 9th 1864	11	79	40	August 24th 1867	December 23rd 1867
S	" " "	" " "	60	02	61	September 16th 1867	March 5th 1868

The above Plat of Township Forty North of Range Sixteen of the Boise Meridian, Territory of Idaho, is strictly conformable to the field notes of the Survey thereof, on file in this Office and hereby examined and approved.

Surveyor General's Office

La Fayette Gaither
Surveyor General