

**WATER DISTRIBUTION
OF
BOISE RIVER
DISTRICT 63
1981**

CONTENTS

1. Shows daily discharges from Lucky Peak Reservoir for current year.
2. Shows the annual flow of the Boise River by days for the period from 1961 to date.
3. Shows mean daily flow of Boise River for an 80 year period.
- 3A. Shows annual flow for years when production exceeded 2,000,000.
4. Shows mean daily flow of Boise River in acre feet for the irrigation year of 1980 to date.
5. Daily discharge in cfs for the irrigation season.
6. Summary chart in acre feet showing monthly and total canal diversions for the year.
7. Summary chart showing monthly diversions for all Boise Valley canals for the year.

REPORT ON CANAL DELIVERIES FROM

BOISE RIVER

AND

DIFFERENT FEATURES AFFECTING THESE

DELIVERIES FOR THE IRRIGATION SEASON

OF 1981

(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

HENRY KOELLING

WATERMASTER, BOISE RIVER

CHARTS

1. Shows daily discharge from Lucky Peak Reservoir for current year.
2. Shows the natural flow of the Boise River by days for the period from 1941 to date.
3. Shows mean daily flow of Boise River for an 80 year period.
- 3A. Shows natural flow for years when production exceeded 2,700,000.
4. Shows monthly and annual flow of Boise River in acre feet, for the irrigation year of 1894 to date.
5. Daily discharge of all canals for the irrigation season.
6. Summary chart in acre feet showing monthly and total canal diversion for the irrigation season.
7. Summary chart showing total annual diversions for all Boise Valley canals beginning in 1967.
8. Shows acre feet per acre diverted by Boise Valley canals for each irrigation season beginning 1965.
9. Shows acreage under all canals in the Boise Valley.
10. Storage used for the irrigation season.
11. Reservoir space allocation of all reservoirs located on the Boise River.
12. Shows daily discharge of all principal tributary streams feeding water to the Boise River below Diversion Dam for the irrigation season 1 April thru 15 October.
13. Summary chart in acre feet showing monthly and total drain discharges for the irrigation season.
14. Chart showing entire Boise River at Diversion Dam, canal deliveries, tributary gain, seepage gain and net gain, by months in acre feet, for the irrigation season.
15. Shows total discharge of all drains in Drainage District #2 for the irrigation season.
16. Chart showing total discharge of all drains in Drainage District #3 and #4 for the irrigation season.
17. Summary chart of the return flow to Boise River between Diversion Dam and Snake River for the last 15 years.
20. Shows distribution of drainage water to various canals.
21. Shows Intervenor Decrees on Boise River (Intervenor in the Stewart Decree) giving priority number, date and amount decreed.
22. Shows changes in point of diversions of decreed rights on the Boise River.
23. Shows transfers of decreed rights on the Boise River.
24. Condensed chart of Stewart Decree showing dates of priority and amount decreed.
25. Chart showing the Stewart, Intervenor and Bryan Decrees grouped under canal headings.
26. Charts in second feet showing the Stewart Decreed rights and the approximate natural flow needed to fill the rights to 100%, 75% and 60%.
27. Chart in second feet showing the Bryan Decreed rights and the approximate natural flow needed to fill the rights to 100%, 75% and 60%.

ORGANIZATION

The annual meeting of Water District #63 was held January 12, 1981 at 10:00 a.m. in the Valley View Grange Hall, Ada County, Idaho.

Mr. Henry Koelling was elected Watermaster and was authorized to hire the necessary assistants to regulate the distribution of the waters of Water District #63.

The following Waterusers were elected to serve on the Advisory Board:

M. A. Watkins, Chairman
Howard Kent, Secretary
Bob Brown
Henry Dalrymple
John Gale
Vernon Haumann
Carl German
Fred Houston
Wendell Knight
L. C. Mace
L. L. Murgoitio

Any other meetings held during the year are subject to call by the Chairman of the Advisory Board.

Cooperative assistance is rendered by the Boise Project Board of Control in current meter work for which proper remuneration is made.

We take this opportunity to express our appreciation and gratitude for the assistance of the Department of Water Resources and the Central Snake project office of the Bureau of Reclamation.

DECREES

Stewart Decree:

The old water rights from the Boise River are included in the decree in the case of FARMERS COOPERATIVE DITCH COMPANY, a Corporation, vs. RIVERSIDE IRRIGATION DISTRICT, LTD., a Corporation, et al, signed by District Judge George H. Stewart, January 18, 1906, commonly referred to as the "Stewart Decree". This case was appealed to the Supreme Court and affirmed as to priorities and acreage, but remanded to the District Court for the sole and only purpose of determining the duty of water. In 1914 testimony was taken before the Court as to the duty of water and was transcribed, which consists of approximately 2,630 typewritten pages. The final decree of the court as to the duty of water has never been entered. However, Judge E. L. Bryan, Judge of the District Court of the Seventh Judicial District of the State of Idaho, issued a continuing order on May 31, 1919, which is still in effect, providing for the distribution of waters of the Boise River in the following manner, to-wit:

"The various rights, as adjudicated in the so-called "Stewart Decree", shall receive 100 percent, until the natural flow of the waters of the Boise River shall decrease, until all the rights in said decree cannot receive 100 percent, at which time the various rights as adjudicated in the so-called "Stewart Decree" shall first be cut to 75 percent of the amount of water decreed by the "Stewart Decree" as the natural flow of the Boise River decreases, beginning with the latest rights and proceeding to the

earliest rights in the order fixed in said Stewart Decree, and after all of the rights shall have been reduced to 75 percent of the amount fixed in the Stewart Decree, should the natural flow of the waters in Boise River decrease below the amount necessary to supply said 75 percent of the water rights as decreed in said Stewart Decree, then the various rights beginning with the latest and proceeding to the earliest, as aforesaid, shall be reduced to 60 percent of the amount specified in the Stewart Decree, and 60 percent of the amount decreed in the Stewart Decree is hereby fixed and determined as the highest duty of water for year 1919.

Bryan Decree:

In the SEVENTH JUDICIAL DISTRICT of the State of Idaho, Judge Ed. L. Bryan signed a decree on February 14, 1929, in the case of PIONEER IRRIGATION DISTRICT vs. AMERICAN DITCH ASSOCIATION, et al, commonly referred to as the "Flood Water Suit", or "Bryan Decree". All rights decreed in this case are made subsequent to the Stewart Decree. This case was appealed to the Supreme Court where it was upheld as to some of the rights involved but remanded to the District Court for retrial on the question of the duty of water and also for the purpose of determining certain other rights.

On January 30, 1932, Judge A. O. Sutton signed an order temporarily establishing the various rights in the Flood Water Suit and providing for a duty of water similar to the "Sliding Scale" in the Stewart Decree. On June 23, 1933, Judge Chas. E. Winstead of the THIRD JUDICIAL DISTRICT, sitting as Judge in the SEVENTH JUDICIAL DISTRICT for the State of Idaho, signed a continuing order making the order of Judge Sutton for 1932 effective for 1933 and continuing. This order has remained in effect since that time.

Chart 26 relates to the Stewart Decree and shows the following information: Number of priority, name of canal presently diverting, amount of decree in second feet, showing 100 percent, 75 percent and 60 percent, and section of river in which point of diversion is located. It also shows the amount of natural flow necessary at Diversion Dam to fill the various rights in the Stewart Decree, including intervenors, to 60 percent 75 percent and 100 percent. It is assumed that the return flow to Sections 2 and 3 of the river would fill the rights with points of diversion in those sections of the river to 75 percent of the amount decreed.

Chart 27 shows the decreed rights contained in the Bryan Decree or Flood Water Decree. It shows the date of priority, name of water user to whom the decree was issued, amount of decree in second feet, showing 100 percent, 75 percent and 60 percent. It also shows the amount of natural flow necessary at Diversion Dam to fill the various rights in the Flood Water Decree to 60 percent, 75 percent and 100 percent.

TRIBUTARY GAIN

Data was gathered and compiled on all principal tributary streams feeding water to the Boise River below Mores Creek.

Chart 12 shows the daily discharge of the tributary streams.

Chart 13 shows a monthly summary of discharges of the drains.

NET GAIN

Chart 14 shows the total flow of the Boise River passing Diversion Dam, canal deliveries, and gain to the river by months in acre-feet.

RIVER FLUCTUATION

The river flow was very steady, there being very few fluctuations. A change of gates at Lucky Peak sometimes results in a slight change in

discharge. A remote control gage, which makes a permanent record and shows the gage height at all times in the power house at Diversion Dam, has been installed and it gives a fair record of the flow below Diversion Dam. It varies if the flow is changed from the generators to the roll gate or over the check boards.

CLASSIFICATION OF RIVER

The Boise River naturally divides itself into three separate and distinct parts. Section 1 includes the part of the river which lies between the Government Diversion Dam and the Caldwell High Line Canal about a mile below the town of Star. Section 2 includes that section which lies between the Caldwell High Line Canal and the Notus Bridge. Section 3 includes that part of the river between the Notus Bridge and the Snake River.

SECTION 1

Chart 14 shows the condition that existed in the entire river during the period July 1 to November 1. This section is under complete regulation by the watermaster. All water is measured and divided according to the decrees and licenses, which are set by the courts and State laws.

SECTION 2

All water in this section is measured, but operation is more liberal than in Section I, due to return flow, so regulation is somewhat relaxed with very little storage water required.

SECTION 3

This section of the river is operated without any regulation what so ever, but it is measured and recorded the same as Section I and 2.

The return flow to Section 3 was sufficient to take care of all rights in this section during most of the season, and therefore no regulations were required. In fact, during all the years on record on the distribution of the waters of Boise River, beginning with 1914, there has been only one year - 1931 - during which it was necessary to regulate diversions from this section of the river, and during that year it was not necessary to run water past the Notus Bridge to supply the rights below.

The final determination of the duty of water, both in the "Stewart Decree" and the "Bryan Decree", is still pending in the District Court at Caldwell, Idaho. The writer's views are pretty well expressed in the following quotations for "REPORT ON CONSUMPTIVE USE--NET DUTY OF WATER--As Related to the Proper Adjudication of Water Rights on the Boise River", by W. G. Steward. Mr. Steward was formerly employed by the United States Reclamation Service in charge of Hydrographic work on the Boise River, and also for several years he was an instructor at the University of Idaho on the same subject. He has made a very comprehensive study of the duty of water, especially on the Boise River, and was well qualified on that subject. For these reasons the following quotations are submitted with the endorsement of the writer:

1. "That a duty of water, if established, should be subject to change when conditions warrant. Conditions are continually changing. Our knowledge and methods of irrigation are improving. An arbitrary duty that would meet all requirements today might prove entirely inadequate fifty years from now. Posterity should not be handicapped by our present day limitations.

2. "A duty, if established now, should be construed to mean a headgate,

The return flow to Section 3 was sufficient to take care of all rights in this section during most of the season, and therefore no regulations were required. In fact, during all the years on record on the distribution of the waters of Boise River, beginning with 1914, there has been only one year - 1931 - during which it was necessary to regulate diversions from this section of the river, and during that year it was not necessary to run water past the Notus Bridge to supply the rights below.

The final determination of the duty of water, both in the "Stewart Decree" and the "Bryan Decree", is still pending in the District Court at Caldwell, Idaho. The writer's views are pretty well expressed in the following quotations for "REPORT ON CONSUMPTIVE USE--NET DUTY OF WATER--As Related to the Proper Adjudication of Water Rights on the Boise River", by W. G. Steward. Mr. Steward was formerly employed by the United States Reclamation Service in charge of Hydrographic work on the Boise River, and also for several years he was an instructor at the University of Idaho on the same subject. He has made a very comprehensive study of the duty of water, especially on the Boise River, and was well qualified on that subject. For these reasons the following quotations are submitted with the endorsement of the writer:

1. "That a duty of water, if established, should be subject to change when conditions warrant. Conditions are continually changing. Our knowledge and methods of irrigation are improving. An arbitrary duty that would meet all requirements today might prove entirely inadequate fifty years from now. Posterity should not be handicapped by our present day limitations.

2. "A duty, if established now, should be construed to mean a headgate,

duty, or duty at the point of diversion.

3. "The best information at hand today would indicate that a duty, if established, should conform very closely to the so-called "sliding scale", as provided in the order issued by Judge Ed. L. Bryan on May 31, 1919. That if the present law does not permit the court to render a decision on the duty of water conforming closely with the above suggestions, the water users of the valley should arrange, by stipulation, for the delivery of water along the above suggested lines until such time as conditions have changed so as to warrant new distribution.

4. "That an exception to the "sliding scale" should be made in the case of porous-gravel, river bottom lands, lying adjacent to and under the upper section of the river as per the Stewart Decree, to the extent that these lands should be allowed to divert such amount of water as their crops require and at such times as it is needed, because no matter how much is diverted, all but a very small amount almost immediately returns to the river flow. Most canals have been required to purchase storage water to supplement their natural flow rights.

5. "That said lands entitled to above exceptions should be determined before a decree is entered or stipulation is signed."

The court order providing for the "sliding scale cuts", under which the Boise River has been operated for about fifty years, has proven very satisfactory when the entire valley is taken into consideration. This court order is given in full on Page 2 of this report.

Chart 6 shows the amount in acre-feet diverted each month and the total amount diverted for the season by the canals in the Boise Valley.

Chart 8 is a table showing acre-feet per acre diverted by Boise Valley canals for each irrigation season beginning in 1965. A similar record showing

the acre-feet per acre diverted for 50 principal canals in the Boise Valley, beginning 1916, and one beginning 1947, may be found in previous annual reports. The amount shown under the column "Acre Feet Per Acre" cannot be construed as a duty of water for the lands of the Boise Valley, due to the large and varying quantities of return flow water picked up by many of these canals.

DRAINAGE

Chart 15 shows the total drainage discharge for Drainage District No. 2 for the current season and a summary for the same. This drainage district embraces an area of 29,000 acres situated on the north side of Boise River between the City of Boise and the canyon near Caldwell.

Chart 16 is a table showing the discharge of all drains in both Drainage Districts No. 3 and No. 4. Drainage District No. 3, frequently referred to as the "South Boise Drainage District", is situated in South Boise. This district, comprising an area of 4,200 acres, has four drainage canals, all outlets emptying into the Boise River. Drainage District No. 4 frequently referred to as the "Thurman Drain", comprises an area of approximately 2,500 acres and is situated south of the Boise River and opposite the town of Eagle. This district has only one outlet to the Boise River.

Chart 17 is a table showing the average return flow to the Boise River for a 15 year period.

Chart 20 shows the method used in apportioning the drainage water to the various canals under the several court orders.

INTERVENORS

Chart 21 is a table showing the decrees obtained by intervenors in the case of Farmers Cooperative Ditch Company, Plaintiff, vs, Riverside Irrigation District, Ltd., et al, Defendants.

CHANGES IN POINT OF DIVERSION

Chart 22 is a table showing the change in the point of diversion of

the acre-feet per acre diverted for 50 principal canals in the Boise Valley, beginning 1916, and one beginning 1947, may be found in previous annual reports. The amount shown under the column "Acre Feet Per Acre" cannot be construed as a duty of water for the lands of the Boise Valley, due to the large and varying quantities of return flow water picked up by many of these canals.

DRAINAGE

Chart 15 shows the total drainage discharge for Drainage District No. 2 for the current season and a summary for the same. This drainage district embraces an area of 29,000 acres situated on the north side of Boise River between the City of Boise and the canyon near Caldwell.

Chart 16 is a table showing the discharge of all drains in both Drainage Districts No. 3 and No. 4. Drainage District No. 3, frequently referred to as the "South Boise Drainage District", is situated in South Boise. This district, comprising an area of 4,200 acres, has four drainage canals, all outlets emptying into the Boise River. Drainage District No. 4 frequently referred to as the "Thurman Drain", comprises an area of approximately 2,500 acres and is situated south of the Boise River and opposite the town of Eagle. This district has only one outlet to the Boise River.

Chart 17 is a table showing the average return flow to the Boise River for a 15 year period.

Chart 20 shows the method used in apportioning the drainage water to the various canals under the several court orders.

INTERVENORS

Chart 21 is a table showing the decrees obtained by intervenors in the case of Farmers Cooperative Ditch Company, Plaintiff, vs, Riverside Irrigation District, Ltd., et al, Defendants.

CHANGES IN POINT OF DIVERSION

Chart 22 is a table showing the change in the point of diversion of

decreed rights on the Boise River as recorded in the office of the State Department of Water Administration.

TRANSFERS

Chart 23 is a table showing the transfer of decreed rights on the Boise River as recorded in the office of the State Department of Water Administration.

STEWART DECREE

Chart 24 is a condensed table of the Stewart Decree.

Chart 26 is a table showing decreed rights contained in the Stewart Decree and the natural flow at the Diversion Dam necessary to fill the same.

STEWART AND BRYAN DECREES GROUPED ALPHEBETICAL BY CANAL HEADINGS

The tables, in charts, have been compiled for the benefit of those canal companies which have more than one date of priority. These tables also include the transfers and changes in point of diversion. They show the date and amount of each priority and the total amount decreed.

BRYAN DECREE

Chart 27 is a table showing decreed rights contained in the Bryan Decree and the natural flow necessary at the Diversion Dam to fill the same.

WATERSHED

The following is quoted from the 1947 report:

"The question of watershed protection will always be of paramount importance to the water users of Boise Valley. It is regrettable, however, that in matters of this kind the people of the valley generally are too much inclined to take the attitude of "Let George Do It". The preservation of present day water users but for generations yet to come, should have the

constant attention and consideration of all concerned. It is the opinion of the writer that this resource, which is of such importance to the entire populace of the Boise Valley, should remain under federal control.

FLOOD CONTROL

With three dams on the river, flood damage should be held to a minimum.

there will still be some damage along the river from erosion until such time as protecting levees can be built in certain places on both banks of the river.

An agreement has been entered into between the Army Engineers, the Bureau of Reclamation and the water users whereby Arrowrock, Anderson and Lucky Peak Reservoirs will be used jointly for both irrigation and flood control. It is anticipated with this arrangement, the three reservoirs plus irrigation diversions will control the more frequent floods of 6,500 C.F.S. or less at Boise. However, although major floods will be regulated to a considerable degree, there is sufficient storage to control these more rare floods to river capacity and some flooding downstream will occur.

CANAL REGULATIONS

Canal regulation in 1981 began on June 17 and was required for the balance of the irrigation season. Chart 5 shows daily canal diversions in C.F.S. for the period of April 1 thru October 15.

Chart 6 shows the monthly and total diversions in acre feet for the Boise River for the irrigation season.

Chart 7 is a table showing the return flow, canal diversions, winter diversions and flood control loss for the entire Boise Valley for each season beginning 1967 to date. Previous reports show the same information from 1915 to 1966 inclusive.

Boise River Natural Flow and Available Water Supply

The total natural flow for the Boise River during the Calendar Year of 1981 was 1,487,964 acre feet and for the irrigation year 1 October, 1980 to 30 September, 1981 was 1,441,430 acre feet.

Irrigation started on the Boise River system 7 April and during the remainder of April most canals started diversions.

The demand for water was light during April and May, but in early June, when the rains ceased, the demand for water increased. The demand remained heavy through September. Flood Control releases were started on 5 March until 13 June. Storage use started early and a more than normal amount of storage was used, resulting in a smaller than normal carryover.

The return flows were ample for the needs of Section 2 and 3 of the river.

The peak flow of the river was 9,709 cfs on 9 June and the lowest flow 272 cfs on 15 August.

Storage Water

As of 31 December, 1981 there was 334,723 acre feet of water in Anderson Ranch Reservoir, 191,972 acre feet in Arrowrock Reservoir, and 19,893 acre feet in Lucky Peak Reservoir, for a total of 546,588 acre feet of stored water on the system.

319 cfs is being released from Anderson Ranch Reservoir, 0 cfs from Arrowrock Reservoir and 150 cfs from Lucky Peak Reservoir. The natural flow of the Boise River 31 December, 1981 was 1289 cfs.

CONCLUSIONS

1. That the records and data as compiled in the Watermaster's report for the past fifty years should be continued.
2. That the river naturally divides itself into three sections during the low water period.
3. That the river can be completely dried up at the lower end of Section 1 without injury to the rights in Section 2 during the low water period of each irrigation year.
4. That the return flow is a vital factor and must be considered in the operation of the river.
5. That the transfer of water rights from Section 2 to Section 1 is injurious to the rights already existing in Section 1 and should not be permitted.
6. That the construction of drainage systems in the Boise Valley has changed the irrigation requirements within these districts.
7. That by reason of the construction of these drainage canals certain waters which were formerly lost through seepage, evaporation and deep percolation, or reached the river during the winter months, are probably now reaching the river during the irrigation season and made available for irrigation purposes.
8. That the question of protection of the Boise River watershed should have the constant attention and consideration of the people of this area.
9. That a reasonable program of research work should be continued by the U. S. Forest Service on the Boise River watershed for the purpose of determining to what extent the resources of the watershed may be utilized

CONCLUSIONS

1. That the records and data as compiled in the Watermaster's report for the past fifty years should be continued.
2. That the river naturally divides itself into three sections during the low water period.
3. That the river can be completely dried up at the lower end of Section 1 without injury to the rights in Section 2 during the low water period of each irrigation year.
4. That the return flow is a vital factor and must be considered in the operation of the river.
5. That the transfer of water rights from Section 2 to Section 1 is injurious to the rights already existing in Section 1 and should not be permitted.
6. That the construction of drainage systems in the Boise Valley has changed the irrigation requirements within these districts.
7. That by reason of the construction of these drainage canals certain waters which were formerly lost through seepage, evaporation and deep percolation, or reached the river during the winter months, are probably now reaching the river during the irrigation season and made available for irrigation purposes.
8. That the question of protection of the Boise River watershed should have the constant attention and consideration of the people of this area.
9. That a reasonable program of research work should be continued by the U. S. Forest Service on the Boise River watershed for the purpose of determining to what extent the resources of the watershed may be utilized

without being injurious to the inherent rights of the water users who are dependent upon this resource for a livelihood.

10. That the knowledge and data upon which a permanent duty of water must necessarily be based are constantly being improved and increased.

11. That an arbitrary duty of water, if established, should be subject to change from time to time.

12. That the "Court Orders" under which the Boise River has been operated for approximately 50 years have proven very satisfactory to the Boise Valley as a whole.

13. That if the so-called "sliding scale" should be fixed by the Court as a permanent duty of water for the Boise Valley, then an exception to said "sliding scale" should be made in the case of certain river bottom lands.

14. That mining operations within the bed of the Boise River and its tributaries should not be permitted.

15. That efforts should continue to be made for the construction of protective levees to relieve erosion in certain low places along the river.

16. That some type of program should be adopted for annual repair and channel clearance of the Boise River.

17. That the diversion checks in the Boise River should be of the retractable type to allow free passage of flood control waters.

18. At the present time, 6500 cfs passing the Capital Blvd. Bridge in Boise is the maximum flow to prevent serious flooding downstream. Several years ago this amount of water caused little or no flooding. In March 1975 with a 5000 cfs flow passing Boise, some flooding was experienced, and as the flow increased, also the flooding. Every year the flooding seems to start at a smaller flow. It is my opinion that if some channel cleaning and debris removal is not started, then it is only a matter of time until we will be flooding some land in the Eagle Island area when passing the summer irrigation demand.

TABLE IN SECOND FEET SHOWING THE DAILY OUTFLOW OF
LUCKY PEAK RESERVOIR FOR THE YEAR OF 1981

	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	150	150	150	1500	3917	8000	4500	4050	3470	2855	150	150
2	150	150	595	1500	5000	8000	4550	4050	3390	2775	150	150
3	150	150	150	1500	5500	7000	4550	4050	3390	2775	150	150
4	150	150	242	1500	5500	7000	4550	4050	3390	2775	150	150
5	150	150	1000	1500	4500	6000	4550	4000	3360	2775	150	150
6	150	150	1200	1500	4000	5000	4550	4000	3322	2745	150	150
7	150	150	1400	1500	4000	5000	4450	4030	3320	2695	150	150
8	150	150	1400	1400	4000	5000	4400	4030	3320	871	150	150
9	150	150	1400	1400	4100	6708	4350	4030	3320	400	150	150
10	150	150	1400	1300	4100	9208	4300	4030	3270	400	150	150
11	150	150	1400	1300	4100	9500	4300	4030	3270	400	150	150
12	150	150	1300	1300	4200	9500	4300	4030	3240	400	150	150
13	150	150	1300	1300	4200	7823	4300	4080	3210	400	150	150
14	150	150	1300	1260	4250	6000	4300	4080	3210	400	150	150
15	150	150	1300	1400	4250	4750	4300	4080	3210	150	150	150
16	150	150	1300	1400	4250	3833	4300	4080	3210	150	150	150
17	150	150	1300	1700	4250	3644	4300	4080	3180	150	150	150
18	150	150	1400	2000	4250	3600	4300	4080	3180	150	150	150
19	150	150	1400	2100	4150	3600	4300	4080	3180	150	150	150
20	150	150	1400	2100	4033	3600	4300	4080	3180	0	150	150
21	150	150	1200	1500	3733	3600	4300	4060	3180	0	150	150
22	150	150	1200	1875	3600	3750	4270	3950	3150	33	150	150
23	150	150	1200	3375	3500	4000	4270	3820	3150	33	150	150
24	150	150	1200	3500	3500	4200	4270	3740	3100	150	150	150
25	150	150	1200	3500	3500	3400	4220	3660	3100	150	150	150
26	150	150	1200	3900	4050	4370	4220	3610	3025	150	150	150
27	150	150	1200	4333	5925	4450	4220	3610	2985	150	150	150
28	150	150	1200	5000	6050	4450	4190	3610	2935	150	150	150
29	150		1200	4188	6050	4450	4110	3610	2935	150	150	150
30	150		1200	3667	5683	4500	4080	3580	2855	150	150	150
31	150		1400		7833		4080	3580		150		150
TOTAL												
CFS.	4,650	4,200	35,737	65,298	140,974	163,936	133,980	121,850	96,037	24,682	4,500	4,650
AC. FT.	9,300	8,400	71,474	130,596	281,948	327,872	267,960	243,700	192,074	49,364	9,000	9,300
TOTAL CFS.										800,494		
AC. FT.										1,600,988		

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

JANUARY

YEAR	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	
1941	955	664	662	690	704	967	898	959	778	857	761	639	622	926	1026	989	927	878	884	888	890	886	884	917	1030	1215	1172	942	811	808	911	27,130	
1942	869	647	1027	927	737	737	737	999	1000	1157	1052	1051	841	946	946	621	731	1306	866	756	866	748	976	1119	1265	1511	1172	1325	1489	1388	1281	31,091	
1943	4310	4934	9711	2796	2572	2257	2026	1701	1730	1701	1554	1337	1344	1519	1530	1636	1300	1110	1315	2010	2179	3728	4603	4259	3365	3199	2987	2705	2305	2250	2006	76,555	
1944	998	895	979	759	575	685	876	675	670	671	674	676	684	688	962	934	945	1042	827	824	822	722	730	940	827	828	825	735	748	744	752	24,706	
1945	796	795	662	668	805	810	747	1120	1195	1040	1035	899	902	1300	1461	1305	1169	1052	1034	1035	704	830	739	665	816	806	737	774	772	684	876	28,155	
1946	2503	2015	2128	1283	1881	1631	1219	1544	1282	1045	1240	920	878	1057	983	866	1214	1246	1157	1111	940	1164	1117	1362	1209	1045	1075	1104	993	952	1085	39,765	
1947	820	1062	925	620	688	986	1017	1018	905	905	1186	1035	1074	1052	788	753	786	735	1075	1245	1132	1276	865	1119	1114	1125	1157	914	920	987	908	30,182	
1948	661	945	884	972	1020	1111	1140	2183	2282	1655	1371	1494	1005	866	810	842	940	818	964	827	872	924	1244	1208	1030	906	760	481	545	766	909	32,761	
1949	866	878	818	730	730	825	800	822	861	868	775	760	777	824	830	830	841	814	785	780	788	806	811	795	732	686	719	722	727	765	738	24,519	
1950	642	735	654	772	509	644	848	894	905	955	959	729	708	558	824	624	760	832	706	767	1079	1300	1874	2235	2175	1789	1238	1257	1186	1271	1019	835	31,601
1951	1130	995	1241	1259	997	1017	1000	748	949	1190	1294	1188	1361	1172	1120	1251	1404	1165	1058	1107	1090	1321	1324	1154	1252	1219	1404	1171	747	946	762	34,974	
1952	757	526	852	469	1008	989	898	1201	1046	936	1194	1465	1735	905	1285	1545	1618	581	1254	1132	974	966	1574	1249	1256	975	1502	1015	1079	1120	1579	34,321	
1953	806	694	1346	785	691	810	1165	731	1105	1275	1657	1090	1736	2332	1738	1740	1662	2389	4391	3815	2852	2256	1732	1452	1546	1524	1085	1647	1698	1258	1544	30,468	
1954	278	1759	1016	784	1240	1021	466	974	1062	995	586	662	975	897	824	955	1091	947	1096	1069	787	699	1242	1207	1259	990	1389	1001	1500	1635	1687	32,153	
1955	851	805	705	550	786	1101	899	364	84	955	1198	1206	588	925	750	804	596	567	967	677	95	720	731	1513	1082	728	755	416	686	785	1075	23,558	
1956	3115	3390	1830	2272	2298	2506	1782	2126	1688	1674	1595	1851	1841	1845	2197	5154	2314	2822	3641	2838	3115	2745	2935	2915	2149	2064	2359	1564	2367	1434	1192	73,606	
1957	865	945	1057	1165	325	911	694	290	1034	977	681	1008	707	1042	1495	595	1022	687	907	485	1087	1155	727	788	915	978	648	837	922	721	544	26,224	
1958	381	758	230	655	926	421	680	605	787	1170	1365	1120	910	855	1155	808	932	1216	750	555	546	781	895	1215	747	1095	396	1760	552	1399	1186	26,841	
1959	1244	1185	672	589	372	1161	1076	1210	1664	871	860	1010	1639	1735	1350	1525	1415	1010	1445	1035	1052	741	1286	1382	1687	1578	1356	1980	1390	1594	1129	38,235	
1960	924	626	655	758	616	548	1834	(-96)	1760	1156	666	959	1091	515	1082	428	688	489	758	598	682	924	1179	965	607	840	1051	800	755	987	1009	25,832	
1961	977	574	545	754	496	685	687	849	675	931	762	660	701	621	805	891	806	438	611	595	515	476	690	657	701	669	649	582	587	895	747	21,227	
1962	685	742	484	817	841	841	1009	1377	1257	1495	855	786	1107	770	931	969	845	916	1002	988	596	787	450	557	882	1069	887	910	912	732	802	27,277	
1963	756	1107	1065	1052	910	681	401	732	619	921	665	547	276	367	498	881	780	1009	659	640	762	466	784	551	524	707	960	111	890	750	939	21,806	
1964	847	805	1015	712	672	828	1147	836	670	579	748	788	775	634	544	866	770	934	991	1356	756	797	798	842	1009	966	908	916	741	805	1032	26,085	
1965	5669	2725	2775	2824	2681	2701	2594	2336	1815	2160	2321	2011	1836	1895	1941	1557	1885	1872	1915	1721	2169	1922	2085	2359	2175	1776	1996	2706	4124	6216	7442	80,198	
1966	1150	961	1047	889	1091	1367	1899	1720	1519	1259	1098	1108	818	1275	1010	1192	730	627	572	830	650	550	1156	1055	1105	784	746	952	862	684	882	31,584	
1967	715	759	1534	805	(-251)	900	871	604	968	675	621	544	809	896	988	998	870	986	767	932	1525	2071	1748	1255	1114	1075	1309	1316	1512	1821	2081	32,796	
1968	893	830	664	549	664	925	766	582	648	1055	626	831	765	785	909	805	955	765	757	736	665	776	1112	725	167	805	755	615	625	892	891	25,520	
1969	816	1260	986	855	1114	1151	1545	1469	1561	1288	1159	1495	2041	1658	2298	2055	1759	1508	1295	1808	3639	6256	5579	3765	3570	1948	2475	2556	2144	2287	1356	65,968	
1970	636	609	629	458	847	685	755	641	719	816	875	1274	1088	1102	1415	1557	1670	2488	2060	2677	2475	3784	4524	3054	4261	3990	4065	4557	3584	2715	8007	65,589	
1971	1174	1037	825	958	791	655	957	1030	1555	1655	2007	1596	1574	1464	1548	2302	2584	3892	5749	5955	5901	4915	4897	3687	3128	3406	2865	2777	2655	2445	2716	78,012	
1972	966	978	1215	789	609	1018	1056	1029	861	1170	1101	1240	1202	1001	932	1045	1045	1300	1976	1820	3121	5188	2895	2478	2075	1945	1655	1624	1565	1518		50,502	
1973	1068	785	1098	920	834	730	717	1068	872	835	1010	1264	1269	1090	1670	1256	2595	2621	1425	1830	1117	948	826	994	1105	1252	999	901	1158	1031	1100	36,886	
1974	1381	1055	688	944	1008	866	1291	948	1186	941	764	842	1168	1805	1475	2622	4977	5961	4164	4140	4098	3266	2490	2725	2449	2590	1846	2134	2101	1910	1681	65,496	
1975	149	1237	670	601	820	1205	858	1217	935	802	875	819	1055	1145	924	887	1028	834	1031	1125	1015	1055	820	985	1015	1426	1665	1241	1119	966	157	28,667	
1976	564	756	1124	1086	1531	474	1154	1084	1591	1320	945	1155	1457	1087	1166	1057	1450	1305	1131	1250	1205	905	898	1244	1387	1266	1166	1141	1375	1207	1206	35,545	
1977	577	715	785	875	754	677	605	549	715	659	478	766	795	1069	832	805	955	448	205	685	555	587	1085	1088	474	765	658	425	642	691	725	22,072	
1978	1095	887	855	1412	1155	1100	1258	1122	1080	845	1178	1327	1245	1535	1245	1640	2104	2525	1875	1684	1556	1588	1441	1190	1071	1254	1340	1185	1086				

* FIVE YEARS 1895.
THIRD LEAD SHOWN
IN PREVIOUS ANNUAL
REPORTS

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1981

CHART NO. 2

JANUARY

YEAR	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
1981	1559	1485	1391	1397	1346	1100	1132	806	1050	962	960	937	855	794	722	801	1235	1349	1349	1383	1385	1392	1531	1624	1592	1550	1316	2699	793	736	1091	38,274

NATURAL FLOW OF NOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

FEBRUARY

YEAR	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	
1941	817	843	852	857	831	879	1140	1215	1100	1102	1244	1435	1469	1238	1123	1163	1093	994	1041	1131	1069	1093	1369	1329	1776	1535	1284	1342				32,684	
1942	1198	1073	1400	1427	1432	1446	1326	1382	1271	1261	1285	1152	1118	861	997	1179	1011	892	739	733	806	1477	1051	1150	952	922	941	1079				31,581	
1943	1859	1804	1921	1657	1557	1675	1571	1797	1817	1572	1569	1559	1648	1445	1646	1758	1771	1961	1944	2154	2462	2795	3419	3440	3327	2831	2870	2739				58,282	
1944	764	878	1096	809	1046	1165	1032	1020	1139	1270	791	785	773	785	906	1053	867	858	979	842	847	622	916	794	919	798	797	954	780			26,305	
1945	799	1012	1467	1371	1010	1077	1048	1210	2213	1737	1486	1353	1599	3131	2857	2051	1874	1550	1396	1329	8302	1115	1086	1077	1051	856	969	1056				40,062	
1946	1095	1162	1061	1049	1186	986	1102	1004	914	891	1028	1132	941	961	1074	1366	1281	1232	956	1237	1239	1219	1257	1287	1482	1546	1607	1609				32,904	
1947	1014	1122	955	941	993	1073	992	940	944	1148	1146	1250	2090	2423	2059	1886	1897	1957	2145	1786	1741	1834	1951	2029	1972	1832	1961	1578				43,639	
1948	878	983	1021	837	836	842	747	913	727	917	666	601	670	902	970	981	917	886	1227	1411	1102	1386	1819	1458	1822	1309	1509	1340	1203				50,240
1949	682	929	852	935	842	855	945	876	787	694	698	792	700	454	754	841	611	739	1165	1074	1793	(-58)	139	827	1035	(-140)	1795	1045				22,657	
1950	833	747	675	1415	1134	1344	1272	1182	1866	1259	1091	990	1165	917	1112	1042	1205	1203	1206	1239	1223	1222	1818	1412	1935	2626	2676	2654				37,505	
1951	757	835	945	1261	2238	1654	2153	3031	3400	3067	3298	3946	3147	3234	3173	2295	2409	2381	2334	2198	1987	2009	1828	1815	1678	2364	1528	1840				62,939	
1952	900	1761	2068	1884	1607	1436	1290	1465	1611	1470	1068	1341	1323	1272	920	1187	1745	1714	1215	1309	1183	1054	1206	1265	941	1120	949	1311	722			38,535	
1953	1128	1301	1834	2664	2912	2320	2086	2300	1921	1772	1697	1355	1519	1505	1495	1324	4466	1309	1398	1530	938	1120	1266	1406	1858	811	1271	1117				44,243	
1954	1567	1410	940	1367	1387	1208	1365	1399	1832	1425	1432	1654	2038	2230	2217	2189	1965	2003	1663	1665	1579	1715	1579	1447	1626	2120	1886	1904				46,144	
1955	687	545	88	232	942	500	794	661	1374	1388	228	605	610	778	968	968	574	725	695	962	725	412	861	865	978	697	736	698				20,222	
1956	1617	804	1201	1368	1774	1696	1694	3490	2465	4125	1644	3147	1764	1968	1568	1558	1573	1604	1311	1035	1343	1784	1615	1486	2020	1388	1598	1842	1732			52,235	
1957	8	805	1053	2156	1014	710	986	730	1026	94	1862	793	760	1873	1346	741	1229	943	1899	1073	1189	1405	1198	2437	3446	4399	6586	6265				46,440	
1958	1215	807	398	1358	897	1102	1005	1034	1201	1098	1211	1217	1352	1937	2689	3469	4304	2500	2899	2982	3743	2215	2809	3525	3682	4557	3324	2774				60,918	
1959	1284	1019	993	1129	1414	1258	1114	1242	1150	1845	1242	1174	1086	766	1262	1499	1714	1476	1570	1524	1034	1219	1388	2178	1301	1461	1385	226				34,851	
1960	793	887	1088	888	905	826	1402	1802	2714	2270	1409	1433	1146	1237	1005	930	898	1115	700	991	876	958	765	735	886	982	1848	871	865			32,445	
1961	1239	913	1005	818	1157	471	864	878	1138	778	1236	1711	1449	1365	946	1322	1324	1222	826	928	798	995	1385	905	945	1048	988	821				29,415	
1962	758	726	887	886	1034	900	932	1233	948	1226	1746	1874	2357	2535	2174	2248	1836	1814	1640	1532	1438	1396	1226	1341	1230	1134	1030	1030				39,163	
1963	1684	6541	4042	6708	5525	4627	3771	3176	2849	2478	2312	2005	1830	1691	1816	1662	1636	1489	1393	1683	2399	1854	1367	1700	1569	1611	2057	1767				73,562	
1964	948	838	1200	895	668	748	821	646	818	1225	804	655	920	1042	850	905	1205	527	1816	965	1052	977	1060	1115	1096	956	857	1007	1042			26,930	
1965	7577	3835	4996	4606	4155	3991	3561	3300	3321	3318	2744	2405	2622	2878	2756	2401	2286	2405	2484	2455	2404	2694	2787	2598	2648	2480	2386	3246				91,303	
1966	938	854	785	624	544	1038	889	894	832	918	779	700	929	828	679	682	804	955	1211	667	738	842	844	786	867	1178	749	1031				23,585	
1967	1920	1595	1297	1389	1596	950	1258	917	1021	1040	1021	1046	1032	1019	1081	1032	934	995	876	1241	542	879	574	1018	1103	1021	855	1166				30,024	
1968	930	491	1007	1055	960	503	839	792	685	672	957	847	448	1299	975	822	701	941	1396	1962	3972	4907	3416	4499	4002	3002	2531	2285	2031			49,045	
1969	2275	1265	1519	1572	1360	1461	1456	1514	1521	1653	1418	1489	1618	1628	1640	1556	1195	1396	1821	2064	1731	1477	1331	1369	1597	1670	1410					43,567	
1970	2083	2080	1706	1698	1484	1460	1332	1451	1595	1417	1542	1628	2005	2225	2006	1844	2072	2284	2180	1961	1804	1808	1828	1878	1904	2001	2004					50,864	
1971	2568	3499	3467	3371	3257	2653	2294	2417	2424	2442	2947	3143	2451	3610	3339	3780	3365	3390	3393	3622	2493	3032	2891	2755	2955	2658	2498	2716				85,660	
1972	1171	1426	1187	1021	1206	1524	1227	1490	1358	1317	1272	1134	1274	841	1453	1554	1558	1627	2054	1804	1546	1496	2404	2338	2130	2039	2297	2285	3280			85,513	
1973	1078	927	659	996	1393	1152	1066	953	1060	723	1150	1231	1043	1005	932	885	718	1195	1445	500	923	949	927	1073	1220	1288	1127	1467				59,085	
1974	2267	1693	1808	1814	1796	1491	1357	1351	1136	1587	1506	1660	1527	1625	1515	1101	1965	1798	1823	2357	1773	1432	864	1873	1592	1624	1590	1547				45,470	
1975	1085	705	891	1222	1085	820	948	840	1083	1162	1246	980	1028	1987	1084	912	1621	1508	971	1406	1125	938	664	1197	1094	1022	1120	1287				31,729	
1976	1298	1207	1653	1582	921	1715	711	1244	1669	758	1400	1107	1310	1178	1233	1509	1468	1452	1388	1497	841	1539	1134	1146	1310	1270	1373	1160	1723			37,926	
1977	630	786	653	827	615	654	725	755	729	706	809	741	668	743	744	920	894	822	853	558	563	722	822	749	874	591	733	692				20,370	
1978	1088	1080	1008	1368	1340	1398	1901	2194	2282	2252	2215	1152	1723	1626	1587	1640	1365	1342	1318	1303	1454	1318	1518	1486	1446	1814	1123	1754				44,865	
1979	454	628	681	776	774	715	748	749	886	515	1086	682	1021	2028	1859	1464	1111	1017	1087	754	1136	1243	971	928	914	1050	963	980				22,479	
1980	927	1004	1051	1072	1044	817	826	928	860	804	870	718	710	726	871	1255	1384	1413	1778	4194	3841	2947	2882	2793	2046								

CHAP. 1 NO. 2

FEBRUARY

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 8

MARCH

YEAR	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
1941	1678	1898	1941	1823	1679	1616	1369	1473	1700	1708	1648	1770	1372	1493	1480	1318	1384	1712	1967	1942	1942	1842	1922	1803	1727	1774	2101	2193	2303	2849	3093	56,724
1942	873	1003	1033	1138	1018	1122	1034	1177	1113	1308	1403	1333	1632	1860	1479	1688	1527	1468	1432	1411	1414	1442	1303	1573	1447	1464	1476	1546	1639	1988	2250	49,902
1943	3088	2982	2899	3023	3099	2743	2569	2684	2919	2526	2320	2460	2323	3823	3899	3431	3161	2860	2606	2820	2026	2818	2119	2321	3009	3789	3283	7136	9333	10692	9936	117,569
1944	872	869	872	887	884	996	864	876	768	1200	1191	1182	1174	1248	1012	681	1196	1442	1446	1399	1366	1122	1133	1463	1179	1149	1134	904	1033	1094	1369	34,047
1945	903	1024	1036	1012	818	794	816	870	968	1016	1033	1076	1426	1746	1707	1520	1403	1319	1304	1172	1532	2260	2813	2856	2341	2242	2330	2320	2310	2290	2301	49,580
1946	1733	1380	1379	1393	1363	1948	1997	2033	2090	2342	2900	3811	4148	4131	3366	3817	2843	2326	2803	4144	3164	3371	3061	3103	4333	3767	4216	3462	6114	6618	3740	109,302
1947	1631	1339	1661	1803	1607	1600	1312	1483	1418	1844	2758	2231	2114	2004	2490	2946	3093	3940	4387	4397	4613	4661	4948	4341	3963	3837	3341	3333	3479	3709	3491	90,638
1948	1087	1173	1121	1097	922	930	1137	899	1004	1343	6	1792	844	1088	1039	1126	1219	1228	1032	1160	913	1061	1117	1133	1314	1383	1382	1209	1343	2076	2080	36,698
1949	1113	1343	1606	1746	1873	1874	1913	1913	1943	1941	2047	1984	1977	2164	2193	2423	2731	2890	2933	3221	3336	3362	3403	3446	3169	2970	2672	2364	2194	2200	2233	73,417
1950	2648	2360	2377	2388	2134	2617	2476	2333	2223	2237	1929	1680	1486	1623	1603	1312	2191	3900	4783	3688	3183	3006	2879	2728	2773	2833	2713	2372	2294	1968	2237	77,388
1951	1394	1634	1469	1610	2029	1084	1320	1410	933	1322	1138	1463	1318	1339	1491	2022	1928	1387	1619	1817	1817	2333	2601	2393	2338	3130	2173	4188	3971	3203	3378	62,336
1952	1272	1323	916	1270	931	864	730	1289	1202	1187	1373	791	1219	743	1238	1622	918	1949	1932	1321	1790	1934	1937	1186	670	2623	2871	3377	3221	3833	3867	31,310
1953	1424	1403	1427	1098	1399	1163	1324	976	1628	1672	1846	1871	2133	1963	1633	1796	1286	1337	1789	1997	1830	1830	1680	1877	2639	2967	2939	2966	3408	3928	3376	33,363
1954	1661	1396	1330	1774	1318	1621	1704	1870	3903	3830	3137	3972	3487	2794	2687	2331	2463	2141	2149	2038	2091	1880	1993	2030	1942	2093	2397	2149	2100	2036	74,918	
1955	1238	833	810	771	689	832	1033	823	1073	1090	911	733	703	839	801	639	1003	622	1032	893	697	766	1188	680	393	1318	999	678	713	1696	1244	27,970
1956	2003	2112	1793	1738	2373	2084	1968	2062	2267	1843	2094	334	1473	1789	1373	1332	2794	2308	3242	3040	4132	4481	3136	6000	7940	9339	9403	7904	6699	6293	6332	114,129
1957	4123	3391	3193	2692	2732	2847	2741	2633	3376	3824	3272	3423	3264	2610	2484	2336	2937	2692	2433	2677	3212	2833	2313	3227	3828	2818	2730	2830	2819	3363	4933	97,046
1958	2711	2292	1334	2014	1587	1821	1427	462	1364	2007	1669	1333	1372	1187	1312	1392	1702	1613	1484	966	1708	2743	3089	2483	3276	3070	2627	2901	3040	2648	2967	62,347
1959	1347	1226	1336	1329	1316	1240	1499	1193	1614	1163	1314	1190	1181	1213	1124	1261	1144	1179	1314	1398	1331	1438	1433	1332	2174	1729	1933	1914	1933	2119	2248	46,271
1960	342	203	1006	804	1774	1602	1392	3131	2084	1797	1242	1293	1393	1293	1246	1316	1171	1393	1603	2169	2912	2934	4983	3384	3331	6278	6291	6093	6142	3373	3910	86,413
1961	1077	866	1028	766	1007	931	920	802	721	1030	889	760	1072	1030	1201	1833	1979	1822	1679	1707	1843	1771	1679	2373	2414	2072	2439	1909	1971	1713	2031	43,613
1962	1049	1197	1208	1224	1313	1182	1182	1263	1223	1068	1227	919	1143	1117	1013	1033	840	1013	1063	1488	1448	1494	1697	1184	1420	1306	1866	1960	2037	2033	2084	41,336
1963	1832	1424	1339	1426	1237	1316	1273	1289	1294	1300	1230	1406	1289	1143	1097	1202	1178	1097	973	1174	1040	1268	1331	1330	1463	1341	1408	2060	3680	2616	2208	43,932
1964	1148	1300	1086	826	1021	1092	1000	921	880	942	914	991	932	976	930	898	898	1033	1260	1037	1249	1406	1253	1033	1190	1462	1286	1239	1339	1600	2343	33,609
1965	3363	2331	2886	3330	1913	2782	2927	2909	3201	3372	3686	3471	3449	3304	3260	3404	3249	3313	3263	3161	3016	2638	2899	2694	2360	2703	2883	2321	2432	2397	2820	92,763
1966	353	813	847	390	723	849	933	1013	1143	1339	1364	1367	1323	2089	2286	1936	1964	1301	1398	1306	1606	1264	1193	1133	1196	1393	1943	2708	3132	3641	4142	48,980
1967	1299	1011	1084	1049	1037	1168	934	961	1182	1046	1284	890	1234	966	1046	1143	864	1243	1477	1530	1033	1830	1630	1919	2011	1734	1842	1742	1882	2077	1538	41,790
1968	2792	2243	2276	2332	2344	2313	2468	2299	1913	2064	1796	1706	1724	1624	1721	1372	1731	1617	8471	1440	1393	1427	1489	1786	1871	2139	2044	1644	1830	1933	2378	59,646
1969	1374	1322	1779	1493	1472	1668	1809	1314	1799	1442	1300	1334	1404	1349	1873	1303	1678	1997	9333	2172	2118	2130	2322	3004	2684	2974	3391	4203	4209	3773	6602	71,964
1970	2210	2691	2439	2294	2009	1906	1838	2071	2338	2339	2349	2348	2168	2133	2372	2781	2896	2399	2411	2238	2199	2871	2818	2269	2611	2713	2642	2346	2636	2839	2460	74,310
1971	2484	2082	2103	2397	2444	1473	2801	2033	2063	2089	2403	2602	3113	3489	3290	3062	2817	2738	2474	2389	2693	2912	3301	3964	4499	3083	6644	6828	6389	6178	6684	103,747
1972	6302	4283	6083	7300	3401	3032	4896	4989	4829	3373	6749	8216	8322	9120	8603	8486	8833	9383	10938	10311	8869	8433	8962	9833	8936	7690	3841	3521	3227	4724	4390	223,293
1973	1461	1947	1316	1502	1332	1347	1302	1333	1307	1204	1370	1453	1176	1243	1248	1031	1220	1647	1470	1176	1432	1377	1530	1484	1892	1771	2001	1993	1827	1767	1639	46,460
1974	1611	1318	3388	1347	2006	2176	2417	2267	1439	2332	2320	1983	3331	3430	3187	3031	4072	3467	6791	3707	3690	3008	4136	3181	3086	3361	6178	7088	8492	8094	9297	129,893
1975	1317	1726	2300	2284	1987	2234	1963	1971	3379	2132	2833	2320	2139	1980	1664	2129	2133	2100	2411	3389	3034	2624	2808	2323	2811	3214	2326	2342	1736	1833	2743	72,877
1976	2034	1729	1324	1304	1247	899	1409	1303	1706	1421	1326	1336	1343	1304	2240	1929	1813	1399	2117	2189	1893	1894	1893	1968	2428	1992	1638	1976	2184	1638	2214	54,120
1977	869	1106	431	881	383	671	366	934	1038	1086	302	980	932	723	902	621	361	342	768	331	331	232	239	1022	331	610	802	1320	317	242	308	21,383
1978	1518	1277	1363	1840	1833	1729	2073	2112	2240	2427	2833	2116	2114	2637	2317	2730	2127	2232	2161	3777	3162	4543	4648	3303	4323	3268	3819	6393	3526	8174	9374	110,763
1979	761	917	886	800	770	1239	1132	1637	1331	1172	1622	1378	1819	1776	1697	2128	1273	3223	2263	2060	1344	2088	1732	1877	2283	2091	2164	2284	2261	2084	1743	32,893
1980	2327	2168	2246	2337	2417	2473	2112	1813	1920	1977	1714	2113	1711	1761	2037	2134	1931	1913	1937	1272	1223	1843	1713									

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1981

CHART NO. 2

MARCH

YEAR	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
1981	1717	1716	1656	1556	1412	1934	1384	1943	1702	1728	1702	1478	1753	1800	1734	1837	1977	1836	1701	1740	2400	1789	2093	1813	1691	2107	2174	2305	2203	2183	2397	57,521

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

APRIL

YEAR	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
1941	2764	3070	3048	3047	3476	2837	2930	2618	2631	2830	3468	3201	3339	3509	3596	3665	3394	3243	2963	2670	2387	2370	2452	2699	3128	3201	3316	3543	4090	4429	94,150	
1942	2592	2973	3284	3741	4057	3783	3879	4213	4639	3444	6081	7073	8213	8731	9411	8204	6327	6620	6098	5858	6528	7179	8562	7355	6099	5718	5033	4620	3317	4333	170,811	
1943	8908	10230	14430	14901	13749	13264	14663	16969	21235	18207	16138	16191	18304	20265	21623	22310	23229	25040	23312	22430	18721	17930	15208	13482	14783	13616	18118	11161	14932	13643	303,266	
1944	1584	1786	2123	2863	2726	3144	2693	2399	2622	2603	2376	3092	3326	2841	2721	2302	2377	2310	2015	2274	2185	2348	2613	2821	3624	3471	3330	3282	3712	4231	82,000	
1945	2671	2430	2282	2132	2203	1890	2376	2192	2322	2329	2057	2075	2045	1985	2296	2082	2706	2833	3445	4460	6135	7701	6650	6101	5125	4326	3792	3729	3768	4622	101,184	
1946	6008	4982	4352	4717	4841	3216	6160	6164	6222	3847	3218	3919	7396	10219	12332	13581	14780	17389	18812	18660	15103	13559	11548	11830	13237	13441	16663	15833	14226	13167	319,902	
1947	4810	4145	4006	3747	3576	3468	3434	2289	3477	2684	2917	2808	3062	3230	4471	5632	6149	6379	6439	6284	6172	6318	6123	6001	5481	5356	5760	6190	6992	7300	144,700	
1948	1740	2024	2660	2967	2723	2292	2269	1997	1837	2190	2201	2132	2135	2437	2518	3724	3472	10555	8536	6896	6096	9614	8938	6732	6461	5890	5108	4432	4411	5165	132,212	
1949	2433	2870	3339	3533	4184	3078	3780	3966	6176	6327	6860	7696	7761	5943	5790	3886	7130	7765	9413	18308	8503	7089	8258	8197	10023	9323	8906	9226	9241	9046	208,274	
1950	2888	3787	4629	4123	4107	3893	4231	4639	5124	4670	5841	5821	6321	7418	7343	7141	8012	8713	9289	8968	9687	11164	11174	10063	7848	7196	6937	7247	6579	6012	201,309	
1951	3609	3674	4934	5892	7194	8634	9861	10722	10963	10960	10651	9941	9843	11541	11209	13094	10778	11139	11616	11612	10506	9734	8234	8001	8088	7476	7865	8281	11575	11017	278,484	
1952	3257	3410	3393	3712	4734	6669	8193	9277	7784	6989	6942	7143	8548	9935	11088	9967	10520	12544	14976	14725	12961	12931	13206	13984	17013	18667	22302	23429	21634	18984	338,945	
1953	4733	3869	3833	3881	4380	4107	4957	3546	3502	3669	2608	2314	2635	2480	1838	2836	2255	3181	3909	3531	6349	7202	9882	9941	10335	9020	9669	11656	12779	9560	164,683	
1954	1854	1673	1808	2239	3119	4933	3009	4438	4362	4339	3999	4072	4879	6936	7452	7233	7449	9296	10020	9628	8427	7933	8039	8101	8442	8974	8939	9397	9390	8438	190,860	
1955	1222	1007	1639	1090	1161	1218	1436	2087	2673	3028	3544	2583	1928	2136	1764	1674	1764	2184	2109	2192	1887	2328	3387	3314	2892	2390	2950	2660	2198	2241	64,916	
1956	6009	6148	5364	5384	5307	5628	5834	5774	5660	5795	7116	9006	9577	10213	11061	12390	13489	12607	12497	14939	15071	16939	17221	16130	15141	13577	15057	13834	13131	11892	318,251	
1957	4004	3798	3834	3820	4137	6379	6486	3838	5107	5772	8513	6389	6391	6719	6943	6944	6696	6323	6132	6122	6532	6317	6356	6892	6880	6243	5900	5383	3949	7427	180,628	
1958	2913	3061	3506	3911	3740	3464	3334	3513	3536	3412	4086	3696	4066	3274	6371	6712	7606	8553	9242	8944	8577	9218	8207	6997	6108	5368	4938	4630	4415	4565	161,889	
1959	2039	2218	3632	3010	3247	6138	6612	3663	4289	4560	4178	4443	4861	3398	3227	4912	4487	3814	3799	3649	3543	3737	3918	3864	4639	3443	6322	3600	3174	3025	138,367	
1960	4350	4339	4121	4393	5943	7283	10242	10483	10930	11165	10822	9142	7933	7136	6422	5300	4990	4573	4182	4772	4571	4417	4662	3847	4034	3739	3422	3729	3741	3885	179,494	
1961	2366	2240	3232	4486	4618	3349	3110	3004	2876	2080	2387	2187	2594	2392	2297	2346	2087	3173	4469	4030	3214	3263	3860	2072	2364	2338	2186	2368	2763	2835	86,032	
1962	2688	3236	3773	4444	4793	3063	5630	6288	3777	4682	4041	4147	4435	3537	6996	8398	8370	8539	9027	10169	11343	9348	8780	8620	9335	8673	8000	8306	8132	6612	203,928	
1963	2062	2080	1853	1701	1796	2279	4777	4708	3933	3481	3194	2874	2354	2882	3939	4432	3316	3092	2913	3106	2831	2487	2413	2331	2412	2371	2858	3276	3328	4028	98,149	
1964	3694	4487	3919	3680	4070	4332	3938	3744	3812	4341	2891	4333	3896	4063	4865	3503	4471	4324	4556	4945	3258	3310	4826	3814	3665	3737	3326	3702	3277	131,083		
1965	3160	4099	6098	3322	3339	3508	6132	6046	6034	6833	6161	5868	5878	6439	7236	8347	10027	9260	18787	12723	16363	20258	20834	18531	17393	17086	16351	16794	16995	16772	312,090	
1966	3060	5170	5575	4908	4200	3931	4332	4743	4933	5404	5730	4817	4292	3703	3933	3733	4539	4971	4454	3739	3487	3107	2968	2830	2930	3267	3397	3332	3001	3333	124,151	
1967	1866	1502	1505	1523	1774	2302	2033	2040	2234	2257	2718	2728	2741	2944	3155	2986	2738	2389	2321	3000	2460	2426	2157	2105	2099	2106	2198	2209	2604	2075	69,215	
1968	2311	2839	3171	2985	2942	3113	2833	2578	2321	2242	2337	3013	2930	2904	2723	2773	2597	2521	2261	2381	2223	2203	2018	2000	2170	2313	2169	2227	2288	2672	76,364	
1969	8134	8871	9402	10143	10081	11500	13417	11777	9706	9890	10362	11117	10887	11770	11006	10361	10181	10526	12042	11193	10447	10772	13232	15935	15071	12032	10124	9214	8729	9170	327,092	
1970	2516	2247	2370	2248	2249	2630	3343	4343	3932	4006	5127	4799	4166	3991	3672	3231	2937	2884	3038	3283	3043	2800	2837	2752	2863	2746	2808	2580	2584	2565	94,834	
1971	7027	6466	6414	6492	6755	7533	8463	9359	9507	9374	8938	7977	7229	7614	8612	9736	10380	9911	9406	10088	11573	12622	12336	11545	10590	9870	9303	9295	9328	10034	274,188	
1972	4902	4876	5204	6312	6586	7497	9010	9080	8002	7873	7222	7185	6841	6296	5404	3886	5793	5712	5269	5138	5193	5746	5820	6000	6891	6703	6355	6855	8157	9127	197,137	
1973	1799	1699	1676	1667	1989	2187	2358	2523	2136	2317	2424	2511	2871	4685	4343	4046	4007	4027	3537	3194	2803	2668	2804	2852	3103	3434	3780	4282	4433	4160	90,355	
1974	9013	8408	6921	6284	5769	5585	5938	6075	6606	7119	7068	7847	7990	7280	7634	8467	9193	10399	11991	13264	13754	13420	13766	15710	17437	17801	15325	12624	11024	10023	299,957	
1975	2123	1974	1949	2071	1843	2082	2165	1959	1822	2024	1973	1934	2310	3046	3614	3740	3715	3609	4513	4142	4679	4811	5084	5578	5450	5869	5156	4851	4164	4027	102,399	
1976	2396	2732	3458	3637	4169	5866	7135	7003	8668	10394	9143	9095	8789	8065	7988	7940	6883	5895	5782	5451	5685	6073	6375	5937	5982	7075	6388	6220	5762	5626	191,618	
1977	561	273	979	737	660	1092	1420	1486	1776	1887	1562	1508	1538	1495	1362	1205	1875	613	1242	1107	1238	1159	1142	1259	1513	1397	1573	1536	1301	1518	38,129	
1978	8671	10712	7317	6222	6467	3603	3274	3533	5105	5123	5780	6699	6587	5731	6162	6240	7029	6138	5543	5444	5764	5508	5126	4516	4688	5704	6559	7021	7437	7838	180,609	
1979	1785	1850	1626	1468	1372	1536	2065	1822	2106	2871	2454	2115	1781	1755	1922	1981	2472	3035	3181	2686	2494	2141	2360	2121	2398	2431	7733	3162	3508	3329	70,210	
1980	1713	1917	1913	1786	1870	2115	2503	2061	2151	2247	2123	2301	2252	1351	3763	4506	5403	5302	7488	8728	10195	10906	10760	11462	12736	12886	10915					

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

APRIL

YEAR	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
1941	2764	3078	3048	3047	3476	2837	2938	2618	2631	2830	3468	3201	3339	3509	3596	3665	3394	3245	2963	2670	2387	2370	2432	2699	3128	3201	3316	3349	4090	4429	94,150	
1942	2592	2973	3284	3741	4057	3785	3879	4215	4659	5444	6081	7073	8215	8731	9411	8204	6327	6620	6098	5858	6528	7779	8562	7355	6099	5718	5033	4620	3317	4353	170,811	
1943	8908	10250	14430	14901	13749	13264	14663	16969	21255	18207	16138	16191	18504	20265	21625	22310	23229	25040	23312	22430	18721	17930	15208	15488	14783	13616	12110	11161	14952	13643	303,266	
1944	1584	1786	2125	2865	2726	3144	2693	2399	2622	2605	2576	3092	3326	2841	2721	2302	2377	2310	2015	2274	2185	2348	2613	2821	3684	3471	3330	3282	3712	4231	82,000	
1945	2671	2430	2282	2132	2203	1890	2376	2192	2522	2329	2057	2075	2045	1985	2296	2082	2706	2855	3445	4460	6135	7701	6650	6101	5125	4326	3792	3729	3768	4622	101,184	
1946	6008	4982	4352	4717	4841	3216	6160	6164	6222	3847	3218	3919	7396	10219	12352	13581	14780	17389	18812	18660	15105	13559	11548	11850	13257	15441	16663	15833	14226	13167	319,902	
1947	4810	4145	4006	3747	3576	3468	3434	2289	3477	2684	2917	2808	3062	3230	4471	5632	6149	6379	6439	6284	6172	6318	6123	6001	5481	5356	5760	6190	6992	7300	144,700	
1948	1740	2024	2660	2967	2723	2292	2269	1997	1837	2190	2201	2132	2135	2437	2518	3724	5472	10555	8536	6896	6096	9614	8938	6732	6461	5890	5108	4452	4411	5165	132,212	
1949	2433	2870	3339	3555	4184	3078	3780	3966	6176	6327	6860	7696	7761	5945	5790	5886	7130	7765	9415	18308	8505	7089	8258	8197	10023	9325	8906	9226	9241	9046	208,274	
1950	2888	3787	4629	4125	4107	3895	4251	4659	5124	4670	5841	5821	6521	7418	7543	7141	8012	8715	9299	8968	9687	11164	11174	10065	7848	7196	6937	7247	6579	6012	201,309	
1951	3609	3674	4934	5892	7194	8634	9861	10722	10965	10960	10651	9941	9845	11541	11209	13034	10778	11139	18616	11618	10306	9734	8254	8001	8088	7476	7855	8281	11575	11017	278,484	
1952	3257	3410	3399	3712	4734	6669	8193	9277	7784	6989	6942	7145	8548	9935	11088	9967	10520	12544	14976	14725	12961	12931	13206	13984	17015	18667	22302	23429	21634	18984	338,945	
1953	4753	3869	3833	3881	4380	4107	4957	3546	3502	3669	2608	2514	2635	2480	1858	2836	2255	3181	3939	5331	6549	7202	9882	9941	10535	9020	9669	11656	12779	9560	164,683	
1954	1854	1675	1808	2259	3119	4933	5009	4438	4362	4339	3999	4072	4879	6936	7452	7235	7449	9296	10020	9628	8427	7933	8059	8101	8442	8974	8939	9397	9390	8438	190,860	
1955	1222	1007	1659	1090	1161	1218	1436	1087	2675	3028	3544	2583	1928	2156	1764	1674	1764	2184	2109	2192	1887	2528	3387	3314	2892	2590	2950	2668	2198	2241	64,916	
1956	6009	6148	5364	5584	5507	5628	5834	5774	5660	5795	7116	9006	9577	10215	11061	12390	13489	12607	12497	14939	15071	16939	17221	16190	15141	13577	15057	13854	13191	11892	318,251	
1957	4004	3798	3834	3820	4137	6579	6486	5838	5107	5772	8513	6589	6591	6719	6945	6944	6696	6325	6132	6122	6532	6317	6556	6892	6880	6243	5900	5385	5949	7427	180,628	
1958	2915	3061	3506	3918	3740	3464	3334	3515	3536	3412	4086	3696	4066	5274	6371	6712	7606	8555	9242	8944	8577	9218	8207	6997	6108	5368	4938	4650	4415	4565	161,889	
1959	2099	2218	3632	3010	3247	6138	6612	5665	4929	4560	4178	4443	4861	3398	3277	4912	4487	3814	3799	3649	3345	3737	3918	3864	4639	5445	6322	5600	5174	3025	158,367	
1960	4550	4339	4121	4393	5945	7285	10242	10483	10530	11165	10822	9142	7933	7136	6422	5500	4990	4575	4182	4772	4571	4417	4662	3847	4034	3799	3422	3789	3741	3885	179,494	
1961	2566	2240	3232	4486	4618	3549	3110	3004	2876	2080	2387	2187	2594	2392	2297	2346	2087	3175	4469	4030	3214	3265	3860	2072	2564	2558	2186	2768	2765	2835	86,032	
1962	2688	3256	3773	4444	4793	3065	5630	6888	5777	4682	4041	4147	4455	3557	6996	8398	8370	8539	9027	10169	11343	9348	8780	8620	9355	8673	8000	8306	8132	6612	283,928	
1963	2062	2080	1853	1701	1796	2279	4777	4708	3955	3181	3194	2874	2354	2882	3939	4432	3316	3092	2913	3106	2831	2487	2413	2531	2412	2571	2858	3276	3328	4028	98,149	
1964	3694	4487	3919	3680	4020	4352	3998	3744	3812	4341	3212	3891	4133	3896	4065	4865	5505	4471	4324	4556	4945	3558	5310	4826	3814	3665	3757	3326	3702	3277	151,083	
1965	3160	4099	6098	5322	5339	5508	6152	6046	6054	6835	6161	5868	5878	6439	7256	8547	10007	9260	8789	12273	16365	20258	20854	18531	17995	17086	16551	16794	16995	16772	312,090	
1966	5060	5170	5575	4908	4200	3931	4352	4745	4953	5404	5750	4817	4292	3705	3939	3735	4559	4971	4464	3739	3487	3107	2968	2830	2930	3267	3397	3332	3001	3333	124,151	
1967	1866	1502	1505	1523	1774	2302	2055	2040	2234	2257	2718	2728	2741	2944	3155	2986	2738	2389	2321	3000	2460	2426	2157	2105	2099	2106	2198	2209	2604	2075	69,215	
1968	2511	2859	3177	2985	2942	3115	2835	2578	2521	2242	2337	3015	2930	2904	2725	2175	2597	2521	2261	2381	2225	2205	2018	2000	2170	2315	2169	2227	2288	2672	76,364	
1969	8134	8871	9402	10145	10081	11500	13417	11777	9706	9890	10362	11117	10887	11770	11006	10361	10181	10526	12042	11195	10447	10772	13232	15935	15071	12052	10124	9214	8729	9170	327,092	
1970	2516	2247	2370	2248	2249	2650	3545	4345	3952	4006	5127	4799	4166	3991	3672	3231	2937	2884	3038	3285	3045	2800	2837	2752	2865	2746	2808	2580	2584	2565	94,834	
1971	7027	6466	6414	6492	6755	7533	8465	9559	9507	9374	8938	7977	7229	7614	8612	9736	10380	9911	9406	10088	11573	12622	12336	11545	10590	9870	9305	9295	9328	10054	274,181	
1972	4902	4876	5204	6512	6586	7497	9010	9080	8002	7873	7222	7185	6841	6296	5404	3886	5753	5712	5269	5138	5195	5746	5820	6000	6891	6703	6555	6855	8157	9127	197,137	
1973	1799	1699	1676	1667	1989	2187	2358	2525	2156	2317	2424	2511	2871	4685	4545	4046	4007	4027	3557	3194	2803	2668	2804	2852	3103	3434	3780	4282	4433	4160	90,355	
1974	9015	8408	6921	6284	5769	5585	5958	6075	6606	7119	7068	7847	7990	7280	7634	8467	9193	10399	11991	13264	13754	13420	13766	15710	17437	17801	15525	12624	11024	10023	299,957	
1975	2173	1974	1949	2071	1845	2082	2165	1959	1822	2024	1973	1934	2310	3046	3614	3740	3715	3609	4515	4142	4679	4811	5084	5518	5450	5869	5156	4851	4164	4027	102,329	
1976	2396	2732	3458	3627	4169	5866	7155	7003	8668	10394	9143	7095	8789	8065	7988	7940	6883	5895	5782	5451	5685	6073	6375	5937	5982	7075	6388	6220	5762	5626	191,618	
1977	561	275	979	757	660	1092	1420	1486	1776	1887	1562	1508	1538	1495	1362	1205	1875	615	1242	1107	1238	1159	1142	1259	1513	1397	1573	1536	1301	1518	38,129	
1978	8671	10712	7317	6222	6467	5603	5274	5553	5105	5123	5780	6699	6587	5731	6162	6240	7029	6178	5545	5444	5764	5508	5126	4516	4688	5704	6559	7021	7437	7838	180,609	
1979	1785	1850	1626	1468	1372	1536	2065	1822	2106	2871	2454	2115	1781	1755	1922	1981	2427	3035	3181	2686	2494	2141	2360	2471	2798	2431	2733	3162	3508	3329	70,210	
1980	1713	1917	1913	1786	1870	2115	2593	2061	2151	2247	2129	2301	2252	1351	7963	4506	5403	5302	7400	8778	10175	10886	10760	11462	12736	12086						

NATURAL FLOW OF HOISE RIVER
IN SECOND FEET
BEGINNING 1981

CHART NO. 2

APRIL

YEAR	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
1981	2001	2376	2020	1776	1841	1773	1750	2018	1789	1868	1726	1650	1669	1646	1806	1948	2377	2358	3210	4740	6506	5798	5352	5347	6148	6153	6813	6289	5695	5877	107,610	

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

MAY

YEAR	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
1941	4890	5168	5018	5331	5646	5678	4968	4609	4612	4908	4367	5129	7386	8408	7496	6193	5343	5336	3708	5101	4809	4875	5676	6643	7222	7181	8861	8153	6497	5834	5620	182,668
1942	3999	4010	3767	3543	3454	3481	3320	3436	3734	4349	4477	4364	4144	4097	4044	4131	4093	3813	3906	3693	4044	4664	6593	9166	8743	10608	10690	8987	7899	6931	6560	162,788
1943	13118	14472	15282	15083	15690	14732	12884	11194	10220	10223	9810	9372	8431	8266	7831	7404	7311	7009	6906	7316	8041	8831	10237	12494	14438	14323	16433	15392	13465	16213	16835	361,402
1944	4472	4415	3900	3741	3793	4412	5143	5600	5514	5168	5134	5178	5309	6077	7039	7632	7270	6542	5688	5036	4361	4248	4142	3824	3350	3409	3789	3721	4432	5376	151,604	
1945	5984	6978	8661	10392	11644	10720	9978	9101	9082	9218	10489	9101	8230	8448	7555	6677	7216	7208	6601	5903	5382	5033	4993	5600	6638	6372	6338	6147	6432	6932	7120	236,573
1946	11798	10583	10239	10837	12416	13481	13844	13260	12128	11743	10382	10286	9306	9363	9170	9087	9307	10011	10730	10746	10134	9993	10297	9414	8760	8863	10914	10528	10264	9346	7956	325,830
1947	6899	7187	10947	11309	11660	11347	11766	12723	13838	11347	10891	9933	8473	7965	7504	7733	7063	7036	7143	6703	7403	7922	7782	7407	7316	7348	7862	8080	7846	6708	6497	272,882
1948	4839	4538	3728	4393	4204	4307	3939	6339	6472	3797	5101	4613	5081	5491	6409	7046	8026	10024	11730	12004	11158	9708	9347	9066	9469	11787	12502	14185	15260	13357	11342	252,896
1949	8007	7839	7339	6690	6507	6211	6444	7197	8178	9179	9784	10290	11340	11883	12413	12829	11584	12100	11233	10978	10319	9262	8496	8361	7507	8278	8103	9373	9361	9521	9007	285,835
1950	5296	6568	5497	6494	5130	3004	4336	4438	3086	4557	5445	3562	6917	9533	11897	13368	13673	12924	12338	9612	9297	10832	12137	13534	13021	11443	11008	11342	11799	11588	11627	281,543
1951	9166	8345	7297	7238	7299	8201	9727	12301	11980	12328	12460	13137	12371	10339	9707	8739	9206	10377	11238	11492	11630	11353	12580	12793	13796	12823	12646	13881	14065	12879	10811	342,447
1952	14339	15047	16512	18001	18933	15799	16476	15333	15390	15082	14533	13339	16047	16322	16170	14230	12349	11632	12802	12544	13861	13677	12966	11778	13036	14013	15733	13838	14449	13520	12560	450,817
1953	7935	6443	5512	5136	4792	6975	7343	8156	7393	6041	6131	5339	5134	3266	3443	3816	6208	7329	7119	9354	9160	7863	7064	6737	5481	5113	4723	4021	8039	6181	6898	201,791
1954	7649	6395	5818	6257	6124	8165	8936	9704	10854	11726	13307	12834	11973	11088	10493	10814	11432	12331	12276	13444	14660	13697	11100	9763	8933	8649	7664	6614	3783	3228	4974	298,773
1955	3601	4105	4040	3296	4134	3011	6637	7088	8417	8309	7326	7339	7918	7917	6984	5892	4734	4318	4349	5809	7348	9903	9657	8668	7661	6974	6186	3930	3467	3763	6712	198,635
1956	10218	10200	9871	10211	10496	10826	11384	10702	11094	11328	10238	9987	8960	8698	7933	8238	9716	11238	14370	13780	16976	18860	19381	20134	22949	20931	19423	19484	17472	16500	16839	420,677
1957	9409	10872	11712	11476	10373	9666	11185	12224	12850	12359	13083	12803	13328	13587	13506	13044	13377	13270	16619	16732	16930	12130	11422	10232	9263	8974	9657	10360	11241	12253	12791	376,970
1958	4928	6924	8263	9839	11248	13313	14715	13949	13443	14378	15390	17413	17483	14213	12507	12839	12686	13234	17097	18188	21234	21743	21221	20307	20419	18831	18502	18827	17473	15608	14326	473,187
1959	5870	7803	6827	6043	5108	4994	4463	4717	4838	5013	4497	4391	4796	5934	7852	9040	7963	7088	6034	5228	4341	4930	4240	4322	4312	4193	4039	4271	4139	3980	3901	165,797
1960	3522	4261	4763	5023	3203	3127	3294	6438	6963	6909	8763	10699	11842	11130	8927	7912	7473	6667	6028	3170	5073	4941	4367	4461	3891	3733	3766	3948	4148	4736	5399	187,181
1961	3603	3983	4617	4084	4042	3808	3334	2429	3246	2857	4098	3391	3619	3037	3477	4048	3907	4219	3877	4241	3448	3761	3934	6612	7773	7721	7830	7493	6624	6442	7610	149,489
1962	5923	3454	3382	5360	6148	6312	7110	7186	8119	8257	8418	8076	7119	6436	3976	6170	5872	3189	3636	6199	6284	6047	5717	6431	7609	7851	7021	6491	6537	6308	6731	203,229
1963	3324	3703	3633	3674	3329	3798	6273	6430	6693	6377	6139	5346	5103	5078	4731	4947	5387	3940	6881	8164	8736	9386	10149	11480	11183	10794	10233	9380	9276	9198	9029	226,458
1964	7016	7799	6326	5226	4862	4139	4017	4340	4358	4362	5830	6130	6761	7602	8271	8506	9883	9949	9920	10053	10938	10763	9732	8614	7798	7008	7457	7523	7869	7611	7157	228,640
1965	20303	19705	17118	14543	13382	11788	10434	8291	9438	8986	8298	9611	11222	12687	14333	15060	15535	16142	15039	14140	14144	14677	15194	15136	14067	12773	11833	12018	12361	13826	13728	418,116
1966	2933	2974	3397	4543	3633	6340	7666	8082	7676	8225	7761	7903	5982	3063	3044	4127	4032	3783	3693	3808	4193	4794	5282	4618	4260	4233	4797	3317	3923	6032	6013	163,577
1967	1974	1734	1823	2033	2322	2323	3457	4387	6739	7886	8137	6279	5139	4313	4099	5130	7036	9036	10116	11138	11392	11900	13697	13178	15398	14202	11443	10418	11078	11004	10037	241,572
1968	3707	3910	4448	4102	4783	4681	3930	3401	3149	3233	3983	3978	4484	4368	4186	3518	2842	3043	3392	3991	6212	6092	5603	4966	4677	4540	3949	3628	3703	4058	3318	129,643
1969	8412	8161	7513	7224	7211	8197	9647	11346	12939	14478	15173	15306	15251	14736	13503	13133	14131	12841	13039	12634	11537	10399	10076	10967	11394	12672	13146	12396	10897	9837	9901	362,161
1970	8640	8864	3509	4933	6718	8831	10103	11354	7914	8348	8112	6788	6892	4873	3433	4900	6311	9647	13481	13590	13932	12633	11660	14472	13140	13797	14683	14847	12533	10667	9341	288,505
1971	10939	12680	13962	18576	18600	18822	17643	17624	17933	17779	17985	18414	18889	20233	19203	17182	16364	14143	12074	10706	9830	9038	8672	8910	9231	10126	12161	14400	15838	16027	13741	461,307
1972	8101	7330	7725	8939	10743	12437	12976	14066	14162	12367	11829	11362	11766	12342	13746	14976	15526	16345	14871	13565	13181	12620	11234	10194	9774	9868	9772	10727	12353	14460	16312	376,131
1973	3883	3778	3588	3820	3943	4076	4000	4508	3044	4767	4354	4346	4571	3147	3508	6603	7449	8334	9289	9553	8720	7848	6641	6196	6364	6931	5801	4988	4634	4548	4671	174,109
1974	11706	12060	13114	13253	13694	14674	15830	16728	18469	18091	16313	13937	12490	11386	9883	8978	7937	7341	7034	6713	6493	6444	6381	7363	8120	9812	12265	16170	16930	15057	13059	368,387
1975	4213	4508	5119	7046	6620	5637	5504	4134	3073	6308	8473	11186	10878	12894	15877	19398	20618	18122	17160	16004	11787	10546	9344	9211	8905	9026	7991	8168	8846	9646	11804	307,492
1976	6133	7936	8617	9318	9676	9412	9313	8899	10435	10677	12376	13732	12517	12461	13423	12619	11857	12008	11841	11214	10348	9706	9264	9467	9460	9669	9291	9765	9480	9308	8525	318,525
1977	1673	1604	1717	1449	1484	1343	1403	1339	1301	1207	1365	1572	1333	1414	1381	1391	1426	1366	1222	1312	1276	1257	1275	1646	2339	1683	1863	2042	1803	1576	1397	46,838
1978	7638	7145	6119	8822	8162	6680	7353	7145	6025	6819	7579	8272	7316	7363	7623	11303	7237	7977	7158	6815	6511	7734	1067	7776	7074	7779	7436	68				

CHEN 1 100, 2

MAY

YEAR	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
1981	7137	8109	m946	7204	6154	5822	4678	4212	4200	3866	3609	3635	3278	3378	3366	3778	3421	3329	3840	4642	6037	5684	5963	6050	6105	7090	8005	7585	7290	7378	7758	121,649

NATURAL FLOW OF MOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 8

JUNE

YEAR	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
1941	5876	5273	4713	4985	5028	4883	5212	6341	5866	5148	4826	4982	5120	5417	5474	5217	4718	4990	4612	4450	4067	3541	3436	3300	3016	3077	2668	2626	2656	2468	133,388	
1942	6271	5732	5626	5932	6318	6766	8006	9385	9868	9502	8497	7225	6400	6171	6103	6822	6402	5523	5420	5117	4791	4453	4427	4650	4756	4886	4527	4024	3862	3701	181,187	
1943	15587	14734	12962	11286	10258	8909	8390	8004	7816	8370	9666	10493	11513	11171	10305	10063	9048	9578	11871	12584	11249	10070	10859	10633	9768	9493	9483	9715	9920	9753	315,877	
1944	5731	5553	5041	4788	4389	4168	4099	4084	4383	4943	4477	4254	4137	4007	4063	4893	4112	3762	3306	3582	3888	3933	3924	3606	3689	3732	3741	3684	3228	3004	123,863	
1945	7248	7384	8171	8810	8477	7996	7994	7816	6873	8299	7483	6911	6696	6727	6164	5678	5343	5416	5806	6460	7091	7389	7317	7157	6338	6633	5948	5817	4311	3963	202,998	
1946	7950	7333	7763	9113	10131	9773	8965	8249	7785	7457	7621	6965	6209	6199	6482	6963	5913	5339	5244	5054	5403	5241	4827	3033	4366	3994	3917	3467	3341	3406	189,411	
1947	7013	6887	6980	6014	5562	5299	5299	5342	6372	6867	5991	5421	4350	4903	4399	4785	4962	3831	3334	3103	4814	4215	3348	3663	3798	3631	3798	3324	2971	2842	148,620	
1948	10313	10900	11606	12316	11288	11163	11210	10962	10880	10534	10190	9669	9047	8998	7682	7073	6488	5872	5493	4918	3009	3323	4938	4634	4327	4182	4086	3875	3657	3476	223,853	
1949	8699	7652	6564	5665	5905	5817	6324	6397	7043	7415	7043	7446	6939	6315	5489	4899	4948	4153	3798	3618	3623	3421	3111	3262	3094	3073	2911	2608	2619	2377	152,212	
1950	11474	11339	11330	10773	10648	10989	11703	11063	9479	8074	7326	8071	8763	7834	8193	8634	9083	9739	8926	9710	9794	10318	10032	8978	7742	6843	5212	6581	6984	8136	274,141	
1951	9487	8447	7813	6970	6177	7803	6913	6277	5708	5396	5479	6034	7203	7336	8384	9831	10463	10017	9333	8705	8506	7979	7883	6458	6370	5833	6313	5807	5948	5641	220,290	
1952	12410	11937	11735	13213	13471	13030	13581	13854	11979	12614	10938	10492	7689	7938	7471	7837	6311	6438	5354	6735	6336	5379	5348	3839	5379	5419	5276	5296	4724	5238	239,141	
1953	9429	7336	8969	8880	9393	9933	9683	11613	6482	8841	9177	10738	13803	14790	13088	11253	11283	12399	12650	11478	10079	9422	9291	9365	9896	8038	6923	6973	6893	7246	294,478	
1954	5209	4707	4385	4038	4415	4733	4700	4300	4322	4429	4617	4347	4386	4684	5270	6412	6806	6822	5342	3789	3580	6370	6892	7729	7691	7429	9902	7880	6139	5388	169,833	
1955	6665	6734	6046	6080	6373	7172	8291	9301	10493	10478	10018	10242	9739	9361	7923	7571	6687	6408	5760	5810	6343	6833	6483	6843	5718	4168	4196	3928	3986	4184	209,680	
1956	18139	18296	16328	15394	13984	11825	10740	10140	10421	11121	11715	11500	10650	10277	9793	9638	7847	7102	6361	7223	7236	7336	6444	6500	5871	6087	5776	5993	6042	5603	291,294	
1957	12988	13502	14147	15587	13863	13921	13212	13000	11902	10310	9070	8717	8409	7862	6677	6235	5575	5046	3582	3913	3501	3085	3021	3504	4690	3069	3091	5338	5073		239,006	
1958	12658	11471	10461	10328	9988	9313	10035	10402	10493	10043	9343	8848	9282	8774	8230	7494	8033	8428	8462	8153	7722	7191	7000	6967	7002	5680	5318	4764	4383	4083	250,783	
1959	3900	4148	3030	3848	6420	7308	8323	8266	7246	6374	6120	5707	6023	8182	8097	7934	6442	6376	6356	6426	6383	6331	6443	4988	3223	4137	3920	3117	3288		181,078	
1960	6567	7981	8868	9307	9141	8558	7911	7947	7246	6584	6157	6036	6043	5958	5966	5846	5022	4352	4208	3939	3374	3303	3094	3088	2997	3013	2624	2403	2652		166,675	
1961	6072	5981	6129	5680	5377	5919	5686	5769	5392	5473	4961	4923	5095	5383	4531	3622	3459	3333	3142	2892	2508	2296	1987	1932	1762	1738	1707	1339	1273	1116	114,693	
1962	6631	6960	7399	8823	7722	6930	6093	5618	5331	6174	7207	8450	8969	8377	7798	7836	8035	7180	7671	7908	8388	7736	7496	6954	6273	6728	6329	5638	5148	4653	212,699	
1963	9313	8852	8018	7732	7903	7631	6881	6681	6484	7143	6832	6110	6433	7112	7817	8486	8493	8559	7644	7309	7389	7767	6372	3782	3102	4624	4128	4222	4718	4569	205,932	
1964	6911	7508	8650	8393	8394	8436	9027	9249	8072	7337	6629	6329	5640	5471	5789	6543	8214	7688	7064	6263	5613	5641	4962	5106	5478	6032	6364	6288	5414	4981	203,928	
1965	16246	14692	14116	15031	13908	13845	16184	15912	16274	16537	16415	16777	16910	15016	12332	10399	9327	8926	8747	8667	9834	10823	11692	12609	12340	11663	12206	10268	9026	8500	389,444	
1966	5469	4699	4352	3907	3554	3313	3194	3320	3144	3452	3337	3384	2879	2756	2790	3020	3044	3263	2217	3257	2621	2356	2282	2305	2048	1778	1922	1774	1448	1943	89,824	
1967	8946	10030	9084	8166	7859	9244	9134	8763	9211	9332	8758	9028	8307	7998	7893	8286	8933	9786	9938	10077	10865	11815	10859	7934	7429	7070	7048	7771	6969	6458	263,853	
1968	5100	4910	5643	7048	6327	5878	6614	5669	6031	5767	5440	5346	5280	4983	4433	4093	3986	4249	4532	4845	4930	4239	3836	3591	3743	3090	2746	2428	2670	2316	139,309	
1969	10112	9092	8696	8930	9641	10373	10259	9591	8927	8699	8723	8109	7853	6743	6116	5838	5487	4878	4772	4808	4738	4423	4257	4487	4931	4323	3767	3780	3232	3237	198,108	
1970	8806	8826	10123	11832	13419	13226	12755	12989	13370	13097	10574	8991	7795	7413	7225	6886	6592	6511	6717	7689	8162	9474	9971	10012	9329	8723	8315	8810	8764	9516	285,754	
1971	14218	12808	11211	9900	9184	8962	8976	9787	11393	13300	13351	13007	12901	13363	13599	12538	12176	12155	11893	11074	11105	12423	13466	13530	12600	11922	13454	11743	9688	8060	354,307	
1972	17776	19359	19285	17730	16619	15280	15631	17421	18600	18358	18508	16036	13337	11331	10927	11285	11641	11630	11040	9378	8434	8052	8097	8094	7513	6809	6039	5751	6068	6327	372,778	
1973	5003	5023	4986	4596	4411	4039	4259	4626	4936	4953	4948	4222	3795	3862	5323	4665	3728	3541	3221	3029	2780	2718	2667	3068	2621	2614	2610	2620	2538	2404	113,541	
1974	11987	12621	13206	14533	15324	16517	14309	12132	10462	9929	10421	11847	13767	15788	16574	17560	18375	17685	16711	15889	14693	12308	11865	11527	11669	11317	10216	8706	8013	7979	393,858	
1975	12304	14269	16285	17660	15072	13073	16839	17527	14917	12733	11316	11024	11048	12296	12588	13350	13283	11551	10023	8421	7772	7709	7732	8468	9456	7639	8253	7586	6793	6563	348,114	
1976	7949	7269	6825	6929	6821	6625	7064	7060	7117	6748	7544	7175	6277	5884	4933	4737	4420	4893	4883	5120	5322	5051	4693	4527	4271	3725	3920	3439	3191	8688	168,102	
1977	1457	1491	1871	1987	1962	2221	2253	2280	3192	1794	2625	2573	2275	1870	1713	1794	1564	1402	1348	1446	1470	1334	985	1432	933	1046	900	963	942	699	49,938	
1978	6407	6535	6616	6803	7328	8627	7851	10833	11423	11826	11863	11330	6750	8116	8738	8849	7338	7129	7160	7146	6630	7540	6710	7222	7303	6817	5747	5660	5638	6086	235,201	
1979	4439	4470	3824	4594	4203	5338	5122	4621	3821	3628	3511	3638	3816	3911	3621	3327	2978	2853	2878	2621	2369	2480	2425	2443	1450	2138	2213	1874	1942	1713	99,592	
1980	6681	6643	6547	6331	5351	5474	5885	5335	4208	5274	6466	8123	8242	7479	7083	6158	6132	6435	7450	8223												

CHAP 1 NO. 2

YEAR	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
1981	1662	6750	6145	5933	5472	5288	5701	6321	9209	9620	6871	5652	5827	4768	4430	3970	3673	3551	3304	3427	3499	3426	3347	3285	2992	2821	2752	2654	2492	2270	143,727	

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

JULY

YEAR	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
1941	2322	2243	2092	1988	2114	1578	1731	1612	1641	1462	1425	1359	1289	8414	1279	1385	1197	1289	1147	1133	1088	1083	963	926	1012	892	902	1157	1139	933	911	42,726
1942	4013	4240	4153	3773	3793	3472	3324	3084	2814	2736	2424	2238	2108	2073	1941	1913	1883	1732	1679	1609	1571	1534	1484	1454	1446	1187	1383	1049	1274	1118	1026	69,556
1943	10045	9693	9197	9300	8879	8231	8048	8399	8360	7942	7292	6508	5908	5338	5040	5033	4694	4403	4363	4274	4063	4189	4169	4086	3453	3563	3448	3226	3148	2843	2638	179,799
1944	3009	3102	2688	2700	2403	2513	2184	2012	1856	1998	1809	1680	1737	1605	1432	1576	1344	1403	1308	1233	1387	1378	1418	1156	1221	1478	966	1054	1093	973	1043	53,163
1945	3718	3569	3697	3642	3338	3165	3117	2943	2881	2900	3232	2409	2555	2355	2179	2136	2081	1791	1789	1709	1623	1644	1471	1533	1244	1340	1233	1203	1196	1261	1075	69,520
1946	3334	3363	3476	3227	3104	2937	2713	2600	2587	2373	2385	2246	1949	1823	1810	1553	1820	1720	1568	1480	1639	1496	1298	993	1320	1493	1484	1485	1165	1225	1250	62,960
1947	2782	2548	2736	2636	2687	2532	2413	2406	2337	2125	2244	2144	1825	1807	1814	1681	1557	1504	1404	1350	1360	1328	1160	1143	1128	1112	1097	1080	1063	1065	1033	53,323
1948	3652	3480	3149	2963	2676	2304	2408	2250	2112	2067	1839	1818	1814	1736	1500	1614	1522	1362	1353	1287	1384	1228	1237	1222	1077	966	900	890	920	918	814	54,686
1949	2294	2260	2130	2128	2121	2094	2269	2067	1736	1699	1705	1662	2302	1337	1481	1448	1295	1244	1104	1083	1457	1190	1123	1093	972	902	866	923	1033	829	888	46,771
1950	8217	8402	7729	7344	6707	6336	6114	5721	5233	4323	3143	3939	3924	3506	3215	3369	3035	2818	2518	2432	2039	2213	2040	2033	1089	1902	1736	1862	1735	1529	1408	119,699
1951	5444	5438	5281	5084	5273	4488	4558	3960	3738	3833	3622	3408	3003	2998	2843	2940	2681	2766	2448	2407	2338	2136	2073	1912	1688	1956	1753	2221	1677	1978	1341	97,334
1952	4669	4131	3932	4808	4487	3143	3848	3333	3218	3076	3152	3394	3300	3177	2507	2564	2219	2334	2504	2070	2243	1904	2106	1989	1965	1657	1702	1726	1396	1743	1668	85,749
1953	7247	7169	6741	6586	6778	6412	6903	5983	6033	5369	5284	5022	4683	4618	4497	3800	3229	3203	2872	2749	2313	2386	2327	2097	2134	1909	1883	1931	1769	1604	1678	127,235
1954	5109	4877	4529	4360	4410	4443	4208	4228	3523	3367	3170	3119	2938	2736	2748	2948	2581	2349	2338	2044	1968	2099	1813	1878	1733	1851	1694	1647	1759	1341	1439	89,309
1955	3423	3184	2743	2676	3036	2560	2832	1883	2303	2361	2751	2133	2506	2463	2116	2312	2027	2196	1963	1824	1660	1616	1489	1732	1628	1422	1293	1371	1333	1355	1424	65,869
1956	3291	4739	4458	4281	3976	3916	3989	3804	4021	3266	3583	3423	3858	2834	3341	3069	2438	2619	2616	2203	2504	2316	2360	1941	2194	2032	1974	1712	1981	2036	1447	94,422
1957	4843	4563	4422	3840	3603	3299	3239	2994	2949	2714	2453	2702	2577	2033	2157	2286	1967	1814	1697	1672	1731	1647	1587	1464	1439	1282	1464	1299	1329	1487	1576	74,153
1958	4113	3444	3313	3324	3253	3197	2988	2733	2786	2580	2621	2242	2188	2170	2143	1957	2225	1777	2134	1780	1808	1779	1840	1407	1817	1933	1617	1566	1463	1536	1913	71,233
1959	3072	2569	2524	2726	2485	2262	2343	2267	2176	1814	1888	1902	1746	1671	1528	1753	1338	1323	1348	1423	1233	1493	1201	1170	873	1127	1052	1108	666	1108	1019	52,448
1960	2124	2136	2040	1947	2087	2086	1714	1753	1572	1647	1421	1451	1131	1476	1242	1473	1079	1247	1136	881	923	1132	1104	584	876	763	730	589	1024	392	1003	40,787
1961	1011	983	1669	1329	1260	1002	1311	1066	1021	998	969	1002	1020	993	896	799	900	688	773	776	761	733	754	732	663	690	683	1082	799	562	717	28,410
1962	4388	4326	3991	3533	3329	2993	3096	2914	2549	2827	2431	2343	2388	2241	2261	2074	1950	1682	1772	1638	1631	1608	1368	1397	1457	1536	1890	1323	1366	1343	1209	71,456
1963	3998	3363	3399	3904	3631	3719	3327	3187	3107	3029	2802	2678	2461	1973	2393	2369	2138	1932	1563	2216	1769	1624	1606	1690	1171	1802	1468	1420	1331	1334	1282	74,384
1964	4714	4550	4323	4187	3895	3671	3589	3167	3082	3028	2813	2609	2443	2383	2277	2133	1898	2106	1837	1803	1549	1537	1433	1408	1667	1811	1226	1339	1360	1432	1497	76,473
1965	8367	8739	8336	7977	8208	8393	7919	8033	7633	7867	7118	6426	5829	5229	4902	4894	4779	4570	4694	4397	3993	3836	3732	3302	3244	3072	2683	2903	2907	2438	2616	169,482
1966	1886	1177	1436	1410	1416	1123	1226	1007	786	1108	934	998	862	890	693	631	723	718	165	441	1046	946	382	687	733	720	706	533	532	524	739	27,000
1967	6365	5985	5364	3221	3065	4323	4248	3494	3490	3228	3136	2900	2696	2511	2369	2167	2239	2342	2208	2163	1787	1969	1560	1847	1347	1603	1332	1325	1297	1093	1127	88,641
1968	2081	1686	1727	1601	1587	1285	1527	1446	1360	1511	1451	1454	1379	1238	1136	1126	1183	1103	1034	984	999	879	896	922	911	1020	879	487	831	779	921	38,063
1969	2880	2804	2607	2747	2705	2739	2862	2818	2615	2496	2422	2236	2519	2231	2174	2064	1912	1829	1757	1761	1581	1634	1559	1310	1529	1507	1606	1338	1421	1308	1237	64,428
1970	2292	2689	3432	3384	3233	3293	4873	4392	4036	3888	4584	4173	3339	3263	3018	2664	2800	2531	2334	2096	2128	2180	2213	1894	1960	1949	1611	1681	1604	1651	1519	102,776
1971	2281	2332	2399	2436	2164	6318	6243	6132	5753	5734	5905	5427	5030	4878	4753	4678	4518	4564	4287	4264	4082	3633	3617	3627	3224	2824	2736	2688	2447	2338	2220	148,718
1972	6486	6094	5750	5201	4973	4693	4811	4621	4291	3993	3638	3563	3437	3376	3240	3173	2773	2727	2538	2483	2318	2345	2582	2001	2087	1963	1993	1923	1793	1762	1623	104,259
1973	2191	1957	2107	1641	1735	1670	1405	1397	1160	1039	1420	1170	1143	220	2330	1164	1071	930	879	874	1083	1208	930	1069	876	838	869	704	1036	362	636	37,554
1974	7807	7627	7274	5735	5458	5419	5174	4806	4798	4544	4369	4287	3806	3680	3272	3686	3475	3230	3043	2972	2856	2716	2593	2555	2170	2144	2124	2070	1883	1839	1862	119,368
1975	7192	8292	9012	9540	9857	10403	10178	9694	8668	8215	7805	6828	7216	6701	5717	4728	4466	4163	3732	3243	3188	2998	2780	2717	2504	2061	2223	2108	1877	2043	2398	172,735
1976	3292	3454	3107	2963	2371	2353	2798	2632	2679	2316	2508	1911	2098	2028	1731	1654	1363	1592	1777	2074	2285	1600	1523	1424	1410	1502	948	1110	1372	1079	1278	63,056
1977	877	1037	970	1328	1246	1151	1021	371	843	727	805	704	720	646	648	641	583	630	563	588	350	538	914	537	913	792	740	642	517	628	300	23,374
1978	6457	6451	5608	5819	6223	5063	4570	4771	5071	4785	4572	4637	3733	3020	3168	3873	3527	3367	2882	2446	2678	2647	2475	1937	2262	1253	2470	1945	1864	2324	1352	115,130
1979	1766	1529	1636	1407	1425	1079	1323	1128	879	1267	926	957	1069	804	870	847	817	704	556	647	821	550	1180	1009	619	767	31	614	734	568	541	29,130
1980	5288	5320	5200	5438	5378	4386	4643	3639	3961	3332	3355	3269	2721	2727	2348	2507	2261	2173	2018	2009	1813	2011	1654</									

CHAP 1 NO. 2

JULY

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1940

AUGUST

YEAR	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
1941	991	891	848	894	776	760	706	875	706	600	740	1357	1734	1117	913	854	877	861	1240	962	832	878	800	709	864	813	813	701	732	710	654	27,248
1942	1036	1039	1043	1031	827	1049	816	849	949	769	890	703	837	672	906	639	617	718	677	567	574	734	565	674	586	571	602	519	621	635	648	23,395
1943	2472	2909	2404	2325	2303	2145	2016	1848	1868	2033	1608	1490	1672	1704	1570	1432	1319	1397	1320	1198	1269	1234	1301	1105	1311	1174	1220	1160	1125	1136	1180	30,242
1944	1032	1089	1124	1007	865	917	731	675	1018	820	650	665	674	707	647	621	644	703	619	499	579	547	596	546	525	523	599	502	603	511	394	21,632
1945	1113	1029	1248	985	1109	992	1039	1307	979	988	1084	926	890	840	788	835	767	801	635	735	765	746	665	730	515	584	579	570	657	585	291	25,815
1946	1325	1289	1241	1032	1020	1124	1138	993	947	870	867	870	895	684	935	734	989	590	772	811	768	705	934	790	904	919	808	919	899	765	776	28,309
1947	865	900	972	902	915	857	796	799	631	735	737	761	649	733	699	698	696	695	693	692	693	692	691	692	692	690	688	684	709	676	734	23,084
1948	822	842	841	811	789	782	775	739	748	745	731	731	735	713	694	697	693	695	693	682	683	673	675	676	673	677	667	652	644	636	628	22,306
1949	714	1286	686	531	614	519	568	576	606	736	686	737	708	848	788	765	892	780	745	690	617	523	544	602	589	439	600	515	544	549	571	20,560
1950	1557	2489	1707	1501	1602	1840	1591	1597	1323	1550	1472	1452	1300	1400	1136	1127	1017	1025	949	976	1019	1039	945	1010	1094	894	865	960	801	729	725	38,310
1951	1515	1604	1521	1631	1721	1769	1389	1309	1234	1341	1165	1414	892	1130	968	867	816	1110	976	739	841	1461	672	834	1197	994	934	805	840	766	990	35,485
1952	1299	2104	1356	1563	1186	1215	1262	1486	1364	1243	1214	1188	938	1392	1495	804	823	1077	948	1009	1137	980	1303	932	532	571	830	903	633	372	1101	34,380
1953	1536	1670	1619	1409	1501	1490	1492	1230	1206	1197	1027	1203	1314	962	1178	1293	1150	1048	1017	1208	1001	1176	1110	879	939	975	1012	804	1132	989	836	36,623
1954	1379	1415	1293	1140	1100	1330	1132	1263	1219	1191	1196	1103	1273	1139	1300	876	1135	770	1032	746	1105	1324	845	1048	776	926	775	960	960	749	672	33,180
1955	1282	1295	1107	861	947	835	1200	965	1143	1146	997	809	846	1051	1203	731	925	877	966	1004	1023	936	845	611	798	690	778	638	886	863	183	28,377
1956	1502	1545	1457	1749	1389	1216	1096	1426	676	1244	947	914	1199	1058	808	1095	1214	222	1164	474	1180	318	926	818	866	946	348	777	767	1232	600	31,367
1957	1264	1088	1165	1007	1461	709	1196	993	898	986	948	765	860	761	728	807	605	842	764	490	786	792	265	746	610	1117	940	189	1104	589	495	25,972
1958	1810	1460	1498	1327	1130	1342	1340	1026	932	1309	1276	892	1061	930	899	1096	661	980	934	998	848	892	731	378	803	690	699	627	932	639	683	30,883
1959	1308	1203	1053	245	735	518	369	952	825	(-21)	1142	262	1044	442	1146	(-229)	837	698	572	1495	1131	898	948	777	856	968	775	800	782	181	1310	24,216
1960	924	855	969	822	879	684	665	357	721	492	832	476	545	625	463	415	966	666	949	337	717	579	706	739	978	914	773	782	739	767	1087	22,879
1961	624	732	639	716	635	809	570	270	499	846	513	554	388	793	715	1036	673	646	478	733	633	688	427	612	633	674	899	688	614	681	630	20,030
1962	1505	1139	1311	1106	1036	1241	1081	1057	535	1380	972	832	725	1164	821	758	698	706	808	938	846	834	893	758	780	813	679	803	785	972	730	28,726
1963	1062	1199	1146	1002	985	924	1025	1047	870	1139	1084	1005	748	947	888	607	739	886	816	1436	93	286	1315	(-5)	815	771	591	732	806	897	719	26,655
1964	1218	1208	1101	1113	1110	1008	941	651	1218	824	801	812	919	831	630	704	691	783	451	717	289	1027	788	689	700	689	591	448	768	688	836	23,846
1965	2318	2516	2389	2399	2587	2085	1902	2097	1674	1755	1957	1480	2720	2653	2042	1913	1773	1636	1503	1804	2075	1835	2112	3173	205	1376	1437	1397	1179	1255	1298	35,163
1966	713	606	713	733	566	865	657	645	689	570	563	678	635	571	593	634	542	626	663	574	689	539	525	527	504	548	655	775	691	571	650	19,526
1967	1308	912	1140	904	745	821	660	689	932	600	1312	900	723	913	681	691	767	766	812	942	939	333	875	675	809	690	629	661	1012	617	692	24,550
1968	791	855	872	917	775	802	747	717	825	922	970	861	872	880	1369	1382	1141	1709	1891	1892	1869	1729	1751	1547	1301	1227	1179	1174	1078	1011	1044	36,100
1969	1203	1130	1189	920	903	1056	997	960	1026	921	732	806	824	859	766	876	747	716	685	769	806	701	555	620	517	696	784	702	686	765	718	25,639
1970	1468	1596	1175	1395	1353	1477	1562	1270	1527	1041	1129	1104	1068	869	960	1188	654	978	886	815	349	746	715	1117	394	696	589	862	889	716	332	30,518
1971	2352	1999	1989	2019	1958	1869	1931	1931	1524	1649	1623	1473	1590	1412	1522	1404	1443	1408	1214	1342	1034	1274	788	1122	1145	1119	954	942	1135	832	1233	43,250
1972	1259	1619	1623	1593	1636	1379	1433	1259	1279	1129	1309	1030	1164	1103	1231	1408	938	1004	948	1159	832	966	885	798	879	847	1134	690	782	762	780	35,438
1973	659	613	745	817	836	700	749	485	813	635	671	688	621	807	555	713	632	601	584	623	665	637	596	600	620	713	824	621	726	866	622	20,935
1974	1694	1658	1728	1757	1481	1762	1465	1657	1577	1438	1414	1411	1295	1223	1264	1245	1124	1065	1085	1105	1238	1206	1136	990	1186	1187	753	856	788	795	902	39,483
1975	2032	1982	1751	1709	1647	1550	1485	1580	450	2316	1373	1360	1122	1215	927	1288	1257	1067	1298	1239	1415	1248	1277	1371	1222	1357	1125	1106	1023	1000	900	42,351
1976	1498	1685	1894	601	1694	1334	1264	1352	832	1066	1034	939	928	1050	852	947	1289	976	1160	1184	1185	908	106	1763	1234	977	1066	1000	888	649	809	34,302
1977	518	501	242	496	510	538	538	500	371	540	507	501	494	555	244	579	565	392	458	555	590	363	478	429	601	604	665	638	625	417	351	15,365
1978	1581	1347	1530	1320	920	974	1133	1072	946	1351	1080	754	1502	926	626	1671	756	1064	883	923	1015	922	590	1665	(-112)	352	217	1946	932	408	31,779	
1979	660	679	591	750	596	597	618	728	431	351	1011	425	727	1362	1285	703	736	687	762	904	857	827	773	680	758	626	612	737				

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

SEPTEMBER

YEAR	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
1941	638	610	690	733	613	665	664	666	678	696	698	617	771	763	824	632	730	727	655	708	701	730	730	732	732	734	708	715	718	582	20,860	
1942	590	698	519	647	559	574	499	521	533	505	620	622	681	634	606	647	627	619	554	775	619	673	596	505	638	546	531	580	481	549	17,748	
1943	1164	1144	1073	1106	1027	1032	957	1034	987	826	809	1008	861	966	842	839	738	733	662	814	631	1019	716	777	768	707	851	844	838	783	26,596	
1944	416	363	373	641	362	728	670	609	577	560	528	764	413	532	432	443	467	546	726	725	680	685	660	629	645	616	611	444	541	688	17,676	
1945	685	629	583	563	528	608	343	508	658	508	639	629	572	538	174	651	625	611	646	667	669	776	995	1352	1028	399	704	681	673	644	19,518	
1946	728	643	628	841	671	764	851	794	881	756	762	687	681	657	378	673	703	926	886	957	841	856	866	864	711	691	595	660	805	678	22,636	
1947	706	682	686	610	606	568	639	637	636	710	704	700	698	692	682	672	668	606	632	628	627	630	643	621	599	553	584	604	608	584	19,233	
1948	634	626	621	625	630	634	630	634	634	578	573	583	644	617	606	593	539	521	517	483	519	497	518	554	576	606	779	771	820	760	18,290	
1949	455	344	303	453	433	308	516	467	515	598	588	732	597	566	602	523	494	599	430	492	475	316	481	571	497	888	442	217	464	780	15,588	
1950	896	632	821	643	307	515	497	541	1024	1732	1298	929	736	817	986	723	922	721	532	1160	849	717	696	782	793	833	218	668	922	936	24,088	
1951	756	841	1124	617	775	617	709	570	768	848	643	616	692	904	396	696	736	609	534	318	803	298	729	717	778	835	704	924	706	812	21,275	
1952	873	760	1022	997	666	834	692	727	630	634	856	763	738	2135	1049	739	1014	709	699	1277	965	580	818	461	791	322	1434	1014	542	144	24,927	
1953	834	982	975	1043	835	897	937	938	805	874	923	837	830	636	805	802	583	869	794	709	913	826	706	693	835	398	486	1090	1117	180	24,164	
1954	817	692	639	610	820	529	500	646	636	686	544	703	713	627	860	898	603	1024	860	772	322	702	765	838	577	402	742	395	695	789	20,834	
1955	517	573	605	582	896	381	490	648	567	880	919	714	124	388	529	785	838	925	926	716	235	799	635	880	898	788	879	770	630	734	20,397	
1956	801	1317	497	951	1287	1087	1141	1165	1133	1087	931	988	1039	996	1094	813	684	927	777	598	(-308)	1006	601	1176	825	970	854	936	1041	1324	27,858	
1957	383	908	1223	1448	633	882	956	834	924	926	778	967	800	706	928	517	799	729	848	1109	823	950	1016	885	798	962	1095	643	837	926	26,663	
1958	746	790	1069	1070	1196	1211	989	870	716	1286	1071	623	1131	870	1166	1035	910	910	608	1313	802	541	224	818	825	1117	548	847	833	1115	27,212	
1959	888	919	984	1104	678	482	891	232	469	723	923	670	781	822	1525	1293	1130	711	8323	1745	2087	1308	1467	1071	1218	1497	1804	1381	1498	1165	39,817	
1960	876	657	500	706	1541	837	670	678	698	712	802	783	805	1146	962	1097	817	936	811	976	837	818	838	706	393	1044	288	239	(-62)	725	23,122	
1961	346	629	778	556	634	392	372	633	509	729	761	635	676	539	532	592	701	1030	517	716	722	779	824	747	609	555	469	648	632	584	19,106	
1962	830	799	719	774	742	963	792	670	696	749	775	829	880	836	784	822	889	789	676	711	931	802	887	903	1016	748	752	914	1023	1010	24,793	
1963	1037	1188	920	801	740	858	628	1169	1067	873	783	730	840	784	1015	864	798	898	969	1013	1265	1148	1214	1165	1067	1055	944	848	943	742	28,368	
1964	1017	1203	1251	941	715	827	1167	732	831	654	667	735	788	735	880	1167	1088	687	889	935	839	784	903	965	865	783	849	805	820	857	26,399	
1965	1190	1130	1278	952	1147	1048	1049	1262	2065	1723	1533	1254	1429	1344	1493	756	1889	1136	1367	1384	1306	1242	1170	1297	1296	1226	1174	1048	1180	1276	38,626	
1966	598	629	583	589	570	616	39	585	474	769	1098	391	339	681	380	983	825	815	675	839	628	610	662	120	600	412	706	663	469	521	18,883	
1967	785	725	800	748	689	771	847	765	872	715	821	885	953	773	835	818	739	711	717	783	398	971	495	647	832	746	716	144	1039	980	22,708	
1968	925	974	972	943	905	933	791	1018	961	-91	1316	1327	893	824	788	1004	865	818	835	940	1027	1067	1001	964	958	1006	938	927	876	900	27,625	
1969	769	688	676	669	698	801	815	743	679	773	896	815	845	747	792	806	845	817	789	979	1116	1035	891	787	867	861	827	773	792	798	24,339	
1970	814	710	739	700	828	938	842	469	1289	918	761	806	760	641	920	842	869	810	830	1172	1089	1250	1351	1178	1020	1097	949	8034	950	879	27,475	
1971	998	871	855	1002	1333	767	770	1294	1329	1160	1165	1095	1086	999	1041	965	1053	1028	954	1130	1112	1080	1065	1027	1144	1118	1022	1082	1204	1278	32,823	
1972	803	870	904	801	885	1055	1029	1037	809	874	839	1049	1192	1072	1010	924	966	894	1224	1333	1315	1079	1198	1014	1145	657	1148	1361	1176	1081	30,744	
1973	549	764	761	722	597	676	641	584	888	758	642	662	587	557	613	609	698	754	4	512	1392	1189	837	827	1209	1131	928	943	1662	(-16)	22,680	
1974	720	794	929	708	887	702	690	409	815	1235	1069	1092	1108	1251	786	1017	966	715	1007	962	904	1138	1028	740	873	1070	866	893	911	815	27,146	
1975	359	998	1083	915	858	783	886	815	828	776	602	574	1112	1084	1084	1021	1025	979	975	930	986	904	988	1086	197	1004	866	706	963	923	27,740	
1976	841	820	763	936	845	629	979	837	1128	867	833	1548	1711	1164	1101	1363	1188	1098	1445	1350	1268	1226	762	2096	1179	1311	1430	1078	895	1263	33,974	
1977	525	536	334	489	462	326	412	493	437	482	420	321	467	115	321	-209	554	585	211	825	345	453	878	431	535	740	705	561	593	626	13,993	
1978	821	1107	1006	512	717	1030	2043	1803	1347	1378	1351	1713	1033	756	1514	1190	701	872	1376	1261	1042	1056	1015	876	744	948	1062	1067	971	926	37,215	
1979	764	680	721	648	655	751	718	704	676	477	628	681	408	660	662	617	561	525	580	568	716	565	517	621	704	822	716	535	568	19,366		
1980	640	718	802	1145	853	724	857	1029	1037	1035	1275	1436	1031	1200	1270	1626	652	423	541	650	1488	1101	1037	923	920	868	727	757	831	29,711		

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

OCTOBER

YEAR	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
1941	392	699	661	649	748	781	812	797	732	715	591	676	783	804	698	802	849	849	797	855	902	900	761	755	870	840	882	842	914	876	868	24,300
1942	567	748	695	668	697	665	639	684	434	902	459	605	740	744	844	569	689	718	692	895	780	764	780	760	651	626	702	792	737	835	699	21,282
1943	696	781	732	808	678	490	1043	864	845	766	907	1228	940	1122	939	927	1006	876	1012	883	1121	1084	1085	1054	1188	1148	1202	1284	1460	1451	1301	30,901
1944	571	583	702	630	554	718	635	636	619	646	652	635	617	612	652	642	821	807	673	632	598	664	671	674	693	659	958	436	669	638	718	20,414
1945	553	745	778	774	726	715	716	722	581	601	570	775	696	542	865	746	689	777	846	792	814	838	768	797	776	785	800	781	802	819	924	22,911
1946	672	1566	1214	1217	1151	974	940	1064	1015	995	961	991	931	898	932	865	995	910	995	925	936	1134	1256	1407	1281	1244	1238	1220	1225	1031	1118	33,697
1947	576	648	559	703	619	638	645	518	632	876	805	947	941	874	777	822	1138	1432	1234	1065	981	1002	977	947	915	830	815	954	995	1145	1120	28,122
1948	631	616	556	551	715	779	728	755	791	697	698	742	742	750	748	751	778	783	780	781	782	722	738	741	735	736	734	675	686	685	735	22,321
1949	523	572	575	794	757	945	995	895	834	861	999	851	855	817	777	801	825	834	746	749	705	812	825	826	852	805	707	744	752	835	780	24,642
1950	1159	1164	672	1056	1194	796	1258	919	1006	1431	840	1014	(-1111)	1519	968	971	971	971	971	971	974	979	974	971	972	991	718	(-569)	1558	1588	1950	30,820
1951	971	1440	1748	1289	992	1115	1240	1236	681	948	1367	828	1338	1565	940	1732	1489	564	1047	1923	1634	512	705	2189	1316	1247	1554	2152	1275	1177	1422	39,652
1952	649	575	1515	745	854	547	1021	718	1198	565	690	798	489	891	948	855	759	976	789	875	809	1855	1026	755	831	587	892	1249	1315	651	471	26,054
1953	1120	651	838	390	945	660	269	725	668	864	516	931	733	866(-1531)	1483	874	834	911	938	659	916	769	735	906	902	974	628	791	789	691	22,455	
1954	476	1023	737	736	706	880	829	842	870	586	(-1535)	1942	679	952	(-610)	1111	1246	987	865	851	905	891	846	849	639	715	1018	883	761	732	824	24,666
1955	982	835	426	580	798	711	587	929	920	1102	154	1254	586	1257	622	1702	660	591	1042	840	821	769	919	722	645	885	698	1025	706	746	1102	25,852
1956	1428	1040	1210	1055	955	1001	1050	956	1066	1586	1095	1440	1132	1153	591	834	767	1098	993	1042	800	909	1055	900	907	1336	1165	1518	1130	1445	1051	33,306
1957	961	862	554	826	(-675)	684	1015	1104	994	952	940	1008	1004	896	1321	824	826	787	740	834	923	1036	930	1020	914	1088	988	1165	735	1076	908	27,058
1958	1068	969	985	968	1035	986	976	470	544	825	746	841	866	851	770	788	785	624	910	865	955	798	498	967	960	900	815	696	748	887	1089	25,921
1959	1375	1133	1082	1038	897	1079	945	1358	1478	2155	1745	1741	1946	1248	1732	1560	1229	1076	1485	1215	1612	1190	1284	2293	1644	1448	1315	1657	1256	1106	1564	45,454
1960	689	571	550	85	578	684	1291	649	946	841	1051	1422	1067	748	716	715	648	655	790	721	745	742	719	594	824	797	761	509	1030	1020	768	25,522
1961	814	901	565	856	942	964	883	1058	436	487	1211	1020	819	965	802	786	765	686	641	712	707	780	847	805	791	681	1175	1107	1287	725	860	26,075
1962	827	872	748	647	855	729	828	747	957	1148	1471	1452	1567	2656	1803	1389	1570	1215	1254	929	1285	1082	981	954	1091	967	1105	847	783	906	35,526	
1963	857	688	757	910	881	755	1005	1209	507	1201	1319	804	785	1125	695	1200	917	805	788	945	725	838	712	755	778	1064	766	645	782	755	779	26,570
1964	599	678	780	782	818	657	804	787	776	904	792	689	548	818	716	950	791	730	778	709	689	755	741	707	816	775	778	915	780	928	742	25,704
1965	1041	1290	1004	1182	999	1286	1016	1155	1135	1052	1171	1312	914	1044	1579	1121	1125	1055	965	995	1042	1004	981	942	1191	1228	665	838	896	689	1076	32,725
1966	651	333	1002	505	557	559	516	718	735	654	617	595	766	707	335	887	884	686	569	605	627	706	772	756	742	707	587	687	420	619	682	20,054
1967	1044	1100	916	1040	871	855	556	1006	1587	1856	927	1027	989	630	895	1155	687	757	670	746	772	1166	639	767	874	717	767	1001	1419	1629	961	29,200
1968	914	870	752	865	879	856	781	864	689	774	800	897	1096	1480	1748	1855	1437	1267	1115	1026	1275	1067	404	857	1161	957	916	1101	912	955	1109	31,615
1969	866	855	950	929	835	870	872	854	(-525)	2460	1202	565	1275	1068	915	927	1060	981	899	855	852	851	881	809	964	920	585	774	892	774	695	28,044
1970	908	804	1005	914	716	855	856	960	869	1046	1178	1415	915	880	858	854	761	915	829	865	1057	981	1116	1568	1137	1129	970	806	905	1015	918	29,977
1971	1225	1282	1187	1186	1246	1121	1212	1502	965	1042	1237	1044	1104	932	1115	1011	1066	1082	1001	1232	1089	1220	1089	1055	1041	949	1124	981	921	926	994	34,217
1972	955	1154	1066	975	1125	1219	1099	1074	1009	1155	1206	1145	1102	1571	1157	1183	1157	1505	915	1080	1095	1009	1041	996	937	1046	1020	985	877	976	844	33,650
1973	924	705	814	681	765	762	789	897	825	809	730	791	775	735	856	656	752	691	617	821	641	690	709	776	897	949	782	776	812	844	814	25,865
1974	1090	946	1002	947	878	1026	946	1011	945	1179	946	978	980	970	894	1254	842	928	888	845	1119	1445	447	774	1008	999	785	996	982	1158	875	29,987
1975	1012	969	902	969	951	906	1024	1185	1002	1051	1017	1447	1258	1092	1161	926	1804	1164	875	1011	1065	1144	1475	1139	1028	1519	1514	1622	1139	1202	1174	34,969
1976	1097	1035	1175	1187	1170	885	1077	1135	926	945	1029	1072	1080	964	814	1121	1204	1082	425	564	857	1039	1096	682	734	855	1212	1125	1052	718	862	30,291
1977	468	1358	738	1175	655	797	710	548	706	822	857	637	670	620	605	635	602	432	645	685	672	689	732	744	751	747	736	242	521	515	554	20,442
1978	816	921	880	1110	992	938	868	781	838	845	1529	905	745	952	865	864	875	704	861	878	802	802	749	808	717	777	602	958	835	955	714	26,966
1979	685	415	575	525	487	514	511	500	471	672	567	528	574	670	406	574	724	715	856	1298	1255	1158	779	837	880	1345	815	815	814	905	747	22,287
1980	876	954	658	687	675	514	714	618	580	414	212	588	665	1114	805	717	706															

NATURAL FLOW OF HOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

NOVEMBER

YEAR	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
1941	781	821	822	930	1393	1076	1022	894	905	852	802	905	780	894	1387	2533	1934	1566	1420	1187	922	936	890	694	863	958	909	675	1000	871	31,600	
1942	775	901	890	915	897	781	805	921	939	1113	725	747	707	842	944	1562	1158	1186	1150	1007	857	703	858	1128	1793	1534	1246	1442	1412	2098	32,034	
1943	1158	1212	1079	1106	1917	2081	1526	1332	1175	853	1740	1240	1156	1206	1159	1150	1128	967	1087	1141	1106	985	1056	1056	968	1056	939	955	909	933	35,352	
1944	952	1196	917	1007	1406	1314	1050	900	847	1011	1148	1039	928	975	860	870	745	682	577	656	681	731	722	699	802	716	741	747	600	581	26,100	
1945	902	1104	715	807	917	860	812	865	785	740	787	1072	819	848	941	957	992	888	936	839	675	580	875	1004	991	1061	1096	1094	905		26,835	
1946	1031	1033	929	844	934	947	1065	971	983	972	1028	957	844	850	944	956	856	947	1115	2186	1660	1484	1328	1706	1608	1603	1713	1457	1522	1676	36,107	
1947	1073	1003	1003	992	911	999	970	1097	1051	961	949	985	839	985	970	993	1022	928	1024	865	754	883	655	771	1011	993	1032	1081	973	998	28,791	
1948	815	1214	1689	1177	1010	947	883	771	765	779	812	817	856	912	952	981	916	883	854	838	818	790	808	803	813	831	815	818	850	784	26,959	
1949	805	700	726	794	680	690	694	774	990	1089	971	841	855	836	911	871	796	754	789	764	726	650	792	1425	1580	1568	1500	1348	1197	1905	28,581	
1950	1073	2011	1952	1253	1350	1264	1461	1647	1640	1352	950	1353	1115	1315	1197	1140	1185	1327	1659	1697	1595	1881	1274	1274	1566	1406	1556	1455	1228	1472	42,224	
1951	1030	906	1003	1365	1001	1304	1093	827	1116	447	147	1470	1072	1368	952	1354	87	1272	53	2770	775	1279	1051	898	886	863	1518	1230	1350	1209	31,716	
1952	401	562	788	1205	800	921	921	778	625	655	525	1159	1188	1634	1240	843	525	947	894	961	643	1021	708	248	855	125	845	946	822	562	24,321	
1953	678	951	844	716	855	798	735	1078	765	749	1072	921	916	803	829	957	776	784	732	528	609	1225	1989	2112	1272	666	1721	1369	1292	1150	25,864	
1954	773	405	949	810	888	743	663	715	717	728	709	914	561	891	905	1181	1329	1059	907	875	1050	805	885	786	783	876	749	795	742	506	25,089	
1955	973	847	778	561	910	824	838	702	880	881	1074	1000	858	939	1029	478	615	1054	1115	1028	2455	2255	1571	1624	1355	1216	1209	1750	1575	2415	34,345	
1956	1245	1077	1093	1225	906	997	1220	964	1172	1182	1215	1248	1087	1074	934	841	1052	1114	1167	736	1048	1316	959	936	701	893	1215	298	1129	1238	31,238	
1957	825	899	1057	894	735	556	682	969	655	792	1181	804	908	1081	1332	827	845	721	432	1252	1201	280	300	1521	413	1067	1055	1359	1098	421	26,074	
1958	606	567	752	930	869	764	1456	2550	1567	1066	1456	1047	1059	1297	1571	824	591	947	862	1345	1495	1812	1404	961	1058	926	448	517	646	975	31,898	
1959	1268	1246	1256	1165	1207	818	1199	1059	1152	978	984	1116	1017	652	518	718	1102	847	1010	1057	875	1112	1141	1276	1154	1252	806	755	855	899	30,426	
1960	554	980	805	836	1058	595	849	735	765	730	727	753	1335	1091	748	904	568	1466	1201	1145	923	808	693	985	1226	978	1518	1027	706	590	26,921	
1961	745	806	941	901	1098	467	619	148	1618	546	1192	951	540	689	1031	941	610	546	650	646	1092	839	1527	1142	894	1154	905	971	868	913	25,890	
1962	1429	856	1207	484	1267	784	1066	1085	1051	456	898	1071	1322	1255	1441	352	569	794	941	923	958	1095	1561	1221	920	907	1751	1687	1248	1162	32,507	
1963	689	943	720	832	956	1054	1007	1059	1526	1654	1475	1045	769	1085	1558	1547	1625	1537	936	1296	1109	1207	1045	1216	1044	1045	921	757	1109	905	35,499	
1964	684	774	1180	810	760	696	816	885	851	756	957	988	922	652	588	665	478	576	1152	807	707	642	801	844	1486	1855	1279	1267	1195	1154	27,144	
1965	1090	1006	1047	805	856	1056	884	884	1062	957	849	765	1176	1100	1516	1307	1025	1217	1546	1017	1041	1117	1065	1156	1019	1088	1125	905	862	512	30,609	
1966	559	755	625	652	552	722	931	1061	755	709	741	874	602	908	1554	1010	1061	965	681	667	996	1071	758	589	628	585	492	247	755	1078	25,257	
1967	1215	942	1007	721	832	919	677	856	530	1118	1271	955	1010	874	976	946	1136	852	1145	1254	971	552	956	1091	896	920	888	478	680	1167	27,571	
1968	1076	956	1088	1161	1105	955	931	831	1114	1247	1659	1605	2072	1694	1558	1299	1228	1450	1420	1546	1185	1349	1192	1455	1784	1508	1107	1486	1025	1020	35,500	
1969	600	947	1020	670	920	538	1661	1106	954	626	1058	655	820	712	690	875	1024	915	678	725	739	765	697	734	671	669	802	671	605	584	25,867	
1970	989	1124	958	941	928	1067	1221	1167	1125	1518	1441	1610	1075	1140	1026	1055	1052	1071	1078	998	855	885	922	1618	5528	6031	5502	2480	2208	2526	48,555	
1971	1104	1214	1118	885	952	898	888	811	1009	1025	955	897	1075	1147	1228	1006	984	815	795	898	912	1134	958	851	1007	1048	1469	1218	1408	1245	30,952	
1972	840	1047	1095	1044	1386	1436	1098	1005	1108	1019	887	905	1167	855	995	987	1004	950	1039	1060	926	795	557	915	952	946	1895	1156	945	861	30,851	
1973	912	1411	818	812	815	1160	1156	1355	1485	1604	1725	1842	3956	3767	2468	2176	2070	2080	1839	1860	1560	1629	1552	1566	1462	1375	1256	1216	1202	1445	48,556	
1974	892	882	905	1000	877	822	948	980	1021	898	1061	855	1231	907	842	901	838	907	1125	924	795	951	778	1064	922	982	828	655	1032	656	27,525	
1975	1075	1204	1149	1167	1206	1152	1251	1205	1246	1274	1174	1185	917	1008	1029	1285	1566	1267	625	870	985	801	976	1159	1132	1115	1244	1116	847	875	32,975	
1976	706	887	927	875	859	831	818	905	958	901	814	781	765	690	681	1207	1029	875	799	842	889	877	864	856	806	885	595	577	405	558	24,276	
1977	578	626	601	557	685	683	672	555	645	518	589	618	648	681	568	721	725	745	568	582	479	527	450	871	915	1241	1358	1544	1278	1242	22,655	
1978	711	890	775	675	1105	694	674	809	727	702	738	727	702	618	588	604	827	747	831	968	830	808	878	807	658	658	651	885	754	941	25,320	
1979	758	746	667	745	760	755	758	772	626	652	642	654	674	452	651	552	655	681	788	611	457	1017	1012	1008	1131	1067	740	522	600	550	19,874	
1980	739	831	842	770	666	720	1224	1041	1818	1683	1044	1028	956	1374	682	710	716	808	874	877	877	1028	1054	951	988	811	864	880	771	728	28,688	

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1981

YEAR	MOVEMENT																															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	
1981	785	787	758	684	729	674	619	729	735	677	673	716	1304	1351	1487	1576	1938	2425	1938	1320	1442	1542	1575	1705	1529	1237	1147	771	776	836	38,767	

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1941

CHART NO. 2

DECEMBER

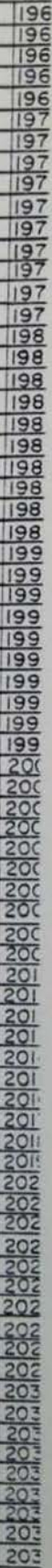
YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
1941	943	947	1661	4603	3137	2036	1837	1553	1400	1485	1438	1237	1309	1406	1372	1694	1380	1838	1871	2130	2248	2199	1896	1673	1657	1335	1097	917	1411	1620	1873	53,419
1942	1854	1741	1385	1139	1017	1160	1147	1262	1194	1217	1312	1212	1223	1116	1111	1041	1189	1052	980	942	994	1293	1140	1395	1644	1707	1173	1131	1851	1679	2620	40,891
1943	939	1182	1062	1062	977	1033	963	803	1048	807	636	746	746	746	770	748	739	939	974	1002	1003	1186	1003	943	1036	934	838	628	336	737	994	27,884
1944	803	808	793	686	667	728	736	746	638	407	342	332	396	406	464	383	763	610	640	866	1032	818	1137	906	839	783	613	621	388	906	826	21,431
1945	972	718	616	866	1036	1008	1091	933	819	436	693	836	664	371	368	707	643	1040	833	691	898	893	1243	1173	1130	1000	1206	1503	3667	3249	3587	37,356
1946	1393	1386	1266	1300	1144	1430	1479	1417	1194	1303	1409	1941	3036	4033	4709	3930	2413	1771	1870	1843	1792	1530	1306	1384	1439	1319	1319	1286	1137	948	863	54,696
1947	1182	1163	1100	920	1078	1117	934	931	908	937	622	838	709	935	922	901	811	939	931	844	931	739	792	974	746	737	736	779	961	790	314	27,702
1948	790	846	881	837	849	841	883	882	874	870	930	932	988	999	980	942	892	767	720	739	713	673	702	697	664	632	681	743	804	861	875	23,347
1949	1304	1122	1148	773	799	860	789	842	891	780	701	326	630	903	718	818	789	994	1106	363	729	778	931	907	764	779	733	973	723	739	748	23,730
1950	1398	1398	1485	1441	1331	1431	1361	1878	1630	1643	1760	1630	1632	2108	1284	1179	1669	1304	1206	1181	1337	1246	1326	1283	1304	1302	1248	670	907	1399	1440	44,493
1951	2368	3439	2250	2024	1369	1834	1117	879	711	916	962	1493	1338	1039	1098	734	1072	1273	1362	807	939	2049	2046	1243	1237	629	1332	1143	1739	1438	1333	43,413
1952	723	779	1163	823	733	701	873	1006	902	748	931	938	1424	1071	1036	1443	879	733	444	1164	638	1763	1202	71	227	463	806	1020	1020	379	922	27,323
1953	996	1167	917	971	1236	1037	677	1271	960	1221	1023	877	864	854	527	792	1004	968	326	1399	1237	1317	791	303	829	717	1112	673	319	930	727	28,866
1954	309	388	933	1001	682	902	817	839	702	604	707	854	712	913	677	434	304	967	1329	246	(-288)	891	601	737	1043	1092	388	966	862	937	23,070	
1955	333	1329	834	1401	739	746	1021	1181	338	1703	1160	923	876	919	784	970	897	1438	1641	2230	2221	4106	16700	20331	11314	7381	3033	4416	3637	2732	2871	102,309
1956	385	1143	643	1060	1198	354	733	797	342	483	2817	2027	1978	2196	1817	1811	1316	1170	1388	897	932	1038	1009	603	1392	622	992	309	807	1031	840	34,754
1957	303	609	1283	630	333	1042	1317	1213	689	899	(-127)	1361	864	1838	1019	238	1438	1391	1033	1193	1001	1370	433	(-36)	2216	1268	1033	417	1472	809	463	29,064
1958	809	1308	1419	940	1271	1190	791	1164	1347	931	1404	3044	2870	2386	1169	1231	1932	1401	1286	1009	1382	1336	1401	998	1312	1203	1269	1094	1039	690	901	41,387
1959	871	1031	723	1083	916	493	273	713	348	704	892	844	838	1003	371	829	733	862	931	897	393	683	623	1038	1231	972	814	716	717	333	694	24,257
1960	986	617	1099	1012	840	1310	397	(-309)	671	616	722	679	734	843	324	713	742	1034	1221	933	493	731	892	632	931	933	338	871	860	418	734	23,983
1961	832	1033	874	1032	1024	647	397	397	833	418	701	386	849	706	932	929	813	980	703	1199	818	1293	789	966	1017	732	678	708	833	1044	889	23,936
1962	1027	1132	1624	1987	1347	1338	1057	1413	1034	1168	826	737	806	902	1364	1136	1029	1149	1207	339	1127	994	1234	808	293	414	706	736	976	1143	838	32,939
1963	713	813	774	633	870	493	1073	893	1024	746	999	1034	376	789	983	834	961	862	1184	869	763	724	648	687	867	836	848	969	802	393	23,586	
1964	1168	1687	1680	1361	1039	949	819	734	816	1226	1288	1034	734	880	1116	989	397	392	631	760	1046	2132	18378	27294	19740	11963	8143	6823	3706	4380	3940	129,403
1965	714	767	1091	1178	976	1193	963	663	749	971	1481	906	941	382	819	766	746	747	301	407	346	376	889	813	1030	924	829	1184	803	879	707	26,345
1966	842	804	784	1012	1147	933	912	679	1136	636	671	1049	666	1088	1283	793	444	670	998	373	1117	333	642	633	603	704	498	368	331	1074	630	24,359
1967	912	871	623	922	730	1014	937	834	698	700	1034	602	692	374	374	410	303	820	934	724	994	740	327	880	1213	940	720	1243	863	766	899	24,707
1968	1132	1183	1018	1231	1038	1290	974	942	1030	1127	1012	1103	1004	733	906	1082	1114	872	943	779	679	899	930	946	1333	1476	1180	1113	822	1040	879	31,784
1969	367	616	727	646	743	722	606	873	833	1131	1133	1236	331	728	1113	336	836	798	831	1017	1074	1426	1387	1266	863	943	919	767	834	333	348	26,473
1970	2433	1989	1838	1877	1493	1378	1638	1389	2722	2743	8134	1602	1423	1729	1366	1729	1766	1443	1116	668	1332	1424	1338	996	933	1283	1122	1277	1703	1364	1297	30,257
1971	980	881	736	1189	1061	1424	1361	734	614	1123	1037	1169	1260	1149	1239	1037	1107	890	972	973	1064	1102	1230	937	1414	1274	1383	1270	122	902	887	32,603
1972	946	203	700	2029	813	346	394	779	884	606	603	670	1033	386	1141	947	1110	1347	1332	1284	1398	1662	1817	1946	1924	1893	1206	1189	1126	1008	1036	34,882
1973	1422	1433	1264	1437	1263	1031	1338	1426	1231	1131	989	1247	1291	1331	1123	988	1718	2039	1987	1701	1373	1866	1844	1712	1697	1394	1143	1809	1417	1311	1340	43,002
1974	707	821	644	1106	1135	1130	903	1104	934	340	332	684	1596	739	773	834	870	1010	816	893	1132	1067	1086	393	793	977	870	681	786	604	1126	27,212
1975	927	1362	2223	1928	1013	1886	1987	1944	2267	2033	1808	1814	1410	1633	1548	1381	1317	1092	934	822	1002	1211	1210	1197	963	1339	1304	1248	1263	1176	1108	43,977
1976	442	913	724	739	759	816	723	733	884	898	797	831	870	696	928	884	677	607	370	356	633	678	423	310	372	463	393	1697	833	371	674	22,682
1977	1318	963	1311	1818	1887	1389	1703	1036	912	939	931	1070	1088	1147	3406	6813	2877	2320	1924	1622	1923	2264	3186	1816	1020	932	960	1002	902	1376	783	52,324
1978	1024	388	763	788	1816	1212	764	373	660	773	383	646	633	637	717	783	728	733	318	833	710	818	616	864	734	838	600	778	606	478	482	24,438

NATURAL FLOW OF BOISE RIVER
IN SECOND FEET
BEGINNING 1981

CHART NO. 2

YEAR	DECEMBER																															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	
1981	1075	1116	1151	902	930	1049	1031	1110	1126	1011	1055	1051	970	1161	1411	1501	1402	1084	2837	3275	3051	3175	2636	1702	2021	1864	1904	1795	1557	1641	1209	50,183

0



CORRECTED FOR HOLDOVER STORAGE

TABLE, IN SECOND FEET, SHOWING AVERAGE DAILY FLOW OF BOISE RIVER
FOR A 85 YEAR PERIOD, 1895 THRU 1980

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	1101	1213	1679	3686	7003	8543	4329	1243	757	807	891	1072
2	1095	1229	1754	3806	7120	8452	4186	1238	777	835	931	1126
3	1115	1222	1699	4016	7235	8424	4038	1183	770	835	969	1112
4	1030	1315	1699	4090	7523	8408	3888	1124	759	828	906	1184
5	1017	1333	1692	4180	7694	8283	3767	1113	760	814	950	1090
6	1031	1269	1723	4365	7879	8240	3556	1082	744	785	923	1068
7	1050	1256	1739	4626	8089	8305	3453	1043	746	852	958	1022
8	1012	1358	1803	4738	8267	8345	3272	1030	742	873	949	1005
9	1041	1363	1940	4834	8425	8222	3146	982	775	832	976	985
10	1045	1314	1926	5115	8512	8147	2992	976	775	900	985	983
11	1030	1288	1969	5273	8477	7891	2870	984	789	872	1005	1047
12	1025	1278	2013	5435	8445	7806	2743	925	793	916	982	1162
13	1035	1296	2049	5731	8402	7714	2608	946	790	879	972	1113
14	1058	1333	2076	6084	8472	7654	2450	948	787	902	978	1088
15	1141	1326	2112	6290	8590	7449	2355	917	812	854	986	1070
16	1190	1339	2166	6538	8690	7384	2255	883	805	924	1004	1072
17	1215	1374	2260	6605	8681	7187	2116	881	793	901	952	1048
18	1236	1341	2409	6785	8776	6980	2011	848	772	889	993	1029
19	1286	1340	2623	6929	8768	6771	1914	872	763	867	958	1049
20	1292	1395	2725	6783	8636	6619	1825	862	824	887	1041	1017
21	1313	1407	2763	6755	8579	6404	1766	856	798	904	1047	1042
22	1370	1427	2844	6953	8507	6233	1710	833	798	895	1114	1119
23	1358	1421	2906	7023	8499	5998	1649	814	784	875	1164	1493
24	1321	1505	3000	7047	8664	5795	1578	813	802	912	1156	1582
25	1299	1500	3065	7108	8720	5506	1539	790	798	896	1178	1418
26	1245	1486	3091	7185	8804	5281	1475	781	787	902	1144	1242
27	1215	1555	3192	7239	8768	5294	1424	759	751	890	1117	1166
28	1205	1584	3269	7185	8814	4880	1388	751	773	901	1029	1158
29	1177	1695	3423	7114	8731	4669	1345	789	789	914	1020	1181
30	1181		3487	7044	8605	4505	1304	748	785	906	1062	1140
31	1176		3575		8612		1280	740		910		1112

NATURAL FLOW HIGH YEARS
PRODUCTION OVER 2,700,000 ACRE FT.

CHART 3-A

YEAR	AMOUNT PRODUCED OCT 1 - SEPT. 30	HIGH-MONTH	AMOUNT PRODUCED FOR MONTH	HIGH-DAY	24 HR. CFS AMOUNT PRODUCED	INSTANTANEOUS HIGH DURING THE DAY
1895-1896	3,301,142	JUNE	1,464,280	JUNE 14	35,500	
1898-1899	2,914,444	JUNE	731,400	(MAY 10-1899) JUNE 20	19,000 18,700	
1903-1904	3,029,516	MAY	828,600	(APRIL 15-1904) MAY 23	19,700 18,700	
1906-1907	3,207,380	MAY	683,520	(APRIL 15-1907) MAY 19	17,000 13,400	
1908-1909	2,744,790	JUNE	655,220	JUNE 5 & 6	16,000	
1909-1910	2,756,360	APRIL	609,980	(MARCH 22-1910) APRIL 12	16,600 12,000	
1920-1921	2,905,074	MAY	824,038	MAY 17	18,739	
1942-1943	3,563,670	APRIL	1,006,532	APRIL 18	25,040	
1951-1952	2,866,216	MAY	901,634	(APRIL 28-1952) MAY 5	23,429 18,955	
1955-1956	3,173,886	MAY	841,354	MAY 25	22,949	
1964-1965	3,662,880	MAY	836,232	(MAY 1, 1965) DECEMBER 24	20,503 27,294	44,000
1970-1971	3,423,948	MAY	922,614	MAY 14	20,253	
1971-1972	3,077,138	MAY	752,262	(MAY 16, 1972) JUNE 2	16,345 19,559	
1973-1974	3,212,958	JUNE	787,716	(MAY 9, 1974) JUNE 17	18,469 18,375	

TOTAL MONTHLY FLOW OF BOISE RIVER - IN ACRE FEET

CHART NO. 4

FOR IRRIGATION YEARS BEGINNING 1894 - 1895

YEAR	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	TOTAL	
1894-95	54700 (8)	54000	62700	78600	68280	103180	243148	395220	225700	152390	63620	50000	1,559,370	
1895-96	57040	54980	30780	73440	67660	157560	299040	555382	1464280	385520	81960	57500	3,301,142	
1896-97	54220	61300 (5)	64600	30580	35240	88000	476800 (5)	309000 (6)	415000 (5)	143300	67230	62520	2,045,330	
1897-98	63480	64100	61500 (7)	34100	67200	119280	251700	320280	259360	116848	45720	39168	1,482,676	(1) MEAN OF 4 HIGH YEARS
1898-99	53262	56242	151640	160600	78640	113900	425740	608028	731400	356160	109940	68900	2,914,444	
1899-1900	83664	90000	97000	125420	100300	305220	380128	510720	300648	84156	53300	51212	2,182,158	(2) SUBSTITUTED FROM 1906
1900-01	63570	61880	65060	79440	98340	173320	305900	626460	287480	116400	52222	49704	1,985,716	(3) SUBSTITUTED FROM 1900
1901-02	56464	55832	76400	61300	90440	88920	213170	353460	287160	106720	49496	40914	1,480,636	
1902-03	45630	54418	63474	81760	63570	143360	448220	520620	601880	147580	53000	46344	2,269,856	(4) MISSING DAYS SUBSTITUTED FROM 1900
1903-04	58554	67800 (7)	67800	124000 (1)	108000 (1)	264140	671840	828600	521060	201920	71972	43830	3,029,516	
1904-05	58980	54000	54000 (7)	50400 (2)	56700 (2)	101900	176200	229820	247660	78860	39870	34660	1,183,050	(5) MISSING DAYS SUBSTITUTED FROM 21 YEAR MEAN
1905-06	42980	41010	40410	30810	57240	101100	337920	428100	346980	163340	52410	41090	1,703,390	
1906-07	42350	73380	74000 (6)	125400 (3)	155000 (4)	346120	673540	683520	534560	335840	101600	62070	3,207,380	(6) MISSING MONTHS SUBSTITUTED FROM 21 YEAR MEAN
1907-08	57890	55970	63300	67190	65282	141130	382320	370360	324780	197960	64220	55324	1,844,626	
1908-09	68440	57280	38000	138160	110680	228840	473220	605240	655220	226800	63690	57220	2,744,790	
1909-10	63140	200560	124760	79900	66600	566900	609980	511760	310360	110040	55970	36390	2,756,360	(7) INTERPOLATED
1910-11	63210	73780	76820	63010	76340	159570	323960	349180	740660	233040	74906	59636	2,494,052	(8) AVERAGE OF 5 SHORT WATER YEARS
1911-12	66670	66700	65500	78480	76120	99580	340920	684180	672560	173980	83380	66080	2,477,090	
1912-13	66960	67820	60680	53800	51400	101800	374960	573740	413420	158660	82964	54220	2,060,494	
1913-14	63524	80180	61304	71196	74960	216040	469040	553660	307700	124130	58742	32654	2,133,218	
1914-15	69684	58366	44800	39580	59726	94782	196558	274128	191900	83872	40926	39672	1,213,994	
1915-16	42410	45626	53346	49930	63262	197486	555062	565752	594764	293818	80102	53686	2,593,244	
1916-17	59106	54020	53702	47628	47694	61740	267082	654156	645322	260216	65224	43930	2,257,840	
1917-18	46004	49506	128592	113828	77796	181442	346040	409954	462460	112526	56298	51122	2,035,302	
1918-19	64232	56578	49118	50532	52844	114916	395854	309192	240872	69736	36404	34262	1,674,600	
1919-20	47968	56548	53010	66528	66714	89254	189044	449798	333468	117324	40586	39234	1,549,488	
1920-21	59966	75678	67106	112422	94090	271472	594484	824038	718728	175390	62908	48784	2,905,074	
1921-22	55492	78176	89958	60982	53180	113692	319642	732474	659864	148066	65210	47974	2,444,710	
1922-23	52168	48886	52872	62094	50860	92700	273726	454010	376208	192304	67552	42946	1,766,526	
1923-24	61532	52930	51286	48954	72446	63530	136430	243200	76792	35896	24426	25320	892,242	
1924-25	39218	53862	42912	48414	129386	192378	501862	700486	367370	152598	60730	47302	2,336,518	
1925-26	58424	51382	63482	48416	64264	140150	232784	247930	104636	42192	30838	29480	1,114,298	
1926-27	34882	67640	84702	62700	107342	185560	374434	660044	729736	234042	74454	57570	2,673,106	
1927-28	67804	143162	98102	90026	79090	276560	516008	852194	305760	115962	51846	38016	2,434,530	
1928-29	49856	50484	46770	46690	49214	106834	179238	359536	285968	96482	35716	31802	1,338,510	
1929-30	39356	56848	69548	44778	64388	103616	274178	295246	257700	77226	44922	36050	1,344,356	

TOTAL MONTHLY FLOW OF BOISE RIVER - IN ACRE FEET

FOR IRRIGATION YEARS BEGINNING 1894 - 1895

YEAR	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	TOTAL
1930-31	54512	45418	44108	44814	43298	91246	177172	251538	110844	34042	23952	23940	946,884
1931-32	31424	31224	36376	38612	36734	135826	336006	364176	458224	154044	57524	42730	1,922,920
1932-33	39142	36478	40596	43926	41136	64474	229342	341610	538198	106458	43964	32200	1,587,524
1933-34	41684	47684	33636	79680	78948	151696	249648	204008	85624	36200	23570	26072	1,080,470
1934-35	37226	49444	31208	52256	54336	83130	299458	428528	363262	98220	38058	29980	1,585,126
1935-36	33616	38268	37352	44612	47356	100060	577594	623906	319284	79080	43354	38360	1,984,842
1936-37	39772	36600	41356	37358	41228	89870	207358	381192	178996	23948	23948	23746	1,166,320
1937-38	36226	49828	115760	67492	71566	191026	305100	711314	558138	201292	71190	46910	2,625,842
1938-39	60626	67394	60980	32236	47170	164294	328918	341836	136300	60358	28454	30436	1,379,002
1939-40	40474	38778	49268	53858	75724	201512	355842	434480	227258	64910	30808	39548	1,612,680
1940-41	53168	39764	56534	54260	63368	113448	188300	365336	266776	85452	54496	41720	1,404,722
1941-42	48600	63200	106838	62182	63162	87804	341622	325376	362374	139112	46790	35496	1,682,756
1942-43	42564	64068	81282	153190	116564	235138	1006332	722804	627754	359598	100484	53192	3,563,670
1943-44	61802	70704	55768	49412	52610	68094	164000	303208	247726	106326	43264	35352	1,258,266
1944-45	40828	32200	42902	56270	80124	99160	202568	473146	405996	139040	51630	39020	1,682,684
1945-46	45822	33670	74712	73530	63808	218604	639804	651660	378822	125920	36618	45272	2,436,242
1946-47	67394	72214	109392	60364	87278	181276	289400	543764	297240	110646	46168	38466	1,905,602
1947-48	36244	57582	55404	65522	60480	73396	264424	305792	439706	109372	44612	36580	1,789,114
1948-49	44642	55318	51094	49038	45314	146834	416548	571670	304424	93542	41120	51176	1,849,320
1949-50	49284	57162	31500	63202	73010	154176	402618	563086	548282	239398	76620	48176	2,329,114
1950-51	61640	84448	88986	69948	125878	125072	556968	684894	440580	195068	70970	42530	2,547,002
1951-52	79304	63432	86838	68642	77070	103020	677890	901634	518282	171498	68760	49854	2,866,216
1952-53	52108	48642	54646	100936	88486	126730	329366	403582	588356	254470	75246	48328	2,169,496
1953-54	44870	59728	57732	64266	92288	149836	381720	397550	339666	179018	66360	41668	2,074,702
1954-55	49332	50178	46140	46716	40444	55940	129832	397270	419360	131738	56754	40794	1,464,498
1955-56	51704	68686	205818	147212	104470	222258	636502	841354	582588	188844	62734	55716	3,173,886
1956-57	66612	62464	69308	52448	92880	194092	361256	733940	518012	148306	51944	53366	2,424,828
1957-58	54116	52148	58128	53682	121836	124694	323778	946374	501566	142466	61766	54424	2,494,978
1958-59	51842	63796	83974	76466	69702	92542	276734	331594	362156	104896	48432	67634	1,629,768
1959-60	86908	60852	48314	51664	64890	172830	358988	574362	333350	81574	45758	46244	1,725,934
1960-61	47044	53842	47966	42434	58830	91230	172064	298818	229386	56820	40060	38212	1,176,726
1961-62	52130	51660	51872	54554	78326	83072	407856	406458	425398	142912	37452	49586	1,861,296
1962-63	71052	65014	65918	43612	147124	91904	180298	452916	411904	148768	53310	56736	1,788,556
1963-64	53040	66398	51172	52170	53860	71218	262166	457280	407856	152946	50092	52798	1,731,596
1964-65	47408	54288	258810	160396	182606	185530	624180	836232	778888	338964	118326	77252	3,662,880
1965-66	65450	61218	52690	63168	47170	97960	248302	327154	178048	54000	39052	37766	1,271,978
1966-67	40108	46514	49118	65592	60048	83580	138430	483144	526106	177282	49100	45416	1,764,438
1967-68	58400	55142	49414	47040	98030	119292	152728	259286	278606	76126	72200	55750	1,321,574
1968-69	63230	79000	63568	127936	87134	143928	654184	724322	396216	128856	51278	48678	2,568,330
1969-70	56088	47734	52950	127058	101728	149020	189668	572010	571508	205552	61036	54930	2,194,302

TOTAL MONTHLY FLOW OF ROUSE RIVER - IN ACRE FEET

CHART NO. 4

FOR IRRIGATION YEARS BEGINNING 1894 - 1895

YEAR	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	TOTAL
1970-71	59954	97070	100514	156024	167320	211474	548362	922614	708614	297436	90500	64046	3,423,948
1971-72	68434	61904	65210	101004	101026	446586	394274	752262	745556	208518	70876	61488	3,077,138
1972-73	67300	61702	69764	73772	58170	92920	180710	348218	277082	75108	41870	45360	1,341,976
1973-74	47726	97112	90004	130372	70740	253786	397914	736774	787716	238776	78966	54292	3,212,976
1974-75	59974	55046	54424	59334	63858	145754	204658	618984	676228	345470	84702	55480	2,443,712
1975-76	67938	65950	87954	71086	75852	108240	383236	637050	336204	126112	68604	67948	2,098,174
1976-77	60582	48552	45364	44144	40756	43966	76258	93676	97860	46748	30730	27286	658,622
1977-78	40284	45306	105045	80908	89730	294530	381218	470568	470402	230260	63758	67430	2,266,839
1978-79	53932	46640	48876	49294	54958	105786	140490	349668	199184	58260	44912	38732	1,170,662
1979-80	44574	31648	45274	73156	90782	124636	363104	872048	407242	110914	58564	57422	2,059,364
1980-81	42296	57376	60984	76548	86290	115042	205220	343228	287544	82708	30072	32032	1,441,430

TOTAL MONTHLY FLOW OF BOISE RIVER - IN ACRE FEET

CHART NO. 4

FOR IRRIGATION YEARS BEGINNING 1894 - 1895

YEAR	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	TOTAL
1970-71	59954	97070	100514	156024	167320	211434	548362	922614	708614	297436	90500	64046	3,423,948
1971-72	68434	61904	65210	101004	101026	446586	394274	752262	745556	208518	70876	61488	3,077,138
1972-73	67300	61702	69764	73772	58170	92920	180710	348218	227082	75108	41870	45360	1,341,976
1973-74	47726	97112	90004	130792	70740	257786	599914	136774	787716	238736	78966	54292	3,212,976
1974-75	59974	55046	54424	59334	63858	145754	204658	618984	696228	345470	84702	55480	2,443,912
1975-76	69938	69950	87954	71086	75852	108240	383236	637050	336204	126112	68604	67948	2,098,174
1976-77	60582	48552	45364	44144	40756	43966	76258	93676	99860	46748	30730	27386	658,622
1977-78	40284	45306	105045	80908	89730	221536	381218	470968	470402	230260	63758	67430	2,266,839
1978-79	53932	46640	48876	49294	54958	105786	140420	949668	199184	58260	44912	38732	1,170,662
1979-80	44574	31648	45274	73156	90782	124636	363104	872048	407242	110914	58564	57422	2,059,364
1980-81	42296	57376	69984	76548	86290	115042	205220	343298	287544	82708	39092	37032	1,441,430

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS
BY DAYS DURING THE IRRIGATION SEASON OF 1948, INCLUDING STORAGE
APRIL

CHART NO. 3

[illegible]

CHART NO. 5

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	
AIRER	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	17	
ANDREWS	0	0	0	0	0	7	7	7	7	7	7	7	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17
BALLENTYNE	18	18	18	18	18	18	18	18	18	18	21	21	21	21	21	21	21	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
BAXTER	0	0	0	0	0	13	13	13	13	13	13	13	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
BOISE CITY	19	19	19	32	32	32	32	32	32	32	34	34	34	34	34	34	34	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
BOWMAN-SWISHER	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	16	16	16	16	16	16	
RUBB (SOUTH BOISE MUTUAL)	7	7	7	4	4	4	4	4	4	4	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
CALDWELL HIGH LINE	65	52	46	53	52	42	42	39	41	41	51	48	51	49	45	45	44	44	51	48	46	46	47	47	47	50	48	47	47	40	48	48	
CAMPBELL (CANYON)	32	32	32	32	0	0	0	0	0	0	0	33	33	33	33	33	33	33	37	37	37	37	37	37	37	32	32	32	32	32	32	32	
CANYON COUNTY	39	65	58	54	45	40	38	51	55	55	54	58	71	72	71	70	70	63	63	63	54	54	54	54	54	55	60	57	55	57	65	65	
CONWAY-HAMMING	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAVIS DITCH	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
EUREKA R.	83	83	83	83	83	92	92	92	92	92	92	92	97	97	97	97	97	97	97	121	121	121	121	121	121	121	115	115	115	115	115	115	
FARMERS UNION	103	99	95	121	143	148	163	173	181	177	175	166	175	197	249	244	244	223	223	197	187	187	187	185	185	203	189	191	191	208	167	167	
GRAHAM-GILBERT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
HAS	5	5	5	5	5	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	16	16	16	16	16	16	
HART-DAVIS	10	10	10	15	15	15	15	15	15	15	15	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
ISLAND HIGH LINE	36	36	36	36	36	35	35	35	35	35	35	35	49	49	49	49	49	49	49	67	67	67	67	67	67	67	93	93	93	93	93	93	
LEMP	10	10	10	10	10	10	10	10	10	10	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
LITTLE PIONEER	23	23	23	23	43	43	43	43	43	43	43	28	28	28	28	28	28	30	30	30	30	30	30	30	30	30	25	25	25	25	25	25	
LOWER CENTER POINT	37	37	37	37	37	33	33	33	33	33	33	31	31	31	31	31	31	31	31	34	34	34	34	34	34	34	38	38	38	38	38	38	
NACE-CATLIN	14	14	14	14	14	14	14	14	14	14	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
NACE-NACE	3	3	3	3	3	0	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	3	3	3	3	3	3	
MAHON	3	3	3	3	3	0	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	3	3	3	3	3	3	
MCCONNEL ISLAND	43	43	43	43	43	47	47	47	47	47	47	47	45	45	45	45	45	45	45	47	47	47	47	47	47	47	53	53	53	53	53	53	
MCMAHUS & TEATER	4	4	4	4	4	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MIDDLETON	98	121	127	127	122	133	141	135	134	173	171	136	136	164	159	159	159	153	135	146	144	184	184	152	133	152	143	141	141	146	174	174	
NEW DRY CREEK	54	56	57	57	54	59	64	69	71	70	69	67	67	66	69	79	73	75	74	66	59	52	52	52	52	60	56	56	77	66	87	87	
NEW YORK CANAL (W. OF C.)	1444	1612	1685	1782	1872	1968	2105	2205	2285	2316	2316	2326	2306	2347	2363	2363	2363	2363	2363	2270	2270	2120	2021	1949	1949	1939	2016	1987	2046	2135	2235	2347	2347
PANMA	11	11	11	11	11	12	12	12	12	12	12	12	14	14	14	14	14	14	14	19	19	19	19	19	19	19	43	43	43	43	43	43	
PENITENTIARY	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	7	7	
PHYLLIS	209	209	305	293	331	381	414	414	419	419	425	417	421	444	446	451	451	453	430	414	377	362	362	366	368	345	333	364	410	342	342	342	
RIDENBAUGH	401	420	423	461	467	476	478	489	493	510	520	539	542	542	536	536	537	528	526	514	496	496	498	498	495	501	501	514	526	526	519	519	
RIVERSIDE	221	223	238	220	215	203	211	211	223	217	220	194	206	214	239	252	255	258	279	274	266	257	253	249	263	262	242	238	226	233	269	269	
ROEDEL																																	0
ROSS HILL	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	9	
SEBREE (FARMERS CO-OP)	111	133	166	166	157	182	209	198	207	207	204	237	232	280	283	286	283	286	234	211	116	115	162	160	160	163	213	180	172	213	253	253	
SETTLERS	30	40	40	30	47	80	87	102	112	101	124	137	139	143	148	165	167	167	166	166	164	165	164	163	165	162	162	166	167	163	132	132	
SEVEN SUCKERS	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	
SIENBERG	4	4	4	4	4	5	5	5	5	5	5	5	13	13	13	13	13	13	13	8	8	8	8	8	8	8	8	8	8	8	8	8	
THURMAN HILL	35	35	35	35	35	35	35	35	35	35	32	32	32	32	32	32	32	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
UPPER CENTER POINT	12	12	12	12	12	22	22	22	22	22	22	22	15	15	15	15	15	15	15	10	10	10	10	10	10	10	11	11	11	11	11	11	
WARM SPRINGS DITCH	11	11	11	12	12	12	12	12	12	12	12	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	
TOTAL CANAL DIVERSIONS	3332	3527	3717	3879	3986	4240	4470	4594	4731	4794	4823	4853	4909	5061	5131	5187	5188	5153	5025	4910	4623	4491	4467	4468	4465	4543	4605	4603	4747	4945	4989	142,548	
MISCELLANEOUS																																422	
TOTAL DIVERSIONS																																142,970	

CHART NO. 5

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
AIKEN	0	0	0	0	0	0	0	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4		22	
ANDREWS	26	26	27	27	27	27	27	27	27	32	32	32	32	32	32	32	21	21	21	21	21	21	21	15	15	15	15	15	15	15	22	
BALLENTYNE	18	18	18	18	18	18	18	18	18	18	18	18	18	18	15	15	15	15	15	15	15	20	20	20	20	20	20	18	18		533	
BARTER	12	12	13	13	13	13	13	13	13	16	16	16	16	16	16	16	5	5	5	5	5	5	5	0	0	0	0	0	0	0	262	
BOISE CITY	37	37	37	37	37	37	37	35	35	35	35	35	35	35	31	31	31	31	31	31	31	34	34	34	34	34	34	33	33		1025	
BOWMAN-SWISHER	16	16	13	13	13	13	13	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10		193	
BURR (SOUTH BOISE MUTUAL)	13	13	13	13	13	13	13	10	10	10	10	10	10	10	8	8	8	8	8	8	8	14	14	14	14	14	14	12	12		373	
CALDWELL HIGH LINE	52	52	46	46	46	46	41	41	55	79	83	83	65	65	60	51	48	48	45	45	42	42	48	55	49	55	53	48	48	44	1580	
CAMPBELL (CANYON)	32	31	31	31	31	31	31	31	30	30	30	30	30	30	30	24	24	24	24	24	24	24	22	22	22	22	22	22	27		808	
CANYON COUNTY	66	64	61	76	71	71	72	59	47	47	47	47	47	47	51	45	45	55	58	50	52	86	96	94	101	97	96	97	83		1988	
COMBAY-HAMMING	5	5	5	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5		45	
DAVIS DITCH	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9		284	
EUREKA #2	115	115	117	117	117	117	117	117	112	112	112	112	112	112	112	112	97	97	97	97	97	97	97	84	84	84	84	84	84		3100	
FARMERS UNION	190	213	231	231	210	236	247	220	231	236	195	195	153	150	171	167	185	185	205	205	226	205	218	223	228	249	260	260	238	238		6401
GRAHAM-GILBERT	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3		48	
HAYS	16	16	20	20	20	20	20	20	20	14	14	14	14	14	14	14	4	4	4	4	4	4	9	9	9	9	9	9	9		361	
HART-DAVIS	19	19	19	19	19	19	19	11	11	11	11	11	11	11	14	14	14	14	14	14	5	5	5	5	5	5	5	11	11		365	
ISLAND HIGH LINE	93	93	83	83	83	83	83	83	83	96	96	96	96	96	96	96	36	36	36	36	36	36	36	28	28	28	28	28	28		2027	
LEMP	5	5	5	5	5	5	5	4	4	4	4	4	4	4	0	0	0	0	0	0	2	2	2	2	2	2	2	6	6		89	
LITTLE PIONEER	25	45	45	45	45	45	45	45	31	31	31	31	31	31	31	14	14	14	14	14	14	24	24	24	24	24	24	24	26		849	
LOWER CENTER POINT	38	38	39	39	39	39	39	39	39	49	49	49	49	49	49	49	26	26	26	26	26	26	26	21	21	21	21	21	21		1021	
MACE-CATLIN	12	12	12	12	12	12	12	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	16	16		214	
MACE-MACE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
RAMMON	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	10	10	10	10	10	10	10	7	7	7	7	7	7		146	
McCONNEL ISLAND	53	53	41	41	41	41	41	41	41	40	40	40	40	40	40	40	27	27	27	27	27	27	27	40	40	40	40	40	40		1142	
McMAHON & TEATER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	0	0	0	0	0	0		14	
MIDDLETON	168	168	158	152	135	116	114	104	140	181	176	214	127	113	103	124	153	146	141	138	164	150	167	161	147	149	159	174	177	172		4491
NEW DRY CREEK	0	0	0	0	0	0	49	47	30	36	59	59	52	47	43	40	36	36	59	60	59	60	69	71	77	90	88	72	87	87		1480
NEW YORK CANAL (B. OF C.)	2337	2393	2393	2399	2352	2352	2352	2352	2250	2301	2352	2060	1858	1858	1954	1944	1973	1954	1954	2031	2125	2331	2487	1657	2577	2573	2573	2573	2606		67,275	
PALMA	43	43	28	28	28	28	28	28	28	42	42	42	42	42	42	42	8	8	8	8	8	8	14	14	14	14	14	14	14		730	
PENITENTIARY	8	8	6	2	4	4	4	4	6	6	4	4	5	6	5	6	5	6	6	8	9	9	10	10	10	10	10	10	10		207	
PHILLIS	370	346	333	346	344	338	360	366	335	293	356	319	336	336	349	344	350	381	377	383	400	446	448	473	497	524	524	507		81,487		
RIDENBAUGH	518	519	519	521	519	517	526	531	526	528	530	526	520	512	517	517	523	530	535	526	521	521	521	523	521	521	549	551		15,744		
RIVERSIDE	260	260	257	244	238	230	247	263	265	214	265	250	279	252	245	238	232	230	245	221	218	214	227	213	221	230	226	230	230	240		2244
ROEDEL																															0	
ROSSI HILL	10	7	7	11	11	7	7	8	7	7	8	8	6	5	8	6	6	6	9	9	9	8	12	14	7	7	7	7	7		237	
SEBREE (FARMERS CO-OP)	196	215	219	219	255	280	283	283	80	81	145	188	153	85	80	85	94	124	213	168	228	317	303	339	403	403	428	394	397		6877	
SETTLERS	127	139	127	132	135	133	146	144	144	142	142	144	132	137	139	142	145	148	147	150	160	166	169	167	170	177	177	179	179		4493	
SEVEN SUCKERS	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	3	3	2	2		25	
SIERENBERG	8	8	8	8	8	8	8	8	8	11	11	11	11	11	11	11	4	4	4	4	4	4	11	11	11	11	11	11	11		254	
THURMAN HILL	39	39	39	39	39	39	39	31	31	31	31	31	31	31	29	29	29	29	29	29	35	35	35	35	35	35	35	36	36		1010	
UPPER CENTER POINT	11	11	20	20	20	20	20	20	20	14	14	14	14	14	14	14	7	7	7	7	7	7	16	16	16	16	16	16	16		421	
WARM SPRINGS DITCH	8	8	8	8	8	8	8	7	7	7	7	7	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		185	
TOTAL CANAL DIVERSIONS	4761	5068	5019	5021	4978	5024	5101	5042	4842	4803	4731	5043	4591	4247	4218	4305	4175	4235	4376	4377	4459	4603	5016	5203	4408	5473	5507	5576	5574	5589	145,733	
MISCELLANEOUS																															467	
TOTAL DIVERSIONS																															146,200	

CHART NO. 5

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
AIRER	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	110
ANDREWS	8	8	8	8	8	8	8	15	15	15	15	15	15	15	7	7	7	7	7	7	7	18	18	18	18	18	18	18	21	21	21	339
BALLENTINE	18	18	18	18	18	18	18	18	18	18	18	18	17	17	17	17	17	17	17	19	19	19	19	19	19	19	18	18	18	18	558	
BAXTER	7	7	7	7	7	7	7	9	9	9	9	9	9	9	15	15	15	15	15	15	15	16	16	16	16	16	16	16	7	7	7	350
BOISE CITY	33	33	33	33	33	33	34	34	34	34	34	34	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	30	30	987
BOWMAN-SWISHER	19	19	19	19	19	19	19	9	9	9	9	9	9	9	14	14	14	14	14	14	14	11	11	11	11	11	11	11	8	8	8	395
BUBB (SOUTH BOISE MUTUAL)	12	12	12	12	12	11	11	11	11	11	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	14	14	14	14	14	342
CALDWELL HIGH LINE	47	49	51	51	49	53	51	46	45	49	48	47	45	42	38	45	45	48	45	48	51	45	50	48	50	55	50	40	41	50	50	1472
CAMPBELL (CANYON)	27	27	27	27	27	27	24	24	24	24	24	24	24	26	26	26	26	26	26	26	29	29	29	29	29	29	28	28	28	28	827	
CANYON COUNTY	79	80	82	82	79	85	72	70	69	70	69	71	71	68	65	62	77	81	80	82	90	89	88	87	86	86	84	97	88	68	68	2425
CONWAY-HANNING	5	5	5	5	5	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	129
DAVIS DITCH	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	10	10	10	10	10	277
EUREKA #2	110	110	110	110	110	110	110	119	119	119	119	119	119	119	117	117	117	117	117	117	117	119	119	119	119	119	119	124	124	124	3627	
FARMERS UNION	247	249	249	249	249	236	234	236	226	226	228	228	234	244	231	231	234	231	239	233	236	226	218	218	218	221	221	229	213	213	201	7148
GRAHAM-GILBERT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	93
HAAS	12	12	12	12	12	12	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	14	14	14	308	
HART-DAVIS	11	11	11	11	11	11	11	11	11	11	11	11	9	9	9	9	9	9	9	11	11	11	11	11	11	11	11	11	11	11	11	327
ISLAND HIGH LINE	37	37	37	37	37	37	37	58	58	58	58	58	58	58	37	37	37	37	37	37	37	45	45	45	45	45	45	41	41	41	1362	
LEMP	6	6	6	6	6	5	5	5	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	127	
LITTLE PIONEER	26	26	26	26	26	26	36	36	36	36	36	36	36	36	26	26	26	26	26	26	37	37	37	37	37	37	28	28	28	28	28	961
LOWER CENTER POINT	30	30	30	30	30	30	30	22	22	22	22	22	22	22	23	23	23	23	23	23	23	33	33	33	33	33	33	34	34	34	858	
NACE-CATLIN	16	16	16	16	16	12	12	12	12	12	12	12	7	7	7	7	7	7	7	5	5	5	5	5	5	5	2	2	2	2	2	258
NACE-NACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	57	
NAMMOM	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7	7	7	7	7	7	7	7	7	7	7	7	7	10	10	10	268	
MCCONNELL ISLAND	50	50	50	50	50	50	50	57	57	57	57	57	57	57	41	41	41	41	41	41	41	43	43	43	43	43	43	43	43	43	1466	
MCMAHUS & TEATER	10	10	10	10	10	10	10	4	4	4	4	4	4	4	5	5	5	5	5	5	5	6	6	6	6	6	6	8	8	8	193	
MIDDLETON	170	171	181	177	176	183	168	164	150	143	140	155	144	164	164	164	165	101	156	156	149	147	149	152	153	158	162	136	141	137	132	4808
NEW DRY CREEK	87	87	77	76	76	81	66	65	65	64	63	65	76	79	76	76	80	82	80	81	81	80	73	71	71	70	70	69	69	67	2304	
NEW YORK CANAL (B. OF C.)	2640	2685	2702	2702	2702	2702	2651	2640	2590	2551	2551	2551	2551	2562	2557	2557	2595	2595	2595	2601	2601	2601	2590	2568	2513	2513	2513	2461	2467	2546	no, 166	
PARMA	17	17	17	17	17	17	28	28	28	28	28	28	28	28	7	7	7	7	7	7	7	17	17	17	17	17	17	26	26	26	561	
PEHNTIARY	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	313	
PHYLLIS	509	503	511	515	515	541	479	479	481	444	446	448	451	444	444	444	435	412	412	410	442	404	404	404	404	404	427	434	433	431	425	13,735
RIDENBAUGH	544	547	547	551	544	545	537	537	515	530	523	521	530	533	533	533	533	530	530	523	523	523	526	523	523	523	518	514	514	517	519	16,408
RIVERSIDE	239	236	235	244	252	266	284	242	247	245	241	252	258	250	239	245	261	261	249	249	252	252	253	247	244	244	219	250	250	249	7735	
RODELL																															0	
ROSSI HILL	7	9	9	5	9	9	9	9	9	9	9	10	8	10	10	10	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	270
SEBREE (FARMERS CO-OP)	381	385	397	400	409	363	318	303	295	289	280	278	278	280	275	237	237	258	250	250	250	283	289	286	289	280	280	273	283	281	295	9308
SETTLERS	180	180	182	181	180	179	180	180	179	181	178	179	179	172	183	186	185	187	187	190	185	187	187	187	187	182	182	181	183	187	5664	
SEVEN SUCKERS	2	2	2	2	2	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	0	0	0	0	0	0	2	2	2	2	2	41
SIEBENBERG	10	10	10	10	10	10	10	8	8	8	8	8	8	8	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	269	
THURMAN HILL	36	36	36	36	36	37	37	37	37	37	37	37	30	30	30	30	30	30	30	35	35	35	35	35	35	35	33	33	33	33	1059	
UPPER CENTER POINT	19	19	19	19	19	19	19	10	10	10	10	10	10	10	11	11	11	11	11	11	12	12	12	12	12	12	12	25	25	25	439	
WARM SPRINGS DITCH	5	5	5	5	5	5	5	5	5	5	5	5	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	209	
TOTAL CANAL DIVERSIONS	5676	5745	5787	5801	5804	5800	5613	5543	5453	5393	5358	5387	5392	5407	5319	5293	5360	5297	5334	5336	5440	5411	5399	5373	5306	5310	5322	5300	5261	5253	5326	168,815
MISCELLANEOUS																															570	
TOTAL DIVERSIONS																																169,385

CHART NO. 5

[illegible]

DISCHARGE IN SECOND FEET OF BOISE VALLEY CANALS
BY DAYS DURING THE IRRIGATION SEASON OF 1981, INCLUDING STORAGE
SEPTEMBER

CHART NO. 5

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
AIKEN	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
ANDREWS	14	12	12	12	12	12	12	12	13	13	13	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	11	11	11	11	87
BALLANTINE	17	17	17	17	17	17	17	17	17	17	17	17	17	17	15	15	15	15	15	15	15	12	12	12	12	12	12	11	11	11	11	337
BAUER	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	5	5	5	5	5	5	5	7	7	7	7	7	7	7	7	8	
BOISE CITY	30	30	30	30	30	30	30	30	30	30	30	30	30	26	26	26	26	26	26	26	26	26	26	26	26	26	26	20	20	20	20	871
BONNAR-TWISHER	13	13	13	13	13	13	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
BURR (SOUTH BOISE MUTUALS)	9	9	9	9	9	9	9	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	
CALDWELL HIGH LINE	47	45	45	45	45	44	44	44	48	51	47	49	51	48	45	51	48	45	44	44	45	45	46	45	46	46	47	34	37	36	1363	
CAMPBELL (CANYON)	30	30	30	30	30	30	30	31	31	31	31	31	31	31	20	20	20	20	20	20	21	21	21	21	21	21	21	14	14	14	14	
CANYON COUNTY	66	63	64	65	67	66	68	71	74	58	43	43	43	42	38	44	41	44	44	40	34	33	35	34	30	46	45	43	40	40	40	1574
CONANT-HARRING	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	
DAVIS (SHEEN)	10	10	10	10	10	10	9	9	9	9	9	9	9	10	10	10	10	10	10	10	9	9	9	9	9	9	9	8	8	8	8	
EUREKA & FARMERS UNION	101	103	103	103	103	103	103	103	105	105	105	105	105	105	105	105	105	105	105	105	105	115	115	115	115	115	115	115	115	108	108	
GRAHAM-GILBERT	187	177	179	177	175	169	167	169	169	164	169	169	169	167	165	163	158	164	163	163	153	147	155	147	164	155	152	124	130	130	130	
	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	3	3	3	3	3	3	3	0	0	0	0	
HARRIS	16	13	13	13	13	13	13	13	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
HART-DAVIS	9	9	9	9	9	9	9	9	9	9	9	9	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5	5	5	5	
ISLAND HIGH LINE	22	13	13	13	13	13	13	13	42	42	42	42	42	42	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
LEMP	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	4	4	4	4	4	4	4	2	2	2	2	
LITTLE PIONEER	37	37	39	39	39	39	39	39	20	20	20	20	20	20	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	
LOWER CENTER POINT	40	43	43	43	43	43	43	43	45	45	45	45	45	45	45	45	45	45	45	45	45	45	42	42	42	42	42	42	42	42	42	
MACE-CATLIN	14	14	14	14	14	14	14	9	9	9	9	9	9	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	
MACE-MACE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	
MAHON	6	10	10	10	10	10	10	10	3	3	3	3	3	3	3	10	10	10	10	10	10	10	6	6	6	6	6	6	6	6	6	
MC CONNEL ISLAND	34	17	17	17	17	17	17	17	38	38	38	38	38	38	33	33	33	33	33	33	33	33	34	34	34	34	34	34	34	34	34	
MCNAMUS & TEATER	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	
MIDDLETON	97	101	101	114	110	105	105	86	84	84	82	81	81	81	76	72	72	78	78	78	79	77	76	70	67	66	65	63	65	73	72	
NEW DRY CREEK	54	43	56	49	45	43	43	43	43	43	43	43	43	43	43	38	49	56	52	47	43	40	40	40	38	38	36	45	50	50	50	
NEW YORK CANAL (N. OF C.)	2245	2190	2200	2205	2215	2205	2205	2205	2205	2190	2190	2195	2200	2200	2200	2200	2215	2215	2205	2215	2205	2205	2205	2205	2205	2205	2135	2135	2145	2145	2075	
PADMA	11	27	27	27	27	27	27	27	26	26	26	26	26	26	26	10	10	10	10	10	10	10	13	13	13	13	13	13	13	13	15	
PENITENTIARY	8	8	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	
PHYLLIS	316	309	309	289	287	287	289	297	297	232	232	232	234	237	229	230	230	232	232	230	208	211	194	187	187	187	149	146	145	144	144	
RIDENBAUGH	496	496	496	496	486	479	481	482	469	467	469	472	472	451	451	446	445	446	442	445	452	451	452	448	437	436	430	427	430	410	410	
RIVERSIDE	242	235	237	237	238	242	257	245	232	233	236	233	230	232	230	226	230	238	242	238	249	242	244	244	252	252	258	258	241	236	236	
RODELL																																
ROSSE HILL	7	7	7	7	7	7	7	6	6	7	7	7	7	7	7	8	6	6	7	7	6	7	7	6	7	7	7	7	7	7	6	
SEBREE (FARMERS CO-OP)	239	238	250	244	246	244	244	241	244	226	226	226	224	215	206	203	203	203	203	201	205	205	205	203	198	215	203	203	203	201	201	
SETTLERS	131	130	130	130	132	130	132	132	132	132	130	130	130	119	119	119	118	119	117	117	118	116	119	116	115	110	106	105	107	85	85	
SEVEN SUCKERS	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
SIENBERG	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	
THURMAN HILL	30	30	30	30	30	30	30	30	30	30	30	30	30	28	28	28	28	28	28	28	28	28	28	28	28	28	28	22	22	22	22	
UPPER CENTER POINT	18	15	15	15	15	15	15	15	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
WARM SPRINGS DITCH	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	
TOTAL CANAL DIVERSIONS	4660	4558	4572	4563	4559	4523	4527	4498	4508	4429	4379	4390	4384	4337	4297	4265	4250	4294	4238	4286	4282	4248	4258	4228	4233	4158	4081	4006	4021	3861	3861	
MISCELLANEOUS																																
TOTAL DIVERSIONS																																

CHART NO. 5

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	
AIREN	2	2	2	2	2	2	2	2	2	2	2																					22	
ANDREWS	8	8	8	8	8	8	10	10	10	10	10	10	10																			118	
BALLENTYNE	11	11	11	11	12	12	12	12	12	12	12	12	12	12	12																	176	
BAXTER	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7																111	
BOISE CITY	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																300	
BONMAN-SMISHER																																0	
BUBB (SOUTH BOISE MUTUAL)	5	5	5	5	4	4	4																									3	
CALDWELL HIGH LINE	37	36	36	39	39	37	37	41	39	41	39	42	41	39																		543	
CAMPBELL (CANYON)	14	14	14	14	14	11	11	11	11	11	11	11	11																			147	
CANYON COUNTY	40	40	40	34	34	32	32	34	30	30	31	31																				408	
CONWAY-HAMING	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																	30	
DAVIS DI ICH	8	8	8	8	8	8	8							2	2	2	2	2														56	
EUREKA #2	101	101	101	101	101	101	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	1469	
FARMERS UNION	122	122	122	122	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	1395	
GRAHAM-GILBERT	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	22	
HAS	0	0	0	0	0	0	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	63	
HART-DAVIS	5	5	5	5	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	64	
ISLAND HIGH LINE	46	46	46	46	46	46	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	727	
LEMP	2	2	2	2																												8	
LITTLE PIONEER	17	17	17	17	17	16	16	16	16	16	16	16	16																			127	
LOWER CENTER POINT	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10																	138	
MACE-CATLIN	0	0	0	0	3	3	3	3	3	3	3																					23	
MACE-MACE																																0	
MANNION	10	10	10	10	10	10	3	3	3	3	3	3	3	3	3	3																81	
McCOMEL ISLAND	34	34	34	34	34	34	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	528	
McNAMUS & TEATER	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4																58	
MIDDLETON	71	68	66	64	65	63	64	65	64	63	63	61	61																			838	
NEW DRY CREEK	47	54	52	50	50	53	56	43																								348	
NEW YORK CANAL (B. OF C.)	2075	2031	2031	2041	2031	2041	1963	475																								14,688	
PARMA	15	15	15	15	15	15	20	20	20	20	20	20	20	20	20																	230	
PENITENTIARY	3	3	3	3	2	2	2																									18	
PHYLLIS	144	146	146	146	146	145	144	144	144	144	144	144	144	144	144																	2025	
RIDENBAUGH	410	410	413	395	393	393	393																									2807	
RIVERSIDE	227	235	232	230	233	233	242	247	229	218	281	218	218	226	221																	3430	
ROEDEL																																0	
ROSSI HILL	6	6	6	6	6	7	9	8	8	6	6	6																				80	
SEBREE (FARMERS CO-OP)	162	162	162	157	157	97	97	98	97	97	97	97	97	97	98	98																1773	
SETTLERS	57	56	56	56	55	55	55																									370	
SEVEN SUCKERS	0	0	0	0	0	1	1	1	1	1	1																					7	
SIERENBERG	9	9	9	9	9	9	9	9	9	9	9	9	9																			117	
THURNAN HILL	22	22	22	22	23	23	23	23																								180	
UPPER CENTER POINT	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	213	
WARM SPRINGS DI ICH	3	3	3	3	3	3	3	3	3	3	3																					33	
TOTAL CANAL DIVERSIONS	3771	3779	3735	3719	3665	3605	3551	1623	1645	1633	1632	798	933	818	630																	33,891	
MISCELLANEOUS																																120	
TOTAL DIVERSIONS																																	34,011

TABLE IN ACRE FEET, SHOWING TOTAL
MONTHLY CANAL DIVERSIONS FROM THE BOISE RIVER
DURING THE IRRIGATION SEASON OF 1981

CHART NO. 6

NAME OF CANAL	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	TOTAL
AIKEN	0	268	44	220	190	174	44	940
ANDREWS	112	900	1434	798	1106	674	236	5260
BALLENTYNE	252	1228	1066	1116	1128	886	352	6028
BAXTER	176	690	524	700	636	514	222	3462
BOISE CITY	632	1962	2050	1974	1890	1640	600	10748
BOWMAN SWISHER	0	464	386	790	416	208	0	2264
BUBB(SOUTH BOISE MUTUAL)	224	364	678	694	648	404	64	3076
CALDWELL HIGHLINE	1240	2924	3160	2944	3080	2726	1086	17160
CAMPBELL (CANYON DITCH)	698	1620	1616	1654	1806	1484	294	9172
CANYON COUNTY	554	3548	3976	4850	4222	3148	816	21114
CONWAY-HAMMING	0	170	90	258	190	174	60	942
DAVIS DITCH	0	478	568	554	606	560	112	2878
EUREKA #2	2852	6320	6200	7254	7048	6396	2938	39008
FARMERS UNION	1794	11128	12802	14296	12656	9638	2790	65104
GRAHAM-GILBERT	0	186	96	186	186	120	44	818
HAAS	40	770	722	616	864	494	126	3632
HART-DAVIS	160	690	730	654	566	460	128	3388
ISLAND HIGHLINE	610	3404	4054	2724	2062	1914	1454	16222
LEMP	0	382	178	254	274	174	16	1278
LITTLE PIONEER	528	1898	1698	1922	2366	1650	394	10456
LOWER CENTER POINT	868	2122	2042	1716	2208	2546	276	11778
MACE-CATLIN	0	644	428	516	484	476	42	2570
MACE-MACE	0	0	0	114	102	14	0	230
MAHMON	42	340	292	536	432	438	162	2242
MCCONNEL ISLAND	1204	2906	2284	2932	2670	1844	1056	14896
MCMAHUS & TEATER	64	68	28	398	350	242	116	1266
MIDDLETON	3008	9114	8982	9616	7598	4944	1676	44938
MISCELLANEOUS	208	844	934	1140	1074	1008	240	5448
NEW DRY CREEK	782	3862	2960	4608	4178	2664	696	19750
NEW YORK CANAL(S. OF C.)	54906	130490	134550	160332	154522	131500	29376	795676
PARMA	600	1170	1460	1122	844	1116	460	6772
PENITENTIARY	0	452	414	626	568	372	36	2468
PHYLISS	8876	23806	22974	27870	25530	14016	4050	127122
RIDENBAUGH	10996	31020	31488	32816	32050	27524	5614	171508
RIVERSIDE	8948	14666	14488	15470	14900	14368	6860	89700

TABLE IN ACRE FEET, SHOWING TOTAL
MONTHLY CANAL DIVERSIONS FROM THE BOISE RIVER
DURING THE IRRIGATION SEASON OF 1981

CHART NO. 6

NAME OF CANAL	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	TOTAL
ROSSI MILL	234	628	544	610	510	478	196	3200
SEBREE (FARMERS COOP)	3594	12358	13754	18616	19044	13214	3546	84126
SETTLERS	0	7960	8986	11328	10504	7252	780	46810
SEVEN SUCKERS	0	124	50	82	92	56	14	418
SIEBENBERG	48	484	508	538	536	568	234	2916
THURMAN MILL	766	2156	2020	2118	1886	1696	360	11002
UPPER CENTER POINT	336	888	842	878	1298	906	426	5574
WARM SPRINGS DITCH	232	514	370	400	388	274	66	2244
TOTAL	105,584	286,010	292,470	338,840	323,708	260,954	68,058	1,675,624

THIS CHART SHOWS ONLY THE CANALS WHICH HAVE HEADINGS FROM THE BOISE RIVER.

SOME CANALS DIVERT THEIR WATER THROUGH ANOTHER CANAL.

CHARTS #7 AND #8 SHOW ACTUAL AMOUNT DIVERTED BY EACH DECREED CANAL OR USER.

MISCELLANECUS IS A GROUP OF INDIVIDUAL USERS.

BOISE RIVER CANAL DIVERSIONS IN ACRE FEET

EXHIBIT NO. 1

BEGINNING 1967

NAME OF CANAL	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
AIKEN		1212	1122	1336	914	1112	1320	1212	626	1236	1034	966	1294	886	940
ANDREWS		8042	7708	9240	7670	7878	7302	8238	7442	5022	7658	5176	6598	6062	5060
BALLENTYNE	5148	4518	6284	6040	6418	6108	6364	6468	5964	6108	5418	5734	6030	6138	6028
BAXTER		4460	3210	4100	4966	4464	5042	4180	4364	4706	4182	3470	4842	5322	3462
BOISE CITY	9812	10430	11110	10552	12238	12438	11614	12338	12038	11418	8840	9554	8866	9528	10748
BOISE VALLEY															
BOONE	19988	19124	20338	17462	17346	19494	19840	20544	12878	13273	16392	18172	18352	15712	15714
BOWMAN-SHEPHER			106	0	0	0	0	0	0	0	0	0	0	0	0
BURB (SOUTH BOISE MUTUAL)	5390	3474	9038	2044	3664	2936	3506	3028	2840	2560	4038	3182	2714	2748	2964
CALDWELL HIGH LINE	21440	17308	19044	16440	15438	16336	16534	15592	17088	16270	18330	17704	17538	18342	17160
CAMPBELL (CANYON)	9344	9336	11258	11054	12100	12838	10334	17818	9874	9248	5706	6226	7036	7050	7172
CANYON COUNTY WATER CO	24268	22428	24682	27386	26078	26794	26026	23998	22876	22866	19552	20054	21240	21602	21114
CAPITAL VIEW IRRIG. DIST.	2072	2142	2730	2440	2222	2524	2450	2524	2208	2448	2778	2222	1648	2614	2204
CONWAY-HAMMING		1238	1304	832	674	782	1074	732	714	846	874	670	1072	778	742
DAVIS DITCH	3834	4680	4124	4038	3762	3978	3584	3710	2722	2748	2660	2794	3152	2670	2878
EUREKA WATER CO. #1	7374	8456	10568	10672	10236	9398	10890	10412	9670	6738	7666	8030	7036	9540	8708
EUREKA #2	32866	36868	31052	32932	33338	39478	37924	36616	37044	31344	27596	33180	34712	36556	39008
FARMERS UNION	31008	49316	52636	53180	56308	54104	54050	56640	59926	61029	45492	48662	48618	46886	46886
GRAHAM-GILBERT		648	676	334	294	386	1022	522	606	566	818	464	900	606	818
HAAS		4894	3330	4058	4084	4156	4962	4280	4586	4674	4944	3914	4412	4068	3632
HART-DAVIS		5776	4382	3702	2782	2622	3320	2618	2746	2736	2458	2226	3642	3862	3382
ISLAND HIGH LINE		13914	13988	15830	12972	13418	14308	15338	13696	15138	13014	12614	15182	14834	16222
LEMP		2980	1504	2174	840	1168	1880	1118	954	926	1064	1134	1416	1012	1238
LITTLE PIONEER	11282	9114	14032	16536	12964	13410	12994	14238	9730	10226	8506	9800	7652	11722	10456
LOWER CENTER POINT	12702	11292	8676	9668	9370	10638	10628	15172	11428	10738	12510	9600	11288	10532	11738
MACE-CATLIN		2428	2408	2802	2584	2788	3670	2552	2242	2042	2786	2470	2886	2130	2570
MACE-MACE		1114	814	738	372	324	716	590	434	282	246	424	374	382	270
MANNON		1162	1384	1704	2020	1802	1672	1624	1630	2132	2138	1774	2460	2562	2542
MCCONNELL ISLAND		10832	12894	13308	13182	12934	9700	17442	12582	14472	12382	12336	12682	18888	14886
MCMAHUS AND TEATER		1340	1364	1136	1112	1424	1364	1774	1244	1976	2224	1356	1288	1138	1266
MEEVES #1		612	690	846	570	740	664	766	626	780	0* (INCL. IN MUSC.)	0	0	0	0
MEEVES #2					250	252	48	158	146	604	0* (INCL. IN MUSC. WELL)	0	0	0	0
MIDDLETON WATER CO.	27928	29133	31028	32880	30584	31542	29992	30628	30801	28636	28130	22344	24554	21206	26064
MIDDLETON HILL DITCH	20224	21097	22468	23810	22436	22845	21323	22138	21725	20736	18922	16180	19722	21326	18834
MISCELLANEOUS	5962	6102	9960	2378	2650	2222	2706	2624	3378	3386	4524	4974	4934	4738	5848
NEW DRY CREEK	19088	19964	21764	19110	19590	17346	17840	15492	16512	17838	17060	15324	16216	16488	15708
NEW UNION	3158	3118	4024	4002	4434	4762	4720	4690	4214	4130	3836	4492	3932	4172	3832
NEW YORK CANAL (R. OF C.)	904206	853014	930288	885602	947652	868444	851016	937782	878184	817866	933510	877472	834272	828612	719616
PANAMA		2462	6984	4678	8402	8426	7652	6388	5884	7660	7136	5090	6530	5986	6772
PART TERTIARY	1954	2114	2008	2342	2790	2404	3136	3006	2482	2886	1890	1898	3014	2080	2468
PAVILLAS	125038	105540	132490	128090	128064	132206	128328	124672	119654	134324	51782	115042	128184	127064	118414
PIONEER DITCH	24306	24766	23614	27300	22800	23856	30362	25380	26846	28324	26888	25040	28638	28114	25874
RICHMOND	134206	165182	172208	175224	176318	181550	173026	175218	165532	168880	121878	168840	159318	157322	171908
RICHMOND	57036	54890	51396	45538	57780	60620	60728	59162	50796	51280	53778	51084	57386	56796	51816
ROSE		1280	610	608	800	312	88	0	0	0	0	0	0	0	0

BOISE RIVER CANAL DIVERSIONS IN ACRE FEET

PAGE NO. 7

BEGINNING 1967

NAME OF CANAL	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	TOTAL
BOISE MILL (SOUTH BOISE CANAL)	3232	3082	3478	3212	3428	3340	3244	3326	3188	2844	2398	3122	3208	2814	3700
SEAROE (FARMERS CO-OP)	105780	101228	94108	91792	95330	96446	98550	98716	88182	88328	64128	86108	89102	88862	84126
SE TILERS	52424	51430	51930	55430	56316	53818	51838	55072	47994	48144	43350	46356	47382	44608	46810
SIXEN DITCHES		1330	788	664	768	602	470	420	572	548	458	318	428	448	418
SIEBENBERG	4280	3736	4378	4756	3318	3938	3724	4478	3450	3724	3312	2604	2774	3610	2716
THURMAN MILL	10312	10198	11564	9102	9642	10608	10330	8520	8844	8738	9706	8462	10440	10298	11002
UPPER CENTER POINT	5270	5518	5186	5322	5094	6136	6944	6830	6772	6474	6986	7652	6422	5710	5524
WARM SPRINGS DITCH		2558	2116	1528	1936	1658	1910	1650	2432	1734	2114	1304	2034	2058	2284
TOTAL SUMMER DIVERSIONS	1785410	1755632	1870648	1810684	1882374	1872428	1790102	1900080	1756648	1772194	1292966	1664534	1704888	1605530	16,675,624
STORAGE WATER USED		581725	555489	471312	418822	422038	461186	475174	418205	500326	374749	400988	619728	495314	6,066,96
SUMMER RETURN FLOW USED	428878	253699	385530	425236	485686	483054	236478	451392	446230	473054	325246	437078	373622	464390	4,602,30
NATURAL FLOW USED IRRIGATION SEASON		920210	929629	916136	977866	927336	1092238	973514	892213	796068	386404	826548	780688	745526	6,843,88
FLOOD CONTROL & OTHER LOSS TO IRRIGATION SEASON	0	0	299554	324006	909339	823660	0	1998234	459022	485244	0	432945	0	384070	2,741,60
LOSS TO THE BOISE RIVER WAPPA		237060	783482	573559	1336242	1073714	(DELETE)								
OUTFLOW LUCKY PEAK RESERVOIR (APRIL 1 TO OCT. 31)				1823244	2541080	2266804	1400638	3046922	2215670	1784384	964690	1660401	1390416	1726590	12,473,514
FISH & GAME	37030	18992	10290	16126	12056	19554	19193	34046	42870	19340	27064	29100	38116	43100	42000
NEW YORK CANAL DIVERSIONS OTHER THAN IRRIGATION SEASON	93370	27416	0	4272	0	62902	100148	136988	38334	36242	0	128800	4176	70216	42160
FLOOD CONTROL AND OTHER LOSS TO THE SYSTEM TOTAL YEAR	0	0	709378	920626	1269314	1810036	0	1598234	593024	754804	0	478556	0	914820	2,741,60
TOTAL DIVERSIONS JANUARY 1 TO DECEMBER 31	1785410	1802040	1880938	1831082	1894430	1914884	1909445	2071114	1837852	1827776	1320030	1816434	1746340	1818886	17,258,784
TOTAL NATURAL FLOW JANUARY 1 TO DECEMBER 31	1487002	1364416	2519304	2293068	3361938	3080356	1378032	3147560	2498310	2028830	694759	2225652	1170710	2027524	14,487,964
TOTAL LOSS TO THE BOISE RIVER WAPPA		454788	1527244	1218344	2528166	2110052	(DELETE)								
TOTAL OUTFLOW LUCKY PEAK	1647352	1466906	2384296	2102898	3366002	3159410	1551496	3046022	2430876	2105326	997852	1877912	1369508	1814444	16,600,988

YEARS 1950 THRU 1966 IN PREVIOUS REPORTS

THE GEOLOGICAL SURVEY IS KEEPING RECORDS ON THE RIVER AT WAPPA AND THEY MAY BE OBTAINED FROM THEM.

TABLE SHOWING ACRE FEET PER ACRE DIVERTED BY BOISE VALLEY CANALS

CHART NO. 8

FOR EACH IRRIGATION SEASON FROM 1965
(ACREAGE TAKEN FROM CHART NO. 9)

NAME OF CANAL	ACRES IRRIGATED	1965	ACRES IRRIGATED	1966	1967	ACRES IRRIGATED	1968	ACRES IRRIGATED	1969	ACRES IRRIGATED	1970	ACRES IRRIGATED	1971	1972	1973	1974	1975
AIKEN						236	5.14	236	4.75	236	5.66	236	5.87	4.71	5.59	5.13	2.65
ANDREWS						1068	7.33	1068	7.22	1068	8.65	1068	7.18	7.38	5.34	7.71	6.77
BALLETNYE	763	9.04	763	6.99	6.73	763	5.92	763	8.84	763	7.92	763	8.41	8.01	8.34	8.47	7.82
BAXTER						200	2.23	200	16.05	200	20.50	200	24.83	22.30	25.21	20.90	21.82
BOISE CITY	1828	5.40	1828	5.67	5.37	1828	5.71	1828	6.08	1828	5.77	1828	6.69	6.80	6.35	6.76	6.59
BOISE VALLEY																	
BOONE	2729	5.78	2729	8.18	7.32	2729	7.01	2729	7.46	2729	6.40	2729	6.43	7.14	7.27	7.52	4.72
BOWMAN-SWISHER								517	.21	517	0	517	0	0	0	0	0
BUBB (SOUTH BOISE MUTUAL)						424	8.19	424	7.17	424	4.82	424	8.64	6.97	8.27	7.14	6.70
*CALDWELL HIGH LINE	1057	4.23	1057	4.63	5.10	1057	4.21	1057	3.88	1057	3.34	1057	3.91	8.90	3.15	3.77	3.16
	3960	3.27	3960	4.23	5.41	3960	4.37	3960	4.81	3960	4.15	3960	3.90	4.13	4.18	3.93	4.32
CAMPBELL (CANYON)	802	15.34	802	15.78	11.65	802	11.89	802	14.04	802	15.78	802	15.09	16.01	12.91	21.46	12.31
CANYON COUNTY	4007	6.30	4007	6.36	6.06	4007	5.60	4007	6.16	4007	6.83	4007	6.31	6.65	6.30	5.98	5.71
CAPITAL VIEW						600	3.57	600	4.55	600	4.07	600	3.70	4.21	4.08	4.20	3.68
CONWAY-HAMMING						239	4.78	239	5.03	239	5.21	239	2.60	3.08	4.15	2.82	2.36
DAVIS DITCH	634	7.10	634	6.99	6.03	634	7.38	634	6.30	634	6.37	634	5.93	6.27	5.65	5.85	4.29
EAGLE ISLANDS CANALS	2637	3.85	2134	6.26	6.93	(LISTED INDIVIDUALLY)											
EUREKA WATER CO. #1	1800	5.24	1800	6.00	4.21	1800	4.70	1800	5.87	1800	5.93	1800	5.69	5.22	6.05	5.38	5.37
EUREKA #2	2623	14.67	2623	16.48	12.52	2623	13.82	2623	11.83	2623	12.55	2623	12.78	15.04	14.45	13.54	12.20
FARMERS UNION	8300	6.98	8300	6.04	5.96	8300	5.34	8300	6.34	8300	6.41	8300	6.28	6.52	6.51	6.82	7.27
GRAHAM-GILBERT						200	5.24	200	3.38	200	2.67	200	1.47	1.53	5.11	2.61	3.09
HAAS						750	5.73	867	3.84	867	4.68	867	4.71	4.79	5.22	4.93	5.29
HART-DAVIS						453	12.75	453	9.67	453	8.17	453	6.14	5.79	7.33	5.77	6.06
ISLAND HIGH LINE						945	14.78	945	16.92	945	16.77	945	15.73	14.20	15.14	16.44	14.49
LEMP						300	5.53	300	5.01	300	7.23	300	2.80	3.89	6.27	3.22	3.18
LITTLE PIONEER	1286	10.53	1286	8.81	8.77	1286	7.09	1286	10.91	1286	12.86	1286	10.08	10.43	10.10	11.07	7.22
LIMER CENTER POINT	880	11.47	880	16.13	14.43	880	12.83	880	9.86	880	10.99	880	10.65	12.09	12.08	14.96	12.99
MACE-CATLIN						336	4.53	336	4.49	336	5.23	336	4.82	5.20	6.85	4.76	4.18
MACE-MACE						80	13.93	80	10.18	80	9.48	80	4.65	4.05	8.95	4.87	5.43
MADISON						168	6.92	168	2.96	168	5.64	168	4.32	3.85	3.57	3.47	3.37
McDONNELL ISLAND						1600	6.77	1600	8.06	1600	9.36	1600	8.24	8.08	6.06	10.90	7.86
MURKINS & HATER						168	7.98	168	9.31	168	6.88	168	6.62	8.48	9.31	10.55	7.40
NEEVES #1						90	6.80	90	7.67	90	9.40	90	7.81	10.14	9.10	10.49	8.98
NEEVES #2						73		73		73		73					
MIDDLETON IRRIG. ASSOC.	5182	5.89	5182	6.81	5.37	5182	5.62	5182	5.99	5182	6.33	5182	5.98	6.09	5.79	5.91	5.73
MIDDLETON HILL	4400	5.02	4400	5.12	4.60	4400	4.80	4400	5.11	4400	5.41	4400	5.10	5.19	4.94	5.04	4.94
MISCELLANEOUS	511	7.85	1428	6.74	5.53	957	6.38	8610	3.82	763	5.12	763	3.47	29.10	3.55	3.43	4.43
NEW IRY CREEK	3059	7.21	3059	6.61	6.24	3059	6.33	3059	7.11	3059	6.25	3059	6.44	5.67	5.83	6.37	5.40
NEW UNION	688	6.96	688	7.30	7.30	688	7.44	688	3.85	688	5.82	688	6.50	6.19	6.86	6.81	6.13
NEW YORK CANAL (R. OF C.)	164734	5.23	164729	5.33	5.31	164617	5.21	164617	5.65	164617	5.38	164617	5.76	5.28	5.17	5.70	5.34
PADMA						602	12.40	602	11.60	602	14.42	602	13.96	14.00	12.71	10.61	9.44

FOR EACH IRRIGATION SEASON FROM 1965
(AVERAGE TAKEN FROM CHART NO. 9)

NAME OF CANAL	ACRES IRRIGATED	1965	ACRES IRRIGATED	1966	1967	ACRES IRRIGATED	1968	ACRES IRRIGATED	1969	ACRES IRRIGATED	1970	ACRES IRRIGATED	1971	1972	1973	1974	1975
PENITENTIARY	381	7.77	433	6.28	4.51	381	6.39	381	6.26	381	7.30	381	8.69	7.49	10.14	9.36	8.78
PHILLIS	24368	5.33	24368	5.23	5.13	24368	4.33	24368	5.44	24368	5.26	24368	5.26	5.43	4.54	5.11	4.41
PIONEER DITCH	2030	10.48	2030	11.52	11.98	2030	12.20	2030	7.87	2030	7.90	2030	7.60	7.35	10.12	9.73	8.78
RIDEMANSON	25747	6.65	25747	6.34	6.48	25747	6.30	25747	6.39	25747	6.33	25747	6.38	6.77	6.54	6.51	6.08
RIVERSIDE	10645	4.83	10645	5.18	5.36	10645	5.10	10645	4.82	10645	4.09	10645	5.43	6.54	5.30	5.55	4.95
RODEL						160	11.13	160	3.81	160	5.80	160	5.00	1.93	.55	0	0
ROSSI HILL	300	6.94	300	6.48	6.46	300	6.16	300	6.96	300	6.42	300	6.86	6.68	6.49	6.65	6.38
SEMYER (FARMERS CO-OP)	15500	6.23	15500	7.33	6.88	15500	6.33	15500	6.07	15500	5.98	15500	6.13	6.22	6.36	6.38	5.71
SETTLERS	12282	4.14	12282	4.67	4.27	12282	4.19	12282	4.23	12282	4.51	12282	4.59	4.38	4.22	4.48	3.91
SEVEN SUCKERS						70	19.00	70	11.26	70	9.49	70	10.89	8.60	6.71	6.00	8.17
SIEBENSING	646	6.07	646	8.33	6.63	646	5.78	646	6.78	646	7.36	646	5.12	6.10	5.76	6.33	5.34
THURMAN HILL	1799	5.78	1799	5.67	5.84	1799	5.67	1799	6.43	1799	5.06	1799	5.36	5.90	5.74	4.73	4.97
UPPER CENTER POINT	641	9.05	641	10.63	8.22	641	8.61	641	8.09	641	8.30	641	7.93	9.57	10.83	10.65	10.56
WARM SPRINGS DITCH						494	5.18	494	4.28	494	3.89	494	3.98	3.36	3.87	3.34	4.97
TOTALS	307955	5.69	308604	5.88	5.79	314378	5.58	318135	5.88	316888	5.72	316297	5.95	5.79	5.66	6.00	5.55

* FRANKLIN DITCH COMPANY AND MASON CREEK DITCH COMPANY LANDS ONLY. THE BALANCE OF THE LAND UNDER THE CALDWELL HIGH LINE IS IRRIGATED WITH WATER DIVERTED FROM MASON DRAIN AND FIVE MILE CREEK.
1947 THRU 1964 CAN BE FOUND IN PREVIOUS ANNUAL REPORTS.
THE USE OF WATER PER ACRE IS A GROSS FIGURE, FOR A NET FIGURE TO THE LAND ALLOW ABOUT 35% LOSS.

TABLE SHOWING ACRE FEET PER ACRE DIVERTED BY BOISE VALLEY CANALS

CHART NO. A

FOR EACH IRRIGATION SEASON FROM 1965
(ACREAGE TAKEN FROM CHART NO. 9)

NAME OF CANAL	ACRES IRRIGATED	1976	ACRES IRRIGATED	1977	ACRES IRRIGATED	1978	1979	1980	1981
AIKEN	236	5.32	236	4.38	236	4.09	5.48	3.75	3.98
ANDREWS	1068	4.70	1068	7.17	1068	4.85	6.18	5.68	4.93
BALLENTYNE	763	8.01	763	7.10	763	4.37	7.96	8.04	7.90
BAXTER	200	23.53	200	20.71	200	17.35	24.21	26.61	17.31
BOISE CITY	1828	6.25	1828	4.84	1828	5.23	4.85	5.25	5.88
BOISE VALLEY	2727	4.86	2727	6.01	2727	6.66	6.72	5.76	5.84
BOONE	517	.00	517	0	517	0	0	0	0
ROMMAN-SWISHER	424	6.04	424	9.52	424	7.50	6.40	6.48	5.34
BURR (SOUTH BOISE MUTUAL)	1057	3.78	1057	2.96	1057	3.99	4.11	3.00	2.91
*CALDWELL HIGH LINE	3960	4.11	3960	4.63	3960	4.47	4.43	4.63	4.33
CAMPBELL (CANYON)	802	11.53	802	7.11	802	7.76	11.27	11.28	11.44
CANYON COUNTY	3957	5.78	3957	4.94	3957	5.07	5.37	5.46	5.34
CAPITAL VIEW	600	4.08	600	4.63	600	3.70	2.75	4.36	3.81
CONWAY-HAMMING	257	3.27	257	3.37	257	2.59	4.14	3.08	3.64
DAVIS DITCH	634	4.33	634	4.20	634	4.41	4.97	4.24	4.54
EAGLE ISLAND CANALS (LISTED INDIVIDUALLY)									
EUREKA #1	1800	3.74	1800	4.26	1800	4.46	3.94	5.30	4.84
EUREKA #2	2625	11.94	2625	10.31	2625	12.64	13.22	13.73	14.86
FARMERS UNION	8372	7.29	8372	5.43	8372	5.80	5.60	5.81	5.60
GRAHAM-GILBERT	200	2.83	200	4.09	200	2.32	4.50	3.03	4.09
HAAS	867	5.39	867	5.70	867	4.51	5.09	5.73	4.19
HART-DAVIS	453	6.04	453	5.43	453	4.91	8.04	8.53	7.50
ISLAND HIGH LINE	945	16.04	945	15.89	945	13.35	15.28	20.79	17.17
LEMP	300	3.09	300	3.55	300	3.78	4.72	3.37	4.26
LITTLE PIONEER	1336	7.65	1336	6.37	1336	7.34	7.22	8.81	7.83
LOWER CENTER POINT	880	11.75	880	14.22	880	10.91	13.30	11.77	13.30
MACE-CATLIN	536	3.81	536	5.20	536	4.61	5.24	3.97	4.83
MACE-MACE	80	3.53	80	3.08	80	5.30	4.68	2.53	2.88
MAHON	468	4.60	468	4.57	468	4.22	5.26	5.47	4.79
MCCOMMEL ISLAND	1600	9.05	1600	7.74	1600	7.72	7.88	11.31	9.31
MCNABUS & TEATER	168	11.76	168	13.24	168	8.07	7.68	6.77	7.54
NEEVES #1	73	9.59	0 (INCL. IN MISC.)		0 (INCL. IN MISC.)		0 (INCL. IN MISC.)		7.54
NEEVES #2	26	23.23	0 (INCL. IN ROSSI HILL)		0 (INCL. IN ROSSI HILL)		0 (INCL. IN ROSSI HILL)		0
HIDDLETON IRRIGATION ASSOC.	5180	5.53	5180	5.04	5180	4.31	5.13	5.74	5.03
HIDDLETON HILL	4400	4.71	4400	4.30	4400	3.68	4.37	4.89	4.29
MISCELLANEOUS	888	4.23	888	5.11	888	5.60	5.56	4.89	6.14
NEW DRY CREEK	3057	5.83	3057	5.38	3057	5.01	5.56	5.49	5.20
NEW UNION	688	6.00	688	5.58	688	6.53	5.72	6.06	5.57
NEW YORK CANAL (R. OF C.)	164,920	5.32	164,920	3.24	164,920	5.02	5.06	5.03	4.82
PARMA	602	12.72	602	11.85	602	8.46	10.85	9.80	11.25

TABLE SHOWING ACRE FEET PER ACRE DIVERTED BY ROUSE VALLEY CANALS

FOOTNOTES: 101, 102

FOR EACH IRRIGATION SEASON FROM 1965
(ACREAGE TAKEN FROM CHART NO. 9)

NAME OF CANAL	ACRES IRRIGATED	1976	ACRES IRRIGATED	1977	ACRES IRRIGATED	1978	1979	1980	1981
PENITENTIARY	321	8.79	321	5.70	321	5.91			
PHILLIS (PIONEER IRR. DIST)	23,974	5.60	23,974	4.08	23,974	4.97	9.51	6.36	7.63
PIONEER DIXIE	3000	9.46	3000	8.96	3000	8.35	4.93	5.13	4.94
RIDGEMOUGH	26,877	5.96	26,877	4.53	26,877	6.25	9.56	9.37	9.96
RIVERSIDE	10,645	5.33	10,645	5.05	10,645	4.70	5.93	5.73	6.38
ROEDEL	160	.00	160	0	160		5.39	5.28	5.62
ROSSI MILL	500	5.69	512	4.68	512	0	0		0
SEMPRE (FARMERS CO-OP)	13,500	5.70	13,500	4.14	13,500	6.10	6.27	5.73	6.25
SETTLERS	12,322	3.91	12,322	3.53	12,322	5.56	5.75	5.47	5.43
SEVEN SICKERS	70	7.03	70	6.54	70	3.76	4.01	3.62	3.00
SIFRENBURG	646		646		646	4.54	6.11	6.40	5.97
STURMAN MILL	1719	5.76	1719	5.44	1719	4.03	4.29		
UPPER CENTER POINT	641	5.21	641	5.65	641	4.92	6.07	5.57	4.51
WARM SPRINGS DITCH	494	10.10	494	10.90	494	11.94	9.97	5.99	6.43
		3.31		4.28		3.45	4.12	8.13	8.70
TOTALS	316,282	5.60	316,282	4.09	316,282	5.26	5.39	4.17	4.54
								5.39	5.30

*FRANKLIN DITCH COMPANY AND MASON CREEK DITCH COMPANY LANDS ONLY. THE BALANCE OF THE LAND UNDER THE CALDWELL HIGH LINE IS IRRIGATED WITH WATER DIVERTED FROM SEVERAL DRAINS.

1947 THRU 1964 CAN BE FOUND IN PREVIOUS ANNUAL REPORTS.

THE USE OF WATER PER ACRE IS A GROSS FIGURE, FOR A NET FIGURE TO THE LAND ALLOW ABOUT 35% LOSS.

BOISE VALLEY CANALS AND ACREAGE

CHART NO. 9

AIKEN	236 ACRES	ISLAND HIGH LINE	945 ACRES
ANDREWS	1068 "	LEMP DITCH	300 "
BALLENTYNE	763 "	LITTLE PIONEER	1336 "
BAXTER	200 "	LOWER CENTER POINT	880 "
BOISE CITY	1828 "	MACE & CATLIN	536 "
BOISE PROJECT BOARD OF CONTROL		MACE & MACE	80 "
BIG BEND IRRIG. DIST.	1724 "	MAMMON	468 "
BOISE-KUNA IRRIG. DIST.	48,629 "	MCCONNEL ISLAND	1600 "
NAMPA & MERIDIAN IRRIG. DIST.	40,304 "	MCMAHUS & TEATER	168 "
NEW YORK IRRIG. DIST.	17,728 "	MIDDLETON MILL	4400 "
WILDER IRRIG. DIST.	56,535 "	MIDDLETON WATER	5180 "
TOTAL - BOARD OF CONTROL	164,920 "	MISCELLANEOUS	888 "
BOISE VALLEY	2729 "	NEW DRY CREEK	3059 "
BOONE	517 "	NEW UNION	688 "
BOWMAN-SWISHER	424 "	PARMA DITCH	602 "
BUBB (SOUTH BOISE MUTUAL)	1057 "	PENITENTIARY	321 "
*CALDWELL HIGH LINE	11,917 "	PIONEER IRRIG. DIST.	23,974 "
CAMPBELL (CANYON DITCH)	802 "	PIONEER DIXIE	3000 "
CANYON COUNTY	3957 "	RIDENBAUGH	26,877 "
CAPITAL VIEW	600 "	RIVERSIDE IRRIG. DIST.	10,645 "
CONWAY-HAMMING	259 "	ROEDEL	160 "
DAVIS & LITTLE DAVIS	634 "	ROSSI MILL	512 "
EUREKA WATER CO. #1	1300 "	SEBREE	15,500 "
EUREKA DITCH CO. #2	2625 "	SEVEN SUCKERS	70 "
FARMERS UNION	8372 "	SETTLERS	12,322 "
GRAHAM-GILBERT	200 "	SIEBENBERG	646 "
HAAS	367 "	THURMAN MILL	1719 "
HART-DAVIS	453 "	UPPER CENTER POINT	641 "
		WARM SPRINGS DITCH	494 "

TOTAL 324,239 ACRES

DRAINAGE WATER (NOT DIVERTED FROM BOISE RIVER)

BLACK CANYON IRRIGATION DISTRICT	6,894 ACRES
CALDWELL IRRIGATION DISTRICT	755 "
MORELAND & VIAL (DIXIE DRAIN)	640 "
	8,289 ACRES

GRAND TOTAL 332,528 ACRES

THIS ACREAGE IS BASED, IN SOME INSTANCES, UPON ACTUAL SURVEYS, AND IN OTHER CASES UPON THE ACREAGE AS DETERMINED AT THE TIME OF THE STEWART DECREE, AND IS THE BEST INFORMATION AVAILABLE AT THE PRESENT TIME. IT WAS ORIGINALLY COMPUTED FEBRUARY 14, 1941, BUT HAS BEEN REVISED SEVERAL TIMES, PARTICULARLY TO REDUCE RIVER BOTTOM ACREAGES TO CONFORM TO STEWART DECREE ACREAGES AS DETERMINED BY SPECIAL COMMITTEE, AND TO ACCOMMODATE TRANSFERS FROM ONE CANAL OR USER TO ANOTHER.

RIDENBAUGH REPRESENTS OLD LANDS WITHIN THE NAMPA & MERIDIAN IRRIGATION DISTRICT THAT ARE WATERED BY THE OLD RIDENBAUGH RIGHTS IN THE STEWART DECREE. THE BALANCE OF THE NAMPA & MERIDIAN IRRIGATION DISTRICT LANDS ARE INCLUDED UNDER THE BOARD OF CONTROL.

*3960 ACRES ARE WATERED WITH LIVE WATER. THE BALANCE OF THE WATER COMES FROM SEVERAL DRAINS.

BOISE RIVER STORAGE ACCOUNTS - 1981 - IN ACRE FEET

CANAL COMPANY	ARROWROCK STORAGE	ANDERSON STORAGE	LUCKY PEAK STORAGE	TOTAL AVAILABLE	RUNE USE	BALANCE 1 JULY	JULY USE	BALANCE 1 AUG.	AUG. USE	BALANCE 1 SEPT.	SEPT. USE	BALANCE 1 OCT.	OCT. USE	BALANCE END OF SEASON	TOTAL 1981 STORAGE USED	ANDERSON CARRYOVER	LUCKY PEAK CARRYOVER	ARROWROCK UNIFIED NO CARRYOVER
BALLENTYNE		376	1300	1676		1676	204	1472	344	1128	140	988	0	988	608	0	988	
BOISE CITY			1000	1000		1000	166	834	338	496	182	314	0	314	606	0	314	
BOISE VALLEY		961	2500	3461		3461	332	3069	434	2635	20	2615	0	2615	846	115	2500	
BURR (SOUTH BOISE MUTUAL)		543	500	1043		1043	24	1019	254	765	62	703	0	703	340	203	500	
CANYON COUNTY			6000	6000		6000	1012	4988	1292	3696	614	3082	0	3082	2918	0	3082	
CAPITAL VIEW		460	300	760		760	62	698	62	636	54	582	0	582	178	282	300	
DAVIS			1500	1500		1500	16	1484	68	1416	28	1388	0	1388	112	0	1388	
EAGLE ISLAND CANALS			7650	7650		7650	230	7420	446	6974	218	6756	0	6756	894	0	6756	
EMEREA #1			2800	2800		2800	208	2592	496	2096	0	2096	0	2096	704	0	2096	
FARMERS UNION	2874	5727	10,000	18,601	84	18,517	3464	15,053	6368	8685	3844	4841	70	4771	13,870	0	4771	
LITTLE PIONEER		2174	500	2674		2674	440	2234	1196	1038	316	722	0	722	1952	222	500	
MIDDLETON IRRIGATION			6380	6380		6380	1039	5341	814	4527	22	4505	0	4505	1875	0	4505	
MIDDLETON MILL			4620	4620		4620	753	3867	590	3277	16	3261	0	3261	1359	0	3261	
NEW DRY CREEK		1296	3000	4296		4296	730	3566	344	3222	28	3194	0	3194	1102	194	3020	
NEW UNION			1400	1400		1400	78	1322	62	1260	0	1260	0	1260	140	0	1260	
NEW YORK*	254,471	349,662		604,133	23,284	587,849	149,010	431,639	152,650	279,189	129,398	149,791	28,416	121,375	482,758	121,375	0	
PHYLISS	21,018	25,592	16,000	62,600	1994	60,606	14,164	46,442	19,814	26,628	9046	17,582		17,582	45,018	1582	16,000	
RIDENBAUGH***	3032	25,137	35,000	63,969	20	63,949	7938	56,011	14,790	41,221	8606	32,615	1436	31,179	32,790	0	31,179	
ROSSI MILL			700	700		700	16	684	32	652	16	636	0	636	64	0	636	
SEBREE	1227			1227		1227	0	1227	0	1227	0	1227	0	1227	0	0	0	1227
SETTLERS**	2878	6082	10,000	18,960		18,960	3232	15,688	6016	9672	2850	6322	26	6296	12,164	0	6296	
SHRYVAN MILL			800	800		800	22	778	14	764	0	764	0	764	36	0	764	
WIDGER	100			100		100	28	72	28	44	28	16	0	16	84	0	764	
LUCKY PEAK NURSERY	200			200		200	28	172	42	130	28	102	0	102	28	0	0	16
IDaho DEPT. OF FISH & GAME			50,000	50,000		50,000	0	50,000	0	50,000	0	50,000	0	50,000	0	0	50,000	102
ANDERSON DAM POWER		5200		5200		5200	0	5200	0	5200	0	5200	0	5200	0	5200	0	
LUCKY PEAK UNCONTRACTED			96,371	96,371		96,371	0	96,371	0	96,371	0	96,371	0	96,371	0	5200	0	
TOTALS	286,600	423,200	250,321	960,121	25,382	942,739	183,296	759,443	206,414	552,949	155,516	397,433	29,948	367,485	600,636	129,123	236,967	1,345

*LESS 1100 ACRE FEET OF ARROWROCK STORAGE, TRANSFERRED TO SETTLERS TO IRRIGATE GOVERNMENT LANDS. INCREASED BY 22,700 ACRE FEET OF HILLCREST STORAGE.

**INCREASE SETTLERS STORAGE 1100 ACRE FEET OF ARROWROCK STORAGE, 272 ACRE FEET OF ANDERSON STORAGE TO IRRIGATE GOVERNMENT LANDS.

***INCREASE RIDENBAUGH STORAGE 10,000 ACRE FEET OF ANDERSON STORAGE, TRANSFERRED FROM NEW YORK.

STATE OF IDAHO FISH & GAME STORAGE WATER TO BE USED DURING THE WINTER MONTHS.

LUCKY PEAK UNCONTRACTED STORAGE TO BE RELEASED BY ORDER OF WATER AND POWER RESOURCE SERVICES.

STORAGE WATER ALLOCATIONS FOR ARROWROCK AND ANDERSON RESERVOIRS

CHART NO. 11

ARROWROCK

NAME

ACRE FEET OF STORAGE WATER

PERCENT OF SPACE

BOISE PROJECT BOARD OF CONTROL

NANPA & MERIDIAN

177,816

62.01

PIONEER IRRIGATION DISTRICT

55,055

19.25

FARMERS UNION DITCH CO.

21,018

7.333

SETTLERS IRRIGATION DISTRICT

2,874

1.000

FARMERS CO-OP CANAL CO.

1,778

.62

RIDENBAUGH CANAL

1,227

.428

HILLCREST

3,832

1.337

23,000

8.02

TOTAL

286,600

99.998

ANDERSON

BOISE-KUNA IRRIGATION DISTRICT

112,149

26.83

NEW YORK IRRIGATION DISTRICT

41,006

9.81

WILDER IRRIGATION DISTRICT

125,108

29.93

BIG BEND IRRIGATION DISTRICT

3,887

.93

NANPA & MERIDIAN

77,784

18.61

TOTAL BOARD OF CONTROL

359,934

RIDENBAUGH

15,137

3.62

PIONEER IRRIGATION DISTRICT

25,582

6.12

FARMERS UNION DITCH CO.

5,727

1.37

NEW DRY CREEK DITCH CO.

1,296

.31

SETTLERS IRRIGATION DISTRICT

5,810

1.39

BOISE VALLEY IRRIGATION DITCH CO.

961

.23

SOUTH BOISE MUTUAL IRRIGATION CO.

543

.13

BALLENTYNE DITCH CO.

376

.09

CAPITOL VIEW IRRIGATION DISTRICT

460

.11

PIONEER DITCH COMPANY

2,174

.52

TOTAL

418,000

100.00

POWER

5,200

STORAGE WATER ALLOCATIONS FOR LUCKY PEAK RESERVOIR

CHART NO. 11

NAME	ACRE FEET OF STORAGE WATER	PERCENT OF SPACE
BALLENTYNE		
BOISE CITY	1,300	.467
BOISE VALLEY	1,000	.360
BUBB (SOUTH BOISE MUTUAL)	2,500	.899
CANYON COUNTY	500	.180
CAPITAL VIEW IRRIG. DIST.	6,000	2.157
DAVIS DITCH (VILLAGE OF GARDEN CITY)	300	.108
EAGLE ISLAND WATER CO.	1,500	.539
EUREKA WATER CO. #1	7,650	2.750
FARMERS UNION	2,800	1.006
LITTLE PIONEER	10,000	3.595
MIDDLETON IRRIG. ASSN.	500	.180
MIDDLETON MILL	6,380	2.293
NEW DRY CREEK	4,620	1.661
NEW UNION	3,000	1.078
PHYLLIS (PIONEER IRRIG. DIST.)	1,400	.503
RIDENBAUGH	16,000	5.751
ROSSI MILL (SOUTH BOISE WATER)	35,000	12.580
SETTLERS	700	.252
THURMAN MILL	10,000	3.595
IDAHO FISH & GAME	800	.288
	50,000	17.972
UNCONTRACTED SPACE	116,250	41.786
TOTAL	278,200	100.0

Following is a short description of some of the major surface drain systems in Boise Valley. In many cases these systems are made up of a complex network of tributary drains which is constantly changing because of new construction or relocation.

Boise River Drain - Boise River from above Boise Canal are tributary to this system. These are the South, North, and Middle River drains. They enter the Boise River from the south at the city of Boise, and collect return flows from land irrigated in the immediate vicinity of Boise. The combined discharge of these drains carries from 15 to 20 cfs at the mouth of the river in the valley.

Thurman Drain - This drain is located below the City of Boise on the south side of the river and discharges into the South channel of Boise River near Eagle Island. It collects return flows from the City of Boise and includes return flows from the south of the Thurman Mill Canal. Discharge varies from 15 cfs in the summer to less than 10 cfs in the winter.

Prepared by: Bob Sutter
Idaho Department
of Water Resources

IRRIGATION RETURN FLOWS OF THE BOISE VALLEY

Return flows from irrigation diversions are a significant factor in the operation and character of the Boise River. During the irrigation season, groundwater levels rise and the flows in surface drains begin to increase. This flow along with direct surface return and canal spills is then either rediverted by other canals or directly discharged into the Boise River. The Boise River itself acts as a drain in intercepting groundwater and surface return flows. The combined surface and intermediate ground return flow is a significant amount throughout the entire year.

SURFACE DRAINS

About eleven principal drain systems discharge to Boise River between Lucky Peak Reservoir and the mouth of Boise River. In downstream order these systems are: Drainage District #3, Thurman Drain, Eagle Drain, Five Mile Creek, North and South Middleton Drain, Willow Creek, Mason Creek and Drain, Hartley Drain and Gulch, Indian Creek, Conway Gulch, and Dixie Slough. Most of these follow the natural drainage to the river and in the past were tributaries that contained flow only sporadically following rainstorms or rapid snowmelt.

The Boise Valley below Boise is crossed by many surface drains which do not discharge directly to Boise River. These drains are either tributary to other drains or are intercepted by canals which pick up flow for rediversion. In the lower end of the Boise Valley, some drains discharge directly to the Snake River. One of the largest of these is Sand Run Gulch which discharges as much as 75 cfs during the non-irrigation season.

Following is a short description of some of the major surface drain systems in Boise Valley. In many cases these systems are made up of a complex network of tributary drains which is constantly changing because of new construction or relocation.

Drainage District #3: Return flows from three small drains are included in this system. These are the Booth, Myers, and Ridenbaugh drains. They enter the Boise River from the south within the city of Boise, and collect return flows from land irrigated in the immediate vicinity of Boise. The combined discharge of these drains varies from 15 cfs in the summer to almost no flow in the winter.

Thurman Drain: This drain is located below the Settlers Canal on the south side of the river and discharges into the South Channel of Boise River near Eagle Island. It collects return flows from the Settlers Canal and includes return flows from the end of the Thurman Mill Canal. Discharge ranges from 25 cfs in the summer to less than 15 cfs in the winter.

Eagle Drain: Eagle Drain enters Boise River on the North Channel of Eagle Island at the town of Eagle. It drains the area below the Farmers Union and Dry Creek Canals from Boise to Eagle. Discharge ranges from 60 cfs in the summer to 15 cfs in the winter.

Five Mile Creek: Sometimes called Fifteenmile Creek, Five Mile Creek enters Boise River from the south near Middleton and acts as a drain for the area below the Boise Project Main Canal and between the City of Boise and Mason Creek Drain. It receives return flows and spills from the Main, Ridenbaught, and Phyllis Canals. Five Mile Creek is a major source of irrigation water for the Caldwell Highline Canal, the last of a series of major canals which cross this drain. Just prior to entering the river, a diversion of about 17 cfs is made by a small canal. Discharge to the river varies from 140 cfs in the summer to less than 40 cfs in the winter. However, because of the great reuse of water from the drain, flows are quite variable.

Mason Creek: Mason Creek drains land served by the same canals as Five Mile Creek and also provides irrigation water to the Caldwell Highline Canal. Between the Boise Project Main Canal and the Ridenbaught Canal, Mason Creek acts as a lateral from the former canal and empties into the latter. It begins to function as a drain below the Ridenbaught Canal. Near the river, Mason Creek branches into two channels which reach the river at approximately the same location near Caldwell. These channels are called Mason Creek and Mason Drain. The combined discharge of the two channels varies from 200 cfs in the summer to 60 cfs in the winter.

Indian Creek: Indian Creek and two tributary drains, the Wilson and Elijah, drain the area below the Ridenbaught Canal between Mason Creek and Lake Lowell. Similar to Mason Creek, Indian Creek begins to act as a drain below the Ridenbaught Canal. Above that point Indian Creek functions as a portion of the Boise Project Main Canal and all return flows or surface runoff is diverted to Lake Lowell via the Main Canal.

There are many artesian wells and springs which discharge to Indian Creek in the vicinity of Nampa. Indian Creek discharges to Boise River below Caldwell, but during the irrigation season much of the flow is diverted before it reaches Boise River. The largest diversions from the system are the Notus Canal which diverts flow from the Wilson and Elijah Drains to the north side of Boise River, and the Riverside Canal which diverts flow from Indian Creek below Caldwell. Discharge to Boise River is highly variable, ranging from 250 cfs at the end of the irrigation season to less than 100 cfs when canals are diverting water from the creek.

North and South Middleton: The two forks of the Middleton Drain drain the area below the Middleton Canal between Eagle and Middleton. The drain discharges to Boise River at Middleton. Discharge varies from 200 cfs in the summer to 50 cfs in the winter.

Willow Creek: Willow Creek also discharges to Boise River at Middleton. It collects return flows from the area irrigated by the lower end of the Middleton Canal and by the last few miles of the "C" Line East

Canal of the Payette Division of the Boise Project, which diverts water from the Payette River to Boise Valley. Discharge in Willow Creek varies from 50 cfs in the spring to almost no flow in the winter.

Hartley Drain and Gulch: The two forks of this drain enter the Boise River above Caldwell. It drains the area receiving water from the lower end of the Middleton and Canyon County canals. It also drains a large portion of the Black Canyon Irrigation District that obtains water from the "C" Line East Canal between Willow Creek and Conway Gulch. Discharge ranges from 100 cfs in the summer to less than 25 cfs in the winter.

Conway Gulch: Conway Gulch drains the area irrigated by the "C" Line East, "C" Line West, and Notus Canals between Hartley Gulch and Sand Run Gulch. These canals irrigate land in the Payette Division of the Boise Project, Conway Gulch discharges to Boise River at Notus. Discharge varies from 60 cfs in the summer to 200 cfs in the winter.

Sand Run Gulch: The last major drain north of Boise River before it reaches Snake River is Sand Run Gulch which parallels Boise River for more than ten miles before the drain discharges to Snake River. Return flows from the area irrigated by the Boise Project "D" Line Canal and the Sebree Canal contribute flow to this drain. A November flow of 75 cfs has been observed near the end of the drain.

Dixie Slough: The Dixie Slough is the last major drain on the south side of Boise River which discharges directly to the river. The drain collects return flows from the irrigated area below the Riverside Canal from Caldwell to a point about five miles below Notus. Flows range from 275 cfs in the summer to less than 100 cfs in the winter. The discharge of this drain is highly variable during the irrigation season because of variations in reuse of the drain water.

Ross East End Drain: Return flows from land irrigated south of the river by the lower end of the Riverside Canal are collected by the Ross East End Drain. This drain eventually discharges to Snake River. A November discharge of 12 cfs has been observed near the end of the drain.

After irrigation diversions begin in April, the flow in surface drains increases until a somewhat steady rate is reached, and this flow is maintained throughout the irrigation season. When diversions for irrigation are completed in October, the drain system return flows gradually decrease throughout the winter as groundwater levels decline. In late March the drains are found to have the lowest discharge of the year. Local storms often cause the drains to discharge at unusually high rates for short periods of time.

All of the principal drains enter the Boise River below the streamgage at Boise; only two of the drains enter below Notus. The largest drains are concentrated in the reach of the river between the cities of Middleton and Caldwell. When the natural flow of the river becomes too small to satisfy all diversions and many canals begin to use storage water, canals below Middleton usually obtain all of their water from surface and seepage return flows to the river. Only in very dry years when drains are discharging

less than normal do these canals need additional water from storage. Even during years of extremely low runoff, canals on the lower end of the river below Notus do not require storage water.

Discharge Measurements

Measurements of discharges of all the major drains which discharge to Boise River are reported by the Boise River Watermaster for the irrigation season only, April 15 to October 15. Daily values are estimated by interpolating between weekly measurements. The length of historic record varies with each drain, and locations of measurements have changed throughout the period. The Boise River Watermaster has measured all drains three times during the non-irrigation season, in November 1971, February 1972, and March 1973.

Distribution and Composition of Total Gain

Very little return flow enters the Boise River above Boise. In this reach there are no major surface drains. The total gain to the river from Lucky Peak to Boise is negative throughout most of the year. From Boise to Notus, the total gain to the river can be calculated by adding the recorded diversions to the gage difference. The total gain includes all surface return flows and groundwater gains or losses. Because natural runoff is very small in this reach, the total gain is a good representation of total return flow to the river. The table on the following page lists the Boise - Notus total gain by month in thousands of acre-feet for the years 1959-72.

The total gain to Boise River follows the same pattern as individual surface drains. The lowest gain is in March just prior to the irrigation season. The total gain from the Boise River at Boise to the Boise River at Notus gaging stations is approximately 500 cfs. By May the gain usually increases to 1000 to 1500 cfs. The gain remains at this level through September and gradually decreases throughout the non-irrigation season.

In a given year, the magnitude of the total return to the river varies with the available water supply. In the low runoff year of 1961, the Boise to Notus return averaged under 1000 cfs during the irrigation season; in the same period of the high runoff year of 1965, this gain averaged over 1500 cfs. This relationship can be explained by the fact that less efficient use is made of the available water when the supply is abundant. When the supply is low, gross diversions are less and more of the surface return is reused. The drain discharges become highly variable during periods of greater water reuse.

An estimate of the distribution of the gain by reach from Boise to Notus was found by calculating the net gain above Eagle Island, near Star below the Caldwell Highline Canal, and at Caldwell Bridge, based on miscellaneous measurements at these locations. It was found that the ratio of the gain in these reaches to the total gain does not vary greatly throughout the year. The following ratios were calculated for the four reaches: Boise to above Eagle Island - 0.06; above Eagle Island to near Star - 0.13; near Star to Caldwell Bridge - 0.39; Caldwell Bridge to Notus - 0.42.

TOTAL GAIN TO BOISE RIVER BETWEEN BOISE AND NOTUS (1000 AC-FT)

YR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	TOTAL
59	65.2	42.3	37.3	32.0	27.1	25.6	41.2	94.6	72.0	73.4	94.5	82.6	687.8
60	61.1	38.2	34.1	34.3	36.0	33.9	31.4	109.0	84.3	82.1	90.8	81.3	716.5
61	63.0	43.2	38.3	32.6	28.5	28.1	26.1	66.9	63.3	56.7	52.8	63.1	562.6
62	49.7	36.6	33.3	30.4	32.8	29.8	31.1	79.8	55.5	72.5	75.3	79.8	606.6
63	70.6	41.2	36.8	31.3	40.9	28.8	29.8	58.4	88.0	70.0	75.1	83.4	654.3
64	63.4	45.8	39.9	42.5	38.3	42.0	40.5	64.6	88.9	75.9	88.3	88.5	718.6
65	62.3	42.1	46.4	42.1	30.6	36.0	69.7	92.4	101.6	91.1	96.2	82.4	792.9
66	68.7	44.0	37.5	32.8	26.7	24.7	64.5	89.9	87.9	69.8	68.9	68.7	678.1
67	56.1	41.1	38.6	34.5	29.9	25.8	40.6	63.5	78.6	76.9	76.0	81.5	643.1
68	66.3	40.9	37.2	34.8	30.5	26.3	22.1	65.1	67.3	66.9	81.3	61.1	599.8
69	61.5	42.3	39.3	49.5	33.0	42.3	52.1	89.3	89.4	74.2	76.1	75.0	724.0
70	66.7	43.4	40.4	52.7	36.9	37.4	51.3	93.4	89.8	93.0	85.3	97.1	787.4
71	65.7	46.2	42.7	56.9	41.3	56.8	71.5	123.6	124.9	95.6	84.1	87.0	896.3
72	70.8	45.6	44.2	48.6	77.2	71.8	63.7	91.6	93.1	85.1	96.6	94.7	883.0
AVG.	63.6	42.3	39.0	39.6	36.4	36.4	45.4	84.0	84.6	77.4	81.5	80.4	710.8

It is significant to note that over 80 percent of the return is below Star.

Of the total gain from Boise to Notus, the major source is from surface drains. Based on 1959-72 measurements taken by the Boise River Watermaster, 60 to 65 percent of the gain is contributed by the eleven major surface drains during their peak discharge, from April through October. From miscellaneous measurements taken in the non-irrigation season on days that did not follow excessive precipitation, it was found that these same drains accounted for about 75 percent of the total Boise to Notus gain. This increase is logical since diversions from surface drains are generally not made after October 15. The remainder of the gain, or the unidentified gain, originates from very small surface drains which flow during the irrigation season and from groundwater seepage directly to the river channel.

The total gain from Notus to Parma varies in much the same manner as the upper portion of the river. Limited data indicates that the total gain approaches 500 cfs during the irrigation season and decreases to zero by the end of March. Two major surface drains, Dixie Drain and Conway Gulch, discharge into the river in this reach. These two drains comprise about 65% of the total gain from May through September when the gain is at its peak. No data exists on return to the river below Parma; however, there are no major surface drains that discharge into the river below that location.

Diversion - Return Flow Relationships

Because of extensive reuse of water for irrigation, it is very difficult to estimate the effect of any single diversion on the return flow to Boise River. The absence of any continuous record of flow in the river between Boise and Notus prohibits analysis of diversion-return flow relationships even by general areas. An estimate of the return from Boise to Parma can be made by comparing the total annual gain to the river to gross diversions. Diversion from the Boise River from Diversion Dam to Parma average about 1,850,000 acre-feet. By adding to this the average diversion into the Boise Valley from the Payette River, 250,000 acre-feet, the total annual surface diversion is about 2,100,000 acre-feet. The average annual (1959-72) gain from Boise to Parma is approximately 870,000 acre-feet. Therefore, the average return to the Boise above Parma appears to be in the range of 40 percent of the total surface water diversion. This does not include the entire return, some of which flows directly or indirectly to Snake River.

CHART NO. 12

35,601[illegible]

TRIBUTARY AND RETURN FLOW TO BOISE RIVER IN SECOND FEET
FOR IRRIGATION SEASON OF 1981

CHART NO. 12

JUNE																																	TOTALS
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	TOTALS	
BOISE SEWER	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	30	871		
CONWAY GULCH	56	56	61	61	61	61	61	61	61	80	80	80	80	80	80	80	59	59	59	59	59	59	59	59	56	56	56	56	56	56	56	1904	
DIXIE DRAIN	232	232	307	307	307	307	307	307	307	382	382	382	382	382	382	382	304	304	304	304	304	304	304	304	132	132	132	132	132	132	132	8333	
DRAINAGE DISTRICT #3	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	9	9	256		
EAGLE DRAIN	45	45	45	45	45	45	45	45	45	45	45	45	45	45	41	41	41	41	41	41	41	38	38	38	38	38	38	38	52	52	1287		
FIVE MILE CREEK	172	172	172	172	172	172	172	172	202	202	202	202	202	202	202	202	230	230	230	230	230	230	230	147	147	147	147	147	147	147	110	5547	
HARTLEY DRAIN	74	74	74	74	74	74	74	74	90	90	90	90	90	90	90	75	75	75	75	75	75	75	75	64	64	64	64	64	64	65	2260		
HARTLEY GULCH	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	15	15	15	15	15	15	15	26	26	26	26	26	26	26	12	638		
INDIAN CREEK	189	120	120	120	120	120	120	120	100	100	100	100	100	100	100	201	201	201	201	201	201	201	201	63	63	63	63	63	63	63	40	3617	
LONG FEEDER	8	10	10	10	10	10	10	10	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	10	10	10	10	10	10	8	247		
MASON CREEK	25	20	20	20	20	20	20	20	27	27	27	27	27	27	27	20	20	20	20	20	20	20	21	21	21	21	21	21	21	9	650		
MASON DRAIN	123	134	134	134	134	134	134	134	186	186	186	186	186	186	186	192	192	192	192	192	192	192	99	99	99	99	99	99	99	133	4533		
NORTH MIDDLETON DRAIN	83	53	53	53	53	53	53	53	73	73	73	73	73	73	73	55	55	55	55	55	55	55	29	29	29	29	29	29	29	34	1597		
SOUTH MIDDLETON DRAIN	125	134	134	134	134	134	134	134	134	134	134	134	134	134	134	97	97	97	97	97	97	97	76	76	76	76	76	76	76	84	3296		
STAR FEEDER	48	39	39	39	39	39	39	39	39	51	51	51	51	51	51	39	39	39	39	39	39	39	34	34	34	34	34	34	34	45	1234		
THURMAN DRAIN	29	29	29	29	29	29	29	29	33	33	33	33	33	33	33	23	23	23	23	23	23	29	29	29	29	29	29	29	26	26	850		
WATTS CHECK	21	26	26	26	26	26	26	26	21	21	21	21	21	21	21	11	11	11	11	11	11	27	27	27	27	27	27	27	26	642			
WILLOW CREEK	66	54	54	54	54	54	54	54	68	68	68	68	68	68	68	82	82	82	82	82	82	82	31	31	31	31	31	31	31	34	1745		
TOTALS	1356	1264	1344	1344	1344	1344	1344	1349	1467	1561	1561	1561	1561	1561	1547	1587	1488	1488	1488	1488	1488	1490	1024	919	919	919	919	917	931	905	39,559		

JULY

BOISE SEWER	28	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
-------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

TRIBUTARY AND RETURN FLOW TO BOISE RIVER IN SECOND FEET
FOR IRRIGATION SEASON OF 1981

CHART NO. 12

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	TOTALS
BOISE SEWER	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	27	27	27	29	29	873
CONWAY GULCH	57	57	57	57	62	62	62	62	62	62	62	66	66	66	66	66	66	66	62	62	62	62	62	62	62	62	62	62	62	62	62	1938
DIXIE DRAIN	234	234	234	234	245	245	245	245	245	245	245	245	273	273	273	273	273	273	286	286	286	286	286	286	286	286	242	242	242	242	242	8016
DRAINAGE DISTRICT #3	7	7	8	8	8	8	8	8	8	8	8	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	219
EAGLE DRAIN	58	58	63	63	63	63	63	63	63	63	63	56	56	56	56	56	56	56	56	56	56	56	56	56	52	52	52	52	52	52	47	1752
FIVE MILE CREEK	128	128	128	143	143	143	143	143	143	143	143	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	4734
HARTLEY DRAIN	72	72	72	76	76	76	76	76	76	76	76	68	68	68	68	68	68	68	80	80	80	80	80	80	80	74	74	74	74	74	74	2302
HARTLEY GULCH	23	23	23	19	19	19	19	19	19	19	19	36	36	36	36	36	36	36	20	20	20	20	20	20	16	16	16	16	16	16	16	712
INDIAN CREEK	95	95	95	94	94	94	94	94	94	94	94	76	76	76	76	76	76	83	83	83	83	83	83	83	116	116	116	116	116	116	116	2868
LONG FEEDER	11	11	11	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	8	8	8	8	8	8	8	250
MASON CREEK	15	15	15	10	10	10	10	10	10	10	10	18	18	18	18	18	18	18	14	14	14	14	14	14	12	12	12	12	12	12	12	423
MASON DRAIN	164	164	164	166	166	166	166	166	166	166	166	141	141	141	141	141	141	141	177	177	177	177	177	177	181	181	181	181	181	181	181	5147
NORTH MIDDLETON DRAIN	40	40	40	53	53	53	53	53	53	53	53	43	43	43	43	43	43	43	40	40	40	40	40	40	36	36	36	36	36	36	36	1324
SOUTH MIDDLETON DRAIN	81	81	81	87	87	87	87	87	87	87	87	99	99	99	99	99	99	99	100	100	100	100	100	100	93	93	93	93	93	93	93	2826
STAR FEEDER	47	47	47	51	51	51	51	51	51	51	51	57	57	57	57	57	57	57	60	60	60	60	60	60	63	63	63	63	63	63	63	1758
THURMAN DRAIN	21	21	15	15	15	15	15	15	15	15	15	25	25	25	25	25	25	24	24	24	24	24	24	24	34	34	34	34	34	34	29	757
WATTS CHECK	24	24	24	20	20	20	20	20	20	20	20	24	24	24	24	24	24	23	23	23	23	23	23	23	19	19	19	19	19	19	19	674
WILLOW CREEK	14	14	14	22	22	22	22	22	22	22	22	17	17	17	17	17	17	25	25	25	25	25	25	25	25	25	25	25	25	25	25	665
TOTALS	1123	1123	1123	1162	1176	1176	1176	1176	1176	1176	1176	1148	1180	1180	1180	1180	1180	1242	1251	1251	1251	1251	1251	1251	1257	1265	1221	1222	1222	1222	1214	37,388

SEPTEMBER

BOISE SEWER	29	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	28	28	28	28	842
CONWAY GULCH	62	64	64	64	64	64	64	64	66	66	66	66	66	66	66	66	66	66	72	72	72	72	72	72	68	68	68	68	68	68	61	2013
DIXIE DRAIN	242	245	245	245	245	245	245	245	266	266	266	266	266	266	266	266	266	266	275	275	275	275	275	275	322	322	322	322	322	322	339	7787
DRAINAGE DISTRICT #3	9	9	9	9	9	9	9	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	8	8	216
EAGLE DRAIN	47	47	47	47	47	47	52	52	52	52	52	52	52	52	52	52	52	46	46	46	46	46	46	49	49	49	49	49	49	46	46	1449
FIVE MILE CREEK	173	173	173	173	173	173	173	170	170	170	170	170	170	170	170	170	170	160	160	160	160	160	160	174	174	174	174	174	174	196	196	5131
HARTLEY DRAIN	22	22	22	22	22	22	22	68	68	68	68	68	68	68	68	68	68	62	62	62	62	62	62	58	58	58	58	58	58	64	64	1783
HARTLEY GULCH	20	20	20	20	20	20	20	9	9	9	9	9	9	9	9	9	9	20	20	20	20	20	20	12	12	12	12	12	12	23	23	423
INDIAN CREEK	116	116	116	116	116	116	116	118	118	118	118	118	118	118	118	118	118	126	126	126	126	126	126	139	139	139	139	139	139	248	248	3789
LONG FEEDER	7	7	7	7	7	7	7	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	9	9	9	9	9	9	10	10	251
MASON CREEK	11	11	11	11	11	11	11	13	13	13	13	13	13	13	13	13	13	9	9	9	9	9	9	10	10	10	10	10	10	5	5	311
MASON DRAIN	214	214	214	214	214	214	214	194	194	194	194	194	194	194	194	194	194	191	191	191	191	191	191	199	199	199	199	199	199	178	178	5542
NORTH MIDDLETON DRAIN	25	25	25	25	25	25	25	36	36	36	36	36	36	36	36	36	36	34	34	34	34	34	34	30	30	30	30	30	30	32	32	937
SOUTH MIDDLETON DRAIN	107	107	107	107	107	107	107	110	110	110	110	110	110	110	110	110	110	86	86	86	86	86	86	99	99	99	99	99	99	115	115	3044
STAR FEEDER	60	60	60	60	60	60	60	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	60	60	60	60	60	60	58	58	1712
THURMAN DRAIN	29	29	29	29	29	29	29	25	25	25	25	25	25	25	25	25	29	29	29	29	29	29	30	30	30	30	30	30	31	31	855	
WATTS CHECK	22	22	22	22	22	22	22	17	17	17	17	17	17	17	17	17	14	14	14	14	14	14	21	21	21	21	21	21	21	16	16	550
WILLOW CREEK	39	39	39	39	39	39	39	48	48	48	48	48	48	48	48	48	33	33	33	33	33	33	36	36	36	36	36	36	40	40	1122	
TOTALS	1284	1289	1288	1288	1288	1288	1287	1267	1290	1290	1290	1290	1290	1290	1289	1245	1210	1210	1210	1210	1210	1210	1215	1260	1353	1353	1353	1353	1350	1488	1498	38,889

TRIBUTARY AND RETURN FLOW TO BOISE RIVER IN SECOND FEET
FOR IRRIGATION SEASON OF 1981

CHART NO. 12

NAME OF TRIBUTARY	OCTOBER																															TOTALS		
	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			
BOISE SEWER	27	27	27	27	27	27	27	27	27	27	27	27	27	26	26	26																		
CONWAY GULCH	61	61	61	61	61	61	63	63	63	63	63	63	63	50	50	50																		
DIXIE DRAIN	339	339	339	339	339	339	342	342	342	342	342	342	342	297	297	297																	402	
DRAINAGE DISTRICT #3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8																	907	
EAGLE DRAIN	46	46	46	46	38	38	38	38	38	38	38	38	38	30	30	30																	5022	
FIVE MILE CREEK	196	196	196	196	196	137	137	137	137	137	137	137	137	47	47	47																	120	
HARTLEY DRAIN	64	64	64	64	64	64	64	64	64	64	64	64	64	45	45	45																	570	
HARTLEY GULCH	23	23	23	23	23	16	16	16	16	16	16	16	16	14	14	14																	2080	
INDIAN CREEK	248	248	248	248	248	206	206	206	206	206	206	206	206	147	147	147																	703	
LONG FEEDER	10	10	10	10	10	6	6	6	6	6	6	6	6	0	0	0																	263	
MASON CREEK	5	5	5	5	5	8	8	8	8	8	8	8	8	9	9	9																	3123	
MASON DRAIN	178	178	178	178	178	224	224	224	224	224	224	224	224	141	141	141																	72	
NORTH MIDDLETON DRAIN	32	32	32	32	32	44	44	44	44	44	44	44	44	47	47	47																	108	
SOUTH MIDDLETON DRAIN	115	115	115	115	115	111	111	111	111	111	111	111	111	107	107	107																	2881	
STAR FEEDER	58	58	58	58	58	54	54	54	54	54	54	54	54	0	0	0																	607	
THURMAN DRAIN	31	31	31	31	30	30	30	30	30	30	30	30	30	27	27	27																	1673	
WATTS CHECK	16	16	16	16	16	14	14	14	14	14	14	14	14	0	0	0																	668	
WILLOW CREEK	40	40	40	40	40	51	51	51	51	51	51	51	51	41	41	41																	442	
TOTALS	1497	1497	1497	1497	1488	1438	1443	1443	1443	1443	1443	1432	1094	1036	1036																		178	690

BOISE SEWER
CONWAY GULCH
DIXIE DRAIN
DRAINAGE DISTRICT #3
EAGLE DRAIN
FIVE MILE CREEK
HARTLEY DRAIN
HARTLEY GULCH
INDIAN CREEK
LONG FEEDER
MASON CREEK
MASON DRAIN
NORTH MIDDLETON DRAIN
SOUTH MIDDLETON DRAIN
STAR FEEDER
THURMAN DRAIN
WATTS CHECK
WILLOW CREEK
TOTALS

TABLE IN ACRE FEET, SHOWING TOTAL
MONTHLY DRAIN DISCHARGES INTO THE BOISE RIVER
DURING THE IRRIGATION SEASON OF 1931

CHART NO. 13

NAME OF DRAIN	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	TOTALS
BOISE SEWER	1440	1568	1742	1786	1746	1684	804	10770
CONWAY GULCH	1830	3518	3808	3742	3876	4026	1814	22614
DIXIE DRAIN (SLOUGH)	11194	17754	16678	15306	16032	15974	10044	102982
FIVE MILE CREEK	3224	8678	11148	10752	9468	10262	4160	57592
INDIAN CREEK	9404	7896	7234	4418	5736	7978	6246	48912
MASON CREEK	284	986	1300	718	846	622	216	4972
MASON DRAIN	4012	5678	5066	9810	10294	11884	5762	56506
TOTALS	31,388	46,078	50,976	46,532	47,398	52,430	29,046	304,448

DRAINAGE DISTRICT #2 (ENTERS INTO THE BOISE RIVER)

EAGLE DRAIN	554	2186	2574	4012	3504	2898	1140	16868
HARTLEY DRAIN	1396	3910	4520	4338	4604	3966	1806	24540
HARTLEY GULCH	630	1548	1316	1366	1424	946	538	7768
NORTH MIDDLETON DRAIN	3214	3602	3174	2884	2648	1878	1218	18618
SOUTH MIDDLETON DRAIN	2318	5812	6592	6178	5792	6088	3346	36126
WILLOW CREEK	1106	3436	3490	1934	1330	2344	1360	15000
TOTALS	9,213	20,494	21,666	20,712	19,302	18,120	9,408	118,920

DIVERSED INTO CANALS

LONG FEEDER	70	458	494	520	500	502	184	2728
STAR FEEDER	96	1742	2468	2960	3516	3424	1336	15542
WATTS CHECK	154	1110	1284	1498	1348	1100	356	6850
TOTALS	320	3,310	4,246	4,978	5,364	5,026	1,876	25,120

TOTAL DRAINAGE DISTRICT #2	9,538	23,804	25,912	25,690	24,666	23,146	11,284	144,040
-------------------------------	-------	--------	--------	--------	--------	--------	--------	---------

DRAINAGE DISTRICT #3

RIDENBAUGH, BOOTH & MYERS DRAINS	280	338	512	440	438	492	240	2740
-------------------------------------	-----	-----	-----	-----	-----	-----	-----	------

DRAINAGE DISTRICT #4

THURMAN DRAIN	652	1062	1700	1520	1514	1710	884	9042
TOTAL ALL DRAINS	41,858	71,282	79,100	74,182	74,616	77,778	41,454	460,270

SUMMARY TABLE SHOWING BOISE RIVER AT DIVERSION DAM
CANAL DELIVERIES - TRIBUTARY GAIN - SEEPAGE GAIN - NET GAIN
BY MONTHS IN ACRE FEET - 1 APRIL, 1981 THRU 15 OCTOBER, 1981

	APRIL	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	TOTALS
BOISE RIVER AT DIVERSION DAM	130,596	281,948	327,872	267,960	243,700	192,074	45,632	1,489,782
TRIBUTARY GAIN	41,858	71,282	79,100	74,182	74,616	77,778	41,454	460,270
TOTAL AVAILABLE	172,454	353,230	406,972	342,142	318,316	269,852	87,086	1,950,052
DELIVERIES TO CANALS	105,584	286,010	292,470	338,840	323,708	260,954	68,058	1,675,624
NET TRIBUTARY GAIN UNUSED	66,870	67,220	114,502	3,302	0	8,898	19,028	279,820
SEEPAGE GAIN	0	0	0	0	5,392	0	0	5,392

CHART NO. 15

[illegible]

TABLE SHOWING TOTAL DISCHARGE OF ALL DRAINS
IN DRAINAGE DISTRICT #3, FOR 4,200 ACRES

	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	TOTALS
AVERAGE DAILY FLOW IN SECOND FEET	4.67	5.45	8.53	7.10	7.06	8.20	8.00	7.00
TOTAL MONTHLY FLOW IN ACRE FEET	280	338	512	440	438	492	240	2740
ACRE FEET PER ACRE	.07	.08	.12	.10	.10	.12	.06	.65

TABLE SHOWING TOTAL DISCHARGE OF ALL DRAINS
IN DRAINAGE DISTRICT #4, FOR 2,500 ACRES

	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	TOTALS
AVERAGE DAILY FLOW IN SECOND FEET	10.87	17.13	28.33	24.52	24.42	28.50	29.47	23.32
TOTAL MONTHLY FLOW IN ACRE FEET	652	1062	1700	1520	1514	1710	884	9042
ACRE FEET PER ACRE	.26	.42	.68	.61	.61	.68	.35	3.61

SUMMARY TABLE IN SECOND FEET
 SHOWING AVERAGE DAILY RETURN FLOW TO THE BOISE RIVER
 FOR THE LAST 15 YEARS

MONTH	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
APRIL	345	289	592	457	775	645	626	596	395	717	468	634	536	580	658
MAY	702	927	1016	1053	1112	1152	949	1063	362	1067	945	906	967	1217	1150
JUNE	682	1017	1131	1205	1369	1365	1113	1196	1238	1392	853	1165	1138	1253	1318
JULY	802	1086	347	1107	1259	1282	1097	1233	1264	1327	858	1278	1222	1223	1196
AUGUST	867	1055	1010	1197	1294	1298	1102	1284	1387	1531	817	1279	1237	1306	1203
SEPTEMBER	735	910	1048	1345	1472	1452	1204	1389	1326	1519	955	1286	1144	1455	1296
OCTOBER	672	1028	1065	1136	1384	1364	1201	1282	1489	1117	875	1242	1072	1061	1382
AVERAGE	686	902	980	1073	1238	1230	1042	1149	1152	1239	824	1113	1044	1156	1178

DISTRIBUTION OF DRAINAGE WATER TO VARIOUS CANALS

CHART NO. 20

DRAINAGE DISTRICT NO. 2

	PERCENT OF TOTAL		PERCENT OF TOTAL
FARMERS UNION	20.99	CANYON COUNTY	12.68
BOISE VALLEY	10.03	BALLENTYNE	3.04
NEW DRY CREEK	9.47	BOISE CITY	3.01
NEW UNION	1.21	CONSUMERS	.11
MIDDLETON CANAL	35.00	LITTLE PIONEER	4.46

THE CREDITS GIVEN ABOVE ARE BASED ON A DRAINAGE FLOW OF 100 SECOND FEET.

JUDGE BRINK ORDERS, AUGUST, 1928, GIVES 90 INCHES ADDITIONAL TO FARMERS UNION.

DRAINAGE DISTRICT NO. 3

	PERCENT OF TOTAL		PERCENT OF TOTAL
BOARD OF CONTROL	49.00	ROSSI MILL	10.00
RIDENBAUGH	24.00	MEEVES	2.00
BUBB (SOUTH BOISE MUTUAL)	15.00		

THE CREDITS GIVEN ARE BASED UPON A DRAINAGE DISCHARGE OF 15 SECOND FEET.

DRAINAGE DISTRICT NO. 4

THURMAN MILL	570.98 INCHES
RIDENBAUGH	51.34 "
WARM SPRINGS SLOUGH	127.68 "

THE CREDITS ABOVE ARE BASED ON A DRAINAGE DISCHARGE OF 750 INCHES, AND THE AMOUNTS ARE A DIRECT COURT ORDER.

INTERVENORS - STEWART DECREE

CHART NO. 21

BOISE RIVER

NUMBER	DATE	NAME	CANAL	AMOUNT DECREED		DEPT. OF WATER ADMINISTRATION
				SEC. FT.	INCHES	
8-A	4-1-1865	ADOLPH BAHLER	BAHLER	.80	40	63-0278
8-B	4-1-1865	FIRST NAT. BANK OF PUEBLO	BUBB	1.80	90	63-0280
8-C	1865	LOUISE SIMONSON	LEMP DITCH	6.00	300	63-0270
8-D	1865	S. G. HARDIES	BUBB	.50	25	63-0281
31-A	6-1-1866	WM. MUSSER	LAWRENCE & KENNEDY	2.30	115	63-0254
31-B	6-1-1866	MINNIE & JEREMIAH COUZENS	MIDDLETON WATER	.60	30	63-0255
31-C	6-1-1866	ALBERT C. BOWERMAN	LAWRENCE & KENNEDY	1.10	55	63-0001
35-A	6-1-1867	RALPH T. KNIGHT & ORA K. TILLER	CANYON COUNTY WATER CO.	1.76	88	63-0277
47-A	4-1-1870	ADOLPH BAHLER	BAHLER	.80	40	63-0279
50-A	1870	(S. G. HARDIES (AMELIA EISLEY	BUBB	1.00	50	63-0282) 63-0283)
59-A	5-1-1875	KARL F. & OTTO W. ROEDEL	INDIAN CREEK	3.20	160	63-0305
66-A	4-1-1878	J. S. KRAUSS	BALLENTYNE	.80	40	63-0265
66-C	4-1-1878	J. W. KOLANDER	BALLENTYNE	1.40	70	63-0289
66-D	4-1-1878	M. T. GRIFFITH	BALLENTYNE	.80	40	63-0264
71-A	4-1-1879	ISLAND HIGH LINE DITCH	ISLAND HIGH LINE DITCH	3.00	150	63-0291
73-A	4-1-1880	GOBLE & SOMMER	NEW DRY CREEK	.54	27	63-0288
73-B	1880	ALBERT LEMP ET AL	BAXTER DITCH	3.20	160	63-0368
74-A	6-1-1880	C. B. FRANK	NEW DRY CREEK	1.816	90.8	63-0263
77-A	6-1-1881	GUS A. BARTH	PARMA DITCH CO.	1.60	80	63-0272
77-B	6-1-1881	CHARLES JURRIES	PARMA DITCH CO.	.34	17	63-0274
77-C	6-1-1881	JAMES FINLAY	PARMA DITCH CO.	.80	40	63-0275
77-D	6-1-1881	LESTER J. SHIPPY	PARMA DITCH CO.	1.30	65	63-0273
77-E	4-15-1882	ROC HELM	RIVERSIDE IRRIG. DIST.	3.674	183.70	63-0290
85-A	6-1-1882	LEO MARSTERS	WARM SPRINGS SLOUGH	1.76	88	63-0287
85-B	4-1-1883	JACOB BINGMAN	SETTLERS	1.00	50	63-0257
85-C	5-1-1883	WM. HUCKBA	NEW DRY CREEK	.2232	11.16	63-0259
85-D	5-1-1883	C. H. SCHMELZER	BALLENTYNE	.8256	41.28	63-0260
85-E	5-1-1883	C. W. MCCLURG	NEW DRY CREEK	.385	19.25	63-0261
106-A	3-1-1889	AMELIA EISLEY	BUBB	.84	42	63-0284
114-A	5-1-1889	NEIL & PATRICK O'DONNELL	O'DONNELL & BARTH	1.60	80	63-0276
114-B	5-1-1889	GUS A. BARTH	O'DONNELL & BARTH	.80	40	63-0271
116-A	6-1-1890	ANNA SPENCER	RIVERSIDE IRRIG. DIST.	.72	36	63-0266
116-B	6-1-1890	WILLIS B. SPENCER	RIVERSIDE IRRIG. DIST.	.10	5	63-0267
116-C	6-1-1890	REBECCA BELL	RIVERSIDE IRRIG. DIST.	.40	20	63-0268
123-A	4-15-1893	OTTO & MARIE MULLER	MIDDLETON MILL DITCH	1.60	80	63-0370
124-A	5-1-1893	W. D. CHARTERS	NEW DRY CREEK	.825	41.25	63-0258
129-A	4-1-1897	H. E. PLAIN	NEW DRY CREEK	.54	27	63-0286
136	5-1-1906	H. E. WIMER	BALLENTYNE	.392	19.6	63-0285
137	5-1-1909	B. P. WEAVERLING	MACE & MACE	1.76	88	63-0253
137-A	4-1-1910	ISLAND HIGH LINE DITCH	ISLAND HIGH LINE DITCH	7.00	350	63-0292
138	6-14-1912	WESLEY A. MACE	MACE & CATLIN	.44	22	63-0361
139	4-1-1915	ISLAND HIGH LINE DITCH CO.	ISLAND HIGH LINE DITCH	10.00	500	63-0293

TABLE SHOWING CHANGE IN POINT OF DIVERSION OF DECREED RIGHTS ON ROISE RIVER

CHART NO. 22

No. OF CHANGE OF POINT OF DIVERSION	POINT OF DIVERSION		DEPT. OF WATER ADMINISTRATION	PRIORITY		DATE OF CHANGE	QUANTITY IN CFS	QUANTITY IN INCHES	BY WHOM TRANSFERRED	REMARKS
	FROM	TO		NO.	DATE					
12	SIEBENBERG	CANYON DITCH	63-0138	9	6-1-1865	4-8-1912	.50	23	HENRY MEER	
29	CALDWELL HIGH LINE	CANYON COUNTY	63-0179	46	6-1-1869	8-26-1918	1.00	30	J. C. HUGHES	
32	DAVIS	DAVIS DITCH	63-0122	119	6-1-1891	7-15-1919	.54	27	DAVIS ESTATE	
✓ 35	PIONEER DIXIE	RIVERSIDE	(63-0136	(8	9-1-1864	4-3-1919	.72	36	REBECCA BELL	
			(63-0137	(45	6-1-1869		1.28	64		
36	CANYON COUNTY	MIDDLETON WATER	63-0160	35	6-1-1867	4-12-1918	.38	19	DRAPER, BODLE, WATT, SUMNER	FLAKE DITCH
36A	AMERICAN DITCH	PIONEER DIXIE	63-0233	96	10-1-1887	4-19-1909	2.00	100	C. M. ROSENBERGER	
38	HART & DAVIS	SEVEN SUCKERS	(63-0186	(57	6-1-1872	9-24-1915	(1.04	(52	SHAFER, BLAIR, JENNINGS, PARROT	
			(63-0187	(58	6-1-1872		(	(		
39	HART & DAVIS	SEVEN SUCKERS	(63-0186	(57	6-1-1872	6-12-1918	(	(	GEORGE RAMBO	
			(63-0187	(58	6-1-1872		(	(		
47	AMERICAN DITCH	EUREKA NO. 2	63-0233	96	10-1-1887	3-18-1910	29.50	1475	AMERICAN DITCH ASSN.	
48	AMERICAN DITCH	PIONEER DIXIE	63-0233	96	10-1-1887	3-31-1910	4.10	210	NANCY & WILLIAM NICHOLS, C.W. COOPER	
50	LOWER CENTER POINT	BOWMAN & SWISHER	63-0131	19	6-1-1865	3-31-1920	2.88	144	JOHN SWISHER	
51	LOWER CENTER POINT	BOWMAN & SWISHER	63-0132	20	6-1-1865	3-31-1920	6.40	320	BIRD BOWMAN	
54	CANYON COUNTY	MIDDLETON HILL	63-0160	35	6-1-1867	4-24-1920	1.11	55.5	H. G. DUDLEY	FOOTE & WISMAN
57	MIDDLETON WATER	BALLENTYNE	63-0198	65	6-1-1877	12-2-1920	.60	30	EDWARD MCCLINTOCK	
59	KENNEDY	CANYON COUNTY	63-0165	31	6-1-1866	3-18-1921	2.60	130	DANIEL W. KENNEDY	
61	KENNEDY & LAWRENCE	MIDDLETON WATER	63-0235	318	6-1-1866	6-22-1921	.60	30	MINNIE COUZERS	
✓ 62	PIONEER DIXIE	EUREKA NO. 2	63-0233	96	10-1-1887	11-14-1910	1.00	30	J. A. CARTRIGHT	
64	BALLENTYNE	NEW DRY CREEK	63-0238	102	6-1-1888	12-21-1921	.20	10	HARRY SEARVEY	
71	UPPER CENTER POINT	EUREKA NO. 2	63-0156	24	6-1-1865	3-14-1911	.80	40	J. D. ROLAND	
75	MIDDLETON HILL	CANYON COUNTY	63-0180	59	6-1-1887	11-25-1924	.50	25	DE WERDE, NORTHWESTERN & PACIFIC HYPOTHECK BANK	
76	TURNMAN DRAIN	SETTLERS	63-0237	858	4-1-1883	3-12-1925	1.00	50	JACOB BINGHAM	
77	BURB	BAHLER	(63-0278	(8A	4-1-1865	4-26-1925	.80	40	ADOLPH BAHLER	
			(63-0279	(47A	4-1-1870		.80	40		
83	WARR SPRINGS DITCH	SETTLERS	63-0287	85A	6-1-1882	4-29-1926	.72	36	LEO MANSTERS	
84	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	3-9-1926	.80	40	J. C. RALPHS	
85	UPPER CENTER POINT	EUREKA NO. 2	63-0156	24	6-1-1865	5-7-1926	.50	25	J. C. BRUCE	
105	PANNA DITCH	PANNA DITCH	(63-0203	(71	6-1-1878	10-3-1928	11.96	598	CHARLES JIMRIES	NEW DIVERSION POINT
			(63-0209	(74	6-1-1880					
			(63-0272	(77A	6-1-1888					
			(63-0274	(77B	6-1-1888					
			(63-0275	(77C	6-1-1888					
			(63-0273	(77D	6-1-1888					
			(63-0204	(125	6-1-1894					
126	LAWRENCE & KENNEDY	MIDDLETON WATER	63-0234	31A	6-1-1866	3-25-1931	2.30	115	WILLIAM MUSSER	
127	BOWMAN & SWISHER	BAKTER DITCH	63-0152	20	6-1-1865	8-15-1930	.80	40	WILLIAM BAXTER	
131	EUREKA NO. 2	LOWER CENTER POINT	63-0223	89	11-9-1883	1-16-1932	.70	35	R. E. MCGUIRE	
140	BALLENTYNE	NEW DRY CREEK	63-0260	850	5-1-1883	4-11-1934	.06	3	CHARLES H. SCHMELEER	
141	FISCHER POWER	FISCHER POWER	63-2093		12-26-1908	12-18-1934	200.00	10000	FISCHER POWER ONLY	BELOW FAIRVIEW BRIDGE
147	MIDDLETON HILL	CANYON COUNTY	63-0160	35	6-1-1867	1-8-1936	.20	10	CORA H. CLIFTON	
148	PIONEER DIXIE	UPPER CENTER POINT	63-0233	96	10-1-1887	4-17-1936	3.00	150	DORA GREEN	
151	NEW DRY CREEK	BALLENTYNE	63-0258	124A	5-1-1893	2-18-1937	.135	6.75	J. H. COME	
152	BAHLER DITCH	RIDENBAUGH	63-0279	47A	4-1-1870	5-15-1937	.80	40	ADOLPH BAHLER	
153	REIN-KEDN-BAHLER	RIDENBAUGH	63-0249	127	5-1-1895	5-15-1937	1.00	50	ADOLPH BAHLER	
154	BAHLER DITCH	RIDENBAUGH	63-0278	8A	4-1-1865	5-15-1937	.80	40	ADOLPH BAHLER	
159	UPPER CENTER POINT	EUREKA NO. 2	63-0156	24	6-1-1865	5-27-1939	.10	5	RAYMOND T. BRESHEARS	
161	BALLENTYNE	NEW DRY CREEK	63-0239	103	6-1-1888	5-5-1940	.65	32.5	SIDMAN T. BARNER	
166	EUREKA NO. 2	PIONEER DIXIE	63-0233	96	10-1-1887	4-21-1941	.60	30	D. W. BALDWIN	
171	EUREKA NO. 2	EUREKA NO. 2	(63-0223	(89	11-9-1883	2-26-1943	21.70	1085	RAYMOND T. BRESHEARS	NEW DIVERSION POINT
			(63-0233	(96	10-1-1887		29.50	1475		
			(63-0156	(24	6-1-1865		1.30	65		

TABLE SHOWING CHANGE IN POINT OF DIVERSION OF DECREED RIGHTS ON BOISE RIVER

CHART NO. 22

NO. OF CHANGE OF POINT OF DIVERSION	POINT OF DIVERSION		DEPT. OF WATER ADMINISTRATION	PRIORITY		DATE OF CHANGE	QUANTITY IN CFS	QUANTITY IN INCHES	BY WHOM TRANSFERRED	REMARKS
	FROM	TO		NO.	DATE					
172	UPPER CENTER POINT	UPPER CENTER POINT	(63-0155)	(23	6-1-1863	2-26-1943	12.72	6960	HARRY VALE	NEW DIVERSION POINT
			(63-0156)	(24	6-1-1863					
			(63-0157)	(25	6-1-1863					
			(63-0158)	(26	6-1-1863					
			(63-0159)	(27	6-1-1863					
			(63-0233)	(96	10-1-1887		3.00	150		
174	BALLENTYNE	NEW DRY CREEK	63-0239	103	6-1-1888	3-28-1944	.24	12	FRANK M. RAY	
175	RIVERSIDE	EUREKA NO. 2	63-0222	88	6-1-1883	4-11-1944	1.70	85	WILBUR BRESHEARS	
176	HAMMON DITCH	HAAS DITCH	63-0202	70	6-1-1878	4-18-1944	8.00	440	CHARLOTTIE D. ALLEN	
179	MACE CATLIN	SEVEN SUCHERS	(63-0132)	(3	6-1-1864	3-31-1943	.168	8.4	IDAHO FISH & GAME DEPT.	
			(63-0133)	(32	6-1-1871		.072	3.6		
224	EUREKA NO. 2	BOWMAN & SWISHER	(63-0223)	(89	11-9-1883	9-3-1934	.70	35	J. E. HOUSTON	
			(63-0233)	(96	10-1-1887		.20	10		
227	O'DONNELL	BOISE RIVER	63-0276	114A	5-1-1889	12-17-1934	1.60	80	A. C. CHAWFORTH	PUMPED FROM RIVER
243	BOISE RIVER	BOISE VALLEY	63-2360	License#15242	7-19-1921	6-30-1938	1.20	60	MARIE ECHEVERRIA & J.N. KESSINGER	(FORMERLY DIVERTED FROM A SLOUGH)
245	EUREKA NO. 2	LOWER CENTER POINT	63-0223	89	11-9-1883	6-30-1938	.60	30	J. E. ENBERG	
254	ROBIE CREEK	MORES CREEK	63-2036	License#1968	5-1-1906	12-20-1961	4.00	200	HARVEY BURNETT	
257	O'DONNELL	PANNA DITCH	63-0271	114B	5-1-1889	10-10-1968	.80	40	BERT L. THEDWAY	O'DONNELL DITCH WASHED AWAY
287	EUREKA NO. 2	LOWER CENTER POINT	63-0223	89	11-9-1883	1-18-1966	1.40	70	JOHN E. ENBERG	
289	EUREKA NO. 2	UPPER CENTER POINT	63-0223	89	11-9-1883	3-18-1966	.50	25	EARL GILES	
305	NEEVES NO. 1	NEEVES NO. 2	63-0183	53	6-1-1871	6-10-1968	1.00	50	CHARLES LITTLE	
1573	LAWRENCE & KENNEDY	LITTLE PIONEER	63-8081	31C	6-1-1866	9-23-1968	1.10	55	MILTON SPARKS	
1647	THURMAN MILL	BOISE RIVER	63-0213	80	6-1-1882	12-7-1970	1.60	80	CLARENCE T. LARSON	PUMPED FROM RIVER
1711	RIDENBAUGH	SETTLERS	63-0199 (PART)	67	5-1-1878	7-3-1975	.40	20	CECIL A. THOMAS	NEW DIVERSION POINT

TRANSFER OF DECEDER RIGHTS IN BOISE RIVER

EXHIBIT NO. 25

NO. OF TRANSFER	POINT OF DIVERSION		DEPT. OF WATER ADMINISTRATION	PRIORITY		DATE OF TRANSFER	QUANTITY IN CFS.	QUANTITY IN INCHES	BY WHOM TRANSFERRED	REMARKS
	FROM	TO		NO.	DATE					
38	AMERICAN DITCH ASSN.	CANYON DITCH	63-0233	96	10-1-1887	9-1-1909	12.18	605	WM. W. MUELLER	
46	BANDER LUMBER CO.	PENITENTIARY	63-0184	30	6-1-1870	2-4-1910	2.24	112	BANDER LUMBER CO.	
103	SIEBENBERG	CANYON DITCH	63-0190	9	6-1-1865	9-18-1912	.30	25	H. F. PEEK	
111	EUREKA NO. 2	HILLCREST	63-0233	96	10-1-1887	11-25-1912	1.20	60	H. L. RANWELL ET AL	
	PIONEER DITCH	"	63-0136	8	9-1-1864		20.34	1017		
	"	"	63-0137	43	6-1-1869					
136	JACOBS	FARMERS UNION	63-0125	8	6-1-1864	6-8-1914	25.80	1000	BOISE TRUST TRACT CO.	
219	PIONEER IRRIGATION DIST.	PIONEER IRRIGATION DIST.				7-15-1918	8.64	438	PIONEER IRRIGATION DISTRICT	EXCHANGED RIGHT SIMILAR CASE
300	MIDDLETON MILL	NEW DRY CREEK	63-0124	3	6-1-1864	4-20-1921	.35	17.5	EMMA R. TAYLOR	
			63-0125	34	6-1-1871					
			63-0126	1189	6-1-1891					
301	MIDDLETON MILL	NEW DRY CREEK	63-0124	3	6-1-1864	4-20-1923	1.34	77	JOHN F. SMOGGE	
			63-0125	34	6-1-1871					
			63-0126	1189	6-1-1891					
347	MIDDLETON MILL	SETTLERS	63-0124	3	6-1-1864	8-6-1925	.14	7	C. E. WHITE	
349	MIDDLETON MILL	SETTLERS	63-0124	3	6-1-1864	2-6-1925	.14	7	FRANK WEAVER	
350	MIDDLETON MILL	SETTLERS	63-0124	3	6-1-1864	8-6-1925	.14	7	EARL A. SYON	
357	MIDDLETON WATER	SETTLERS	63-0198	65	6-1-1877	5-5-1925	.30	10	WILLIE R. WHITAKER	
370	BOISE CITY	FARMERS UNION	63-0165	33	6-1-1866	3-16-1926	1.125	26.2	HENRY W. BARTLETT	
373	BOISE CITY	FARMERS UNION	63-0165	33	6-1-1866	4-26-1926	.325	18.7	L. A. RICE	
374	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	5-6-1926	.40	20	R. D. PARKS	
375	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	5-6-1926	.40	20	R. D. PARKS	
384	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	7-8-1926	.40	20	DARY F. LEMCH	
385	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	7-8-1926	.466	13.3	H. E. McCOMBELL	
386	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	7-8-1926	.40	20	H. W. BARTLETT	
387	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	7-8-1926	.40	20	E. E. SMITH	
391	MIDDLETON MILL	FARMERS UNION	63-0124	3	6-1-1864	8-13-1926	.15	7.5	RYAN CHASE	
			63-0125	34	6-1-1871					
392	MIDDLETON WATER	RIDENBAUGH	63-0198	65	6-1-1877	8-21-1926	.40	20	FRED EMMERS	
393	MIDDLETON MILL	FARMERS UNION	63-0124	3	6-1-1864	9-15-1926	.288	14.4	A. C. BOWENMAN	
			63-0125	34	6-1-1871					
			63-0126	1189	6-1-1891					
395	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	11-16-1926	.30	25	E. B. MCGUIRE	
412	BOYMAN MILL	SETTLERS	63-0214	81	6-1-1880	12-3-1927	.40	20	CHAS. P. WACE	
430	FARMERS UNION	SETTLERS	63-0190	65	6-1-1877	7-2-1928	.25	12.5	D. E. ALLISON	
466	RIDENBAUGH	NEW YORK	63-0200	106	8-20-1888	7-6-1929	8.30	445	W. W. TULLER	FORMERLY MIDDLETON WATER
512	JACOBS CANAL	FARMERS UNION	63-0120	1	6-1-1864	5-27-1932	1.00	30	W. SCOTT ANDERSON	
513	JACOBS CANAL	FARMERS UNION	63-0120	1	6-1-1864	5-27-1932	.30	25	FARMERS UNION DITCH	
530	JACOBS CANAL	FARMERS UNION	63-0120	1	6-1-1864	5-15-1934	.30	15	A. B. WHITNEY	
595	JACOBS CANAL	NAMPA PERIDIAN	63-0120	1	6-1-1864	9-9-1938	.20	10	BOISE TRUST CO.	
	"	SETTLERS					.20	10		SOMMERFELD FALL
608	RIVERSIDE	PIONEER DITCH	63-0222	88	6-1-1883	4-29-1940	1.00	30	W. F. TRACY	
644	RIVERSIDE	PIONEER DITCH	63-0222	88	6-1-1883	12-9-1942	.70	35	S. E. SMITH	
654	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	10-18-1943	2.00	100	W. W. HOWELL	
660	RIVERSIDE	PIONEER DITCH	63-0222	88	6-1-1883	4-11-1944	.60	30	D. W. BALDWIN	LARSON-HAMMING-BUDGE TRACTS
694	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	4-29-1946	.68	34	W. W. HOWELL	
701	CONSUMERS	NEW YORK	63-0161	30	5-1-1866	12-20-1946	2.00	100	W. W. HOWELL	EARL-FEWES-STARK-KYLE
702	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	12-20-1946	.60	30	W. W. HOWELL	REF. JENSEN (BOISE-RUNA IRRIG.)
712	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	6-14-1947	.90	45	W. W. HOWELL	MRS. EDITH CURTIS
713	CONSUMERS	NEW DRY CREEK	63-0161	30	5-1-1866	6-14-1947	.34	27	W. W. HOWELL	SIMPSON-DEWIND-SIMPSON
717	SIEBENBERG	FARMERS CO-OP.	63-0130	9	6-1-1865	11-25-1947	.64	32	W. W. HOWELL	J. S. PEEK
720	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	5-4-1948	1.34	67	R. M. TUCKER	
									W. W. HOWELL	DOTY-EROUJAGA-ODERHOTT- CALDWELL-STEEL-ROYLANCE

NO. OF TRANSFER	POINT OF DIVERSION		DEPT. OF WATER ADMINISTRATION	PRIORITY		DATE OF TRANSFER	QUANTITY		BY WHOM TRANSFERRED	REMARKS
	FROM	TO		NO.	DATE		IN CFS	IN INCHES		
38	AMERICAN DITCH ASSN.	CANYON DITCH	63-0233	96	10-1-1887	9-1-1909	12.10	605	MR. H. KESSLER	
46	BARBER LUMBER CO.	PENITENTIARY	63-0184	30	6-1-1870	2-4-1910	2.24	112	BARBER LUMBER CO.	
105	SIEBENMERS	CANYON DITCH	63-0138	9	6-1-1865	9-18-1912	.50	25	H. E. MEER	
111	EUREKA NO. 2	HILLCREST	63-0233	96	10-1-1887	11-25-1912	1.20	60	H. L. RANDALL ET AL	
	PIONEER DITCH	"	63-0136	8	9-1-1864		20.34	1017		
	"	"	63-0137	43	6-1-1869					
136	JACOBS	FARMERS UNION	63-0123	2	6-1-1864	6-8-1914	20.00	1000	BOISE FRUIT TRACT CO.	
219	PIONEER IRRIGATION DIST.	PIONEER IRRIGATION DIST.				7-15-1918	8.64	432	PIONEER IRRIGATION DISTRICT	LICENSED RIGHT INDIAN CREEK
300	MIDDLETON HILL	NEW DRY CREEK	63-0124	3	6-1-1864	4-20-1921	.35	17.5	EMMA M. FOWLER	
			63-0125	34	6-1-1871					
			63-0126	120	6-1-1891					
301	MIDDLETON HILL	NEW DRY CREEK	63-0124	3	6-1-1864	4-20-1921	1.54	77	JOHN F. CROOME	
			63-0125	34	6-1-1871					
			63-0126	120	6-1-1891					
347	MIDDLETON HILL	SETTLERS	63-0124	3	6-1-1864	2-6-1923	.14	7	C. E. WHITE	
349	MIDDLETON HILL	SETTLERS	63-0124	3	6-1-1864	2-6-1923	.14	7	FRANK WEASEL	
350	MIDDLETON HILL	SETTLERS	63-0124	3	6-1-1864	2-6-1923	.14	7	CARL A. GISH	
357	MIDDLETON WATER	SETTLERS	63-0198	65	6-1-1877	5-5-1923	.20	10	NELLIE B. WHITAKER	
370	BOISE CITY	FARMERS UNION	63-0165	33	6-1-1866	3-16-1926	1.125	56.2	HENRY W. BARTLETT	
373	BOISE CITY	FARMERS UNION	63-0165	33	6-1-1866	4-26-1926	.375	18.7	L. A. RICE	
374	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	5-6-1926	.40	20	H. D. PARKS	
375	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	5-6-1926	.20	10	A. G. VINE	
384	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	7-8-1926	.40	20	MARY F. LEACH	
385	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	7-8-1926	.266	13.3	H. E. MCCONNELL	
386	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	7-8-1926	.40	20	H. W. BARTLETT	
387	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	7-8-1926	.40	20	E. E. SMITH	
391	MIDDLETON HILL	FARMERS UNION	63-0124	3	6-1-1864	8-15-1926	.15	7.5	RUSH CHASE	
			63-0125	34	6-1-1871					
392	MIDDLETON WATER	RIDENBAUGH	63-0198	65	6-1-1877	8-21-1926	.40	20	FRED EGGERS	
393	MIDDLETON HILL	FARMERS UNION	63-0124	3	6-1-1864	9-15-1926	.288	14.4	A. C. BOWENMAN	
			63-0125	34	6-1-1871					
			63-0126	120	6-1-1891					
395	MIDDLETON WATER	FARMERS UNION	63-0198	65	6-1-1877	11-16-1926	.50	25	G. R. MCGUIRE	
417	BARMAN HILL	SETTLERS	63-0214	81	6-1-1882	12-3-1927	.40	20	CHAS. P. RACE	
430	FARMERS UNION	SETTLERS	63-0198	65	6-1-1877	7-2-1928	.25	12.5	O. E. ALLISON	FORMERLY MIDDLETON WATER
466	RIDENBAUGH	NEW YORK	63-0700	106	8-20-1888	7-6-1929	8.90	445	W. H. TULLER	
512	JACOBS CANAL	FARMERS UNION	63-0120	1	6-1-1864	5-27-1932	1.00	50	W. SCOTT ANDERSON	
513	JACOBS CANAL	FARMERS UNION	63-0120	1	6-1-1864	5-27-1932	.50	25	FARMERS UNION DITCH	
530	JACOBS CANAL	FARMERS UNION	63-0120	1	6-1-1864	5-15-1934	.30	15	A. B. WHITNEY	
595	JACOBS CANAL	KANPA MERIDIAN	63-0120	1	6-1-1864	9-9-1938	.20	10	BOISE TRUST CO.	SOMERHEIM
	"	SETTLERS					.20	10		FALH
608	RIVERSIDE	PIONEER DITCH	63-0222	88	6-1-1883	4-29-1940	1.00	50	W. F. TRACY	
644	RIVERSIDE	PIONEER DITCH	63-0222	88	6-1-1883	12-9-1942	.70	35	S. E. SMITH	
654	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	10-18-1943	2.00	100	W. W. HOWELL	LARSON-HAMMING-BUDGE TRACTS
660	RIVERSIDE	PIONEER DITCH	63-0222	88	6-1-1883	4-11-1944	.60	30	D. W. BALDWIN	
694	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	4-29-1946	.68	34	W. W. HOWELL	EARL-FEMKEN-STARK-KYLE
701	CONSUMERS	NEW YORK	63-0161	30	5-1-1866	12-20-1946	2.00	100	W. W. HOWELL	REX-JENSEN (BOISE-KONA TRIB. CO.)
702	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	12-20-1946	.60	30	W. W. HOWELL	MRS. EDITH CURTIS
712	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	6-14-1947	.90	45	W. W. HOWELL	SIMPSON-DEWIND-SIMPSON
713	CONSUMERS	NEW DRY CREEK	63-0161	30	5-1-1866	6-14-1947	.34	27	W. W. HOWELL	J. S. REBE
717	SIEBENMERS	FARMERS CO-OP.	63-0138	9	6-1-1865	11-25-1947	.64	32	R. M. TUCKER	
720	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	5-4-1948	1.34	67	W. W. HOWELL	DOTY-EROUJARA-DEERHOTT-CALDWELL-STEEL-ROYLANCE

TRANSFERS OF DECREE RIGHTS ON BOISE RIVER

COPY NO. 23

No. of TRANSFER	POINT OF DIVERSION		DEPT. OF WATER ADMINISTRATION	PRIORITY		DATE OF TRANSFER	QUANTITY IN CFS	QUANTITY IN INCHES	BY WHOM TRANSFERRED	REMARKS
	FROM	TO		NO.	DATE					
736	BARHAM HILL	SETTLERS	63-0170	37	6-1-1868	3-9-1949	1.00	30	AIRCRAFT SERVICE CO.	
737	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	3-9-1949	1.10	33	W. W. HOWELL	
739	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	4-2-1949	.15	7.5	W. W. HOWELL	
733	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	4-14-1930	.46	23	J. R. FIELD	8" HAGER TRACT, 15" KIMBLE TRACT
734	CONSUMERS	MIDDLETON HILL	63-0161	30	3-1-1866	4-14-1930	.40	20	J. R. FIELD	BRINK TRACT
790	HILLCREST	NEW YORK	63-0136	1	8-1-1864	3-28-1932	21.34	1077	FOREST SOWER	
			63-0137	1	43-1-1869					
			63-0233	1	96-1-1887					
823	CONSUMERS	NEW YORK	63-0161	30	3-1-1866	7-13-1934	6.00	300	G. S. TAYLOR	BOISE-MUNA IRRIGATION DIST.
829	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	9-3-1934	.48	24	G. S. TAYLOR	10"-GOLDEN FENT, 14"-EDMUND RUCKLEY
871	BARHAM HILL	SETTLERS	63-0169	36	6-1-1868	10-2-1936	.288	14.4	J. FRANK BRYCE	
872	BARHAM HILL	SETTLERS	63-0169	36	6-1-1868	10-2-1936	.22	11	GEORGE D. KEYBER, JR.	
873	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	10-2-1936	.20	10	G. S. TAYLOR	THEODORE L. JOHNSON TRACT
890	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	7-11-1937	.10	5	FRANCIS H. WEITZEL	R. S. POTTER TRACT
906	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	4-3-1938	.10	5	FRANK WEITZEL	R. W. WHITE TRACT
917	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	12-13-1938	.20	10	FRANCIS H. WEITZEL	MAM-SPRADUE TRACT
918	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	12-13-1938	.025	1.25	FRANCIS H. WEITZEL	H. P. IRBY TRACT
940	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	2-13-1960	.03	2.5	FRANK WEITZEL	EARL M. & DELLA LUNEHART TRACT
976	CONSUMERS	NEW YORK	63-0161	30	3-1-1866	1-17-1962	1.30	75	G. S. TAYLOR	SYNDS FRUIT RANCH, INC.
977	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	1-17-1962	.20	10	G. S. TAYLOR	EVERET RAMBO TRACT
979	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	2-23-1962	.10	5	G. S. TAYLOR	R. E. & DAISY M. THOMPSON TRACT
980	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	2-23-1962	.12	6	G. S. TAYLOR	CHESNEY LITTLE TRACT
989	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	3-29-1962	.20	10	G. S. TAYLOR	THELSON E. CHRISTENSEN TRACT
990	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	7-5-1962	.08	4	G. S. TAYLOR	LYLE F. TRAPP TRACT
991	CONSUMERS	SETTLERS	63-0161	30	3-1-1866	7-5-1962	.16	8	G. S. TAYLOR	CHARLES G. HYDE TRACT
1007	CONSUMERS	NEW YORK	63-0161	30	3-1-1866	4-17-1963	1.00	30	G. S. TAYLOR	GLENN DRAPER
1009	NEW DRY CREEK	DRAIN DITCH	63-0208	73-A	4-1-1890	5-16-1963	.10	5	NEW DRY CREEK	R. B. BETTY
1010	CONSUMERS	NEW YORK	63-0161	30	3-1-1866	6-24-1963	2.00	100	G. S. TAYLOR	JOHN DORSON
1011	CONSUMERS	RIVER	63-0161	30	3-1-1866	6-3-1963	3.00	150	G. S. TAYLOR	SURPRISE VALLEY FARMS
1017	CONSUMERS	NEW YORK	63-0161	30	3-1-1866	9-28-1963	.60	30	G. S. TAYLOR	FRANCIS HERMAN TRACT
1033	CONSUMERS	MUNES CREEK	63-0161	30	3-1-1866	9-4-1964	2.00	100	G. S. TAYLOR	CARL NICHOLSON
1038	CONSUMERS	PHYLLIS	63-0161	30	3-1-1866	10-28-1964	21.713	1085.73	G. S. TAYLOR	PIONEER IRRIGATION DIST.
1048	BOISE CITY	FARMERS UNION	63-0165	33	6-1-1866	3-18-1965	.0873	4.38	BOISE CITY CANAL	LEATHERMAN & BINGHAM
1059	BOISE CITY	FARMERS UNION	63-0165	33	6-1-1866	10-28-1965	.10	5	BOISE CITY CANAL	M. T. & HATTIE M. SPRINGER
1074	MUNES CREEK	NEW YORK	63-0161	30	3-1-1866	10-13-1966	2.00	100	CARL NICHOLSON	AYALON ORCHARD TRACTS
1855	MAYVILLE & LEONARD	FARMERS UNION	63-0164B	32	6-1-1866	11-17-1973	1.20	90.0	SYRINGA GARDENS	

TRANSFERS OF DECREE RIGHTS ON BOISE RIVER

CHART NO. 23

No. of TRANSFER	POINT OF DIVERSION		DEPT. OF WATER ADMINISTRATION	PRIORITY		DATE OF TRANSFER	QUANTITY IN CFS	QUANTITY IN INCHES	BY WHOM TRANSFERRED	REMARKS
	FROM	TO		NO.	DATE					
736	THURMAN HILL	SETTLERS	63-0170	37	6-1-1866	3-9-1949	1.00	30	AIRCRAFT SERVICE CO.	
737	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	3-9-1949	1.10	33	W. M. HOWELL	
739	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	4-2-1949	.15	7.5	W. M. HOWELL	
733	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	4-14-1930	.46	23	J. R. FIELD	B ⁿ HAGER TRACT, 15 ⁿ KIMBLE TRACT
734	CONSUMERS	MIDDLETON HILL	63-0161	30	5-1-1866	4-14-1930	.40	20	J. R. FIELD	BRINK TRACT
790	HILLCREST	NEW YORK	63-0136	1 8 ~	9-1-1864	3-28-1932	21.34	1077	FOREST SOMER	
			63-0137	1 45 ~	6-1-1869					
			63-0233	1 96 ~	10-1-1887					
823	CONSUMERS	NEW YORK	63-0161	30	5-1-1866	7-13-1934	6.00	300	G. S. TAYLOR	BOISE-MINA IRRIGATION DIST.
829	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	9-3-1934	.48	24	G. S. TAYLOR	10 ⁿ -GOLDEN RENT, 14 ⁿ -EDMUND BUCKLEY
871	THURMAN HILL	SETTLERS	63-0169	36	6-1-1868	10-2-1936	.288	14.4	J. FRANK BRYCE	
872	THURMAN HILL	SETTLERS	63-0169	36	6-1-1868	10-2-1936	.22	11	GEORGE D. KEYSER, JR.	
873	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	10-2-1936	.20	10	G. S. TAYLOR	THEODORE L. JOHNSON TRACT
890	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	7-11-1937	.10	5	FRANCIS H. WEITZEL	R. S. POTTER TRACT
906	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	4-3-1938	.10	5	FRANK WEITZEL	R. M. WHITE TRACT
917	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	12-15-1938	.20	10	FRANCIS H. WEITZEL	MAW-SPRADLEY TRACT
918	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	12-15-1938	.025	1.25	FRANCIS H. WEITZEL	H. P. IRBY TRACT
940	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	8-15-1960	.05	2.5	FRANK WEITZEL	EARL M. & DELEA LUNEHART TRACT
976	CONSUMERS	NEW YORK	63-0161	30	5-1-1866	1-17-1962	1.30	75	G. S. TAYLOR	SYMMES FRUIT RANCH, INC.
977	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	1-17-1962	.20	10	G. S. TAYLOR	EVERET RAMBO TRACT
979	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	2-23-1962	.10	5	G. S. TAYLOR	R. E. & DAISY M. THOMPSON TRACT
980	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	2-23-1962	.12	6	G. S. TAYLOR	CHESNEY LITTLE TRACT
989	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	3-29-1962	.20	10	G. S. TAYLOR	THELSON E. CHRISTENSEN TRACT
990	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	7-3-1962	.08	4	G. S. TAYLOR	LYLE F. THAPP TRACT
991	CONSUMERS	SETTLERS	63-0161	30	5-1-1866	7-3-1962	.16	8	G. S. TAYLOR	CHARLES G. HYDE TRACT
1007	CONSUMERS	NEW YORK	63-0161	30	5-1-1866	4-17-1963	1.00	30	G. S. TAYLOR	GLENH DRAPER
1009	NEW DRY CREEK	DRAIN DITCH	63-0200	73-A	4-1-1890	5-16-1963	.10	5	NEW DRY CREEK	R. B. BETTY
1010	CONSUMERS	NEW YORK	63-0161	30	5-1-1866	6-24-1963	2.00	100	G. S. TAYLOR	JOHN DORSON
1011	CONSUMERS	RIVER	63-0161	30	5-1-1866	6-3-1963	3.00	150	G. S. TAYLOR	SURPRISE VALLEY FARMS
1017	CONSUMERS	NEW YORK	63-0161	30	5-1-1866	9-28-1963	.60	30	G. S. TAYLOR	FRANCIS HERMAN TRACT
1033	CONSUMERS	ROYES CREEK	63-0161	30	5-1-1866	9-4-1964	2.00	100	G. S. TAYLOR	CARL NICHOLSON
1038	CONSUMERS	PHYLLIS	63-0161	30	5-1-1866	10-28-1964	21.715	1085.75	G. S. TAYLOR	PIOMER IRRIGATION DIST.
1048	BOISE CITY	FARMERS UNION	63-0165	33	6-1-1866	5-18-1965	.0875	4.38	BOISE CITY CANAL	LEATHERMAN & BINGMAN
1059	BOISE CITY	FARMERS UNION	63-0165	33	6-1-1866	10-29-1965	.10	5	BOISE CITY CANAL	M. T. & HATTIE M. SPRINGER
1074	ROYES CREEK	NEW YORK	63-0161	30	5-1-1866	10-13-1966	2.00	100	CARL NICHOLSON	AYALON ORCHARD TRACTS
1055	HANVILLE & LEONARD	FARMERS UNION	63-01640	32	6-1-1866	11-17-1973	1.80	90.0	SYRINGA GARDENS	

STEWART DECREE

CHART NO. 24

BOISE RIVER

NUMBER	DATE	NAME	AMOUNT DECREED		DEPT. OF WATER ADMINISTRATION
			SEC. FT.	INCHES	
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	J. N. TUCKER	6.00	300	63-0128
29	6-1-1865	THOMAS ANDREWS	50.00	2500	63-0161
30	5-1-1866	J. PERRAULT & R. JOHNSON	2.60	130	63-0163
31	6-1-1866	WILLIAM P. KENNEDY	3.50	175	63-0164
32	6-1-1866	MANVILLE & LEONARD	38.06	1903	63-0165
33	6-1-1866	BOISE CITY CANAL CO.	15.40	770	63-0166
34	7-3-1866	FRANKLIN DITCH CO.	75.80	3790	63-0168
35	6-1-1867	CANYON COUNTY WATER CO.	14.10	705	63-0169
36	6-1-1868	MARTHA E. MCCARTY	3.70	185	63-0170
37	6-1-1868	H. D. & DORA GOODMAN	3.20	160	63-0171
38	6-1-1868	T. T. JOHNSON	8.54	427	63-0172
39	6-1-1868	ROSS, ALLEN, DILLEY & ROSS	1.40	70	63-0173
40	6-1-1868	S. S. GRAY	1.80	90	63-0174
41	6-1-1869	JOHN MAMMON	1.60	80	63-0176
42	6-1-1869	ISAAC BEDAL	3.60	180	63-0177
43	6-1-1869	FREDERICK ODE	8.50	425	63-0178
44	6-1-1869	PRIOR BURNETT	35.44	1772	63-0137
45	6-1-1869	PIONEER DIXIE DITCH CO.			

STEWART DECREE

CHART NO. 24

BOISE RIVER

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

STEWART DECREE

CHART NO. 24

BOISE RIVER

NUMBER	DATE	NAME	AMOUNT DECREED		DEPT. OF WATER ADMINISTRATION
			SEC. FT.	INCHES	
91	6-1-1884	RIVERSIDE IRRIGATION DISTRICT			
92	10-17-1884	SETTLERS CANAL CO.	20.00	1000	63-0226
93	6-1-1886	NEW DRY CREEK DITCH	99.06	4953	63-0230
94	6-1-1886	THOMAS DAVIS	15.22	761	63-0206
95	1-23-1887	WM. C., L. & E. YOUNG	13.40	670	63-0121
96	10-1-1887	AMERICAN DITCH ASSOCIATION	4.00	200	63-0232
97	6-1-1888	NEW DRY CREEK DITCH CO.	47.80	2390	63-0233
98	6-1-1888	A. V. LINDER	7.86	393	63-0207
99	6-1-1888	LEVI SMITH	4.00	200	63-0234
100	6-1-1888	CHARLOTTE CALHOUN	1.30	65	63-0235
101	6-1-1888	ED. J. LINDER	1.40	70	63-0236
102	6-1-1888	LIZZIE EVERETT	1.46	73	63-0237
103	6-1-1888	JESSE WILSON	1.20	60	63-0238
104	6-1-1888	THOMAS ANDREWS	1.40	70	63-0239
105	7-1-1888	FARMERS COOPERATIVE DITCH CO.	.90	45	63-0130
106	8-20-1888	NAMPA MERIDIAN IRRIGATION DISTRICT	50.00	2500	63-0190
107	5-1-1889	CHARLES H. MILLER	370.84	18542	63-0200
108	5-1-1889	LOOMIS L. HOSLEY	.06	3	63-0240
109	5-1-1889	S. J. UTTER & C. B. TAYLOR	.02	1	63-0241
110	5-1-1889	SOUTH BOISE MUTUAL IRRIGATION CO.	2.40	120	63-0242
111	5-1-1889	ESTATE OF J. H. GALLAGHER	6.00	300	63-0243
112	5-1-1889	ANNIE H. FOGARTY	2.94	147	63-0244
113	5-1-1889	GRACE CALL	.05	2.5	63-0245
114	5-1-1889	SAMUEL H. CANFIELD	.10	5	63-0246
115	6-1-1889	SONORA JOPLIN	.03	1.5	63-0247
116	6-1-1889	SONORA JOPLIN	.06	3	63-0215
117	9-1-1890	PIONEER IRRIGATION DISTRICT	1.20	60	63-0216
118	6-1-1891	W. H. CONWAY	200.00	10000	63-0224
119	6-1-1891	THOMAS DAVIS	2.20	110	63-0197
120	6-1-1891	MIDDLETON MILL DITCH CO.	.54	27	63-0122
121	6-1-1891	THOMAS ANDREWS	17.00	850	63-0126
122	6-1-1891	SETTLERS CANAL CO.	3.50	175	63-0131
123	6-1-1891	THOMAS AIKEN	73.44	3672	63-0231
124	5-1-1893	RIVERSIDE IRRIGATION DISTRICT	.80	40	63-0195
125	6-1-1894	R. H. STOCKTON	80.00	4000	63-0227
126	7-2-1894	FARMERS UNION DITCH CO.	1.76	88	63-0204
127	5-1-1895	CHARLES REIN & JANE KEOM	110.00	5500	63-0248
128	7-1-1895	MATHEW CASEY	1.00	50	63-0249
129	7-1-1896	FARMERS COOPERATIVE DITCH CO.	.66	33	63-0250
130	10-1-1899	RIVERSIDE IRRIGATION DISTRICT	83.50	4175	63-0191
131	3-23-1900	NEW YORK CANAL CO.	20.00	1000	63-0228
132	5-17-1900	CANYON DITCH CO.	219.10	10955	63-0251
133	6-1-1901	RIVERSIDE IRRIGATION DISTRICT	10.00	500	63-0369
134	10-25-1901	CANYON DITCH CO.	70.00	3500	63-0229
135	4-1-1904	PIONEER IRRIGATION DISTRICT	5.54	277	63-0252
			56.34	2817	63-0225

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY NO.	DATE	AMOUNT DECREED			TOTAL SEC. FT.
					STEWART DECREE	INTERVENORS STEWART DECREE	BRYAN DECREE	INCHES
AIKEN			63	6-1-1877	5.20			260
			73-A	4-1-1880	.10			5
ANDREWS DITCH			4	6-1-1864	3.30			165
			29	6-1-1865	6.00			300
			44	6-1-1869	8.50			425
			51	5-1-1870	1.30			55
			104	6-1-1888	.90			45
			121	6-1-1891	3.50			175
BALLENTYNE			98	6-1-1888	4.00			200
			99	6-1-1888	1.30			65
			100	6-1-1888	1.40			70
			101	6-1-1888	1.46			73
			102	6-1-1888	1.20			60
			103	6-1-1888	1.40			70
			123	6-1-1891	.80			40
			66-A	4-1-1878		.80		40
			66-C	4-1-1878		1.40		70
			66-D	4-1-1878		.80		40
			85-D	5-1-1883		.8256		41.29
			136	5-1-1906		.392		19.6
	57		65	6-1-1877	.60			30
	64"		102	6-1-1888	.20"			10"
	140"		85-D	5-1-1883		.07"		3.5"
	151		124-A	5-1-1893		.135		6.75
	161"		103	6-1-1888	.65"			32.5"
	174"		103	6-1-1888	.24"			12"
BAXTER			73-B	1880		3.20		50
	127		20	6-1-1865	.90			40
BOISE CITY			33	6-1-1866	38.06			1903
	370"		33	6-1-1866	1.124"			56.2"
	373"		33	6-1-1866	.374"			18.7"
	1048"		33	6-1-1866	.0875"			4.375"
	1059"		33	6-1-1866	.10"			5"

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY		STEWART DECREE	AMOUNT DECREED			TOTAL SEC. FT.
			NO.	DATE		INTERVENORS STEWART DECREE	BRYAN DECREE	INCHES	
BOISE VALLEY									
LICENSED RIGHT #15242		243	15	6-1-1865	54.58			2729	
				7-19-1921			(1.20)	60	55.78
BOONE DITCH			28	6-1-1865	7.00			350	
			47	6-1-1869	3.50			175	
			59	6-1-1874	2.20			110	12.70
BOWMAN & SNISHER	50		19	6-1-1865	2.88			144	
	51		20	6-1-1865	6.40			320	
	127*		20	6-1-1865	.80*			40*	
	224		89	11-9-1883	.20			45	9.38
			96	10-1-1887	.70				
BUBB (SOUTH BOISE MUTUAL)			107	5-1-1889	.06			3	
			108	5-1-1889	.02			1	
			109	5-1-1889	2.40			120	
			110	5-1-1889	6.00			300	
			111	5-1-1889	2.94			147	
			112	5-1-1889	.05			2.5	
			113	5-1-1889	.10			5	
			114	5-1-1889	.03			1.5	
			8-B	4-1-1865		1.80		90	
			8-D	4-1-1865		.50		25	
			50-A	1870		1.00		50	
			106-A	3-1-1889		.84		42	
				4-1-1905			5.40	270	21.14

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY		INTERVENORS			INCHES	TOTAL SEC. FT.
			NO.	DATE	STEWART DECREE	STEWART DECREE	BRYAN DECREE		
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 (LITTLE DAVIS)			94	6-1-1886	13.40			670	
			119	6-1-1891	.54			27	13.94
EUREKA NO. 1									
			13	6-1-1865	33.32			1666	33.32

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	NO.	PRIORITY DATE	AMOUNT DECREED				TOTAL SEC. FT.
					STEWART DECREE	STEWART DECREE	BRYAN DECREE	INCHES	
EUREKA No. 2									
	47		89	11-9-1883	21.70			1085	
	62		96	10-1-1887	29.50			1475	
	71		96	10-1-1887	1.00			50	
	85		24	6-1-1865	.80			40	
			24	6-1-1865	.50			25	
		111*	96	10-1-1887	1.20*			60*	
	131*		89	11-9-1883	.70*			35*	
	159		24	6-1-1865	.10			5	
	175		88	6-1-1883	1.70			85	
	224*		89	11-9-1883	.20*			10*	
			96	10-1-1887	.70*			35*	
	225*		89	11-9-1883	.60*			30*	
	287*		89	11-9-1883	1.40*			70*	
	289*		89	11-9-1883	.50*			25*	50.00
FARMERS UNION									
			126	7-2-1894	110.00			5500	
	136		2	6-1-1864	20.00			1000	
	370		33	6-1-1866	1.124			56.2	
	373		33	6-1-1866	.374			18.7	
	374		65	6-1-1877	.40			20	
	375		65	6-1-1877	.20			10	
	384		65	6-1-1877	.40			20	
	385		65	6-1-1877	.266			13.3	
	386		65	6-1-1877	.40			20	
	387		65	6-1-1877	.40			20	
	391		31	6-1-1864					
			54)	6-1-1871	.15			7.5	
	393		31	6-1-1864					
			54)	6-1-1871	.288			14.4	
			120)	6-1-1891					
	395		65	6-1-1877	.50			25	
	430*		65	6-1-1877	.25*			12.5*	
			65	6-1-1877	.80			40	
84			65	6-1-1877	1.00			50	
	512		1	6-1-1864	.50			25	
	513		1	6-1-1864	.30			15	
	530		1	6-1-1864					
				7-2-1894			54.46	2723	
				6-1-1866	.0875			4.375	
	1048		33	6-1-1866	.10			5	
	1059		33	6-1-1866	1.80			90	
	1855		32	6-1-1866					193.2995
GRAHAM & GILBERT									
			12	6-1-1865	4.40			220	4.40

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY		AMOUNT DECREED			
			NO.	DATE	STEWART DECREE	STEWART DECREE	BRYAN DECREE	TOTAL INCHES SEC. FT.
HAAS DITCH	176		39	6-1-1868	8.54			427
			70	6-1-1878	8.80			440 17.34
HART & DAVIS	38*) 39*)		6	6-1-1864	3.30			165
			57	6-1-1872	4.40			220
			58	6-1-1872	3.30			165
			57	6-1-1872	.54*			27*
			58	6-1-1872	.50*			25* 9.96
ISLAND HIGH LINE			71-A	4-1-1879		3.00		150
			137-A	4-1-1910		7.00		350
			139	4-1-1915		10.00		500 20.00
LEMP DITCH			8-C	1865		6.00		300 6.00
LITTLE PIONEER	1575		49	6-1-1870	25.72			1286
			31-C	6-1-1866		1.10		55 26.82
LOWER CENTER POINT	50* 51* 131 245 287		19	6-1-1865	2.89			144
			20	6-1-1865	5.40			320
			21	6-1-1865	2.90			145
			22	6-1-1865	3.20			160
			38	6-1-1868	3.20			160
			43	6-1-1869	3.60			180
			73	6-1-1879	4.00			200
			19	6-1-1865	2.88*			144*
			20	6-1-1865	6.40*			320*
			89	11-9-1883	.70			35
			89	11-9-1883	.60			30
			89	11-9-1883	1.40			70 19.60

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE P. OF D.	TRANSFER	PRIORITY		AMOUNT DECREED			INCHES	TOTAL SEC. FT.
			NO.	DATE	INTERVENORS				
					STEWART DECREE	STEWART DECREE	BRYAN DECREE		
MACE CATLIN			5	6-1-1864	2.86			143	
			52	6-1-1871	7.86			393	
	179*		51	6-1-1864	.168*			8.4	
			521	6-1-1871	.072*			3.6	
			138	6-14-1912		.44		22	10.92
MACE & MACE			137	5-1-1909		1.76		88	1.76
HAMMON			41	6-1-1869	1.80			90	
			68	6-1-1878	4.20			210	
			69	5-1-1878	3.36			168	
			70	5-1-1878	8.80			440	
	176*		70	6-1-1878	8.80*			440*	9.36
MIDDLETON MILL			3	6-1-1864	12.80			640	
			40	6-1-1868	1.40			70	
			54	5-1-1871	33.70			1685	
			120	6-1-1891	17.00			850	
	54		35	6-1-1867	1.11			55.5	
	75*		35	6-1-1867	.50*			25*	
	147*		35	6-1-1867	.20*			10*	
		300*	31	6-1-1864					
			541	6-1-1871	.35*			17.5*	
			1201	6-1-1891					
		301*	31	5-1-1864					
			541	6-1-1871	1.54*			77*	
			1201	6-1-1891					
		347*	3	6-1-1864	.14*			7*	
		349*	3	6-1-1864	.14*			7*	
		350*	3	6-1-1864	.14*			7*	
		391*	31	6-1-1864					
			541	6-1-1871	.15*			7.5*	
		393*	31	6-1-1864					
			541	6-1-1871	.288*			14.4*	
			1201	6-1-1891					
		754	30	5-1-1866	.40			20	
			123-A	5-15-1893		1.60		80	64.562

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY		AMOUNT DECREED				TOTAL SEC. FT
			NO.	DATE	STEWART DECREE	INTERVENORS STEWART DECREE	BRYAN DECREE	INCHES	
MIDDLETON IRRIGATION			65	6-1-1877	114.08			5704	
	36		35	6-1-1867	.38			19	
	57*		65	5-1-1877	.50*			30*	
	61		31-8	6-1-1866		.60		30	
	84*		65	6-1-1877	.80*			40*	
	126		31-A	6-1-1866		2.30		115	
		357*	65	6-1-1877	.20*			10	
		374*	65	6-1-1877	.40*			20*	
		375*	65	6-1-1877	.20*			10*	
		384*	65	6-1-1877	.40*			20*	
		385*	65	6-1-1877	.266*			13.3*	
		386*	65	6-1-1877	.40*			20*	
		387*	65	6-1-1877	.40*			20*	
		392*	65	6-1-1877	.40*			20*	
		395*	65	5-1-1877	.50*			25*	112.
<u>MISCELLANEOUS</u>									
R. B. BETTY		1009	73-A	4-1-1880		.10		5	.10
✓ CRAWFORTH PUMP	227		114-A	5-1-1889		1.60		80	1.60
BOISE RIVER			80	6-1-1882	1.60			80	1.60
DRAINAGE DISTRICT #4 (MARSTERS DITCH)	83*		85-A	6-1-1882		1.76		88	
			85-A	6-1-1882		.72*		36*	1.04
MANVILLE-LEONARD			32	6-1-1866	3.50			175	
		1855*	32	6-1-1866	1.80*			30*	1.70
MCCURRY PUMP (LICENSED RIGHT #33487)				2-22-1967	(.56)			28	.56
MEEVES			53	6-1-1871	1.30			90	1.30
✓ SURPRISE VALLEY FARMS		1011	30	5-1-1866	3.00			150	3.00

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OR D.	TRANSFER	PRIORITY		AMOUNT DECREED				TOTAL SEC. FT.
			NO.	DATE	STEWART DECREE	INTERVENORS STEWART DECREE	BRYAN DECREE	INCHES	
NEW DRY CREEK			72	6-1-1879	31.32			1566	
			93	6-1-1886	15.22			761	
			97	6-1-1888	7.86			393	
			129-A	4-1-1897		.54		27	
			73-A	4-1-1880		.54		27	
			74-A	6-1-1880		1.816		90.8	
			85-C	5-1-1883		.2232		11.16	
			85-E	5-1-1883		.385		19.25	
			124-A	5-1-1893		.825		41.25	
		300	31	6-1-1864					
		300	54	6-1-1871	.35			17.5	
		300	120	6-1-1891					
		301	31	6-1-1864					
		301	54	6-1-1871	1.54			77	
		301	120	6-1-1891					
	64		102	6-1-1888	.20			10	
	140		85-D	5-1-1883		.07		3.5	
	151*		124-A	5-1-1893		.135*		6.75*	
	161		103	6-1-1888	.65			32.5	
	174		103	6-1-1888	.24			12	
		713	30	5-1-1866	.54			27	
	1009*		73-A	4-1-1880		.10*		5*	62.0842
NEW UNION			14	6-1-1865	13.76			688	13.76

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	NO.	PRIORITY DATE	AMOUNT DECREED				TOTAL SEC. FT.
					STEWART DECREE	STEWART DECREE	BRYAN DECREE	INCHES	
NEW YORK			131	3-23-1900	219.10			10955	
				3-23-1900				2943	
				12-14-1903			58.86	57729	
				6-16-1909			1354.58	46325	
		(790-111)	8	9-1-1864	20.00		926.50	1000	
			45	5-1-1869	.34			17	
		(790-111)	96	10-1-1887	1.20			60	
		466	106	8-20-1888	3.90			445	
		701	30	5-1-1866	2.00			100	
		823	30	5-1-1866	6.00			300	
		976	30	5-1-1866	1.50			75	
		1007	30	5-1-1866	1.00			50	
		1010	30	5-1-1866	2.00			100	
		1017	30	5-1-1866	.60			30	
		1074	30	5-1-1866	2.00			100	2604.58
PARMA DITCH			71	6-1-1878	4.40			220	
			74	6-1-1880	1.76			88	
			125	6-1-1894	1.76			88	
			77-A	6-1-1881		1.60		80	
			77-B	6-1-1881		.34		17	
			77-C	6-1-1881		.80		40	
			77-D	6-1-1881		1.30		65	
	257		114-B	5-1-1889		.80		40	12.76
PENITENTIARY	46		50	6-1-1870	2.24			112	2.24
PHYLISS			90	6-1-1884	53.10			2655	
			117	9-1-1890	200.00			10000	
			135	4-1-1904	56.34			2817	
				4-1-1905			306.56	15328	
				4-1-1908			54.50	2725	
		1038	30	5-1-1866	21.715			1086	692.215

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	NO.	PRIORITY DATE	AMOUNT DECREED				TOTAL SEC. FT.	
					INTERVENORS			INCHES		
					STEWART DECREE	STEWART DECREE	BRYAN DECREE			
PIONEER DIXIE			8	9-1-1864	20.00			1000		
			45	6-1-1869	35.44			1772		
	36-A		96	10-1-1887	2.00			100		
	48		96	10-1-1887	4.20			210		
	62*		96	10-1-1887	1.00*	✓		50*		
	(790-111*)		8	9-1-1864	20.00*	✓		1000*		
			45	6-1-1869	.34*	✓		17*		
		608	88	6-1-1883	1.00			50		
		644	88	6-1-1883	.70			35		
		660	88	6-1-1883	.60			30		
	35*		45	6-1-1869	2.00*	✓		100*		
	148*		96	10-1-1887	3.00*	✓		150*		
				7-9-1914			20.90	1045	58.50	
	RIDENBAUGH (NAMPA & MERIDIAN)			67	5-1-1878	170.00			8500	
				106	8-20-1888	370.84			18542	
		392	65	6-1-1877	.40			20		
152		47-A	4-1-1870		.30		40			
153		127	5-1-1895	1.00			50			
154		8-A	4-1-1865		.80		40			
		466*	106	8-20-1888	8.90*		445*			
		595	1	6-1-1864	.20		10			
		1711*	67	5-1-1878	.40*		20*	534.74		
RIVERSIDE				88	6-1-1883	12.00			600	
			91	6-1-1884	20.00			1000		
			95	1-23-1887	4.00			200		
			124	5-1-1893	30.00			4000		
			130	10-1-1899	20.00			1000		
			133	6-1-1901	70.00			3500		
			77-E	4-15-1882		3.674		183.7		
			116-A	6-1-1890		.72		36		
			116-B	6-1-1890		.10		5		
			116-C	6-1-1890		.40		20		
				4-1-1910			63.78	3189		
				4-1-1914			17.70	985		
		608*	88*	6-1-1883	1.00*			50*		
		644*	88	6-1-1883	.70*			35*		
		660*	88	6-1-1883	.60*			30*		
			45	6-1-1869	2.00			100		
	35		88	6-1-1883	1.70*			85*	290.37	
	175*									
		54-A	5-1-1875		3.20		160	3.20		
ROEDEL DITCH										

*SUBTRACT

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY NO.	DATE	AMOUNT DECREED				TOTAL SEC. FT.
					STEWART DECREE	STEWART DECREE	BRYAN DECREE	INCHES	
ROSSI MILL			16	6-1-1865	9.20			460	
			18	6-1-1865	.80			40	10.00
SEBREE (FARMERS CO-OP)			60	6-1-1875	10.00			500	
			86	6-1-1883	20.00			1000	
			105	7-1-1888	50.00			2500	
			129	7-1-1896	83.50			4175	
				4-1-1905				7722	
		717	9	6-1-1865	.64		154.45	32	318.59

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY NO.	DATE	AMOUNT DECREED				TOTAL SEC. FT.
					STEWART DECREE	STEWART DECREE	BRYAN DECREE	INCHES	
SETTLERS			92	10-17-1884	99.06			4953	
			122	6-1-1891	73.44			3672	
		347	3	6-1-1864	.14			7	
		349	3	6-1-1864	.14			7	
		350	3	6-1-1864	.14			7	
		357	65	6-1-1877	.20			10	
		412	81	6-1-1882	.40			20	
	76		85-B	4-1-1883		1.00		50	
	83		85-A	6-1-1882		.72		36	
		430	65	6-1-1877	.25			12.5	
		595	1	6-1-1864	.20			10	
		654	30	5-1-1866	.50			25	
					1.00			50	
					.50			25	
		694	30	5-1-1866	.16			8	
					.12			6	
					.14			7	
					.26			13	
		702	30	5-1-1866	.60			30	
		712	30	5-1-1866	.20			10	
					.20			10	
					.50			25	
		720	30	5-1-1866	1.34			67	
		736	37	6-1-1868	1.00			50	
		737	30	5-1-1866	1.10			55	
		739	30	5-1-1866	.15			7.5	
		753	30	5-1-1866	.46			23	
		829	30	5-1-1866	.48			24	
		871	36	6-1-1868	.288			14.4	
		872	36	6-1-1868	.22			11	
		873	30	5-1-1866	.20			10	
		890	30	5-1-1866	.10			5	
		906	30	5-1-1866	.10			5	
		917	30	5-1-1866	.20			10	
		918	30	5-1-1866	.025			1.25	
		940	30	5-1-1866	.05			2.5	
		977	30	5-1-1866	.20			10	
		979	30	5-1-1866	.10			5	
		980	30	5-1-1866	.12			6	
		989	30	5-1-1866	.20			10	
		990	30	5-1-1866	.03			4	
		991	30	5-1-1866	.16			8	
		1711	67	5-1-1878	.40			20	
SEVEN SUCKERS								27	
	381		57	6-1-1872	.34			25	
	391		58	6-1-1872	.50			8.4	
	179		51	6-1-1864	.168			3.6	1.28
			521	6-1-1871	.072				

STEWART AND BRYAN DECREES GROUPED UNDER CANAL HEADINGS

CHART NO. 25

NAME OF CANAL	CHANGE IN P. OF D.	TRANSFER	PRIORITY NO.	DATE	AMOUNT DECREED			TOTAL SEC. FT.
					STEWART DECREE	INTERVENORS STEWART DECREE	BRYAN DECREE	INCHES
SIEBENBERG			9	6-1-1865	13.42			671
		105*	9	6-1-1865	.50*			25*
		717*	9	6-1-1865	.64*			32* 12.28
THURMAN MILL			7	6-1-1864	3.30			165
			10	6-1-1865	1.20			60
			11	6-1-1865	.66			33
			36	6-1-1868	14.10			705
			37	6-1-1868	3.70			185
			42	6-1-1869	1.60			80
			55	6-1-1872	.70			35
			56	6-1-1872	1.40			70
			62	6-1-1876	.44			22
			75	6-1-1880	2.40			120
			76	10-20-1880	.90			45
			78	6-1-1882	.90			45
			79	6-1-1882	.60			30
			81	6-1-1882	2.60			130
			84	6-1-1882	1.50			75
			87	6-1-1883	.90			45
			128	7-1-1895	.66			33
		412*	81	6-1-1882	.40*			20*
		736*	37	6-1-1868	1.00*			50*
		871*	36	6-1-1868	.288*			14.4*
		872*	36	6-1-1868	.22*			11* 35.652
UPPER CENTER POINT			23	6-1-1865	3.20			160
			24	6-1-1865	2.40			120
			25	6-1-1865	3.94			197
			26	6-1-1865	1.60			80
			27	6-1-1865	1.58			79
			24	6-1-1865	.80*			40*
	71*		24	6-1-1865	.50*			25*
	85*		96	10-1-1887	3.00			150
	148		24	6-1-1865	.10*			5*
	159*		89	11-9-1883	.50			25 14.82
	289							

CHART NO. 25

<u>NAME OF CANAL</u>	<u>P. OF D.</u>	<u>TRANSFER</u>	<u>PRIORITY</u>		<u>AMOUNT DECREED</u>			
			<u>NO.</u>	<u>DATE</u>	<u>STEWART DECREE</u>	<u>INTERVENORS STEWART DECREE</u>	<u>BRYAN DECREE</u>	<u>TOTAL SEC. FT.</u>
WARM SPRINGS DITCH			61	6-1-1876	2.30			
			82	6-1-1882	.44			
			83	6-1-1882	.44			
			84	6-1-1882	1.36			
			85	6-1-1882	2.20			
			81	6-1-1882	.80			
			115	6-1-1889	.06			
			116	6-1-1889	1.20			8.80

TABLE SHOWING PRESENT DIVERSION OF STEWART DECREE
RIGHTS AND FLOW NECESSARY IN SECOND FEET TO FILL
TO 60% - 75% AND 100%

CHART NO. 26

<u>NO.</u>	<u>CANAL</u>	<u>RIVER SECTION</u>	<u>100% OF DECREE</u>	<u>75% OF DECREE</u>	<u>50% OF DECREE</u>	<u>FLOW TO FILL 60%</u>	<u>FLOW TO FILL 75%</u>	<u>FLOW TO FILL 100%</u>
1	FARMERS UNION	1	1.30	1.35	1.08	1.08	1334.0	1650.1
1	RIDENBAUGH	1	.20	.15	.12	1.20	1334.0	1650.2
1	SETTLERS	1	7.20	.15	.12	1.32	1334.1	1650.2
2	*FARMERS UNION	1	20.00	20.00	20.00	21.32	1334.1	1650.2
3	MIDDLETON MILL	1	11.04	8.28	6.62	27.94	1335.7	1653.0
3	FARMERS UNION	1	.10	.08	.06	28.00	1335.7	1653.0
3	SETTLERS	1	.42	.32	.25	28.25	1335.8	1653.1
3	NEW DRY CREEK	1	1.25	.94	.75	29.00	1336.0	1653.4
4	ANDREWS	3	3.30	2.48	1.98	29.00	1336.0	1653.4
5	MACE-CATLIN	1	2.69	2.02	1.61	30.61	1336.4	1654.1
5	SEVEN SUCKERS	1	.17	.13	.10	30.71	1336.4	1654.1
6	HART-DAVIS	1	3.30	2.48	1.98	32.69	1336.9	1655.0
7	THURMAN MILL	1	3.30	2.48	1.98	34.67	1337.4	1655.8
8	NEW YORK	1	20.00	15.00	12.20	46.67	1340.4	1660.8
3A	RIDENBAUGH	1	.80	.60	.48	47.45	1340.5	1661.0
8B	BUBB	1	1.80	1.35	1.08	48.23	1340.8	1661.4
3C	LEMP	1	6.00	4.50	3.60	51.83	1341.7	1662.9
8D	BUBB	1	.50	.38	.30	52.13	1341.8	1663.1
9	SIEBENBERG	2	13.42	10.07	8.05	52.13	1341.8	1663.1
9	SEBREE	2	.64	.48	.38	52.13	1341.8	1663.1
9	CAMPBELL	2	.50	.38	.30	52.13	1341.8	1663.1
10	THURMAN MILL	1	1.20	.90	.72	52.85	1342.0	1663.4
11	THURMAN MILL	1	.66	.50	.40	53.25	1342.1	1663.5
12	GRAHAM-GILBERT	1	4.40	3.30	2.64	55.89	1342.7	1664.6
13	EUREKA #1	1	33.32	24.99	19.99	75.38	1347.7	1673.0
14	NEW UNION	1	13.76	10.32	8.27	84.15	1349.8	1676.4
15	BOISE VALLEY	1	54.58	40.94	32.75	116.90	1358.0	1690.0
16	ROSSI MILL	1	9.20	6.90	5.52	122.42	1359.5	1692.5
17	RIDENBAUGH & ROSSI (POWER)	1	265.80	265.80	265.80	122.42	1359.5	1692.5
18	ROSSI MILL	1	.80	.60	.48	122.90	1359.5	1692.5
19	BOWMAN-SWISHER	2	2.88	2.16	1.73	122.90	1359.5	1692.5
20	BOWMAN-SWISHER	2	5.60	4.20	3.36	122.90	1359.5	1692.5
20X	BAXTER	3	.80	.60	.48	122.90	1359.5	1692.5
21	LOWER CENTER POINT	2	2.90	2.18	1.74	122.90	1359.5	1692.5
22	LOWER CENTER POINT	2	3.20	2.40	1.92	122.90	1359.5	1692.5
23	UPPER CENTER POINT	2	3.20	2.40	1.92	122.90	1359.5	1692.5
24	UPPER CENTER POINT	2	1.00	.75	.60	122.90	1359.5	1692.5
24	EUREKA #2	2	1.40	1.05	.84	122.90	1359.5	1692.5
25	UPPER CENTER POINT	2	3.94	2.96	2.36	122.90	1359.5	1692.5
26	UPPER CENTER POINT	2	1.60	1.20	.96	122.90	1359.5	1692.5
27	UPPER CENTER POINT	2	1.58	1.19	.95	122.90	1359.5	1692.5
28	BOONE	3	7.00	5.25	4.20	122.90	1359.5	1692.5
29	ANDREWS	3	6.00	4.50	3.60	122.90	1359.5	1692.5
30	*MIDDLETON MILL	1	.40	.40	.40	123.30	1359.5	1692.5
30	*MISCELLANEOUS	1	3.00	3.00	3.00	126.20	1359.5	1692.5
30	*NEW DRY CREEK	1	.54	.54	.54	126.84	1359.5	1692.5

* THESE RIGHTS HAVE BEEN ADJUDICATED BY THE SUPREME COURT AND ARE NOT OUT BELOW 100%

TABLE SHOWING PRESENT DIVERSION OF STEWART DECREED
RIGHTS AND FLOW NECESSARY IN SECOND FEET TO FILL
TO 60% - 75% AND 100%

CHART NO. 26

NO.	CANAL	RIVER SECTION	100% OF DEGREE	75% OF DEGREE	60% OF DEGREE	FLOW TO FILL 60%	FLOW TO FILL 75%	FLOW TO FILL 100%
30	*NEW YORK	1	15.10	15.10	15.10	141.94	1359.5	1692.5
30	*PHYLISS	1	21.72	21.72	21.72	163.66	1359.5	1692.5
30	*SETTLERS	1	9.25	9.25	9.25	172.91	1359.5	1692.5
31	CANYON COUNTY	1	2.60	1.95	1.56	174.47	1359.5	1692.5
31A	MIDDLETON IRRIGATION	1	2.30	1.73	1.38	175.85	1360.2	1693.3
31B	MIDDLETON IRRIGATION	1	.60	.45	.36	176.21	1360.3	1693.3
31C	LITTLE PIONEER	1	1.10	.83	.66	176.87	1360.5	1694.2
32	MISCELLANEOUS	1	1.70	1.28	1.02	177.89	1360.8	1694.6
32	FARMERS UNION	1	1.80	1.35	1.08	178.97	1361.0	1695.1
33	BOISE CITY CANAL	1	36.38	27.29	21.83	200.80	1366.4	1704.2
33	FARMERS UNION	1	1.68	1.26	1.01	201.81	1366.7	1704.6
34	CALDWELL HIGHLINE	1	15.40	11.55	9.24	211.05	1369.0	1708.4
35	CANYON COUNTY	1	75.01	56.26	45.01	256.06	1380.3	1727.2
35	MIDDLETON MILL	1	.41	.31	.25	256.31	1380.3	1727.3
35	MIDDLETON IRRIGATION	1	.38	.29	.23	256.54	1380.4	1727.4
35A	CANYON COUNTY	1	1.76	1.32	1.06	257.60	1380.6	1727.8
36	THURMAN MILL	1	13.59	10.19	8.15	265.75	1382.7	1731.2
36	SETTLERS	1	.51	.38	.31	266.06	1382.7	1731.3
37	THURMAN MILL	1	2.70	2.03	1.62	267.68	1382.2	1732.0
37	SETTLERS	1	1.00	.75	.60	268.28	1383.3	1732.3
38	LOWER CENTER POINT	2	3.20	2.40	1.92	268.28	1383.3	1732.3
39	HAAS	3	8.54	6.41	5.12	268.28	1383.3	1732.3
40	MIDDLETON MILL	1	1.40	1.05	.84	269.12	1383.5	1732.6
41	MAHON	3	1.80	1.35	1.08	269.12	1383.5	1732.6
42	THURMAN MILL	1	1.60	1.20	.96	270.08	1383.8	1733.2
43	LOWER CENTER POINT	2	3.60	2.70	2.16	270.38	1383.8	1733.0
44	ANDREWS	3	8.50	6.38	5.10	270.08	1383.8	1733.0
45	PIONEER DIXIE	2	33.10	24.83	19.86	270.08	1383.8	1733.0
45	NEW YORK	1	.34	.26	.20	270.28	1383.8	1733.1
45	RIVERSIDE	2	2.00	1.50	1.20	270.28	1383.8	1733.1
46	CALDWELL HIGH LINE	1	36.20	27.15	21.72	292.00	1389.2	1742.2
46	CANYON COUNTY	1	1.00	.75	.60	292.60	1389.4	1742.4
47	BOONE	3	3.50	2.63	2.10	292.60	1389.4	1742.4
47A	RIDENBAUGH	1	.80	.60	.48	293.08	1389.5	1742.6
48	CONWAY HAMMING	1	2.60	1.95	1.56	294.64	1389.9	1743.3
49	LITTLE PIONEER	1	25.72	19.29	15.43	310.07	1393.8	1749.7
50	PENITENTIARY	1	2.24	1.68	1.34	311.41	1394.1	1750.2
50A	SUBS	1	1.00	.75	.60	312.01	1394.2	1750.5
51	ANDREWS	3	1.30	.98	.78	312.31	1394.2	1750.5
52	MACE-CATLIN	1	7.79	5.84	4.67	316.58	1395.4	1752.4
52	SEVEN SUCKERS	1	.07	.05	.04	316.72	1395.4	1752.3
53	NEEVES	1	1.80	1.35	1.08	317.80	1395.7	1752.3
54	MIDDLETON MILL	1	32.43	24.32	19.46	337.26	1400.5	1761.0
54	FARMERS UNION	1	.26	.20	.16	337.42	1400.6	1761.1
54	NEW DRY CREEK	1	1.31	.76	.61	338.03	1400.7	1761.3
55	THURMAN MILL	1	.70	.53	.42	338.45	1400.8	1761.3

*THESE RIGHTS HAVE BEEN ADJUDICATED BY THE SUPREME COURT AND ARE NOT CUT BELOW 100%

TABLE SHOWING PRESENT DIVERSION OF STEWART DECREED
RIGHTS AND FLOW NECESSARY IN SECOND FEET TO FILL
TO 60% - 75% AND 100%

CHART NO. 26

NO.	CANAL	RIVER SECTION	100% OF DECREE	75% OF DECREE	60% OF DECREE	FLOW TO FILL 60%	FLOW TO FILL 75%	FLOW TO FILL 100%
56	THURMAN MILL	1	1.40	1.05	.84	339.29	1401.1	1761.9
57	HART DAVIS	1	3.86	2.90	2.32	341.61	1401.6	1762.8
57	SEVEN SUCKERS	1	.54	.41	.32	341.93	1401.7	1763.0
58	HART DAVIS	1	2.80	2.10	1.68	343.61	1402.1	1763.7
58	SEVEN SUCKERS	1	.50	.38	.30	343.91	1402.2	1763.8
59	BOONE	3	2.20	1.65	1.32	343.91	1402.2	1763.8
59A	ROEDEL	2	3.20	2.40	1.92	343.91	1402.2	1763.8
60	SEBREE	2	10.00	7.50	6.00	343.91	1402.2	1763.8
61	WARM SPRINGS	1	2.30	1.73	1.38	345.29	1402.6	1764.4
62	THURMAN MILL	1	.44	.33	.26	345.55	1402.6	1764.5
63	AIKEN	1	5.20	3.90	3.12	348.67	1403.4	1765.3
64	CONWAY-HAMMING	1	.90	.68	.54	349.21	1403.5	1766.0
65	MIDDLETON IRRIGATION	1	109.51	82.13	65.71	414.92	1420.3	1793.4
65	BALLENTYNE	1	.60	.45	.36	415.28	1420.1	1793.5
65	FARMERS UNION	1	3.12	2.34	1.87	417.15	1420.5	1794.3
65	RIDENBAUGH	1	.40	.30	.24	417.39	1420.6	1794.4
65	SETTLERS	1	.45	.34	.27	417.66	1420.6	1794.5
66	PARRAULT & JOHNSON (POWER)	1	200.00	200.00	200.00	417.66	1420.6	1794.5
66A	BALLENTYNE	1	.80	.60	.48	418.14	1420.8	1794.7
66C	BALLENTYNE	1	1.40	1.05	.84	418.38	1421.0	1795.1
66D	BALLENTYNE	1	.80	.60	.48	419.46	1421.1	1795.3
67	RIDENBAUGH	1	169.60	127.20	101.76	521.22	1446.5	1837.7
67	SETTLERS	1	.40	.30	.24	521.46	1446.6	1837.8
68	MAMMON	3	4.20	3.15	2.52	521.46	1446.6	1837.8
69	MAMMON	3	3.36	2.52	2.02	521.46	1446.6	1837.8
70	HAAS	3	8.30	6.60	5.28	521.46	1446.6	1837.8
71	PARMA	3	4.40	3.30	2.64	521.46	1446.6	1837.8
71A	ISLAND HIGH LINE	3	3.00	2.25	1.80	521.46	1446.6	1837.8
72	NEW DRY CREEK	1	31.32	23.49	18.79	540.25	1451.3	1845.6
73	LOWER CENTER POINT	2	4.00	3.00	2.40	540.25	1451.3	1845.6
73A	NEW DRY CREEK	1	.44	.33	.26	540.51	1451.4	1845.7
73A	AIKEN	1	.10	.08	.06	540.57	1451.4	1845.7
73A	AIKEN	1	.10	.08	.06	540.57	1451.4	1845.7
73B	BAXTER	3	3.20	2.40	1.92	540.57	1451.4	1845.7
74	PARMA	3	1.76	1.32	1.06	540.57	1451.4	1845.7
74A	NEW DRY CREEK	1	1.82	1.37	1.09	541.66	1451.6	1846.2
75	THURMAN MILL	1	2.40	1.80	1.44	543.10	1452.0	1846.8
76	THURMAN MILL	1	.90	.68	.54	543.64	1452.1	1847.0
77	CALDWELL HIGH LINE	1	27.60	20.70	16.56	560.20	1456.3	1853.9
77A	PARMA	3	1.60	1.20	.96	560.20	1456.3	1853.9
77B	PARMA	3	.34	.26	.20	560.20	1456.3	1853.9
77B	PARMA	3	.80	.60	.48	560.20	1456.3	1853.9
77C	PARMA	3	1.30	.98	.78	560.20	1456.3	1853.9
77D	PARMA	3	3.67	2.75	2.20	560.20	1456.3	1853.9
77E	RIVERSIDE	2	.70	.68	.54	560.74	1456.4	1854.1
78	THURMAN MILL	1	.60	.45	.36	561.10	1456.5	1854.3
79	THURMAN MILL	1	1.60	1.20	.96	562.06	1456.7	1854.7
80	MISCELLANEOUS	1						

TABLE SHOWING PRESENT DIVERSION OF STEWART DECREE
RIGHTS AND FLOW NECESSARY IN SECOND FEET TO FILL
TO 60% - 75% AND 100%

CHART NO. 26

NO.	CANAL	RIVER SECTION	100% OF DECREE	75% OF DECREE	60% OF DECREE	FLOW TO FILL 60%	FLOW TO FILL 75%	FLOW TO FILL 100%
81	THURMAN MILL	1						
81	SETTLERS	1	2.20	1.65	1.32	563.38	1457.1	1855.2
81	WARM SPRINGS	1	.40	.30	.24	563.62	1457.1	1855.3
82	WARM SPRINGS	1	.30	.60	.48	564.10	1457.3	1855.5
83	WARM SPRINGS	1	.44	.33	.26	564.36	1457.3	1855.6
84	THURMAN MILL	1	.44	.33	.26	564.62	1457.4	1855.7
84	WARM SPRINGS	1	1.50	1.13	.90	565.52	1457.6	1856.1
85	WARM SPRINGS	1	1.36	1.02	.82	566.34	1457.8	1856.5
85A	MISCELLANEOUS	1	2.20	1.65	1.32	567.66	1458.1	1857.0
85A	SETTLERS	1	1.04	.78	.62	568.28	1458.3	1857.3
85B	SETTLERS	1	.72	.54	.43	568.71	1458.4	1857.4
85C	NEW DRY CREEK	1	1.00	.75	.60	569.31	1458.6	1857.7
85D	BALLENTYNE	1	.22	.17	.13	569.44	1458.6	1857.8
85D	NEW DRY CREEK	1	.76	.57	.46	569.90	1458.7	1857.9
85E	NEW DRY CREEK	1	.07	.05	.04	569.94	1458.7	1858.0
86	SEBREE	2	.39	.29	.23	570.17	1458.7	1858.1
87	THURMAN MILL	2	20.00	15.00	12.00	570.17	1458.8	1858.1
88	RIVERSIDE	1	.90	.68	.54	570.71	1458.9	1858.3
88	EUREKA #2	2	8.00	6.00	4.80	570.71	1458.9	1858.3
88	PIONEER DIXIE	2	1.70	1.28	1.02	570.71	1458.9	1858.3
89	EUREKA #2	2	2.30	1.73	1.38	570.71	1458.9	1858.3
89	BOWMAN-SWISHER	2	18.30	13.73	10.98	570.71	1458.9	1858.3
89	UPPER CENTER POINT	2	.20	.15	.12	570.71	1458.9	1858.3
89	LOWER CENTER POINT	2	.50	.38	.30	570.71	1458.9	1858.3
89	PHYLISS	2	2.70	2.03	1.62	570.71	1458.9	1858.3
90	PHYLISS	1	53.10	39.83	31.86	602.37	1466.9	1871.6
91	RIVERSIDE	2	20.00	15.00	12.00	602.57	1466.9	1871.6
92	SETTLERS	1	99.06	74.30	59.44	662.01	1481.7	1896.3
93	NEW DRY CREEK	1	15.22	11.42	9.13	671.14	1484.0	1900.1
94	DAVIS	1	13.40	10.05	8.04	679.18	1486.0	1903.5
95	RIVERSIDE	2	4.00	3.00	2.40	679.18	1486.0	1903.5
96	BOWMAN-SWISHER	2	.70	.53	.42	679.18	1486.0	1903.5
96	CAMPBELL	2	12.10	9.08	7.26	679.18	1486.0	1903.5
96	EUREKA #2	2	28.60	21.45	17.16	679.18	1486.0	1903.5
96	NEW YORK	1	1.20	.90	.72	679.90	1486.2	1903.8
96	PIONEER DIXIE	2	2.20	1.65	1.32	679.90	1486.2	1903.8
96	UPPER CENTER POINT	2	3.00	2.25	1.80	679.90	1486.2	1903.8
97	NEW DRY CREEK	1	7.86	5.90	4.72	684.62	1487.4	1905.7
98	BALLENTYNE	1	4.00	3.00	2.40	687.02	1488.0	1906.7
99	BALLENTYNE	1	1.30	.98	.78	687.80	1488.2	1907.1
100	BALLENTYNE	1	1.40	1.05	.84	688.64	1488.4	1907.4
101	BALLENTYNE	1	1.46	1.10	.88	689.52	1488.6	1907.8
102	BALLENTYNE	1	1.00	.75	.60	690.72	1488.8	1908.0
102	BALLENTYNE	1	.20	.15	.12	690.24	1488.8	1908.1
102	NEW DRY CREEK	1	.51	.38	.31	690.55	1488.9	1908.2
103	BALLENTYNE	1	.39	.67	.53	691.08	1489.0	1908.4
103	NEW DRY CREEK	1	.90	.68	.54	691.08	1489.0	1908.4
104	ANDREWS	3	50.00	37.50	30.00	691.08	1489.0	1908.4
105	SEBREE	2	361.34	271.46	217.16	908.24	1543.3	1998.3
106	RIDENBAUGH	1	8.90	6.68	5.34	913.38	1544.6	2001.2
106	NEW YORK	1						

TABLE SHOWING PRESENT DIVERSION OF STEWART DECREE
RIGHTS AND FLOW NECESSARY IN SECOND FEET TO FILL
TO 60% - 75% AND 100%

CHART NO. 26

NO.	CANAL	RIVER SECTION	100% OF DECREE	75% OF DECREE	60% OF DECREE	FLOW TO FILL 60%	FLOW TO FILL 75%	FLOW TO FILL 100%
106A	BUEB	1						
107	BUBB	1	.84	.63	.50	914.08	1544.7	2001.3
108	BUBB	1	.06	.05	.04	914.12	1544.8	2001.4
109	BUBB	1	.02	.02	.01	914.13	1544.8	2001.4
110	BUBB	1	2.40	1.80	1.44	915.57	1545.1	2002.0
111	BUBB	1	6.00	4.50	3.60	919.17	1546.0	2003.5
112	BUBB	1	2.94	2.21	1.76	920.93	1546.5	2004.2
113	BUBB	1	.05	.04	.03	920.96	1546.5	2004.2
114	BUBB	1	.10	.08	.06	921.02	1546.5	2004.2
114A	MISCELLANEOUS	3	.03	.02	.02	921.04	1546.5	2004.2
114B	PARMA	3	1.60	1.20	.96	921.04	1546.5	2004.2
115	WARM SPRINGS	1	.80	.60	.48	921.04	1546.5	2004.2
116	WARM SPRINGS	1	.06	.05	.04	921.04	1546.5	2004.3
116A	RIVERSIDE	1	1.20	.90	.72	921.80	1546.7	2004.6
116A	RIVERSIDE	2	.72	.54	.43	921.80	1546.7	2004.6
116B	RIVERSIDE	2	.10	.08	.06	921.80	1546.7	2004.6
116C	RIVERSIDE	2	.40	.30	.24	921.80	1546.7	2004.6
117	PHYLIS	1	200.00	150.00	120.00	1041.80	1576.7	2054.6
118	CONWAY-HAMMING	1	2.20	1.65	1.32	1043.12	1577.0	2055.1
119	DAVIS	1	.54	.41	.32	1043.44	1577.1	2055.2
120	MIDDLETON MILL	1	16.44	12.33	9.86	1053.30	1579.6	2059.4
120	FARMERS UNION	1	.08	.06	.05	1053.35	1579.6	2059.4
120	NEW DRY CREEK	1	.48	.36	.29	1053.64	1579.6	2059.5
121	ANDREWS	3	3.50	2.63	2.10	1053.64	1579.6	2059.5
122	SETTLERS	1	73.44	55.08	44.06	1097.70	1590.7	2077.9
123	BALLENTYNE	1	.80	.60	.48	1098.18	1590.8	2078.1
123A	MIDDLETON MILL	1	1.60	1.20	.96	1099.14	1591.0	2078.5
124	RIVERSIDE	3	80.00	60.00	48.00	1099.14	1591.0	2078.5
124A	NEW DRY CREEK	1	.69	.52	.41	1099.55	1591.1	2078.6
124A	BALLENTYNE	1	.14	.11	.08	1099.63	1591.1	2078.7
125	PARMA	3	1.76	1.32	1.06	1099.63	1591.1	2078.7
126	FARMERS UNION	1	110.00	82.50	66.00	1165.63	1607.6	2106.2
127	RIDENBAUGH	1	1.00	.75	.60	1166.23	1607.8	2106.4
128	THURMAN MILL	1	.66	.50	.40	1166.63	1607.9	2106.6
129	SEBREE	2	83.50	62.63	50.10	1166.63	1607.9	2106.6
129A	NEW DRY CREEK	1	.54	.41	.32	1166.95	1608.0	2106.7
130	RIVERSIDE	2	20.00	15.00	12.00	1166.95	1608.0	2106.7
131	NEW YORK	1	219.10	164.33	131.46	1298.41	1640.8	2161.5
132	CAMPBELL	2	10.00	7.50	6.00	1298.41	1640.8	2161.5
133	RIVERSIDE	2	70.00	52.50	42.00	1298.41	1640.8	2161.5
134	CAMPBELL	2	5.54	4.16	3.32	1298.41	1640.8	2161.5
135	PHYLIS	1	56.34	42.26	33.80	1332.21	1649.3	2175.6
136	BALLENTYNE	1	.39	.29	.23	1332.44	1649.3	2175.7
137	MACE-MACE	1	1.76	1.32	1.06	1333.50	1649.6	2176.1
137A	ISLAND HIGH LINE	3	7.00	5.25	4.20	1333.50	1649.6	2176.1
138	MACE-CATLIN	1	.44	.33	.26	1333.76	1649.7	2176.2
139	ISLAND HIGH LINE	3	10.00	7.50	6.00	1333.76	1649.7	2176.2

TABLE SHOWING DECREED RIGHTS (BRYAN DECREE) & FLOW IN SECOND FEET
AN APPROXIMATE AMOUNT
NECESSARY AT DIVERSION DAM TO FILL SAME

CHART NO. 2

PRIORITY DATE	NAME	100% OF DECREE	75% OF DECREE	60% OF DECREE	FLOW TO FILL 60%	FLOW TO FILL 75%	FLOW TO FILL 100%	DEPT. OF WAT ADMINISTRATI
7-2-1894	FARMERS UNION	54.46	40.85	32.68	2306	4071	4523	63-0297
3-23-1900	NEW YORK IRRIGATION DIST. BOISE KUWA IRRIGATION DIST.	58.86	44.15	35.32	2341	4079	4538	63-0372
12-14-1903	UNITED STATES OF AMERICA	1354.58	1015.94	812.75	3154	4283	4877	63-0301
4-1-1905	PIONEER IRRIGATION DIST.	306.56	229.92	183.94	3338	4329	4953	63-0294
4-1-1905	FARMERS COOPERATIVE DITCH CO.	154.45	115.84	92.67	3430	4352	4992	63-0296
4-1-1905	SOUTH BOISE MUTUAL DITCH CO.	5.40	4.05	3.24	3434	4353	4993	63-0298
4-1-1908	PIONEER IRRIGATION DIST.	54.50	40.88	32.70	3466	4361	5007	63-0295
4-1-1909	UNITED STATES OF AMERICA	292.50	219.38	175.50				63-0373
6-16-1909	UNITED STATES OF AMERICA	634.00	475.50	380.40	4022	4500	5239	63-0302
6-16-1909	UNITED STATES OF AMERICA	1500.00	(POWER)					63-0367
4-1-1910	** RIVERSIDE IRRIGATION DIST.	63.78	47.84	38.27	4060	4509	5255	63-0299
4-1-1910	** MCMAHUS & TEATER	3.36	2.52	2.02	4062	4510	5255	63-0304
1-13-1911	* UNITED STATES OF AMERICA	8000.00	(ARROWROCK STORAGE)				13255	63-0303
4-1-1914	** RIVERSIDE IRRIGATION DIST.	17.70	13.28	10.62			13273	63-0300
7-9-1914	** PIONEER DIXIE DITCH CO.	20.90	15.68	12.54			13294	63-0374
6-25-1938	UNITED STATES OF AMERICA	15000.00	(ARROWROCK STORAGE)					63-3613
12-9-1940	UNITED STATES OF AMERICA	493161.00	(ANDERSON STORAGE)					63-3614
4-12-1963	UNITED STATES OF AMERICA	307000.00	(LUCKY PEAK STORAGE)					63-3618

RETURN FLOW AFTER JULY 15.

