



A. BOTTOLFSEN, GOVERNOR

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
JAMES SPOFFORD, COMMISSIONER

HARRY DEWEY
DEPUTY COMMISSIONER

BOISE

January 15, 1940

HON. C. A. BOTTOLFSEN
Governor of Idaho
Boise, Idaho

Dear Governor Bottolfesen:

It is my pleasure to transmit herewith the annual report of Lynn Crandell, Watermaster and Special Deputy Commissioner of Reclamation for Water District No. 36, during the year 1939, summarizing the operations in distributing and handling water in this District in cooperation with the Snake River users, the U. S. Geological Survey, and this department.

This report discloses that the carry-over in Jackson Lake was 313,000 acre-feet, American Falls Reservoir, 252,000 acre-feet, and Island Park, 53,000 acre-feet at the end of the 1939 irrigation season, which aggregates 617,000 acre-feet, compared with 1,000,000 acre-feet in Jackson Lake and American Falls reservoirs for the same period last year. The utilization of the storage water in Island Park Reservoir for the first year of its operation shows a great benefit to the Madison-Rexburg areas, and it will probably prove a greater benefit next year.

Mr. Crandell still maintains a high standard for the effective and economical operation of this water district, and the appreciation of this courteous and economical administration of the waters of Snake River is reflected by the loyal support and cooperation of the water users, the Committee of Nine, and state and federal agencies.

Respectfully submitted,

James Spofford
JAMES SPOFFORD
Commissioner of Reclamation



STATE OF IDAHO
DEPARTMENT OF RECLAMATION
LYNN CRANDALL, WATERMASTER
IDAHO FALLS, IDAHO

WATER DISTRICT NO. 36

January 13, 1940

~~GEN. ROSS, EXECUTIVE~~
~~W. V. JONES, COMMISSIONER~~

C. A. Bottolfsen, Governor
James Spofford, Commissioner

Mr. James Spofford
Commissioner of Reclamation
Boise, Idaho.

Dear Sir:

Herewith is the annual report of operations in Water District No. 36 for 1939.

While the river run-off for the year was substantially below normal ample supplies of stored water were available to make up for the deficiency in natural flow and were adequate for all needs. Water from the new Island Park Reservoir was available for the first time, to the great benefit of the farmers in the Ashton-Rexburg area.

Storage holdovers at the end of the season in Jackson Lake and American Falls reservoirs amounted to 565,000 acre-ft., a substantial figure although far less than the 1,000,000 acre-feet that was held over the year previous.

The work as in past years was carried on as a cooperative stream gaging and water distribution program by the U. S. Geological Survey, State of Idaho and Water District No. 36.

Your own interest and cooperation in the solution of various problems affecting the district has been especially helpful and the assistance of the Committee of Mine and numerous water users is greatly appreciated.

Thanks are also due to the various members of the operating organization for their services and particularly to W. V. Iorns and Effie C. Jones for their assistance in the preparation of this report.

Very truly yours,

LYNN CRANDALL

Watermaster.

WATER DISTRIBUTION AND HYDROMETRIC WORK

WATER DISTRICT NO. 36

1939

By Lynn Crandall

Watermaster

C O N T E N T S

	<u>Page</u>
Introduction	1
Personnel	5
Snow Surveys	5
Regulation Schedule	10
Water Supply	12
Transfers and exchanges	13
Litigation	14
Canal deliveries	15
Irrigated acreages, main Snake River	16
River data	21
Stored water deliveries	23
River losses and gains, Snake River	27
Distribution on Henrys Fork	31
Irrigated acreages, Henrys Fork	40
River losses and gains, Henrys Fork	41
Regulation in Teton Basin	44
Distribution in Swan Valley section	59
Climatological Data	61
Expenditures	63

PLATES

(All Plates will be found at end of the report following the text).

- Plate 1 Map showing gaging stations in District No. 36.
- " 2 Jackson Lake hydrographs.
- " 3 American Falls Reservoir hydrographs.
- " 4 Annual run-off Snake River at Neeley, Idaho.
- " 5 Annual run-off Snake River at Moran, Wyo.
- " 6 Daily discharge of Snake River canals, May, 1939.
- " 7 Daily discharge of Snake River canals, June, 1939.
- " 8 Daily discharge of Snake River canals, July, 1939.
- " 9 Daily discharge of Snake River canals, Aug., 1939.
- " 10 Daily discharge of Snake River canals, Sept., 1939.
- " 11 Daily inflow to American Falls Reservoir, 1939.
- " 12-13 Daily summary of data at and between Snake River gaging stations, 1939.
- " 14 Daily storage diversions by Snake River canals, 1939.
- " 15 Time interval between gaging stations on Snake River.
- " 16 Daily discharge of Henrys Fork canals, May, 1939.
- " 17 Daily discharge of Henrys Fork canals, June, 1939.
- " 18 Daily discharge of Henrys Fork canals, July, 1939.
- " 19 Daily discharge of Henrys Fork canals, Aug., 1939.
- " 20 Daily discharge of Henrys Fork canals, Sept., 1939.
- " 21 Daily segregation of flow Henrys Fork stations, 1939.
- " 22 Daily storage diversions by Henrys Fork canals, 1939.
- " 23 Jackson Lake Reservoir, Moran, Wyo.
- " 24 Snake River at Moran, Wyo.
- " 25 Snake River near Alpine, Wyo.
- " 26 Greys River near Alpine, Wyo.
- " 27 Snake River at Calamity Point nr. Irwin, Ida.
- " 28 Snake River near Heise, Ida.
- " 29 Snake River at Shelley, Ida.
- " 30 Blackfoot River near Blackfoot, Ida.
- " 31 Snake River at Cloughs Ranch near Blackfoot, Ida.
- " 32 American Falls Reservoir, American Falls, Idaho.
- " 33 Snake River at Neeley, Ida.
- " 34 Lake Walcott near Minidoka, Idaho.
- " 35 North Side Minidoka Canal near Minidoka, Ida.
- " 36 South Side Minidoka Canal near Minidoka, Ida.
- " 37 Snake River near Minidoka, Ida.
- " 38 Lake Milner at Milner, Ida.
- " 39 P. A. Lateral near Milner, Ida.
- " 40 Milner Low Lift Canal near Milner, Ida.
- " 41 Gooding Project in Gooding Canal near Milner, Ida.
- " 42 North Side Canal Project in Gooding Canal near Milner, Ida.
- " 43 North Side main canal at Milner, Ida.
- " 44 South Side main canal at Milner, Ida.
- " 45 Snake River at Milner, Ida.
- " 46 Henrys Lake near Lake, Ida.

Plates - cont'd.

- Plate 47 Henrys Fork near Lake, Ida.
" 47a Island Park Reservoir nr. Island Park, Ida.
" 48 Henrys Fork near Island Park, Ida.
" 49 Henrys Fork at Warm River, Ida.
" 50 Henrys Fork near Ashton, Ida.
" 51 Henrys Fork at St. Anthony, Ida.
" 52 Henrys Fork near Rexburg, Ida.
" 53 Fall River near Squirrel, Ida.
" 54 Fall River near Chester, Ida.
" 55 Teton River near St. Anthony, Ida.
" 56 Portneuf River at Pocatello, Ida.
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INTRODUCTION

The annual watermaster election of District No. 36 was held at Idaho Falls on March 6, 1939. Sixty-three canals were represented with decreed rights of 39,356 sec.-ft. Lynn Crandall was reelected as watermaster for the ensuing year and the following were selected as members of the advisory committee of nine:

Frank A. Miller, Chairman; E. H. Neal, Vice-Chairman; W. O. Cotton, John E. Kelley, Eph Ricks, Hyrum Severson, N. V. Sharp, R. E. Shepherd, Dana Templin and John Lee, Secretary.

Mr. Templin retired from active service as Supt. of the Minidoka Project at the close of the 1939 season and was succeeded by Mr. S. R. Marean who took his place as a member of the Committee.

Stored water transmission losses were approved at the annual election on the same basis as during 1938, namely, 2 $\frac{1}{2}$ % Moran to Heise; 4.4% Heise to Lorenzo; 0.5% Lorenzo to Shelley; 6% Shelley to Blackfoot; 4% Henrys Lake to Island Park; 2% Island Park to Warm River; 0.5% Warm River to Ashton.

On May 27, 1939, at the request of the United States, Mr. Crandall was also appointed by James Spofford, Commissioner of Reclamation, as special deputy to handle the distribution of stored water on Snake River and Henrys Fork.

The water supply during 1939 was substantially below normal on Snake River. Delivery of storage below American Falls began on May 14 and continued without interruption until the end of September.

Canals on the river diverted about 2,000,000 acre-feet of storage during the season, but fortified by large storage supplies the water-users scarcely realized that they were passing through what, except for the existence of American Falls Reservoir, would have been called a moderately dry year. A few timely rains at critical periods during the irrigation season helped to reduce the demand and hold on natural flow rights to a later priority than could otherwise have been filled.

Due to the large holdover in American Falls Reservoir in the fall of 1938 the filling of that reservoir for 1939 was assured and some water was spilled at times prior to April 5th, 1939 when it filled to capacity. The total spill of surplus water past Milner prior to May 14, when storage draft from American Falls Reservoir began, was about 900,000 acre-feet in excess of Idaho Power Co. requirements.

Jackson Lake filled to capacity on May 31 by virtue of storing normal flow therein belonging to downstream canals with prior rights. After allowing for such stored normal flow there remained 802,380 acre-feet of storage water in Jackson Lake for reservoir allotment. Storage draft from Jackson Lake began on July 1st.

Upper valley regulation began on May 20 when 1914 rights were cut off. The river flow in 1939 was insufficient to furnish any water for the so-called "flood water rights" of 1916 priority belonging to upper valley canals but in spite of this fact their diversions in acre-feet for the season were the largest ever recorded. The low point of natural flow supply was reached Aug. 28 when all rights later than July 1, 1889 were cut off. Due to rains thereafter rights were restored until by Sept. 14 rights of 1900 priority were being supplied

although by the end of September the 1995 rights were again out off. Jackson Lake gates were closed on Sept. 28 and upper valley regulation by river riders was terminated Sept. 30. Rains about the middle of September and early in October reduced the demand for water thereafter so that there wasn't as much diverted early in October 1939 by upper valley canals as is usually the case at that time of year.

There was quite an active demand for stored water for seasonal rental. Most of the sales through the storage pool were handled at 35¢ per acre-foot, this being the lowest price at which any water was offered for sale in midsummer. In September some water was sold through the pool at 25¢ per acre-foot and there were some sales by certain canals direct to other neighboring ones at 12¢ per acre-ft., the price of the American Falls lease water.

There was no water shortage of much importance suffered by any of the canals in the district during 1939 as adequate amounts of storage were available for rent at 35¢ per acre-ft. for all who cared to buy. The Henrys Fork area which has suffered most in past dry years had an ample supply in the new Island Park Reservoir which was only about 50% used in 1939. Except for the September rains there would have been a much heavier use of storage that month in the upper valley than actually occurred.

On September 30, 1939 there remained about 252,000 acre-ft. in American Falls, 313,000 acre-ft. in Jackson Lake, 53,000 acre-ft. in Island Park and 49,000 acre-ft. in Henrys Lake reservoirs, respectively.

Grassy Lake Reservoir was completed and ready to store water at the close of the 1939 season but none was stored there for 1939 delivery.

Activities by the Bureau of Reclamation in connection with the proposed South Fork Reservoir consisted principally of studies in the Denver office resulting in a reallocation of the estimated cost between power, irrigation and flood control.

Some progress was made towards reconciling Idaho and Wyoming viewpoints on water regulation in Teton Basin and a temporary agreement was reached between the State Engineer of Wyoming and the State Commissioner of Reclamation of Idaho together with interested water-users and members of the Compact committees. This agreement was in force in Teton Basin for a while towards the latter end of the season and provided for dividing the flow of the creeks between the two states. No success has so far attended attempts to find a basis for agreement between the two states on water deliveries to land irrigated in Wyoming from tributaries of the South Fork. Mr. Spofford, Commissioner of Reclamation, has contributed much time and effort towards the solution of the problem of a possible interstate agreement between Idaho and Wyoming and it was principally through his efforts and those of Mr. Bishop, State Engineer of Wyoming, that an agreement was reached on regulation in Teton Basin.

PERSONNEL

The persons engaged in water distribution during the year were as follows:

Lynn Crandall,	Watermaster & Deputy Commissioner of Reclamation.
W. V. Iorns,	Assoc. Engineer & Deputy Watermaster.
Melvin Luke,	Deputy Watermaster at St. Anthony.
L. K. Homer,	Hydrographer during irrigation season.
F. W. Tolles,	Hydrographer during irrigation season.
Effie C. Jones,	Clerk.
I. V. Goslin,	Deputy Watermaster & Hydrographer, Teton Basin.
D. W. Archibald,	Deputy Watermaster, Henrys Fork.
J. K. Thatcher,	Deputy Watermaster, Lower Teton River.
Walter C. Lenz,	Deputy Watermaster, Upper Fall River.
D. R. Crystal,	Deputy Watermaster, Heise Division.
H. M. Bramwell,	Deputy Watermaster, Rigby Division.
A. C. Kelley,	Deputy Watermaster, Idaho Falls Division.
E. Liljenquist,	Deputy Watermaster, Blackfoot Division.
Dana Templin	Deputy Watermaster, Minidoka Dam.
G. S. Gilham,	Deputy Watermaster, Milner Dam.
F. S. Thomas,	Swan Valley Division.
A. W. Heath,	Supt. American Falls Dam.
B. B. Hill,	Supt. Jackson Lake Dam.
Geo. Pilcher,	Supt. Island Park Dam.
Mrs. Levi Stone, D. O. Rawson, Mrs. Irvin Siepert, J. F. Johnson, Manuel Lee, D. R. Anthony, Annie Fugal, J. A. Clough, T. E. Culley, A. J. Ayers, and S. P. Sorenson, gage readers.	

SNOW SURVEYS

The results of snow surveys on the Jackson Lake watershed during past years are shown in the following tabulation. These surveys have been made for some years past by B. B. Hill, Jackson Lake Reservoir Supt.

Table showing average snow depth and water content in inches on Jackson Lake watershed.

(Observations made 14-21st of each month)

Year	January		February		March		April	
	Snow	Water	Snow	Water	Snow	Water	Snow	Water
1919	36	8.1	45	12.0	52	16.8	49	18.4
1920	40	9.6	54	13.8	74	21.5	70	23.0
1921			63	17.9	65	20.6	56	21.3
1922	54	14.2	72	18.2	73	22.0	64	23.4
1923	43	11.3	51	15.6	64	20.7	54	23.0
1924	44	10.8	47	13.5	51	15.8	48	17.7
1925	50	12.8	66	24.0	75	25.9	50	21.9
1926	32	9.0	52	14.0	49	16.6	40	15.6
1927	66	18.5	75	27.0	82	33.0	85	36.0
1928	58	18.0	59	20.4	69	23.8	80	31.5
1929	37	8.8	60	16.5	61	20.2	62	22.0
1930	36	8.3	49	13.5	53	16.8	27	11.7
1931	25	5.2	30	6.2	35	8.4	27	8.9
1932	47	12.1	64	20.0	69	24.0	61	25.0
1933	46	10.8	67	18.8	67	21.6	62	24.0
1934	36	8.5	35	12.9	40	15.3	33	15.7
1935	51	12.2	46	14.3	52	17.9	60	23.8
1936	61	13.8	77	23.1	82	29.9	75	32.0
1937	39	8.4	60	16.2	60	19.7	61	24.3
1938	42	11.3	61	18.9	65	22.5	67	27.7
1939	46	11.6	69	20.4	74	24.0	42	19.1
Average, inches	44	11.2	57	17.0	62	20.8	56	22.2

The above table is the average of results at Moran, Moran Canyon, Arizona Station, Huckleberry Divide, Snake River Station, Coulter Creek, Lewis Lake Divide, Aster Creek, and Glade Creek.

Due to mild weather late in March and early in April some of the snow melted and went into the ground between the March and April 1939 surveys so that the April survey showed less water than in March.

Snow measurements were also made during 1939 by Mr. Hill on the Buffalo River watershed and together with those for previous years are shown in the following tabulation.

Table showing average snow depths and
water content in inches on Buffalo River watershed

Year	Depth in inches			
	Feb. 1 - 6		Mar. 23 - 29	
	Snow	Water	Snow	Water
1924	40	11.5		
1925	53	15.7		
1926	46	13.2		
1927	47	13.7		
1928	47	13.9		
1929	42	11.0		
1930	44	11.3		
1931	19	4.5		
1932	38	9.9		
1933	38	11.0		
1934	30	8.6		
1935	44	12.0		
1936	49	12.8	67	23.0
1937	35	9.1	49	15.3
1938	53	14.2	67	21.3
1939	48	13.0	56	19.0
Average inches	42	11.6	60	19.6

The foregoing figures are the average of results obtained at Turpin Meadows, Four-Mile Meadows, Black Rock, Togwotee Pass and Brooks Lake.

The following measurements are supplied by the U. S. Dept. of Agriculture, Bureau of Agricultural Engineering. The measurements were made by employees of the Forest Service, Bureau of Reclamation and National Park Service.

Station	Depth in Inches									
	Last of Dec.		Last of Jan.		Last of Feb.		Last of Mar.		Last of Apr.	
	Snow	Water	Snow	Water	Snow	Water	Snow	Water	Snow	Water
<u>Island Park</u>										
1936 Season	21	4.2	41	11.0	54	15.6	50	16.0		
1937 Season	25	3.0	44	9.0	51	14.6	48	14.5	33	12.0
1938 Season	26	5.9	37	8.2	48	11.9	64	19.5	18	7.6
1939 Season	24	4.9	48	10.1	53	14.4	33	11.2		
<u>Big Springs</u>										
1936 Season	24	5.5	54	15.6	65	21.8	70	23.3		
1937 Season	26	3.4	52	10.5	63	17.6	59	20.2	41	17.3
1938 Season	28	6.4	40	9.6	53	14.7	72	23.3	32	12.0
1939 Season	31	7.8	48	11.4	60	18.3	50	17.8		

Station	Depth in Inches									
	Last of		Last of		Last of		Last of		Last of	
	Dec.	Snow Water	Jan.	Snow Water	Feb.	Snow Water	Mar.	Snow Water	Apr.	Snow Water
<u>Valley View Ranch</u>										
1936 Season	22	5.0	-	-	-	-	58	19.8		
1937 Season	23	3.1	-	-	-	-	47	13.8	31	12.2
1938 Season	-	-	-	-	-	-	62	20.0	30	12.5
1939 Season	22	3.8	-	-	-	-	40	12.2	-	-
<u>Bechler Ranger Sta.</u>										
1936 Season	40	9.6	71	20.6	87	29.1	87	31.0		
1937 Season	26	4.5	59	13.1	72	22.3	68	24.8		
1938 Season	32	8.2	52	14.0	59	18.9	91	29.4		
1939 Season	39	10.0	69	17.2	85	25.1	57	24.4	18	8.3
<u>Teton Pass</u>										
<u>(Trail Creek)</u>										
1936 Season	28	7.4	74	19.6	100	32.0	116	37.0		
1937 Season	-	-	41	11.4	62	20.0	72	24.2		
1938 Season	33	9.0	-	-	69	25.4	97	34.6		
1939 Season	49	13.2	55	16.0	78	26.4	77	28.6		
<u>State Line</u>										
<u>(Trail Creek)</u>										
1936 Season	21	4.0	49	11.4	66	21.0	75	28.0		
1937 Season	-	-	32	8.1	45	12.6	42	15.0		
1938 Season	15	2.0	-	-	41	12.9	56	20.1		
1939 Season	31	6.1	34	7.1	46	12.1	35	12.8		
<u>Camp Creek</u>										
<u>(Mud Lake drainage)</u>										
1936 Season	16	2.4	26	4.9	35	8.0	27	6.0		
1937 Season	32	3.6	34	6.3	31	8.5	39	10.8		
1938 Season	12	3.2	20	4.8	41	11.9	52	16.7		
1939 Season	11	2.3	22	4.1	32	7.3	17	4.8		
<u>East Rim</u>										
<u>(Hoback)</u>										
1936 Season	10	1.7	-	-	-	-	62	22.6		
1937 Season	17	2.8	-	-	-	-	38	12.2	35	12.9
1938 Season	19	4.0	-	-	-	-	45	13.2	20	6.6
1939 Season	23	4.9	-	-	-	-	33	7.2		
<u>Bryan Flat</u>										
<u>(Hoback)</u>										
1936 Season	11	1.7	32	7.1	-	-	50	19.5		
1937 Season	14	2.3	19	4.9	33	8.1	30	10.2	14	5.6
1938 Season	13	2.8	21	5.5	26	6.7	39	11.4	0	0
1939 Season	17	3.9	30	6.6	31	8.4	24	8.0		

Station	(Depth in inches)									
	Last of Dec.		Last of Jan.		Last of Feb.		Last of Mar.		Last of Apr.	
	Snow	Water	Snow	Water	Snow	Water	Snow	Water	Snow	Water
<u>Yellowjacket Flat</u>										
<u>(Gros Ventre)</u>										
1936 Season	8	1.0	20	2.9	-	-	38	11.3	-	-
1937 Season	9	1.2	13	2.3	22	4.3	20	6.4	10	2.9
1938 Season	12	2.8	16	3.2	21	4.2	31	7.4	0	0
1939 Season	16	2.6	20	3.9	26	5.2	19	5.1	-	-
<u>Grover Park Divide</u>										
<u>(Salt River)</u>										
1936 Season	-	-	46	12.6	46	15.8	69	19.6	-	-
1937 Season	23	4.1	24	4.5	36	10.8	36	11.4	-	-
1938 Season	16	4.2	25	5.6	25	7.9	42	12.4	-	-
1939 Season	-	-	23	6.4	36	9.4	20	7.6	-	-
<u>CCC Camp FF12</u>										
<u>(Salt River)</u>										
1936 Season	-	-	35	10.7	53	17.1	65	22.7	-	-
1937 Season	17	3.5	22	4.4	36	9.2	35	12.3	-	-
1938 Season	18	4.4	30	6.7	32	8.4	43	13.2	-	-
1939 Season	-	-	29	5.7	36	10.1	21	7.8	-	-
<u>Afton Ranger Sta.</u>										
<u>(Salt River)</u>										
1936 Season	-	-	28	8.0	26	10.2	10	9.8	-	-
1937 Season	11	2.4	13	2.4	19	4.5	7	2.9	-	-
1938 Season	7	1.3	11	2.3	10	2.9	0	0	-	-
1939 Season	-	-	23	3.7	25	6.2	0	0	-	-
<u>Cottonwood Lake</u>										
<u>(Salt River)</u>										
1936 Season	-	-	-	-	-	-	79	28.5	-	-
1937 Season	-	-	-	-	-	-	43	15.0	-	-
1938 Season	-	-	48	11.2	43	14.0	59	18.9	-	-
1939 Season	-	-	-	-	-	-	36	15.4	-	-
<u>Slug Cr. Divide</u>										
<u>(Blackfoot River)</u>										
1936 Season	-	-	-	-	-	-	77	28.0	-	-
1937 Season	-	-	-	-	-	-	49	16.4	-	-
1938 Season	-	-	-	-	-	-	53	16.7	-	-
1939 Season	-	-	-	-	-	-	24	9.4	-	-
<u>Greys Boundary</u>										
<u>(Greys River)</u>										
1936 Season	-	-	38	9.3	46	15.0	50	18.9	-	-
1937 Season	-	-	25	3.0	40	10.3	31	11.6	-	-
1938 Season	16	3.9	29	6.9	29	8.6	32	12.4	-	-
1939 Season	-	-	41	8.0	44	13.3	23	7.6	0	0
<u>Deadman Ranch</u>										
<u>(Greys River)</u>										
1936 Season	-	-	36	9.6	58	19.1	77	24.8	-	-
1937 Season	15	2.5	24	5.1	37	9.3	32	9.4	-	-
1938 Season	13	2.5	24	4.9	26	7.6	35	10.5	-	-
1939 Season	28	4.1	36	6.6	36	9.4	Traces		0	0

The March 1939 Snow Survey on the Jackson Lake watershed showed a water content 15% above normal and one which had been exceeded only three times during the preceding 20 years. The promise of abundant water supply indicated by the March survey did not materialize, probably due to marked deficiency of precipitation during March and May with resultant heavy evaporation losses from the snow fields. Observations indicate that the river run-off, for years with similar snow supply early in the spring, seems to be more affected by variations in precipitation during May than by any other single factor. If May is a wet month more run-off occurs than would be expected from the snow surveys; if May precipitation is far below normal the run-off is usually less than anticipated. July and August 1939 were also months of deficient precipitation over most of the drainage area.

The run-off at Moran for the year ending Sept. 30, 1939, corrected for variations in holdover at Jackson Lake, was only 86% of normal as the result of these unfavorable factors that occurred after the date of the March snow survey.

REGULATION SCHEDULE

The following schedule shows the priorities being filled after upper valley regulation began on May 20. The earliest lower valley rights of October 11, 1900 priority continued to be partially filled from inflow below Blackfoot, after rights of that date were cut off above Blackfoot. The amounts of natural flow received each day during the regulation period by lower valley canals are shown on Plates 12-13 incl.

1939 REGULATION SCHEDULE

May	20	Cut off 1914 rights.
"	25	Cut off rights later than 1905 priority.
June	2	Filled 1913 rights.
"	6	Cut off rights later than 1905 priority.
"	19	Filled May 24, 1913 rights.
"	27	Cut off rights later than 1905 priority.
"	28	Cut off rights later than Mar. 22, 1903.
July	4	Cut off rights later than Oct. 11, 1900.
"	8	Cut off all 1900 rights.
"	9	Cut off 1898 rights.
"	10	Filled 50% July 9, 1896 right.
"	11	Cut off rights later than Feb. 6, 1895.
"	12	Filled 2/3 Feb. 6, 1895 right.
"	14	Filled 40% Feb. 6, 1895 right.
"	15	Filled 20% Feb. 6, 1895 right.
"	16	Filled 10% Feb. 6, 1895 right.
"	17	Cut off all of Feb. 6, 1895 right.
"	18	Filled 50% Aug. 18, 1894 right.
"	19	Cut off 1892 rights.
"	20	Filled 50% Dec. 14, 1891 right.
"	21	Cut off June 1, 1891 rights.
"	22	Filled 75% Jan. 24, 1891 rights.
"	23	Filled 50% Jan. 24, 1891 rights.
"	24	Cut off all 1891 rights.
"	25	Cut off Oct. 16, 1890 rights.
"	26	Cut off July 12, 1890 right.
"	28	Restored July 12, 1890 right.
"	29	Filled 25% Oct. 16, 1890 right.
"	31	Filled all 1890 rights.
Aug.	1	Filled Jan. 24, 1891 right.
"	4	Cut off Jan. 24, 1891 right.
"	5	Cut off Oct. 16, 1890 rights.
"	7	Filled 50% July 12, 1890 right.
"	13	Cut off July 12, 1890 right.
"	16	Cut off June 10, 1890 right.
"	19	Cut off all 1890 rights.
"	20	Filled 20% July 10, 1889 right.
"	28	Cut off rights later than July 1, 1889
"	30	Filled 50% July 10, 1889 right.
"	31	Filled all 1889 rights in full.
Sept.	10	Restored June 1, 1890 rights.
"	11	Restored 50% June 10, 1890 right.
"	12	Restored all 1890 rights.
"	13	Restored Jan. 24, 1891 right.
"	14	Restored part of Oct. 11, 1900 right.
"	20	Cut off rights later than Feb. 6, 1895.
"	26	Cut off all 1895 rights.

There was no regulation after Sept. 30 as general rains during the first week in October reduced the demand sufficiently so that water began spilling past Blackfoot into the American Falls Reservoir.

WATER SUPPLY

Due to ample supplies of stored water there were no crop losses of any consequence suffered under any of the canals that could be supplied from the reservoirs. Users on some of the tributaries of Fall River, however, were very short of water during the latter part of the season but the acreage involved was not large.

Run-off at some of the principal stations during the year ending Sept. 30, 1939 is shown in the following tabulation:

<u>Station</u>	<u>Run-off in Acre-feet</u>		<u>Years of Record</u>	<u>1939 Per-cent of aver.</u>
	<u>1939 Run-off</u>	<u>Average Run-off</u>		
Snake at Moran	892,900	1,040,000	36	86
Snake nr. Heise	4,321,000	5,100,000	36	85
Snake at Neeley	4,221,000	5,820,000	43	72
Henry's Fork at Warm River	636,000	722,000	25	88
Henry's Fork nr. Rexburg	1,210,000	1,408,000	31	86
Fall River nr. Squirrel	541,000	539,000	26	100
Teton River nr. St. Anthony	532,500	527,000	12	101

The run-off at Moran and Heise has been corrected for Jackson Lake holdovers, at Neeley for American Falls holdovers and at Rexburg and Warm River for Henry's Lake and Island Park holdovers.

A normal run-off occurred during 1939 from the west slopes of the Teton Range as indicated by the run-off on Fall and Teton rivers. Elsewhere the run-off was about 86% of average, except at Neeley where the run-off has been less since the construction of American Falls Reservoir than it formerly was. The run-off during the irrigation season only was less in relation to average than the run-off for the year as a whole, due to large winter flow following 1938.

There were about 900,000 acre-feet of surplus water discharged past Milner in excess of Idaho Power Co. rights from Oct. 1, 1938 to May 10, 1939. No water was spilled after May 10th. During the past four years the following amounts of surplus water have been spilled past Milner to the Pacific Ocean, in excess of use by the Idaho Power Co.

<u>Year ending Sept. 30</u>	<u>Water wasted past Milner</u> (acre-feet)
1936	620,000
1937	382,000
1938	1,310,000
1939	900,000
Total	3,212,000

The maximum discharge at Heise occurred on June 1st and amounted to 18,800 second-feet. No flood damage of any consequence was reported at the river stages prevailing during 1939.

TRANSFERS AND EXCHANGES

Two permanent transfers were granted during the year by the Dept. of Reclamation after advertising and hearing as provided by the Idaho Statutes.

Transfer No. 600 - To U. S. Bureau of Reclamation -
1 sec.-ft. June 1, 1893; 2.2 sec.-ft. June 1, 1900; 2.4 sec.-ft. June 1, 1901; 2.6 sec.-ft. Sept. 20, 1901 of waters of Sheridan Cr., Hotel Cr. and Grizzly Springs, formerly used on lands flooded by Island Park Reservoir, transferred to lands within Fremont-Madison Irig. Dist.

Transfer No. 602 - To Henry G. Bauer -
2.71 sec.-ft. June 1, 1879 of waters of Teton River transferred from Stewart Ditch to Row Ditch.

Owing to the ample supply of stored water in Island Park Reservoir the need for natural flow transfers among Henrys Fork canals was largely limited to exchanging natural flow for storage so that the canals on Fall River could secure stored water. The supply of natural

flow in Fall River was sufficient to meet all requests for storage by the various canals on that stream during 1939.

A few canals on Snake River shut out their water for short periods after mid-summer and received credit for 90% of the water so accumulated. Owing to rains in September however, much of this water was not used and still remained in Jackson Lake at the end of the season as Jackson Lake water available for 1940 allotment to Jackson Lake rights.

LITIGATION

Issuance of a decree in the case of the lower users on Teton River vs. users in Wyoming was still delayed during 1939 pending results of negotiations between the interested parties on a compact or stipulated agreement.

The Suit of the Burley Irrig. Dist. vs. the Secretary of the Interior relative to the so-called winter water saving contract was tried in the U. S. District Court of the District of Columbia during March 1939. The decision in that Court was in favor of the Defendant.

Decisions of the Wyo. State Engineer and Board of Water Control denying rights claimed by the Utah-Idaho Sugar Co. in Emma Matilda and Two Ocean Lake were appealed to the Wyoming State Court at Jackson, Wyo. by the Sugar Co.

In a summary suit against the watermaster and various water users on Palisade Creek, Lucille Baker was awarded 270 miner's inches of the waters of Palisade Creek with priority of Aug. 15, 1893. The award of this right was designed to correct an omission in the Rexburg decree.

In an uncontested summary suit against the watermaster, William S. Blakely and Collins Blakely were awarded 4 sec.-ft. of Oct. 21, 1899 priority of the waters from Kelly Canyon near Heise.

A suit was filed in October 1939 against the watermaster by J. A. Young seeking to acquire certain rights on Rock Creek and Schaffer Creek, northeast of Ashton.

CANAL DELIVERIES

Daily diversions from the main river between Heise and Blackfoot for the months May to September incl. are shown on Plates 6 to 10 inclusive. No record of diversions by these canals was secured for other periods of the year. Records of diversions by canals below American Falls are secured for the full 12 months each year and are shown on Plates 35-44 incl.

The canals from Roberts to Blackfoot were beginning to divert water quite generally for irrigation by May 1st. Canals above Roberts did not use much, if any, irrigation water until about May 6, although they probably would have started earlier except for the necessity of doing work on the canal systems.

The use of water for irrigation in the upper valley during early October was much less than usual, due to rains. Later on, however, after the crops were gathered the mild dry weather resulted in some water being used for fall irrigation and watering the ground preparatory to ploughing, this use extending well on into December in some areas.

The following tabulation shows the seasonal diversions, and acreage served under canals diverting from Snake River between Heise and Milner. A similar tabulation for canals on Henrys Fork and tributaries is shown in the chapter covering distribution on Henrys Fork. Complete records for the season were not kept of diversions by canals on the headwater areas in Swan Valley, Teton Basin, Island Park, etc. in the same detail as for the canals shown in the following tabulation,

as they were only visited when required from time to time for regulation purposes. The figures on irrigated acreage in the following table were furnished by the various canal companies. Canals are listed in downstream order from the Boise gaging station.

Diversions during 1939 irrigation season

(Snake River Canals)				
Canal	Irr. season Diversions (acre-ft.)	Area under canal (acres)	Area drawing water 1939 (acres)	Diversions acre-ft. per acre, 1939
Riley	5,380	873	800	6.7
Anderson & Eagle				
Rock	224,000(a)	33,000	31,500	7.1
Farmers Friend	97,400	10,500	10,300	9.4
Enterprise	32,800	5,000	5,000	6.6
Nelson-Holt	288	80	50	5.8
Mattson-Craig	2,470	650	430	5.7
Arnsberger	425	200	120	3.5
Ross & Rand	910	150	130	7.0
Butler Island	13,000	1,320	1,000	13.0
Steale	2,370	290	240	9.9
Harrison	107,400	16,000	16,000	6.7
Cheney	1,520	240	180	8.4
Rudy & Boomer	51,600	5,100	5,000	10.3
Kite & Nord	1,400	195	140	10.0
Burgess	209,000	23,000	21,000	9.9
Clark & Edwards	19,600	1,945	1,700	11.5
Lowder & Jennings	9,150	1,260	800	11.4
East LaBelle	31,700	2,200	2,100	15.1
Sunnydell	29,000	3,596	3,490	8.3
Lenroot	30,500	3,600	3,600	8.5
Reid	36,000	5,000	4,300	8.4
Texas Feeder	66,800	8,500	7,000	9.5
Nelson-Corey	2,640	640	400	6.6
Hill-Pettinger	718	210	120	6.0
Rigby	46,400	4,000	4,000	11.6
Dilts	6,480	780	640	10.1
Island	36,000	3,400	3,000	12.0
W. LaBelle & Long				
Island	129,600	9,000	8,500	15.2
Parks & Lewisville	90,000	6,500	6,000	15.0
North Rigby	14,200	1,500	1,500	9.5
White	1,170	250	150	7.8
Ellis	692	100	80	8.7
Branwell	1,720	400	200	8.6
Butte & Market Lake	60,800	19,000	18,000	3.4
Csgood	31,400	7,000	6,000	5.2
Bear Island & Smith	567	240	160	3.5
Igsho	268,000 (a)	35,440	35,440	7.6
Kennedy	9,200	2,230	1,900	4.8
Gt. Western & Porter	174,700	26,500	25,830	6.8
Coy	115	40	30	3.8
Woodville	19,300	3,000	3,000	6.4

Canal	Irr. Season Diversions (acre-ft.)	Area under canal (acres)	Area drawing water 1939 (acres)	Diversions acre-ft. per acre, 1939
Snake River Valley Reservation	146,000(a)	25,000	21,150	6.9
Blackfoot	192,400(b)	60,000	32,192	6.0
New Lava Side	82,900	15,000	12,000	6.9
Peoples	38,400	6,000	5,000	7.7
Aberdeen	118,000	20,000	18,500	6.4
Corbett	312,000	62,298	55,000	5.7
Nielsen-Hansen	40,500	7,000	6,000	6.7
Riverside	2,760	480	450	6.1
Danskin	29,800	5,000	3,500	8.5
Trego	51,600	6,000	6,000	8.6
Wearrick	15,500	1,400	1,250	12.4
Watson	16,200	1,600	1,500	10.8
Parsons	34,200	4,880	4,800	7.1
North Minidoka	6,320	1,000	800	7.9
South Minidoka	459,710	62,512	55,000	8.4
No. Side Project	331,600	53,946	52,000	6.4
Twin Falls Canal	1,043,000	170,000	155,000	6.7
Milner Low Lift	1,115,000	202,610	202,610	5.5
Gooding	47,320	10,000	9,033	5.2
Total	383,600	89,500	54,000	7.1
Total	6,333,225	1,047,155	925,615	6.8

(a) Used some water from Willow and Sand creeks in addition.

(b) 91,500 from Snake R., balance from Blackfoot R. and Sand Cr.
Diversions for upper valley canals are May to Sept.;
lower valley canals Apr. to Sept. incl.

The foregoing table shows diversions from the main river only. Diversions from Henrys Fork and tributaries are shown separately elsewhere in this report.

The total diversions during 1939 by the foregoing canals were the greatest ever recorded. They were about 406,000 acre-feet greater than in 1938 and were 395,000 acre-feet more than in 1933, the year of maximum diversions prior to 1939. Most of the excess was due to heavy use during May. Canals below American Falls diverted 53% of the total shown in the tabulation and upper valley canals 47%. These percentages are the same as those in 1938, so the increased use of water in 1939 occurred in both the upper and lower valleys, probably as the result of prevailing weather conditions.

Canals above American Falls, excluding Henrys Fork, diverted 382,118 acre-ft. of storage or 13% of their total diversions. Canals below American Falls used 1,550,000 acre-feet of storage or 46% of their total diversions for the season.

Water was spilled past Milner in varying daily amounts beginning about Dec. 1, 1938 as it was apparent that American Falls would be filled for 1939 with a substantial surplus. After Jan. 5, 1939 it was not necessary for the Idaho Power Co. to order any water specially released for its account as water was being wasted anyhow. After May 10 when spill of surplus water ceased and up to Sept. 30, 1939 the Power Co. drew 15,213 acre-feet of its primary storage past Milner.

The following tabulation shows the amount of water used by months in various sections of the District during the past 10 years.

Diversions in Thousands of Acre-feet
Heise to Blackfoot

<u>Year</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
1930	436	675	682	464	414	2671
1931	411	546	490	360	226	2033
1932	379	563	637	579	384	2592
1933	226	756	674	527	387	2570
1934	548	359	399	275	211	1792
1935	276	684	662	445	326	2393
1936	489	619	677	520	420	2725
1937	392	600	658	520	361	2531
1938	356	680	628	592	465	2721
1939	585	620	691	564	393	2853
Average excluding 1931 & 1934	392	650	670	526	394	2632

19.
 Diversions in Thousands of Acre-feet
Henry's Fork and Tributaries

<u>Year</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
1930	201	220	159	138	102	820
1931	200	156	100	72	62	590
1932	205	222	192	152	98	869
1933	162	267	176	143	91	839
1934	166	117	86	48	42	459
1935	187	236	170	104	79	776
1936	218	217	178	138	106	857
1937	200	223	163	126	84	796
1938	185	238	180	159	119	881
1939	228	225	206	167	117	943
Average ex- cluding 1931 & 1934	198	231	178	141	100	848

1939 figures are after correction for water spilled from Cross Cut Canal into Teton River.

Minidoka Project

<u>Year</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
1930	110	83	153	165	131	105	747
1931	64	143	155	167	110	46	685
1932	35	125	140	173	159	111	743
1933	70	129	165	171	164	110	809
1934	43	97	71	101	36	12	360
1935	33	101	147	172	154	107	714
1936	26	169	128	189	150	99	741
1937	18	145	130	176	156	96	721
1938	32	147	145	145	167	113	749
1939	77	164	130	165	159	97	792
Average ex- cluding 1931 & 1934	50	133	142	167	155	105	752

North Side Canal Co. Project

1930	146	127	191	214	172	112	962
1931	81	187	143	173	147	50	791
1932	72	157	174	217	212	157	989
1933	65	169	207	204	226	164	1036
1934	52	118	127	120	62	33	512
1935	15	151	194	212	161	100	833
1936	42	201	200	202	198	130	973
1937	40	176	185	228	218	126	973
1938	51	180	201	211	212	165	1010
1939	95	208	197	217	215	111	1043
Average ex- cluding 1931 & 1934	66	171	194	213	202	132	978

Diversions in Thousands of Acre-feet
Twin Falls Project

<u>Year</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
1930	134	154	184	224	192	130	1018
1931	77	194	180	205	203	116	975
1932	48	155	160	212	223	173	971
1933	85	197	201	218	223	162	1086
1934	129	167	154	175	191	124	940
1935	36	167	178	202	210	159	952
1936	54	209	195	219	219	142	1038
1937	57	191	179	217	216	144	1004
1938	55	186	187	198	215	167	1008
1939	126	208	195	215	221	150	1115
Average ex- cluding 1931 & 1934	74	183	185	213	215	153	1023

Gooding Project

1932	14	54	60	82	71	38	319
1933	2	43	58	70	58	45	276
1934	31	50	58	65	59	40	312
1935	3	54	65	67	57	1	247
1936	2	66	73	83	69	39	332
1937	10	60	66	75	68	43	322
1938	3	39	61	76	74	63	316
1939	31	76	69	79	75	53	383
Average ex- cluding Sept. 1935	12	56	64	75	66	46	319

Diversions during April and May were considerably above normal at all points. June diversions were below normal in the upper valley and on the Minidoka project but were slightly above normal at points further downstream.

July diversions were above normal everywhere except on the Minidoka Project. August diversions were high in all areas while due to rains September use was below normal except on the Gooding Project and in the Henrys Fork area.

The total diversions for the 1939 season were the greatest ever recorded except on the Minidoka Project where they were slightly exceeded by the 1933 diversions.

RIVER DATA

The segregation of river flow and diversions between stored and normal for the period of storage use from May 10 to Sept. 30 is shown on Plates 12-13. The methods used in computing these quantities, the segregation of outflow from the reservoirs between stored and normal, and transmission losses charged to stored water are on the same basis as in 1938 and previous years.

At Jackson Lake it is assumed that evaporation losses on the stored water are offset during the season by bank storage return flow. The evaporation losses are greatest however, when the lake is at its maximum level just as storage draft begins, while the return from bank storage does not occur until later when the lake level is substantially lowered. On this account it is the practice when first starting to draw storage from Jackson Lake to lag behind several hundred sec.-ft. each day in making the natural flow cuts, using stored water to make up the deficiency, until about 10,000 acre-ft. of storage has been so used. This water is gradually recovered for the storage owners later on in the season when Jackson Lake is lower and also at times when sudden cuts are made in the amount of storage being carried in the river thereby permitting some return flow from river-bank storage.

Using the determined stored water flow at Moran and subtracting transmission losses and stored diversions a quantity is determined each day shown on Plates 12-13 as "Theoretical balance stored at Blackfoot". When the 1900 rights are being filled this same quantity is taken as stored at the Clough station, the balance at that point being called normal flow. After the 1900 rights were cut which means that no natural flow is to be delivered past Blackfoot for downstream rights, the normal flow at Cloughs was taken as 150 sec.-ft. plus flow from Blackfoot River in excess of 1 sec.-ft. seepage water. During the latter

half of September there was some water spilled at times past Black-foot as natural flow due to rains and reduced demand. During the season there were 14,329 sec.-ft. or 28,400 acre-ft. of Jackson Lake storage delivered past Cloughs for use by downstream canals in excess of the amount necessary to replace natural flow belonging to lower valley canals that was adversely stored at Jackson Lake during May.

From May 10 to 29th water was being stored at Jackson Lake that, according to priority of rights, belonged as natural flow to certain canals below American Falls Reservoir. From May 30 to June 21 there was some water spilled from Jackson Lake at times that could have been retained there under the Jackson Lake priorities if the reservoir had not previously been filled with the stored natural flow. No water was available for the Jackson Lake storage rights after June 22 on which date there still remained in Jackson Lake 44,620 acre-ft. of stored normal flow for delivery to American Falls Reservoir to replace water drawn as natural flow by downstream canals entitled to the water that was adversely stored at Jackson Lake. The segregation of river flow and canals diversions as shown on Plates 12 to 13 in this report has been computed as if it had been possible to foresee in advance how much water should have been released from Jackson Lake each day prior to June 22 to have exactly filled prior rights. The figures shown on Plates 12-13 as minus storage quantities represent natural flow adversely retained at Jackson Lake. In computing the seasonal totals at the various measuring stations such minus quantities are offset by delivery of an equal amount of stored water later on in the season.

There were nine sets of measurements made during the season of the inflow to American Falls Reservoir between Clough and Nesley stations. Daily discharges of this spring inflow have been interpolated between such measurements and together with the daily record of Port-

neuf River at Pocatello and unmeasured inflow averaging about 1,300 sec.-ft., have been combined to determine total daily inflow from Clough to Neeley as shown on Plate 11. These daily quantities added to the normal flow at Cloughs give the normal flow available each day at Neeley for delivery to downstream canals. All additional amounts diverted by such canals have been classed as stored water. Under this system of classification the net gain from Neeley to Milner during the regulation period is called stored water.

STORED WATER DELIVERIES

American Falls rights were filled in full at the beginning of the 1939 season. Jackson Lake filled later on by virtue of storing natural flow belonging to prior rights below American Falls. On June 22 the last date for which any water was available for storage under the Jackson Lake priority there still remained 44,620 acre-feet of stored normal flow in that lake for delivery to American Falls reservoir to replace storage delivered as natural flow to downstream canals that were entitled to the water adversely stored at Jackson Lake.

The Jackson Lake allotment for 1939 was determined as follows:

Reservoir capacity	847,000 acre-ft.	
Stored normal flow	44,620	"
Available for reservoir allotment	802,380	"
Bottom rights in full	437,810	"
Available for top rights	364,570	"
T.F.Canals Co. top right	86,590	"
N.S.Canals Co. top right	277,980	"

1939 STORAGE ALLOTMENTS - IN ACRE-FEET

(Downstream order from Heise)

Canal	J. Lake right	Am. Falls right	Am. Falls lease	Total allotment
Foplar Irr. Dist.	1,200	793	370	2,363
Progressive Irr. Dist.	0	14,609	7,533	22,142
Farmers Friend	2,000	0	0	2,000
Enterprise Canal Co.	6,100	10,509	4,908	21,517
Harrison	5,000	11,994	6,185	23,179
Rudy	2,000	2,000	1,031	5,031
Burgess	5,120	7,496	4,501	17,117
Lowder	1,040	0	0	1,040
Sunnydell	4,000	0	0	4,000
Lenroot	3,000	4,504	2,322	9,826
Reid	0	3,002	0	3,002
Dilts	0	1,034	533	1,567
Enterprise Irr. Dist.	0	12,000	10,604	22,604
Fremont-Madison Irr. Dist.	0		19,763	19,763
Butte & Market Lake	0	3,002	2,804	5,806
Osgood	0	15,852	8,175	24,027
Bear Island	0	225	105	330
Smith	0	79	41	120
Kennedy	355	0	0	355
Idaho	0	26,986	12,602	39,588
Martin	1,500	2,250	1,050	4,800
New Sweden	5,000	28,528	14,711	48,239
Woodville	0	9,000	4,200	13,200
S.R. Valley	15,000	27,645	12,909	55,552
Blackfoot	0	15,033	7,020	22,053
New Lava Side	0	0	714	714
Peoples	8,000	22,519	11,613	42,132
Aberdeen	42,685	41,333	33,467	117,485
Corbett	0	4,000	1,868	5,868
Trego	0	1,462	683	2,145
Minidoka	325,810	50,000	25,785	401,595
Milner Low Lift		34,113	15,931	50,044
Twin Falls C. Co.	86,590	151,185	70,603	308,378
No. Side Project	287,980	320,256	*151,562	759,798
Gooding	0	400,000	0	400,000
Idaho Power Co.	0	45,000	0	45,000
Total	802,380	1,266,407	433,593	2,502,380

*Includes 123,495 for N.S. Canal Co., 6,848 for N. S. Pump Co.,
and 21,219 for Hillsdale Irr. Dist.

In addition to the rights in Jackson Lake and American Falls Reservoirs the Minidoka Project had 95,910 acre-feet in Lake Walcott on May 13 and was credited with 53,000 acre-feet gain Neeley to Milner on days when that project was drawing storage from May 14 to Sept. 30.

The Utah-Idaho Sugar Co. was credited with 4627 acre-feet discharged from Emma Matilda and Two Ocean Lakes. After June 17th the discharge from Market Lake springs, averaging about 8 second-feet, was delivered to the Kennedy Ditch for the balance of the season as a natural flow transfer, rather than calling it stored water as was done in previous years.

Daily storage diversions by the various canals on the main river are shown on Plate 14. Storage diversions of American Falls water owned or rented by Henrys Fork canals are shown as a group on this Plate but are given in detail on Plate 22.

For the convenience of numerous individuals and several canal companies desiring to rent varying amounts of water during the season, a storage pool was operated by the watermasters office through which 53,181 acre-ft. were disposed of as follows:

1939 Storage Pool Operations

Procured From:

Twin Falls Canal Co.	42,558	acre-ft.
Woodville Canal Co.	4,200	"
Reid Canal Co.	1,000	"
Idaho Irrig. Dist.	2,100	"
Lower Teton River users	2,361	" (for Teton Basin)
From 10% Penalty charge on stored normal	962	"
Total	53,181	"

Purchased by:

Swan Valley Users	896	"
Enterprise Canal Users	49	"
Mattson Craig Canal	114	"
Harrison Canal Users	52	"
Rudy Canal Users	103	"
Hill-Pettinger Canal	57	"
Various individuals nr. St. Anthony	228	"
Island Park users	262	"
Teton Basin users	649	" (from Snake River)
" " "	2361	" (from Lower Teton users)
Butte & Market Lake Canal	7580	"
Kennedy Canal	360	"
Capital Hill in Great Western	470	"
Aberdeen-Springfield	15,000	"
Burley Irrig. Dist.	25,000	"
Total	53,181	"

Sales through the Pool were made at 35¢ per acre-foot measured in the reservoirs, except 2,100 acre-ft. secured from the Idaho Irrig. Dist. in September at 25¢ per acre-foot. The Corbett Slough Ditch Co. sold 1,000 acre-ft. to the New Lava Side Co. and the Blackfoot Irrig. Co. sold 5,000 acre-ft. to the Peoples Canal Co., both at 12¢ per acre-ft.

The amount of American Falls water held over in Jackson Lake at the end of the 1939 season can not be determined until the various owners of space in both reservoirs specify how they desire their 1939 storage use charged. This will not be necessary if American Falls fills in 1940 as all of the water in Jackson Lake will then become

available for use by Jackson Lake rights. If American Falls Reservoir fails to fill in 1940 it will be necessary for the various canals that own space in both Jackson Lake and American Falls reservoirs to indicate in which reservoir they desire to retain their 1939 holdover, before the 1940 allotment of stored water can be made. It was not necessary to make any decision on this point during 1939 as the river was operated to retain as much water as possible at Jackson Lake anyhow, in accordance with the practice followed during recent years. If as much holdover as possible is kept in the upstream reservoirs, losses by evaporation and seepage are reduced, the water is available for use by upper valley American Falls rights and it can always be run down the river when and if needed to fill downstream rights. In many years American falls Reservoir will fill from inflow below Jackson Lake while the latter reservoir might not fill except by reason of holdover from the previous year, so that the practice of keeping as much American Falls holdover as possible each fall in Jackson Lake is a distinct benefit to owners of space in both reservoirs.

RIVER LOSSES AND GAINS

Losses and gains between river stations are shown by monthly averages in the following tabulations using time intervals shown on Plate 15.

Gain in Snake River, Moran to Heise stations
1939

(Heise dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Moran	19,080	100,600	153,200	154,800	57,370	485,050
Heise	380,490	371,410	332,610	265,890	149,490	1,499,690
Riley Ditch	607	701	774	518	112	2,712
Heise & Riley	381,097	372,111	333,384	266,208	149,602	1,502,402
Tot. gain s.f.	362,017	271,511	180,184	111,408	92,232	1,017,352
Mean gain s.f.	11,680	9,050	5,810	3,590	3,070	6,650
Tot. gain ac.ft.	718,100	538,500	357,400	221,000	182,900	2,017,900

The gain in this section was less each month than in 1938. The total gain for the 5 months period was 72% of the gain during the same months in 1938.

Gain in Snake River, Heise to Shelley
1939

(Heise dates and 24-hr. sec.-ft., except as noted)

Station	May	June	July	Aug.	Sept.	Season
Heise & Riley	381,097	372,111	333,384	266,208	149,602	1,502,402
Rexburg	88,528	49,750	21,307	25,676	35,110	220,371
Total Supply	469,625	421,861	354,691	291,884	184,712	1,722,773
Diversions	189,420	214,862	249,704	213,575	147,035	1,014,596
Shelley	286,000	227,840	121,200	96,380	66,680	798,100
Tot. acct. for	475,420	442,702	370,904	309,955	213,715	1,812,696
Tot. gain s.f.	5,795	20,841	16,213	18,071	29,003	89,923
Mean gain s.f.	187	695	523	583	967	588
Tot. gain a.f.	11,490	41,340	32,160	35,840	57,530	178,360

During the low water months of July, Aug. and Sept. the average gain in this section was 688 sec.-ft. compared to 915 sec.-ft. during the same months in 1938. This indicates that the ground water table in this section receded during 1939 from the high levels reached in 1938. This is probably due to less recharge from river losses on account of meagre flood water in 1939.

Loss in Snake River Shelley to Clough stations
1939
(Shelley dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Shelley	288,710	231,540	121,430	97,480	67,440	806,600
Blackfoot R.	1,359	1,396	241	66	1,076	4,138
Total Supply	290,069	232,936	121,671	97,546	68,516	810,738
Diversions	105,889	96,964	98,407	71,006	51,235	423,501
Clough	180,650	135,980	19,090	22,530	19,470	377,720
Tot.acct.for	286,539	232,944	117,497	93,536	70,705	801,221
Tot.loss s.f.	3,530	- 8	4,174	4,010	-2,189	9,517
Mean loss s.f.	114	0	135	129	-73	62
Tot.loss a.f.	7,000	- 16	8,280	7,950	-4,340	18,874

Losses in this section still continued to be low during 1939. Due to rains in June and September there was some increase in spill from canal wasteways into the river in this section resulting in apparent gains for those months. Unmeasured inflow from canal wastes and from ground water for several miles upstream from the Clough station amounts to about 200 sec.-ft. ordinarily so the over-all losses as above tabulated are really about 200 sec.-ft. less than the actual loss from Shelley to a point where ground-water inflow to the river begins several miles above Cloughs.

Loss in Snake River, Clough to Neeley stations
1939
(Neeley dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Clough	186,908	137,516	19,030	22,424	20,026	385,904
Inflow	84,487	78,287	79,307	80,714	78,712	401,507
Reservoir Draft	93,835	89,555	237,848	225,912	82,245	729,395
Total Supply	365,230	305,358	336,185	329,050	180,983	1,516,806
Neeley	343,740	295,890	343,700	336,930	186,960	1,507,220
Tot.loss s.f.	21,490	9,468	-7,515	-7,880	-5,977	9,586
Mean loss s.f.	693	316	- 242	- 254	- 199	63
Tot.loss ac.ft.	42,625	18,779	-14,905	-15,630	-11,855	19,014

The total loss during the 5 months period in this section, which includes American Falls Reservoir, was 19,014 acre-ft., of which 5,200 acre-ft. occurred during period of storage draft May 14 to Sept. 30.

The loss during the period of storage draft is equal to 0.3% of the reservoir capacity. Gain from bank storage occurred July to Sept. but was insufficient to offset losses during May and June at higher reservoir levels. Precipitation at Poccatello May to September inclusive was 2.31" below normal which contributed to greater net evaporation losses than would otherwise have occurred.

Loss in Snake River, Neeley to Minidoka stations
1939
(Minidoka dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Neeley	344,010	295,890	343,700	337,350	189,610	1,510,560
Walcott draft	1,010	-890	-240	600	10,310	10,790
Total supply	345,020	295,000	343,460	337,950	199,920	1,521,350
N.Minidoka	47,360	38,928	48,100	43,940	27,151	205,479
S.Minidoka	35,363	26,853	34,847	36,097	21,619	154,779
Minidoka	263,390	227,260	255,220	251,270	151,290	1,148,430
Total use	346,113	293,041	338,167	331,307	200,060	1,508,688
Tot.loss s.f.	-1,093	1,959	5,293	6,643	-140	12,662
Mean loss s.f.	35	65	171	214	-5	83
Tot.loss a.f.	-2,167	3,885	10,498	13,176	-278	25,114

The gain indicated during May may be due to increased groundwater inflow below Neeley and into the upper end of Lake Walcott as the result of high lake levels in American Falls Reservoir during the 1938-39 winter. The gain during September was due to draft on Lake Walcott.

Gain in Snake River, Minidoka to Milner stations
1939

(Milner dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Minidoka	263,770	227,330	254,940	252,120	153,230	1,151,390
P.A.	1,860	1,774	1,839	1,848	1,143	8,464
Milner Low Lift	4,600	4,269	4,927	5,080	3,695	22,671
Gooding	63,400	59,140	69,220	67,130	43,820	302,710
So. Milner	104,780	98,500	108,300	111,240	75,930	498,750
No. Milner	77,830	73,230	78,230	77,450	37,694	344,434
Milner	24,024	226	280	280	4,994	29,804
Total use	276,494	237,139	262,796	263,028	167,276	1,206,733
Tot.gain s.f.	12,724	9,809	7,856	10,908	14,046	55,343
Mean gain s.f.	410	327	253	352	468	362
Tot.gain a.f.	25,238	19,456	15,562	21,636	27,860	109,772

The gain for the season in this section was about the same as in 1938. The total net gain for the 5-months period from Neeley to Milner

was 84,658 acre-ft. of which 71,000 acre-ft. occurred during the period of storage use May 14 to Sept. 30. 53,000 acre-ft. of this gain occurred on days when the Minidoka Project was drawing storage and has been credited as part of the storage supply for that project. The heaviest gain from Neoley to Milner occurred during September, amounting to 28,000 acre-ft. in that month. 18,000 acre-ft. of the gain during the period of storage use occurring on days when the Minidoka Canal diversions were being supplied entirely from normal flow, was not specifically allotted but was retained as holdover at American Falls to offset such items as reservoir losses at American Falls and leakage past Milner dam, instead of charging them to individual canals.

Distribution on Henrys Fork

Water distribution on Henrys Fork, Fall River and lower Teton River was again under the immediate supervision of Melvin Luke, Deputy Watermaster with headquarters at St. Anthony. With Island Park Reservoir full during the first year of its use, and the Cross-cut Canal in operation, an ample water supply was available for all the canals except on Squirrel, Boone and Conant creeks, tributaries of Fall River. On Squirrel and Boone creeks the natural flow during the latter part of the summer was only sufficient to furnish stock water. Sufficient natural flow was available in Fall River to meet all demands for storage on that stream by using the Cross-cut Canal to supply part of the rights of the Fall River Canal Co.

As might be expected, with an adequate storage available for the first time, the canals on Henrys Fork and tributaries diverted the greatest amount of water in their history, 63,000 acre-feet more than they had ever previously used and about 100,000 acre-ft. more than their average past use, excluding years of pronounced shortages like 1931 and 1934.

Henry's Lake held 49,846 acre-ft. on May 28 after which no further water was available for its priority. The large outlet gates at this reservoir can not be regulated for small discharges but as near as possible it was attempted to release the natural flow during the summer. No stored water was released as such from the reservoir during 1939 and it still contained 49,204 acre-ft. when the lake gage was last read on Sept. 23, 1939.

The gates at Island Park dam were closed on Nov. 15, 1938 at which time 1 sec.-ft. of seepage water was passing the measuring station on Henry's Fork a few hundred feet below the dam. By the time the water in the reservoir reached the spillway level on April 26th the flow at the measuring station had increased to 12 sec.-ft. The gates remained closed and the water continued to flow over the spillway until June 30 when the first release of storage from the reservoir was made. With a maximum depth of flow of 1.21 ft. over the spillway on May 6th, 1100 sec.-ft. were being discharged.

The segregation of stored water and natural flow at the Island Park Dam during the regulation period in 1939 was made by taking the daily drop in the lake level and calling that quantity stored water at the measuring station just below the dam, the balance being natural flow.

Owing to the porous nature of the country around this reservoir the ground-water levels in the adjacent area and particularly to the east in the vicinity of Ponds Lodge rose considerably as the water level rose in the reservoir. It appears likely that more ground storage proportionally exists at this site than is the case with most reservoirs and some method may have to be developed of segregating natural flow and storage on the basis of measured inflow as is done at American Falls.

Measurements were made during 1939 on various streams flowing into the Island Park Reservoir in cooperation with the Bureau of Reclamation and at the same points where records have been secured for several years past. By continuing such measurements for several more years, particularly through a year of complete drawdown in the reservoir, it is expected that some equitable and practical method of segregating natural flow and storage at this point can be developed.

Natural flow rights on Henrys Fork and Fall River were regulated to the same priority as on Snake River in accordance with the schedule on page 11 except for several days about July 18 when only part of 1892 rights were filled. Rights on lower Teton River were regulated to the same schedule until July 16 and thereafter as follows:

July 17	Cut off rights later than 1886 priority.
July 20	Cut off 30% of June 1, 1885 rights.
July 25	Cut off 50% of June 1, 1885 rights.
Aug. 14	Cut off 60% of June 1, 1885 rights.
Aug. 16	Cut off 80% of June 1, 1885 rights.
Aug. 19	Cut off all June 1, 1885 rights.
Sept. 15	Filled all demands.

Henrys Lake water was allotted as follows:

Lake contents May 28	49,848 acre-ft.
Deduct dead storage	<u>2,500 "</u>
Available for allotment	47,348 "

<u>Canal</u>	<u>Per Cent Ownership</u>	<u>Acre-feet</u>
Last Chance	15.3	7,244
St. Anthony Union	6.8	3,219
Salem Union	24.2	11,459
Egin	6.8	3,219
Independent	26.8	12,690
Consol. Farmers	<u>20.1</u>	<u>9,517</u>
Total	100.0	47,348

The foregoing quantities are subject to a loss charge of 6.39% from Henrys Lake to St. Anthony. Island Park Reservoir reached a storage capacity of 136,905 acre-feet on May 6 at a stage 1.21 ft. above spillway level. By June 30 however, when storage draft began, the lake had dropped, due to reduced inflow, to a point 0.65 ft. above spillway level or 132,390 acre-ft. of capacity which is taken as the amount of Island Park storage available in 1939.

Allotment of Island Park storage by the Fremont-Madison Irrigation Dist. was made as follows:

<u>Canal</u>	<u>Acre-feet in reservoir</u>
Boone Creek Canal	1,740
Squirrel Creek Canal	1,371
Conant Creek Canal	2,469
Yellowstone Canal	2,121
Harrigfeld Canal	2,145
Marysville Canal	17,167
Farmers Own Canal	10,175
Fall River Irrig. Co.	4,784
East Teton Canal (Thru Fall R. Irrig. Co. Canal)	1,310
Chester canal	1,958
Silkey Ditch	360
Cur Ditch	353
Dewey Canal	716
Last Chance Canal	2,007
Farmers Friend	6,302
Twin Groves	5,552
Salem Union	9,323
Independent	13,614
Egin	1,955
St. Anthony Union	2,210
Consol. Farmers	5,750
Roxana Canal (Thru Consol. Farmers)	856
Siddoway	693
Wilford	1,840
Teton Irrigation	1,701
Good Luck	320
Pioneer	427
Stewart	383
Pincock-Byington	259
Pincock-Garner	400
Teton Island Canal	6,213
Wolf Ditch (Thru Teton Island Feeder)	735
Salom Irrig. Canal (Thru Teton Isl. Feeder)	3,987
Island Ward Canal	3,962

Canal	Acre-feet in reservoir
Woodmansee Johnson Ditch	1,471
Eames-Gardner Ditch	80
Rexburg Irrigation Canal	<u>2,477</u>
Total	119,206

The remaining Island Park water was not allotted in 1939 but was retained by the Fremont-Madison District as holdover for 1940. The foregoing allotments are subject to 2.49% loss from Island Park Reservoir to canal headings near St. Anthony.

American Falls water owned or rented by canals on Henrys Fork during 1939 was as follows:

Enterprise Irrig. Dist.	22,604 acre-ft.
Fremont-Madison " "	19,763 "
Henrys Fork users near St. Anthony	228 "
Island Park Users	262 "
Teton Basin Users	<u>649 "</u>
Total	43,506 "

Allowing 7.26% transmission loss this would deliver 40,346 acre-feet at point of river diversion.

On Plate 21 the amount of Snake River storage diverted by canals on Henrys Fork and tributaries is shown as a minus storage item passing Rexburg and totals 22,029 sec.-ft. or 43,693 acre-ft. for the season. This is 3,347 acre-ft. in excess of the amount to which they were entitled measured at Rexburg and considering all the foregoing users of American Falls water as a unit. The Enterprise Irrigation District however, by itself had an unused holdover at the close of the season of 955 acre-ft. measured at Rexburg, which would make an overdraft of 4,302 acre-ft. of American Falls storage by the canals in the Fremont-Madison Irrigation Dist., measured at Rexburg, or 4,420 acre-ft. measured at Island Park Reservoir. In other words on Sept. 30, 1939 there

were 4,420 acre-ft. of American Falls water being held in Island Park Reservoir, and which will have to be allotted as American Falls water in 1940 if American Falls Reservoir fails to fill.

On the other hand the following canals used Henrys Lake water in the amounts indicated, same being supplied from Island Park Reservoir.

Last Chance & Dewey	5,237	acre-ft. measured at Isl. Park.				
Salem Union	4,897	"	"	"	"	"
Independent	2,156	"	"	"	"	"
Consolidated Farmers	<u>5,994</u>	"	"	"	"	"
Total	18,284	"	"	"	"	"

Thus if the Island Park Reservoir right fails to fill in 1940 there will be 18,284 acre-ft. due it, measured at Island Park from the 1939 holdover at Henrys Lake.

Sales and transfers of storage between canals on Henrys Fork and tributaries during 1939 were as follows:

Measured in Reservoir

Fremont-Madison Irrig. Dist. to Trail Creek Irrig. Co.	4,000	acre-ft.
Fremont-Madison Irrig. Dist. to String Canal Co.	1,000	"
Fremont-Madison Irrig. Dist. to Enterprise Irrig. Dist.	4,000	"
Fremont-Madison Irrig. Dist. to Canyon Cr. Irrig. Dist.	1,200	"
Fremont-Madison Irrig. Dist. to City of Rexburg	200	"
Fremont-Madison Irrig. Dist. to Twin Groves Canal	2,000	"
Enterprise Irrig. Dist. to Canyon Creek Irr. Dist.	500	"
Island Ward Canal to Consol. Farmers Canal	700	"
Storage Pool to Salem Union Canal	4	"
Storage Pool to Twin Groves Canal	33	"
Storage Pool to McBee Canal	150	"
Storage Pool to Chester Canal	41	"
Storage Pool to Teton Basin canals	649	"
Silkey Canal to Dewey Canal	300	"
Pioneer " to Good Luck	110	"

Transfers to replace natural flow exchanges

Lower Teton Users to Teton Basin users	2,361	acre-ft.
Boone Creek Canal Co. to St. Anthony Union	48	" at headgate.
Enterprise Irrig. Dist. to Salem Union	1,936	" " "
Enterprise Irrig. Dist. to Twin Groves	286	" " "
Enterprise Irrig. Dist. to St. Anthony Union	61	" " "

The sales from the Storage Pool were made at 35¢ per acre-ft. but otherwise such of the foregoing sales as were made for a cash consideration were at 15¢ per acre-ft., this price being arrived at by taking the cost of American Falls lease water at 12¢ and adding 3¢ to cover interest, cost of extra bookkeeping, etc.

In addition to the 43,693 acre-feet of Snake River storage diverted by Henrys Fork canals the following amounts passed the lowest canal heading on that stream for delivery to prior rights on Snake River and would have been available for exchange.

July	500	acre-ft.
August	18,400	"
September	36,000	"
Total	54,900	"

Daily diversion by Henrys Fork canals are shown on Plates 16-20, incl. and storage diversions, segregation of river flow, etc. are shown on Plates 21-22.

The Cross-Cut Canal was operated during the 1939 season for the first time except for a few days test run in 1933. The following table shows the amounts of water carried in this canal during 1939.

Daily discharge, in second-feet of Cross Cut Canal

Date	At Head	Inflow from Fall R. Canal	No. Fall R. Diversion	Middle Fall R. Diversion	At Wood-fields be-low highway	At End
May 19	160	118	120			
" 20	180	111	120	90	76	60
" 21	200	101	120	90	78	62
" 22	200	101	112	91	94	83
" 23	200	89	106	92	98	91
" 24	205	80	109	99	90	91
" 25	225	77	108	99	89	84
" 26	205	78	104	100	99	80
" 27	230	62	103	95	90	76
" 28	240	52	108	96	101	82
" 29	250	34	108	95	96	82
" 30	290	36	108	89	94	82
" 31	270	54	108	95	127	119
					131	131
Total	2855	993	1434	1226	1263	1123
Aug. 1	240	112	115			
" 2	230	45	102	94	151	150
" 3	230	47	99	88	87	79
" 4	212	74	113	88	94	55
" 5	150	45	97	58	102	90
" 6	150	37	103	85	14	11
" 7	150	39	108	85	4	0
" 8	151	48	103	70	17	0
" 9	151	60	109	92	12	6
" 10	151	49	109	95	4	0
" 11	152	40	108	90	4	0
" 12	152	40	108	89	1	0
" 13	151	40	107	89	1	0
" 14	151	40	108	88	1	0
" 15	180	39	108	87	33	20
" 16	222	28	108	83	63	60
" 17	234	20	108	88	60	53
" 18	240	19	106	89	72	66
" 19	240	22	106	92	71	70
" 20	240	23	112	90	64	60
" 21	245	25	117	89	66	66
" 22	253	24	117	89	71	60
" 23	253	22	101	94	78	75
" 24	253	46	95	94	75	66
" 25	253	13	93	95	86	75
" 26	253	12	93	95	92	88
" 27	253	12	93	69	100	102
" 28	253	12	93	69	107	104
" 29	253	12	93	69	106	102
" 30	242	12	92	69	98	103
" 31	200	13	87	64	65	59
" 31	200	13	87	64	63	56
Total	6537	1041	3186	2800	1862	1676

Daily discharge, in sec.-ft. of Cross Cut Canal-cont'd.

Date	At Head	Inflow from Fall R. Canal	No. Fall R. Diversion	Middle Fall R. Diversion	At Woodfields below highway	At End
Sept. 1	200	13				
" 2	200	13	82	66	63	56
" 3	200	13	88	69	62	55
" 4	200	13	88	69	62	55
" 5	198	14	88	69	62	55
" 6	205	14	89	70	62	54
" 7	205	19	90	71	67	55
" 8	205	22	92	70	74	70
" 9	205	22	92	70	78	89
" 10	150	22	90	68	68	87
" 11	150	22	88	65	39	50
" 12	90	22	87	63	38	50
" 13	90	11	87	58	32	50
" 14	90	4	90	54	0	0
" 15	90	23	92	49		
" 16	90	23	92	45		
" 17	90	22	92	45		
" 18	90	22	92	46		
" 19	90	22	92	46		
" 20	90	22	90	46		
			87	46		
Total	2928	358	1789	1185	707	726

There was a small gain in this canal during 1939 where it passes through the "sub" district from the head to the gaging station at Woodfields below the highway. From Woodfields to the end the loss during July-August averaged 10.5%. During September there was some waste water spilling into this section of the canal causing a gain at times. No water was run through this canal to Teton River after Sept. 12 and none was diverted at the head after Sept. 20. The Fall River Canal diverted 17,910 acre-feet of water from Henrys Fork through the Cross Cut Canal in 1939 in addition to its diversions from Fall River, in order to make stored water available for diversion by upstream canals on Fall River.

Some sink holes developed in the losing section of this canal and water in that section had to be cut out Aug. 5-13 while these were puddled.

Several trips were made into the Island Park area to regulate rights during the regulation period and users there rented 262 acre-feet of storage from the Pool. On account of the few scattered rights in this section it did not seem justifiable to go to the expense of maintaining a deputy there for daily regulation.

The following tabulation of diversions and irrigated acreage on Henrys Fork is similar to that previously given for the main Snake River, the irrigation season being taken as May to September inclusive.

Table showing diversions and irrigated areas Henrys Fork and Canals-1939

Canal	Irr. Season diversions (acre-ft.)	Area under canal (acres)	Area irrigated 1939	Diversions acre-ft. per acre irrig.
<u>Fall River Canals</u>				
Yellowstone	2,040	5,000	1,000	2.0
Harrigfield	0	2,145	0	0
Marysville	28,700	13,900	12,200	2.4
Farmers Own	11,000	10,000	6,500	1.7
Almy	81	60	40	2.0
Enterprise	41,100	7,000	6,000	6.8
Bell	1,660	160	160	10.4
Fall River	93,910(a)	8,000	8,000	11.7
McBee	490	300	90	5.4
Chester	11,200	2,000	2,000	5.6
Silkey	4,000	620	420	9.5
Cur	10,400	1,570	1,500	6.9
Total Fall River	204,581	50,755	37,910	5.4

(a) includes 17,910 acre-ft. diverted through Cross Cut.

Henrys Fork Canals

Dewey	4,420	1,440	1,000	4.4
Last Chance	17,800	1,900	1,840	9.7
St. Anthony Union	127,000	10,000	10,000	12.7
Farmers Friend	25,300	2,900	2,900	8.7
Twin Groves	32,200	2,780	2,780	11.6
Salem Union	48,500	5,300	5,100	9.5
Egin	85,700	6,500	6,000	14.3
Union Feeder	19,000	2,000	2,000	10.0
Independent	70,500	7,000	7,000	10.1
Consol. Farmers	58,400	7,000	6,000	9.7
Total Henrys Fork	489,720	45,820	44,620	11.0

Canal	Irr. Season diversions (acre-ft.)	Area under canal (acres)	Area irrigated 1939	Diversions acre-ft. per acre irrig.
<u>Teton River Canals</u>				
Siddoway	3,050	600		
Wilford	27,300	2,000	600	5.1
Teton Irrig.	19,700	2,200	1,850	14.8
Good Luck	5,870	400	2,000	9.9
Pioneer	3,350	400	400	14.7
Stewart	4,390	366	400	8.4
Pincock-Byington	2,630	340	366	12.0
Pincock-Garner	4,700	580	300	8.8
Teton Isl. Feeder	95,900	10,500	440	10.7
North Salem	2,780	600	10,400	9.2
Roxana	2,310	750	600	4.6
Island Ward	6,820	3,300	430	5.4
Woodmansee-			3,000	2.3
Johnson	5,250	1,250		
City of Rexburg	10,300	1,290	1,250	4.2
Rexburg Irrig.	50,130(b)	5,440	1,100	9.4
Saury-Sommers	4,580	640	5,240	9.6
Total			640	7.2
Teton River	249,060	30,656	29,016	8.6
Total Fall R., Henrys Fork and Teton River	943,361	128,231	111,546	8.5

(b) Includes 850 acre-ft. pumped from Rexburg City Sewer outflow.

Total diversions were 63,000 acre-ft. more than in 1938 and were the largest ever recorded.

River gains & losses in the Henrys Fork Basin

The following time intervals have been used in preparing the tabulations by river sections:

Lake to Island Park,	15 hours
Island Park to	
Warm River	15 "
Warm River to Ashton	6 "
Ashton to St. Anthony	6 "
St. Anthony to Rexburg	8 "
Squirrel to Chester	12 "

Gain in Henrys Fork, Lake to Island Park stations, 1939

(Island Park dates and 24-hr. sec.-ft. except as noted)

<u>Station</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
Lake	184	804	751	810	610	3,159
Released from Island Park Res.	448	746	15,501	17,092	7,710	41,297
Total supply	632	1,550	16,052	17,902	8,320	44,456
Island Park	25,702	14,730	27,829	31,862	21,270	121,393
Tot. gain s.f.	25,070	13,180	11,777	13,960	12,950	76,937
Mean gain s.f.	809	439	380	450	432	503
Tot. gain a.f.	49,726	26,142	23,359	27,689	25,686	152,602

During May, June & July the gain in this section was 68,700 acre-ft. less than in 1938 but the Aug.-Sept. 1939 gain was practically the same as during those months in the previous year.

Gain in Henrys Fork, Island Park to Warm River stas., 1939
(Warm River dates & 24-hr. sec.-ft. except as noted)

Island Park	25,773	14,718	27,454	31,874	21,694	121,513
Warm River	42,860	27,792	37,915	43,060	33,747	185,374
Tot. gain s.f.	17,087	13,074	10,461	11,186	12,053	63,861
Mean gain s.f.	551	436	337	361	402	417
Tot. gain a.f.	33,892	25,932	20,749	22,187	23,907	126,667

The total gain was 11,000 acre-ft. less than in 1938 and about the same as in 1937. About 9,000 acre-ft. of the shortage occurred during May when the local snow melted. The September gain however was 1,300 acre-feet greater than in September 1938.

Gain in Henrys Fork, Warm River to Ashton Stas., 1939
(Ashton dates & 24-hr. sec.-ft. except as noted)

Warm River	42,920	27,843	37,736	43,070	33,913	185,485
Ashton	65,050	49,500	49,390	52,970	42,270	250,180
Tot. gain s.f.	22,130	12,664	11,654	9,900	8,357	64,695
Mean gain s.f.	714	422	376	319	279	423
Tot. gain a.f.	43,894	25,099	23,115	19,636	16,576	128,320

Total gain in this section was 20,000 acre-ft. less than in 1938 due to reduced run-off from melting snow during May and June. The gain July-Sept. was slightly greater than during the same months in 1938.

Gain in Fall River, Squirrel to Chester stations, 1939
(Chester dates and 24-hr. sec.-ft., except as noted)

<u>Station</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
Squirrel	62,160	43,547	18,288	14,951	14,725	153,671
Diversions	14,964	22,096	17,272	13,515	10,757	78,604
Chester	57,600	26,241	3,939	3,669	6,605	98,054
Tot.acct.for	72,564	48,337	21,211	17,184	17,362	176,658
Tot.gain s.f.	10,404	4,790	2,923	2,233	2,637	22,987
Mean gain s.f.	336	160	94	72	88	150
Tot.gain a.f.	20,636	9,501	5,798	4,429	5,230	45,594

The seasons gain in this section was 10,000 acre-ft. less than during 1938. The Sept. gain however, was 1300 acre-ft. greater in 1939 than 1938.

Gain in Henrys Fork, Ashton to St. Anthony stations, 1939
(St. Anthony dates and 24-hr. sec.-ft. except as noted)

Ashton	65,280	40,580	49,220	52,980	42,450	250,510
Chester	57,830	26,594	4,041	3,640	6,598	98,703
Tot.supply	123,110	67,174	53,261	56,620	49,048	349,213
Diversions	36,080	29,143	30,764	27,501	17,646	141,134
St. Anthony	88,820	41,642	23,973	30,773	31,881	217,089
Tot.acct.for	124,900	70,785	54,737	58,274	49,527	358,223
Tot.gain s.f.	1,790	3,611	1,476	1,654	479	9,010
Mean gain s.f.	58	120	48	55	16	59
Tot.gain a.f.	3,550	7,162	2,927	3,280	950	17,869

The average gain in this section was 31 sec.-ft. less than in 1938 and 17 sec.-ft. less than in 1937. The construction of the diversion dam at the head of the Cross Cut Canal and the effect of the Cross Cut Canal as an intercepting drain has probably slightly reduced the gain formerly occurring in this section of the river.

Gain in Henrys Fork & Teton River, St. Anthony
to Rexburg stations, 1939

<u>Station</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
St. Anthony	88,820	41,642	23,973			
Teton River	49,970	35,642	27,524	30,773	31,881	217,089
Total supply	138,790	77,284	51,497	20,674	17,571	151,381
H.F. Diversions	34,761	24,375	23,802	51,447	49,452	368,470
Teton diversions	28,537	33,105	27,356	21,387	13,990	118,315
Rexburg	87,588	49,440	21,353	20,514	16,048	125,560
				25,767	35,090	219,238
Tot. acct. for	150,886	106,920	72,511	67,668		
Tot. gain s.f.	12,096	29,636	21,014	16,221	65,128	463,113
Mean gain s.f.	390	988	678	523	15,676	94,643
Tot. gain a.f.	23,992	58,782	41,681	32,174	31,093	187,722

The gain for the season was 46,000 acre-ft. more than in 1938, probably the result of a gradual up-building of ground-water contributions from upstream areas during the past several years. Between early July and mid-September the canals on Teton River diverted all the water in that stream that passed the St. Anthony gaging station. During this period the canal diversions on lower Teton River just about equalled the amount passing the St. Anthony gaging station, indicating no net loss or gain between that station and the lowest canal heading on Teton River.

REGULATION IN TETON BASIN

Regulation in Teton Basin was under the immediate direction of Mr. I. V. Goslin, Deputy Watermaster, who began work on June 1 and continued until September 2. The Trail Creek Irrigation Co. acquired 4,000 acre-ft. and String Canal Co. 1,000 acre-ft. of storage from the Fremont-Madison District @ 15¢ per acre-ft. The String Canal Co. also purchased 1200 acre-ft. from the Storage Pool at 35¢ per acre ft. Various users on Darby, Teton, Spring, North and South Leigh creeks also purchased 1810 acre-ft. of storage through the Pool, making a total of 8,010 acre-ft. storage acquired for 1939 use by Teton Basin canals. Most of this water was furnished to downstream users on the basis of delivering storage at the gaging station on Teton River near St. Anthony

equal to one-half that diverted in Teton Basin. Allowing for 10% loss in the Cross Cut Canal and 7.26% transmission loss on Jackson Lake storage this permitted the users in Teton Basin to divert $1\frac{2}{3}$ acre-ft. for each acre-ft. of water rented. Based on studies of channel losses, return flow, etc. on Teton River in past years it appears that the downstream users are adequately compensated under this arrangement for the natural flow retained in Teton Basin.

Prior to July 16 regulation in Teton Basin was for the benefit of priorities on Snake River, during which time storage charges to Teton Basin users amounted to 1,080 acre-ft. (measured at gaging station near St. Anthony). After July 16 rights on Teton River were cut to earlier priorities than on the Snake and storage water used thereafter in Teton Basin was credited to the lower users on Teton River.

Regulation on Trail Creek continued until Sept. 9 when due to decreased demand by downstream users it was discontinued in Teton Basin.

No stored water was charged on Fox Creek during 1939 as measurements made in previous years indicate a loss from upper diversion to live water of 20 to 25 sec.-ft., and the available supply for delivery to Teton river under schedule of priorities in effect was not in excess of this amount.

On Darby Creek the loss from upper diversion to live water was estimated from previous measurements at 25 sec.-ft. and Idaho users on the creek purchased the full excess flow over this amount as storage for a period of 4 days, July 21-24.

On Teton Creek surplus water in excess of valid decrees was purchased by Grand Teton Canal Co. from July 6-14 while water was flowing down creek into Teton River. From July 21 to Aug. 2 purchases were on basis of assumed loss of 20 sec.-ft. in creek channel, the full amounts

in excess of that flow being purchased as storage.

Stored water was rented by users on No. Leigh Creek July 14-23 incl. A test on July 24 showed that the flow of the creek on that date would no longer reach Teton River.

The flow of Badger Creek in excess of valid rights was insufficient to reach Teton River and no storage was charged on this creek.

Water in excess of valid decrees on South Leigh Creek was diverted as storage July 13-30 and Aug. 5-6. The Creek was practically dry at the State line after Aug. 7.

Surplus water in Spring Creek near Tetonia was purchased from July 14 to Aug. 24. By Aug. 25 the discharge at the bridge east of Tetonia was 10.7 sec.-ft. which was insufficient to reach Teton River and thereafter water was delivered to local users in accordance with their priorities.

No storage water was sold to Swamp ditch users or west side creeks. Swamp ditches were closed as users did not need the water and the flow of west side creeks was so low after their rights were cut that the streams would not have reached Teton River with any appreciable discharge.

The flow of Warm Creek near Victor (6.3 sec.-ft. on July 21,

1939) was sold to String Canal Co. as storage.

Day	Game Creek nr. Victor			Trail Creek Above String Canal			Kimball Canal at head			Town Canal at head			
	June	July	Aug.	June	July	Aug.	June	July	Aug.	June	July	Aug.	
	Discharge in Sec.-ft.												
1	102	108			144			40	13			35	19
2			23						16		55		19
3		77			138			27	15			33	18
4		69			130			24	14			34	16
5		79	19		131	68		26	15			30	16
6	87			181		65		24	13			29	16
7	64	58	18	168	119			24	13			30	15
8	56	64	16	154	122	64		22	13			26	15
9								22	13			26	15
10		58	16		107	64							

(Discharge in sec.-ft.)

Day	Game Creek nr. Victor			Trail Creek above String Canal			Kimball Canal at head			Town Canal at head		
	June	July	Aug.	June	July	Aug.	June	July	Aug.	June	July	Aug.
11												
12	70	62	16	159	106	63		21	13		26	14
13								22	13		27	14
14								22	12		27	14
15		45	15		95	63		21	12		26	14
16	92			171				19	12		26	14
17		41	15		92	62		19	12		25	14
18		41			92			18	12		24	14
19	48		14	141		62		15	12		20	14
20	45	36		136	92			15	12		20	14
21							12	15	11	35	19	14
22		31			86			16	11		20	14
23			14			62		15	11		20	14
24	77		13	144		62		15	11		19	14
25		29			76			15	11		19	14
26			13			58		14	12		19	13
27	77	28		148	73			13	12		19	13
28								13	11		19	14
29		25	13		72	58		13	11		19	13
30								13	11		19	13
31		25			77			13	11		19	13
								Sept. 1	11		Sept. 1	13
								" 2	7		" 2	14

Day	Spencer Canal at head			Tonks Canal at head			Ricks-Kearsley canal at head			Humble Canal at head		
	June	July	Aug.	June	July	Aug.	June	July	Aug.	June	July	Aug.
1		20	9	30	13		20	5		8	4	
2			9		11			7			2	
3		20	9	30	11		15	7		8	1	
4		19	9	27	12		14	6		6	0	
5		20	9	34	11		15	6		7	0	
6		20	9	32	11		14	6		6	0	
7		18	9	25	11		12	6		6	2	
8		18	8	28	8		12	5		6	3	
9		16	5	25	10		12	5		5	2	
10		17	7	24	8		12	5		6	2	
11		17	7	24	7		12	5		5	2	
12		17	7	24	7		12	5		6	2	
13		17	7	24	7		12	5		5	2	
14		16	7	24	7		12	5		5	2	
15		16	7	24	7		10	5		5	2	
16		14	6	24	6		10	5		4	2	
17		14	6	24	6		7	5		3	3	
18		11	7	12	5		6	5		2	3	
19		11	7	11	5	15	6	6	8	1	3	
20	18	10	5	11	5		6	6		2	3	
21		11	5	13	4		6	6		2	3	
22		10	5	13	4		6	6		3	3	
23		9	5	10	4		6	6		3	0	
24		9	5	10	6							

Loss Measurements on Teton Basin StreamsTrail CreekJune 20, 1939

Trail Cr. above String Canal	136 sec.-ft.	
Game Cr. at highway	<u>45</u> "	
Total supply		181 sec.-ft.
Town Canal	33 "	
String Canal	59 "	
Ricks-Kearsley Canal	15 "	
Kimball Canal	12 "	
Humble Canal	8 "	
Spencer Canal	18 "	
Tonks Canal	11 "	
Edwards Canal	3 "	
Trail Cr. 1/2 mi. W. of Victor	<u>13</u> "	
Total acct. for		172 "
Loss		9 "

Cold weather; ground wet from rain and snow.

July 1, 1939

Trail Creek above String Canal	144 sec.-ft.	
Game Cr. at highway	<u>108</u> "	
Total supply		252 "
Kimball Canal	40 "	
Town Canal	35 "	
Spencer Canal	20 "	
Tonks Canal	30 "	
Ricks-Kearsley	20 "	
Humble Canal	8 "	
String Canal	55 "	
Edwards Canal	<u>2</u> "	
Total use		210 "
Loss		42 "

July 20, 1939

Trail Cr. above String Canal	92 sec.-ft.	
Game Cr. at highway	<u>36</u> "	
Total supply		128 "
Kimball Canal	15 "	
Town Canal	19 "	
Spencer Canal	10 "	
Tonks Canal	12 "	
Edwards Canal	2 "	
Ricks-Kearsley	6 "	
Humble Canal	1 "	
String Canal	<u>43</u> "	
Total use		108 "
Loss		20 "

Darby CreekJune 22, 1939

Darby Creek at Forest Service Bridge	100 sec.-ft.	
Spring inflow	1.0 "	
Total supply		101.0 sec.-ft.
Hill Canal		
Todd Canal (36.6 at head less 3.0 return from power plant)	20.8 "	
Cannon Canal	33.6 "	
Cherry Grove Canal	24.4 "	
Leakage through Cherry Grove dam	16.8 "	
Total use	1.0 "	
Loss from forest bridge to Cherry Grove Canal		96.6 "
		4.4 "

July 17, 1939

Darby Creek at forest service bridge	60.0 "	
Darby Springs inflow	0.6 "	
Total supply		60.6 "
Floyd Winger canal (Wyo.)	1.7 "	
Hill Canal, dry	0 "	
Todd Canal (27.5 less 3.0 return)	24.5 "	
Cannon Canal, dry	0 "	
Cherry Grove Canal,	8.6 "	
Darby Creek below Cherry Grove canal	19.6 "	
Total use		54.4 "
Loss from forest bridge to Cherry Grove canal		6.2 "

The 19.6 sec.-ft. passing the Cherry Grove Canal, after 24 hrs. had reached downstream 2 miles below Wyo. State line or 1-3/4 miles upstream from live water and was making no further progress downstream, hence was turned back to Darby Creek users.

Teton CreekJune 28, 1939

Supply - Teton Creek at Ida.-Wyo. line	28.3 sec.-ft.
#1 Diversion	15.1 "
#2 Diversion	4.5 "
Dry below #2 Diversion	19.6 "
Total use	
Loss from Idaho-Wyo. line to #2 Diversion (2 miles)	8.7 sec.-ft.

Creek was dry from a point 2 miles below Idaho-Wyo. line to 1/2 mile east of R.R. Bridge. Between this lower point and R.R. Bridge 9.2 sec.-ft. came into the creek channel from "sub" water.

Teton Creek-cont'd.

July 3, 1939

148 sec.-ft. turned down creek channel at head of Grand Teton Canal. This stream reached live water 1/4 mile east of R.R. bridge 12 hrs. later.

July 5, 1939

Supply * Teton Creek at Ida.-Wyo. line	112	sec.-ft.
Central Teton Canal	0.5	"
Price Fairbanks Canal	13.1	"
Teton Creek at pole line 1/2 mi. east of R.R. bridge	92.1	
Total use	105.7	"
Loss from Ida.-Wyo. line to 1/2 mi. east of R.R. bridge	6.3	"

Aug. 19, 1939 - After regulation under temporary compact.

Teton Creek above all diversions 5 mi. east of Ida.-Wyo. line	31.2	sec.-ft.
Mill Creek	2.0	"
Total supply	33.2	sec.-ft.
Brown-Clement Pratt & Mill Cr. diversion at distribution gate	7.9	sec.-ft.
Rigby Canal at head	4.4	"
So. Side Canal at head	5.4	"
Waddel Ditch at head	2.2	"
Grand Teton canal	14.3	"
Total use	34.2	"
Gain in creek from upper diversion to Grand Teton heading	1.0	"

Gain is due to several unmeasured springs and seepage inflow into Creek.

North Leigh Creek

On July 24 this creek had a flow of 21 sec.-ft. at the Targhee Forest Boundary. All diversions were closed and water turned down creek channels, about 1/3 flowing down Middle Leigh or Little Crooked Creek and 2/3 down North Leigh channels. After 24 hrs. the water in these channels was still 1/4 mile above live water and was turned back to users.

South Leigh CreekJune 23, 1939

So. Leigh Channel at State line, supply

Zina Little diversion		83.8 sec.-ft.
Wm. Hansen "	27.6 sec.-ft.	
Ed Thomas ditch	2.3 "	
Hansen-Bahr ditch	2.0 "	
1st C. Fullmer ditch	2.0 "	
2nd C. Fullmer "	7.0 "	
Hilliard diversion	6.7 "	
Hanks " So. of Tetonia	2.0 "	
Gale diversion	17.8 "	
Moffat diversion	8.1 "	
Bell-McCracken diversion	13.0 "	
So. Leigh Cr. below R.R.	2.9 "	
	<u>4.0 "</u>	
Total use		95.4 "
Gain in section		11.6 "

Creek receiving inflow from "sub" and irrigation waste. There were 63 sec.-ft. crossing State line on this date in 4 canals that divert in Wyo. and not included in preceding table.

Miscellaneous measurements in Teton Basin during 1939

Stream	Location	Date	Disch. (sec.-ft.)
Mahogany Creek	Above diversions	June 14	20.8
	"	June 30	13.3
	"	July 25	4.6
Horseshoe Creek	"	June 30	11.2
	"	July 25	5.8
Paradise or Henderson Cr.	"	June 30	4.4
	"	July 25	3.6
Packsaddle Creek	"	June 30	11.4
	"	July 25	2.6
Patterson Creek	"	June 30	3.4
	"	July 25	2.4
Boquet Creek	Monroe Dustins, above diversions	June 30	2.0
		July 25	1.3
"	"		

Stream	Location	Date	Disch. (sec.-ft.)
Warm Creek	Highway S. of Victor	June 30	18.0
	"	July 25	10.0
Dude Creek	At Mrs. Genie Giffords house	June 30	0.6
		July 25	0.5
Twin Creek	Total 3 Plcs. above diversions	June 30	5.5
	" "	July 25	1.0
Creek No. of Grove Cr.	Above diversions	June 30	1.0
	"	July 25	0.6
Grove Creek	Kunz ranch above diversions	June 30	1.6
	" " " "	July 25	1.0
Warm (Hot Spring) Cr.	NW above Fred Drakes house	June 30	1.0
	" "	July 25	0
Drake Creek Spring	Above diversions	June 30	1.0
	"	July 25	1.0
Drake (formerly John) Creek	Above diversion	June 30	2.3
	"	July 25	1.5
Deep(?) Creek, S.E.	Fred Drakes house, bottom of hill	June 30	1.0
	" " "	July 25	0.4
Little Pine Creek	Above diversions	June 30	3.0
		July 25	0.4
Badger Creek	Total 2 channels above diversions	June 10	95.3
	"	June 29	79.8
	"	July 10	38.9
	"	July 27	10.9
	"	Aug. 11	5.7
Spring Cr. at E. J. Taylor	diversion 1/2 mile So. Driggs cemetery	Sept. 1	2.6
	Less than 0.5 sec.-ft. in this stream at State line.		
Little Hog Canal from	At State line	June 5	7.6
		" 23	8.9
So. Leigh Cr.	"	" 29	10.3
	"	July 10	8.7
	"	" 28	0.8
	"		

Stream	Location	Date	Disch. (sec.-ft.)
Kilpack Canal from So. Leigh Cr.	At State line	June 5	
	"	" 23	13.3
	"	" 29	8.0
	"	July 10	7.6
Big Hog Canal from So. Leigh Cr. (So. Leigh Cr. Canal Co.)	At State Line	July 28	2.4
	"	July 28	13.4
	"	June 5	65.8
	"	June 23	49.3
Lon Fullmer canal from So. Leigh Cr.	"	June 29	54.5
	"	July 10	33.0
	"	July 20	3.0
	"	July 28	2.5
So. Leigh Creek	At State Line	June 5	1.4
	"	June 23	1.5
	"	June 29	2.8
	"	July 10	4.0
	"	July 28	1.1
	"	June 10	74.0
	"	June 12	68.0
"	June 23	84.0	
"	June 27	70.0	
"	June 29	85.0	
"	July 3	96.0	
"	July 4	70.0	
"	July 8	70.0	
"	July 10	56.0	
"	July 13	28.0	
"	July 20	36.0	
"	July 21	19.0	
"	July 22	24.0	
"	July 25	4.0	
"	July 28	4.0	
"	Aug. 2	18.0	
"	Aug. 3	18.0	
"	Aug. 4	13.0	
"	Aug. 7	5.0	
"	Aug. 11	1.0	
"	Aug. 14	2.0	
"	Aug. 18	0	
So. Leigh Cr.	Above Big Hog Canal in Wyo.	Sept. 1	2.4
No. Alta Irr. Canal from So. Leigh Cr.	At head at I. V. Matthew ranch in Wyo.	Sept. 1	7.7

Stream	Location	Date	Disch. (sec.-ft.)
No. Leigh Cr.	Targhee Forest Boundary	June 10	114
		" 12	112
		" 23	123
		" 27	103
		" 29	126
		July 3	103
		" 4	91
		" 8	85
		" 10	69
		" 14	55
		" 17	38
		" 22	22
		" 24	19
		" 25	18
Aug. 2	16		
" 11	10		
Spring Cr.	Highway bridge 1 mi. E. of Teton	June 27	81.8
		July 11	56.9
		July 27	21.3
		Aug. 7	18.2
		Aug. 24	10.7
Teton Creek	Above diversions at Forest Camp 5 mi. E. of State line	Aug. 16	38.7
		Aug. 18	30.9
Brown-Clement-Pratt Canal and Mill Cr. at Distribution Gate		Aug. 18	10.0
Teton Creek	Below Grand Teton Canal heading	June 7	34.0
		" 21	5.7
		" 28	28.3
		July 3	148.0
		" 5	112.0
" 10	23.9		
Dry Creek	Peacock Ranch 1 mi. W. of State line	Sept. 1	4.7
	Flow at State line is less than 0.5 sec.-ft.		
Wyoming diversion from Darby Creek	Headgate	June 7	15.6
		July 1	0.6
Will Hansen Drain	1 mile E. of Teton	July 1	
	This flow is collected by 2 - 4" tile drains 385' long. Pipes buried 5' deep. Ground-water level 2' below land surface.		

On Aug. 16, 1939 an agreement was reached at a meeting held in Briggs, providing for distribution of water on certain inter-state creeks in Teton Basin. This meeting was attended by the State Engineer of Wyoming and Wyoming water users in Teton Basin, the State Commissioner of Reclamation of Idaho, and Idaho water users in Teton Basin and on lower Teton River. The following agreement was reached at that time between the parties at the meeting:

"SECTION _____ of a proposed compact between the State of Idaho and the State of Wyoming in relation to the distribution of the waters of Teton Creek and various other creeks hereinafter enumerated, that is to say:

"TETON CREEK, a tributary of the Teton River, the headwaters of which are in the State of Wyoming and which flows into the Teton River in the State of Idaho, and over which there has been a controversy in the Federal courts between the Idaho and Wyoming users over the flow of the waters of said stream; and it is now tentatively agreed by and between the State of Wyoming and the State of Idaho, by their commissioners, that the distribution of water in Teton Creek shall be as follows, pending ratification of a compact which is to contain in substance these provisions.

"The users of each State to use as much water as they can apply to a beneficial use until the regular stream flow in said stream diminishes to ninety (90) cubic feet per second, at which time the water is to be divided on a fifty-fifty basis between the users of the two states.

"SOUTH LEIGH CREEK, whose waters originate in Wyoming and flow into the Teton River in Idaho, shall be distributed as follows:

"The users of each State to use as much water as they can apply to a beneficial use until the regular stream flow in said stream diminishes to sixteen (16) cubic feet per second, at which time the water is to be divided on a fifty-fifty basis between the users of the two states, all ditches diverting with legal appropriations in Wyoming and/or Idaho, to be supplied from Wyoming's fifty per cent (50%).

"DARBY CREEK, whose waters originate in Wyoming and flows into the Teton River in Idaho, shall be distributed as between the states on a basis of one cubic foot for each fifty (50) acres of land for which a legal appropriation has been secured in either State.

"SPRING CREEK, whose waters originate in Wyoming and flow into the Teton River in Idaho, shall be distributed as between the states on a basis of one cubic foot for each (50) acres of land for which a legal appropriation has been secured in either State.

"SLOCUM CREEK, whose waters originate in Wyoming and flow into the Teton River in Idaho, shall be distributed as between the states on a basis of one cubic foot for each fifty (50) acres of land for which a legal appropriation has been secured in either State.

"HILL CREEK, whose waters originate in Wyoming and flow into the Teton River in Idaho, shall be distributed as between the States on a basis of one cubic foot for each fifty (50) acres of land for which a legal appropriation has been secured in either State.

"DRY CREEK, whose waters originate in Wyoming and flow into the Teton River in Idaho, shall be distributed as between the states on a basis of one cubic foot for each fifty (50) acres of land for which a legal appropriation has been secured in either State.

"The distribution of the water of the Teton Section, including Teton Creek, Leigh Creek, Darby Creek, Spring Creek, Slocum Creek, and Hill Creek shall be under the direction of a Watermaster or Deputy appointed by the Commissioner of Reclamation of Idaho with the consent and advice of the State Engineer of Wyoming.

"It shall be the duty of the Commissioner of the State of Idaho and the State Engineer of Wyoming to require installation of suitable diversion works and measuring devices on the canals and ditches in their respective states by the water users therein.

"The expenses to be incurred in the distribution of waters between the states, in the Teton Section, shall be borne equally by the respective states, and the users therein shall pay in proportion to the areas adjudicated and unadjudicated, on an acreage or share basis that will be satisfactory to the Commissioner of Reclamation of the State of Idaho, and the State Engineer of Wyoming."

On Aug. 18, 1939 in compliance with the terms of this compact one-half of the flow of Teton Creek was turned down to the Grand Teton Canal in Idaho, and this arrangement continued for the balance of the season, measurements being made jointly by the Deputy Watermasters of the two States.

On South Leigh Creek the flow of the Creek late in the season was so low that when divided in half it would not reach the lower appropriators on the stream and the Wyoming Water Commissioner rotated the full stream between Wyoming and the upper Idaho users.

Miscellaneous Measts. in Henrys Fork Basin
(exclusive of Teton Basin)
during 1939

Date	Stream	Location	Discharge (sec.-ft.)
July 8	Conant Creek canal	At head	31.1
" 21	do.	do.	24.4
Aug. 1	do.	do.	20.8
" 11	do.	do.	20.1
" 23	do.	do.	19.6
July 13	Boone Creek Canal	do.	3.9
" 21	do.	do.	5.7
Aug. 1	do.	do.	6.2
Aug. 11	do.	do.	3.3
July 8	Squirrel Cr. Canal	do.	10.0
July 13	do.	do.	10.0
July 21	do.	do.	2.9
Aug. 1	do.	do.	3.5
Aug. 11	do.	do.	2.0
June 2	Canyon Cr. Canal	do.	43.4
July 23	do.	do.	44.6
July 10	do.	do.	25.0
July 21	do.	do.	18.6
Aug. 5	do.	do.	14.2
Aug. 19	do.	do.	11.6
Aug. 2	Sheridan Creek	Below Sheridan Ranch house	10.5 29.3
Aug. 3	do.	do.	
Aug. 3	Howard Creek	Forest Road above diversions	7.6
Aug. 3	Sheridan Creek	Above Sheridan Ranch Res. diversion	20.6 27.0*
Aug. 16	do.	do.	

* Howard Creek turned into Sheridan Creek above this meas. point.

DISTRIBUTION IN SWAN VALLEY SECTION

Mr. F. S. Thomas of Irwin was appointed as Deputy Watermaster and was paid by District No. 36, the water users in this section being assessed for a pro-rata share of District No. 36 costs on the Bonneville Co. tax rolls. Water users in this area purchased 896 acre-feet of Jackson Lake storage through the storage pool and were allowed to divert twice this quantity on the assumption that half of the water diverted would return by percolation to the river in a short time.

Miscellaneous measts. in Swan Valley Section

Date	Stream	1939		Gage (Ft.)	Discharge (Sec.-ft.)
		Location			
July 2	No. Fk. Indian Cr.	Above	Ruud Canal	1.00	28.5
July 8	do.		do.	.94	24.0
July 19	do.		do.	.80	18.3
July 25	do.		do.	.76	14.9
Aug. 7	do.		do.	.74	14.9
Aug. 15	do.		do.	.70	12.9
Aug. 26	do.		do.	.66	10.7
July 2	So. Fk. Indian Cr.	Above	junction with No. Fk.	.76	19.7
July 8	do.		do.	.64	14.2
July 11	do.		do.	.60	10.1
July 19	do.		do.	.50	6.9
July 25	do.		do.	.42	5.3
Aug. 7	do.		do.	.40	5.4
Aug. 15	do.		do.	.36	3.1
Aug. 26*	do.		do.	.28	2.0

*First time in years that creek has not been dry at this time of year. On August 26 with all diversions closed approximately fifty per cent of supply at forks was reaching river.

June 27	Pritchard Cr.	Above diversions nr.		2.8
		Swan Valley		1.3
July 17	do.	do.		1.5
June 27	Garden Creek	do.		1.3
July 17	do.	do.		

Discharge of Palisade Canal at head, 1939

<u>Date</u>	<u>Disch.</u> (sec.-ft.)	<u>Date</u>	<u>Disch.</u> (sec.-ft.)	<u>Date</u>	<u>Disch.</u> (sec.-ft.)
June 14	86	July 16	64	Aug. 13	52
June 16	93	July 18	62	Aug. 14	52
June 17	88	July 20	56	Aug. 15	52
June 19	88	July 22	54	Aug. 17	50
June 20	89	July 23	54	Aug. 18	50
June 22	92	July 24	56	Aug. 19	50
June 24	76	July 25	58	Aug. 20	48
June 27	68	July 26	57	Aug. 21	48
June 29	78	July 28	57	Aug. 23	48
June 30	77	July 30	59	Aug. 25	52
July 2	74	July 31	59	Aug. 27	52
July 5	70	Aug. 1	58	Aug. 28	50
July 7	67	Aug. 2	58	Aug. 29	35
July 8	65	Aug. 4	58	Aug. 30	29
July 10	64	Aug. 5	52	Sept. 1	32
July 11	64	Aug. 7	50	Sept. 4	32
July 12	54	Aug. 8	53	Sept. 7	40
July 13	52	Aug. 9	51	Sept. 9	40
July 14	55	Aug. 10	55		
July 15	62	Aug. 12	54		

Discharge of Palisade Creek below diversions, 1939

June 20	20	July 7	9	Aug. 29	25
June 22	22	July 8	10	Aug. 30	37
June 24	40	July 12	4	Sept. 1	34
June 27	33	July 15	4	Sept. 4	35
June 30	17	July 16	3	Sept. 6	22
July 2	13	Aug. 27	2	Sept. 9	32
July 5	10	Aug. 28	8		

Discharge of Rainy Creek above diversions, 1939

June 12	43	July 16	27	Aug. 11	23
June 13	42	July 21	38	Aug. 14	21
June 14	42	July 24	24	Aug. 18	21
June 15	39	July 28	24	Aug. 21	22
June 17	42	July 30	25	Aug. 28	22
June 30	36	Aug. 2	24	Aug. 30	21
July 7	32	Aug. 4	23	Sept. 4	21
July 9	32	Aug. 7	24	Sept. 7	21
July 13	29	Aug. 9	23	Sept. 10	21

CLIMATOLOGICAL DATA

Precipitation records at various points are shown in the following table.

Precipitation in Inches

(Actual and normal for year ending Sept.30,1939)

Month	Snake R., Wyo.		Moran, Wyo.		Afton, Wyo.		Bachler, Wyo.		Irwin, Ida.	
	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.
Oct. 1938	2.67	2.10	2.30	1.58	1.22	1.64	4.72	2.38	3.40	1.22
Nov.	2.53	2.04	1.75	1.69	1.91	1.88	4.80	3.09	1.59	1.00
Dec.	3.80	2.66	2.30	1.76	0.96	1.30	4.32	4.28	1.27	1.17
Jan. 1939	4.09	3.68	2.54	2.46	1.52	1.37	5.73	5.00	1.59	1.50
Feb.	2.89	2.98	3.54	2.20	1.61	1.23	5.81	3.64	2.13	1.12
Mar.	1.52	3.61	0.98	2.56	1.05	1.62	3.09	4.90	0.89	1.32
Apr.	1.33	1.96	1.77	1.60	1.89	1.58	2.31	3.00	0.99	0.86
May	.96	2.40	0.60	1.98	0.95	2.12	0.57	3.12	1.20	1.66
June	3.10	2.19	3.17	1.57	1.99	1.48	3.82	3.46	1.84	1.38
July	1.09	1.52	0.85	1.12	1.09	1.03	1.09	2.32	0.85	0.93
Aug.	0.57	1.48	0.39	1.34	0.07	1.32	0.32	1.31	0.03	0.98
Sept.	1.38	1.78	1.19	1.61	1.67	1.52	1.59	1.94	1.79	1.24
Year	25.93	28.40	21.38	21.47	15.93	18.09	38.17	38.94	17.57	14.38

Month	Ashton		Idaho Falls		Pocatello		Twin Falls		Mean 9 Stas.	
	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.
Oct. 1938	4.94	1.20	3.14	1.06	2.05	1.16	2.47	0.90	2.99	1.53
Nov.	1.46	1.19	0.81	0.61	1.38	0.89	0.83	1.08	1.90	1.50
Dec.	1.27	1.56	0.19	0.97	0.67	1.21	0.62	0.89	1.71	1.75
Jan. 1939	3.20	1.82	1.08	1.10	0.75	1.39	0.27	1.09	2.30	2.16
Feb.	2.32	1.29	0.44	1.03	0.84	1.27	0.27	0.91	2.20	1.74
Mar.	0.88	1.14	0.27	0.86	0.43	1.31	0.42	0.98	1.06	2.03
Apr.	0.69	1.18	0.83	0.89	0.56	1.43	0.39	0.98	1.19	1.50
May	0.46	1.97	0.61	1.37	0.47	1.52	0.79	0.99	0.73	1.90
June	2.51	1.44	0.66	1.10	0.46	1.09	0.35	0.68	1.99	1.60
July	1.49	0.93	0.54	0.61	0.67	0.77	1.18	0.37	.98	1.07
Aug.	0.06	0.70	0.05	0.61	0.11	0.71	0.20	0.21	.20	.96
Sept.	1.29	1.16	1.11	0.81	0.88	0.81	0.13	0.55	1.22	1.27
Year	20.57	15.58	9.73	11.02	9.27	13.56	7.92	9.63	18.47	19.01

precipitation for the year on the headwater areas ranged from 88% of normal at Afton to 132% of normal at Ashton. At valley points the years precipitation ranged from 68% of normal at Pocatello to 88% of normal at Idaho Falls.

March, May and August were the months of most marked deficiencies in precipitation.

The river run-off was not as great as would be expected from the precipitation, considering the excellent ground-water holdover from 1938. March and May precipitation deficiencies probably contributed to this result as a large per cent of precipitation during those months appears as run-off. April precipitation was also deficient over most of the drainage area. March temperatures were about 2° above normal and April and May temperatures were about 4° above normal which probably caused larger than usual evaporation losses from the snow fields. The temperature during the irrigation season in the valley area averaged about 2° above normal which doubtless contributed to the heavy use of water that occurred.

EXPENDITURES DURING YEAR ENDING DEC. 31, 1939

Engineers & Hydrographers

Lynn Crandall	Salary 1 year	
W. V. Iorns	" " "	\$4800.00
Melvin Luke	" 3.63 mos. @ \$180	3109.92
L. K. Homer	" 3.13 mos. @ \$150	654.00
F. W. Tolles	" 3.40 mos. @ \$145	470.00
I. V. Goslin	" 3.20 mos. @ \$140	492.99
		447.99

Clerk

Effie C. Jones	Salary 1 year	\$1680.00
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River Riders

D. W. Archibald	113 days @ \$6 incl. mileage	\$678.00
D. R. Crystal	128 days @ \$5.50 " "	704.00
A. C. Kelley	56 days @ \$5.50 " "	308.00
Eugene Liljenquist	130 days @ \$5.00 " "	650.00
H. M. Bramwell	128 days @ \$5.50 " "	704.00
F. S. Thomas	87 days @ \$5.00 " "	435.00
J. K. Thatcher	51 days @ \$5.00 " "	255.00
E. S. McAllister	3 days @ \$5.00 " "	15.00
James Ingram	7 days @ \$1.00 " "	7.00
Seth L. Hansen	67 hrs. @ .50¢ " "	33.50
Walter C. Lenz	3 mos. @ \$40 " "	120.00

Miscellaneous

Transportation, 47,042 miles @ 5¢ a mile	\$2352.10
Telephone & Telegraph	282.64
Supplies & Equipment	1438.11
Gage readers	631.79
Construction & repairs	142.66
Bond premium & insurance	83.41
Miscellaneous	423.16
	<hr/>
	\$20,918.27

Total,

Expenditures from various funds

Normal Flow users	
Jackson Lake & Amer. Falls storage	\$7,103.90
Storage Sales account	4,669.80
Henrys Lake Storage users	471.07
Twin Lakes " "	61.55
State Of Idaho Stream Gaging Fund	4.77
U. S. Geological Survey	2,625.00
	<u>5,982.38</u>
Total	\$20,918.27

In addition to the foregoing, upper valley members of the Committee of Nine were paid \$205.00 for services at \$5 per day and expenses, which was pro-rated among upper valley canals.

Funds on hand Jan. 1, 1940

Normal flow fund	\$2,026.32
North Fork Reservoir Co.	0
Twin Lakes storage users	0
Storage Sales account	6,313.39
U. S. Geological Survey	<u>3,184.06</u>
Total	\$11,523.77

MAP SHOWING PRINCIPAL STREAMS AND GAGING STATIONS

NO.	STATION
1	JACKSON LAKE AT MORAN, WYO.
2	SNAKE RIVER NR. MORAN, WYO.
3	SNAKE RIVER NR. HEISE, IDA.
4	SNAKE RIVER NR. SHELLEY, IDA.
5	SNAKE RIVER NR. BLACKFOOT, IDA. (BLACKFOOT BRIDGE)
6	SNAKE RIVER AT CLOUGH RANCH NR. BLACKFOOT, IDA.
7	AMERICAN FALLS RESERVOIR AT AMERICAN FALLS, IDA.
8	SNAKE RIVER AT NEELEY, IDA.
9	LAKE WALCOTT NR. MINIDOKA, IDA.
10	SNAKE RIVER NR. MINIDOKA, IDA.
11	NORTH SIDE CANAL NR. MINIDOKA, IDA.
12	SOUTH SIDE CANAL NR. MINIDOKA, IDA.
13	LAKE MILNER AT MILNER, IDA.
14	NORTH SIDE TWIN FALLS CANAL AT MILNER, IDA.
15	GOODING CANAL AT MILNER, IDA.
16	P. A. LATERAL NR. MILNER, IDA.
17	SOUTH SIDE TWIN FALLS CANAL, AT MILNER, IDA.
18	MILNER LOW LIFT NR. MILNER, IDA.
19	SNAKE RIVER AT MILNER, IDA.
20	HENRYS FORK NR. LAKE, IDA.
21	HENRYS LAKE NR. LAKE, IDA.
22	HENRYS FORK AT WARM RIVER, IDA.
23	HENRYS FORK NR. ASHTON, IDA.
24	FALL RIVER NR. SQUIRREL, IDA.
25	FALL RIVER NR. CHESTER, IDA.
26	HENRYS FORK AT ST. ANTHONY, IDA.
27	TETON RIVER NR. ST. ANTHONY, IDA.
28	HENRYS FORK NR. REXBURG, IDA.
29	BLACKFOOT RIVER NR. BLACKFOOT, IDA.
30	HENRYS FORK NR. ISLAND PARK, IDA.



9-2784 Sept. 1918

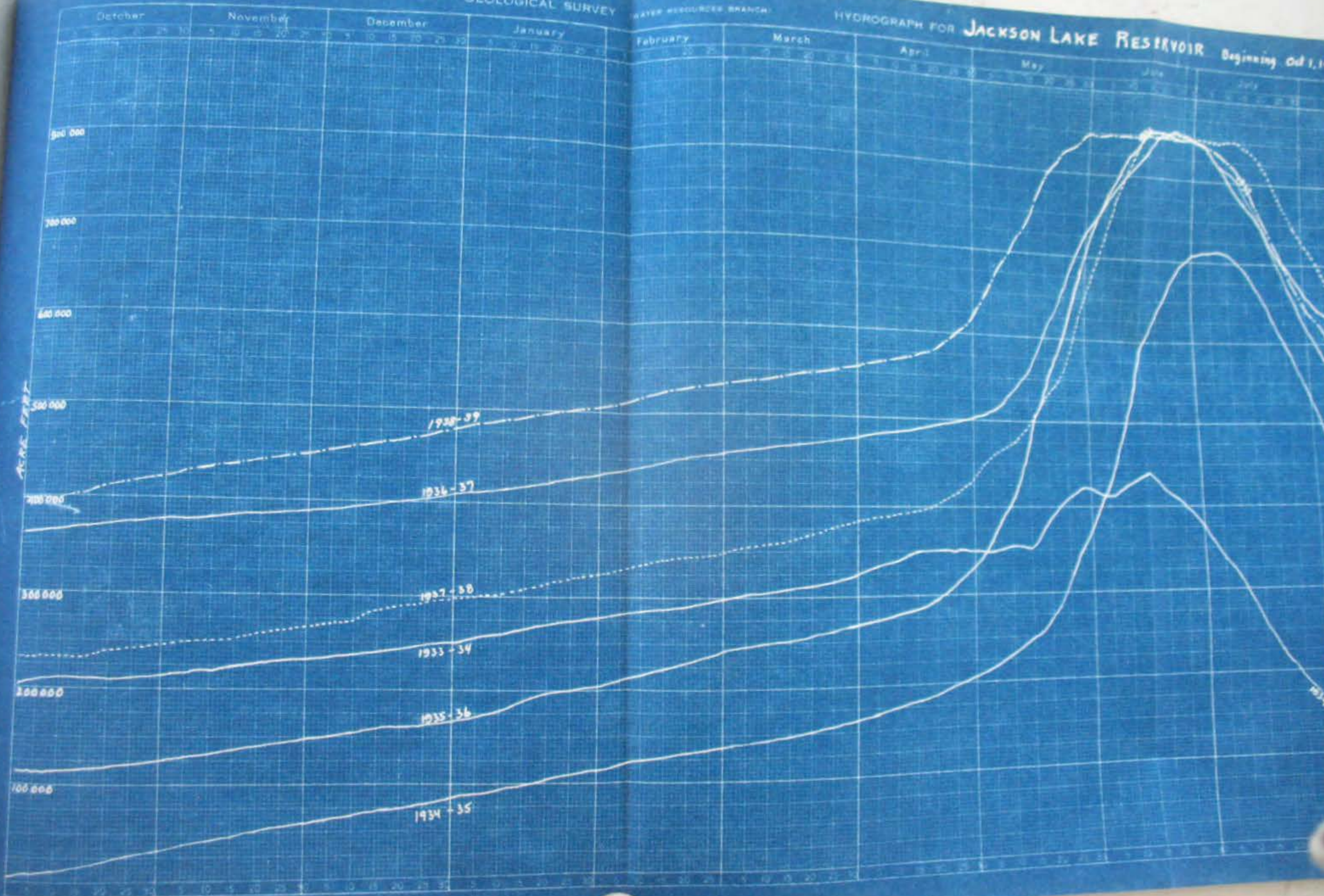
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

HYDROGRAPH FOR JACKSON LAKE RESERVOIR

Beginning Oct 1, 1914

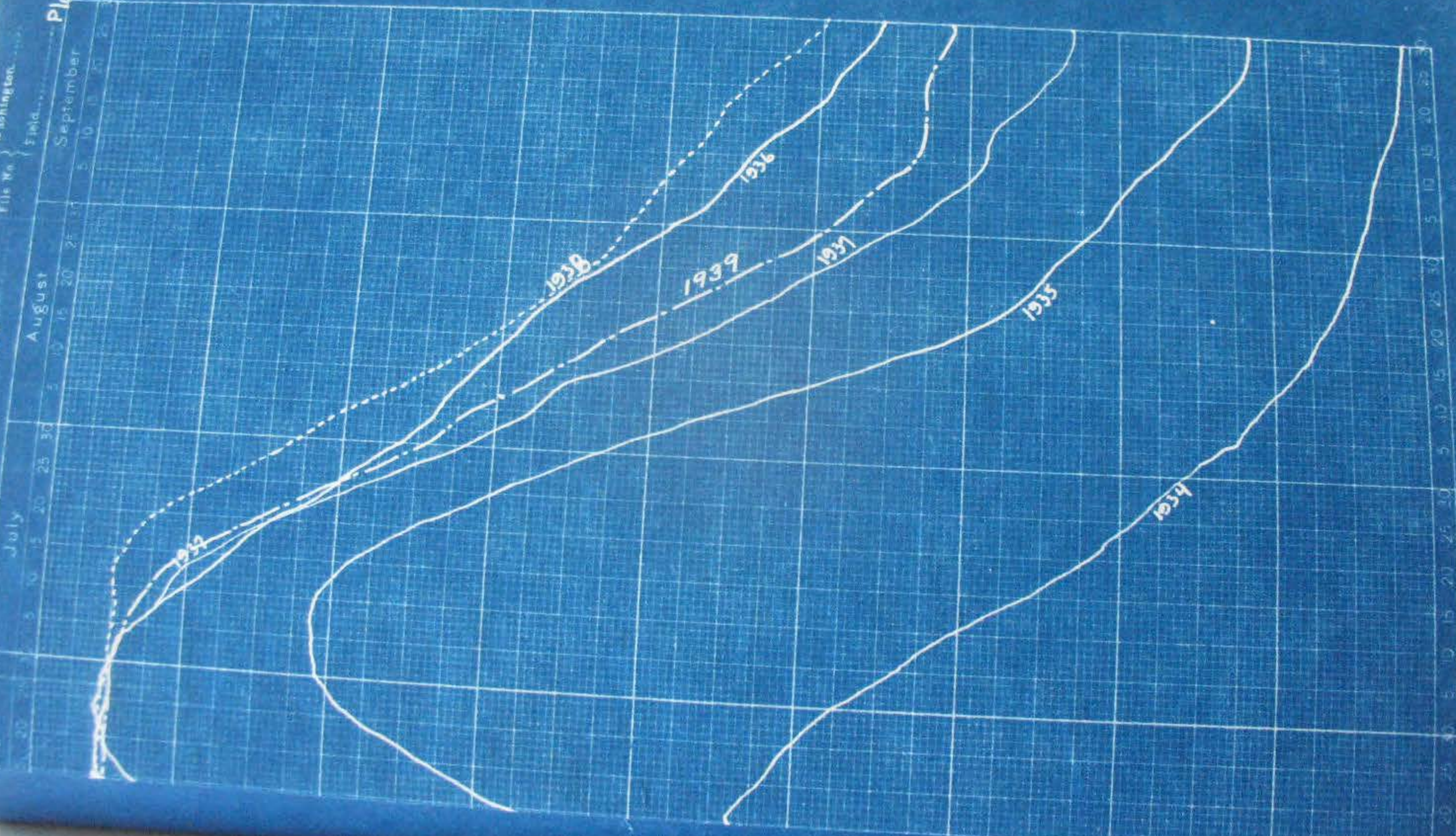


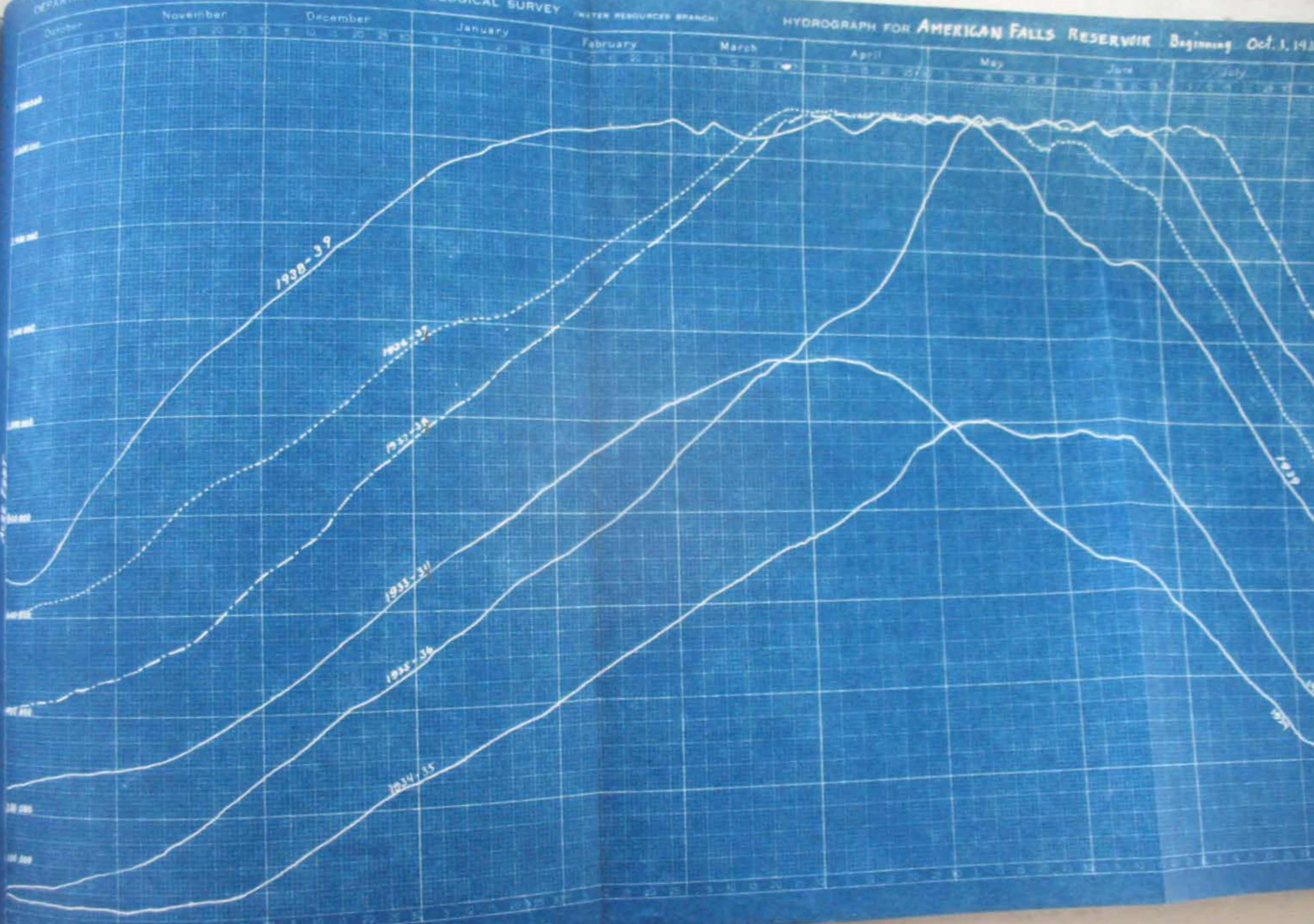
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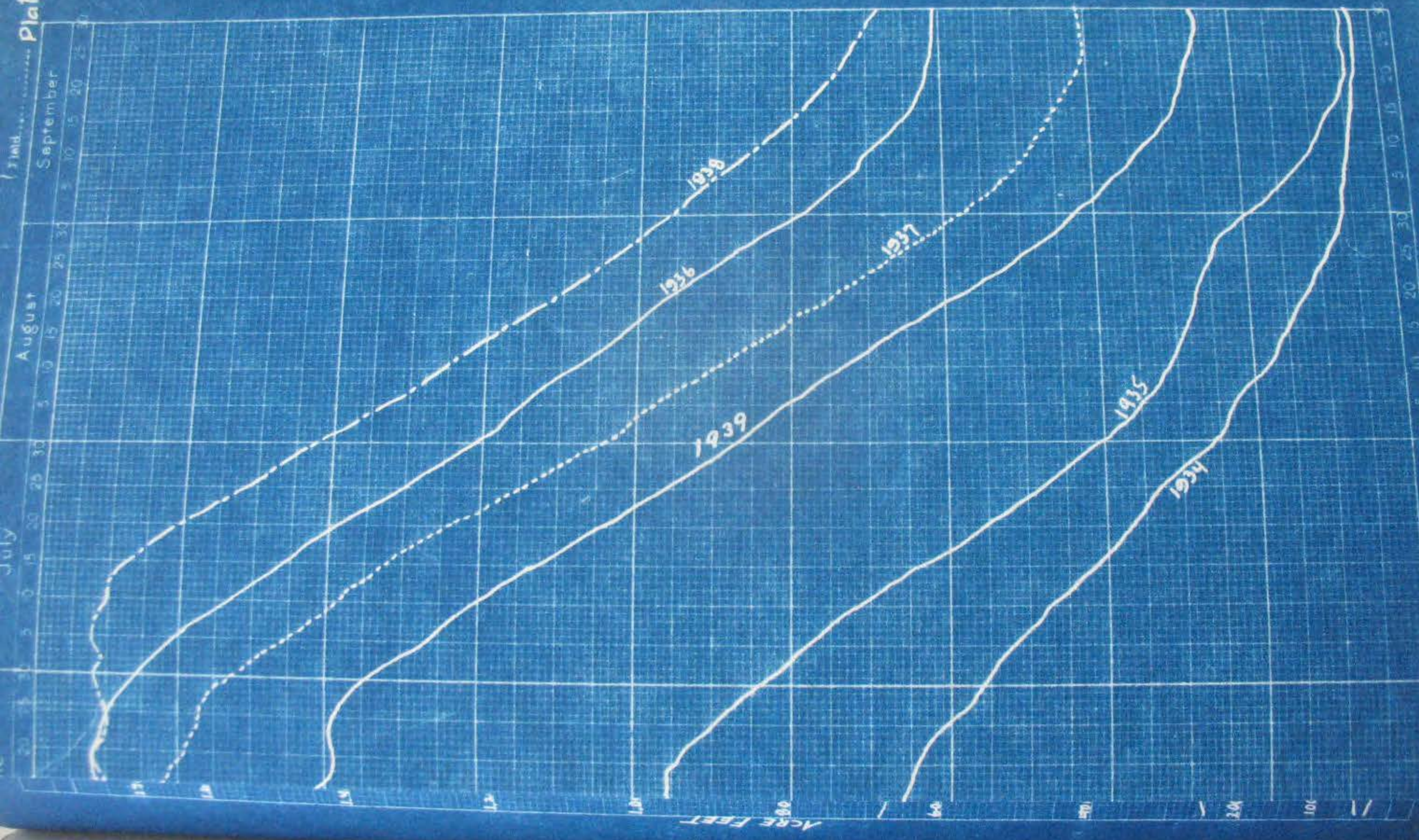
LAVOIR Beginning Oct 1, 1933

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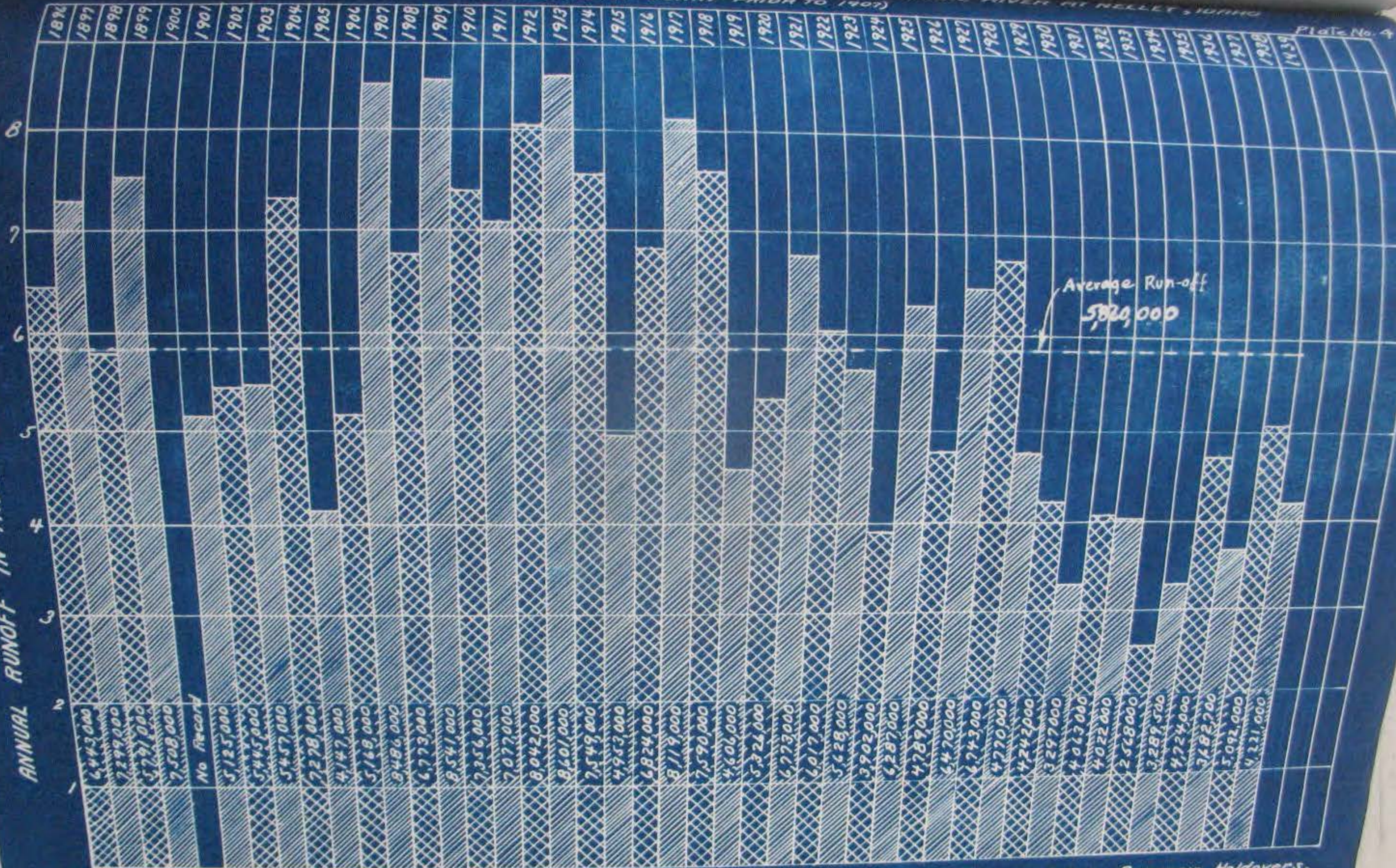
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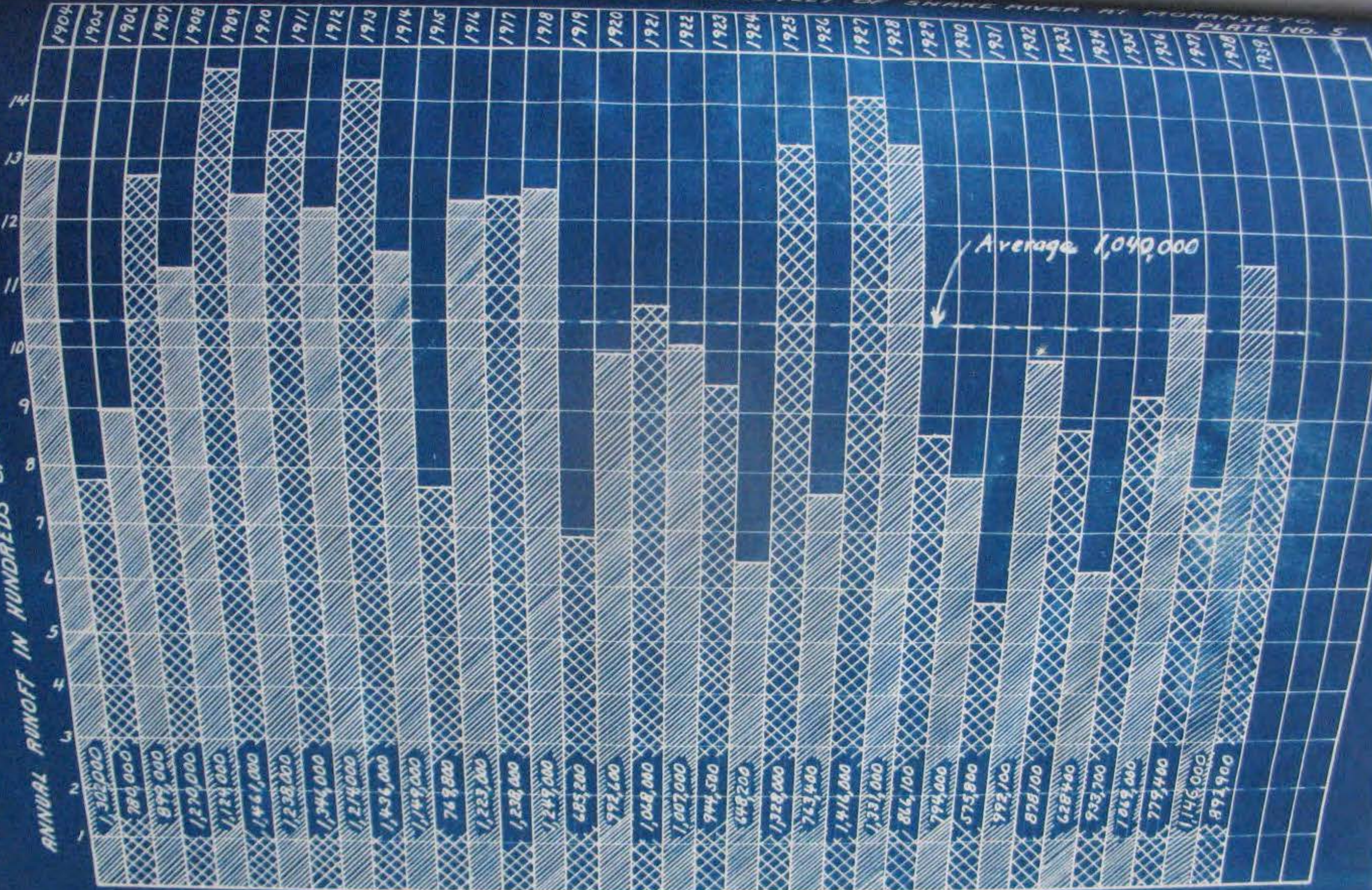
ANNUAL RUNOFF IN MILLIONS OF ACRE- FEET



Note: Runoff totals are for water year ending Sept. 30 and are corrected for American Falls Reservoir Holdovers.

Diagram showing total annual runoff in acre-feet of Snake River at Moran, Wyo. PLATE NO. 5

ANNUAL RUNOFF IN HUNDREDS OF THOUSANDS OF ACRE-FEET



Average 1,040,000

Note: Runoff totals are for water year ending Sept. 30 and are corrected for Jackson Lake holdovers.

DAILY DISCHARGE IN SEC. FT. OF SNAKE RIVER CANALS FOR AUGUST 1934

NAME OF CANAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
RILEY	24	16	16	17	21	23	23	23	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	518
ANDERSON	376	355	345	302	307	285	359	356	332	323	306	298	311	304	235	235	235	235	235	235	235	235	235	235	235	235	235	235	235	235	4740
EAGLE ROCK	679	671	715	715	704	642	622	549	599	506	446	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	18016
FARMERS FRIEND	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	10752
ENTERPRISE	10	10	112	114	113	113	110	118	10	12	10	10	115	115	114	123	10	10	10	10	10	10	10	10	10	10	10	10	10	10	518
NELSON	0	3	0	0	0	2	3	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
MATTSON & CRAIG	7	15	15	15	15	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	248
ARNSBERGER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BUTLER ISLAND	46	46	46	44	45	45	45	45	45	45	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	2032
ROSS & RAND	6	6	5	5	5	6	5	5	5	5	4	4	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	22
STEELE	8	8	8	7	8	8	9	9	7	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	255
HARRISON	473	6	4	4	4	4	470	476	476	476	476	476	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	1581
CHENEY	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	168
BOOMER	139	139	135	147	146	141	141	140	139	140	129	128	126	137	132	139	140	140	141	139	137	135	136	133	116	112	116	101	117	119	168
RUDY	58	57	56	55	56	56	56	56	56	55	57	56	54	53	53	52	55	55	55	55	55	52	52	52	51	30	28	31	27	30	248
RITE & NORD	8	8	7	3	1	1	1	4	4	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	141
BURGESS	796	796	796	789	796	782	778	778	769	782	754	752	756	731	704	657	601	609	614	605	605	605	606	597	597	597	597	597	597	597	4096
CLARK & EDWARDS	67	67	66	64	65	71	71	69	68	66	64	61	67	64	70	71	69	72	72	70	70	74	73	75	70	70	68	66	67	65	1523
LOWDER	6	6	6	6	6	4	4	5	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
JENNINGS	0	0	0	0	0	2	4	5	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20654
EAST LABELLE	123	124	122	120	120	120	120	120	105	119	118	114	118	114	123	126	117	121	119	113	112	109	110	110	109	114	118	106	112	114	665
SUNNYDELL	74	68	92	113	118	59	71	107	145	135	131	0	0	0	130	131	131	140	142	92	85	86	79	75	77	77	70	68	96	86	50
LENROOT	88	104	69	116	126	118	115	119	94	102	117	125	131	113	105	105	110	106	100	100	98	88	77	67	70	64	54	74	76	69	3599
REID	142	122	130	131	145	92	110	142	133	141	144	146	141	92	106	104	116	115	116	120	119	122	131	120	111	106	110	111	113	115	2745
TEXAS FEEDER	230	230	228	228	227	226	224	200	212	210	212	210	214	206	210	212	210	212	210	212	210	212	212	212	212	210	210	208	210	212	2976
NELSON COREY	12	11	7	5	5	12	12	12	11	9	7	12	12	12	14	12	11	12	12	12	12	11	11	3	6	12	10	12	9	14	3777
HILL PETTINGER	0	2	1	1	1	2	1	2	1	2	0	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6638
RIGBY	160	160	159	164	155	156	156	158	158	158	168	168	166	166	165	165	150	152	156	156	156	156	158	156	156	156	156	156	156	156	321
ISLAND	92	92	83	92	91	91	89	90	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	42
DILTS	16	16	16	15	16	17	13	16	17	18	18	19	19	19	19	24	21	20	20	20	20	18	22	0	0	0	0	0	0	0	2910
W. LABELLE & L. ISLAND	510	510	483	478	481	489	478	455	421	486	497	499	494	494	504	472	443	437	443	437	437	437	437	443	443	443	443	443	443	443	473
PARIS & LEWISVILLE	338	350	348	348	346	324	338	347	299	302	343	326	348	297	300	333	319	321	300	307	300	304	299	306	296	299	295	295	294	297	14277
NORTH RIGBY	50	42	47	49	47	50	48	48	48	45	51	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	9872
WHITE	6	6	6	5	5	5	5	5	2	1	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	135
ELLIS	4	4	4	3	2	2	2	2	3	3	0	0	1	1	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	84
BRAMWELL	10	9	8	8	8	8	8	8	8	9	9	0	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	252
BUTTE & MXT LAKE	260	222	192	166	141	140	210	239	215	206	188	170	170	169	169	169	173	159	157	157	156	157	157	150	142	158	174	150	152	150	5389
OSGOOD	116	115	114	114	113	114	114	114	114	115	115	115	115	115	115	115	115	115	115	115	115	116	116	116	116	116	116	116	116	116	3575
BEAR ISLAND	2	2	0	2	0	2	0	2	2	3	2	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
SMITH	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
KENNEDY	47	42	38	38	39	39	38	38	38	37	37	37	37	37	37	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	11
IDAHO	1110	1090	1090	1090	1040	1040	998	937	929	923	917	914	908	901	833	827	823	823	823	823	823	823	823	823	823	823	823	823	823	823	30593
GREAT WESTERN	442	457	459	434	433	442	426	392	395	395	389	376	374	376	370	374	386	386	378	387	386	379	374	371	370	359	357	355	354	374	12226
PORTER	234	234	215	209	203	202	200	194	196	193	186	180	190	200	211	210	209	214	219	217	215	213	208	203	210	218	222	226	229	227	6495
COY & KELLER	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
WOODVILLE	76	71	66	60	40	40	79	72	68	68	60	51	52	52	52	52	52	54	76	85	84	83	83	81	79	75	71	72	74	74	2092
SNAKE RIVER VALLEY	653	617	571	537	506	480	448	495	512	499	495	495	468	502	510	510	510	506	508	573	573	560	571	569	571	552	510	520	516	489	16396
TOTAL HEISE TO SHELLEY	1851	1655	1679	1693	1661	1635	1628	1604	1557	1525	1506	1475	1449	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450	213575
RESERVATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BLACKFOOT	377	378	365	0	0	0	333	333	308	308	308	302	277	286	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	248	8243
NEW LAVA SIDE	153	153	150	153	158	88	79	79	85	82	90	95	100	97	100	78	79	76	79	80	80	91	100	104	103	105	98	168	164	162	3293
PEOPLES	474	474	470	475	473	413	415																								

STREAM	MAY 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	JUN 1	2		
BIG JIMMY CREEK	32	32	32	32	32	32	32	32	32	32	32	32	32	32	31	31	31	31	31	31	30	30	30	30	29	29	29	29	29	29	29	29	29		
PORTNEUF RIVER INFLOW BELOW POGATELLO	323	323	323	323	323	323	323	323	323	323	322	322	321	320	319	317	315	314	312	311	309	308	307	306	304	303	302	301	300	300	300	300	298	295	
BIG SPRING CREEK	458	458	458	458	458	458	458	458	458	458	457	440	440	441	441	442	442	443	443	444	444	445	445	446	446	447	447	448	448	448	448	448	448	467	
CLEAR CREEK	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120		
FORD CREEK	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	7		
KINNEY CREEK	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28		
WIDE CREEK	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57		
PYLE SPRINGS	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	15	15		
MCTUCKER SPRINGS	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27		
HULL SPRINGS	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
TANNER SPRINGS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
PORTNEUF RIV. AT POGATELLO	322	322	290	260	233	239	300	223	166	126	111	124	126	108	101	100	102	94	90	89	82	84	85	95	107	98	97	89	84	76	62	49	48		
CRYSTAL DITCH	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4		
CRYSTAL WASTE	24	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	26	26	26	26	26	27	27	27	27	27	27	27	27	27		
DANIELSON SPRINGS	53	53	53	53	53	53	53	53	53	53	53	53	53	53	52	52	52	52	52	52	52	52	51	51	51	51	51	51	51	51	51	51	51		
ARTESIAN SPRINGS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
STERLING WASTE	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6		
COLBURN WASTE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
ABERDEEN WASTE	29	29	29	29	29	29	29	29	29	29	29	29	28	28	27	27	26	26	26	25	25	24	24	23	23	22	22	21	21	21	21	22	23		
TARTAR WASTE	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
SCHILTZ WASTE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
CEDAR WASTE	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	8	8	8	7	7	6	6	5	5	4	4	3	2	1	1	1	1	2		
ROSS FORK	37	37	37	37	37	37	37	37	37	37	37	36	36	36	36	35	35	35	34	34	34	34	34	34	33	33	33	33	33	33	33	33	33		
TRIPLE CREEK	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3		
BANNOCK CREEK	27	27	27	27	27	27	27	27	27	26	25	23	21	20	18	17	15	14	13	12	11	10	9	8	7	6	5	4	3	3	3	3	3		
RUEGAR SPRINGS	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24	24	24	24	24	24	24	24	24	24	24	24	24	24		
TOTAL MEASURED	1628	1628	1596	1566	1539	1545	1666	1529	1472	1431	1415	1425	1423	1403	1390	1385	1382	1373	1365	1362	1349	1348	1345	1352	1360	1348	1344	1333	1325	1317	1303	1290	1289		
UNMEASURED INFLOW	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300		
TOTAL INFLOW C.-N.	2928	2928	2896	2866	2839	2845	2906	2829	2772	2731	2715	2725	2723	2703	2690	2685	2682	2673	2665	2662	2649	2648	2645	2652	2660	2648	2644	2633	2625	2617	2603	2590	2589		
MONTHLY TOTALS																																			TOTAL MAY 84,487

INFLOW TO AMERICAN FALLS RESE CLOUGH TO NEELEY STATIONS

24 HOUR SECOND FEET

STREAM	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	JUL										
	30	30	30	30	31	31	31	31	31	30	30	29	29	28	28	28	28	29	29	29	29	30	30	30	30	30	30	30	1	2	3	4	5	6	7	8	9	10	
BIG JIMMY	292	290	287	284	282	279	279	279	277	278	278	277	276	275	275	275	275	276	276	277	277	278	278	278	279	279	279	278	277	276	275	273	272	270	269	267	266		
PORTNEUF RIVER BELOW DOCK	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	121	121	122	122	123	123	124	124	125	125	125	125	125	125	125	125	125	126	126	126	126		
BIG SPRING	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	7	7	7	7			
CLEAR CREEK	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29	29	29	29	28	28	28		
FORD CREEK	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	56	56	56	56	55	55	55	55	55	55	55	55	55	55	55	55	55	55			
KINNEY CREEK	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14			
PYLE SPRING	25	25	26	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28	28	27	27	27	27		
McTUCKER	7	7	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7		
HULL SPRING	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
TANNER SPRING	52	52	52	41	40	40	47	59	58	54	53	48	46	50	57	77	90	90	85	80	79	74	70	57	59	64	63	59	58	55	57	58	58	62	65	59	56	56	
CRYSTAL DITCH	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
CRYSTAL WASH	27	28	28	28	28	28	28	28	28	29	29	30	31	32	32	32	32	32	33	34	34	34	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35		
DANIELSON	51	51	51	51	51	51	51	51	51	50	50	49	48	47	47	48	48	49	50	51	52	53	54	55	55	55	55	55	54	54	53	52	52	51	51	49	49	48	
ARTESIAN SPRING	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	5	5	5	5	6	6	6	6	6	6	5	5	5	5	5	4	4	4	4	
STERLING WASH	8	9	10	11	12	13	13	13	13	12	12	11	11	10	10	10	10	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
COLBURN WASH	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
ABERDEEN	24	25	26	27	28	29	29	29	29	28	27	24	25	24	24	24	22	20	19	17	16	14	14	13	13	13	13	13	14	14	14	14	15	15	15	16	16		
TARTAR WASH	6	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6			
SCHILTZ WASH	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4		
CEDAR WASH	2	3	3	3	4	4	4	4	4	4	3	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
ROSS FORK	33	33	33	33	33	33	33	33	33	34	34	34	35	35	35	35	35	35	35	35	35	36	36	36	36	36	36	36	36	36	36	36	35	35	35	35	34	34	34
TRIPLE CREEK	3	2	2	2	2	2	2	2	3	4	4	5	5	6	6	6	6	5	5	4	4	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
BANNOCK CREEK	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
RUEGAR SPRING	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	3	3	3	3	3		
TOTAL MEAN	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24		
UNMEASURED	1292	1294	1295	1282	1284	1283	1290	1302	1302	1300	1304	1299	1299	1304	1311	1331	1345	1344	1337	1324	1324	1331	1325	1313	1317	1322	1321	1315	1310	1303	1300	1297	1292	1293	1290	1277	1271	1266	
TOTAL INFLOW	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300		
MONTHLY TOTAL	2592	2594	2595	2582	2584	2583	2590	2602	2602	2600	2604	2599	2599	2604	2611	2631	2645	2644	2637	2624	2624	2631	2625	2613	2617	2622	2621	2615	2610	2603	2597	2592	2583	2580	2567	2561	2550		
TOTAL JUNE 78, 287																																							

	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AUG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
STR	28	28	28	28	28	28	28	28	28	29	29	29	29	29	30	30	30	30	30	30	30	30	30	29	29	29	29	29	28	28	28	28	28	28	28	28	28	28		
BIG JIM	264	263	261	260	259	259	262	266	270	274	278	282	286	290	294	298	301	305	305	305	305	305	306	306	307	308	308	309	310	310	311	312	313	313	313	313	313	313		
PORTNEUF	460	458	456	454	452	452	452	453	454	455	456	457	458	459	459	460	460	460	460	460	460	461	461	462	463	463	464	465	466	466	467	468	469	469	469	469	469	469		
BIG SPA	126	126	126	126	126	126	126	125	124	123	122	121	121	120	119	118	117	117	117	117	117	117	117	118	118	119	119	119	120	120	121	121	121	121	121	121	121	121		
CLEAR C	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	7	7	7	7	7	7	7	
FORD C	28	28	28	28	28	28	28	28	28	28	28	27	27	27	27	27	27	27	27	27	27	27	27	26	26	26	26	26	26	25	25	25	25	25	25	25	25	25	25	
KINNEY	55	55	55	55	55	55	55	56	56	57	57	57	58	58	59	59	60	60	60	60	60	60	59	59	58	58	56	56	56	55	55	54	54	54	54	55	55	56	56	
WIDE C	14	14	14	14	14	14	14	14	14	14	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15	15	15	15	
PYLE S	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	26	26	26	26	26	26	26	26	26	26	26	26	26	
MCTUCH	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	6	6	6	6	6	6	6	6	6	6	6	6	6	
HULL S	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
TANNE	46	48	52	50	39	37	37	49	45	40	41	45	52	47	42	39	40	38	45	47	71	85	90	81	79	79	76	74	68	68	55	62	67	59	58	54	49	49		
CRYSTAL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1		
CRYSTAL	33	33	33	33	33	33	33	34	35	35	36	37	37	38	38	39	40	40	40	40	40	40	40	39	39	39	38	38	38	38	37	37	37	37	37	37	36	36	35	
DANIELS	48	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	46	46	46	47	47	48	
ARTESIA	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	4	
STERLIN	8	8	8	8	8	8	8	8	7	7	6	6	6	5	5	4	4	4	4	4	4	5	5	5	5	6	6	6	7	7	7	8	8	8	8	8	7	7	7	
COLBUR	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	1	1	1	1	1	1	1	1	1	1	1	1	
ABERD	16	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	19	19	20	20
TARTAR	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	
SCHILTZ	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	3	3	3	3	3	3	3	3	3	3	3	3	
CEDAR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
ROSS	33	33	33	33	33	33	33	34	34	34	34	35	35	36	36	37	38	39	39	39	39	39	39	39	39	39	38	38	38	38	38	38	38	38	38	38	38	38	38	
TRIPLE	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
BANNO	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
RUEGAI	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24	24
TOTAL	1247	1248	1248	1243	1229	1227	1230	1249	1249	1250	1256	1262	1275	1275	1276	1278	1284	1287	1294	1297	1327	1337	1343	1335	1329	1330	1330	1331	1327	1322	1329	1314	1321	1326	1317	1311	1306	1297		
UNMEAS	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1280	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	
TOTAL IN	2529	2528	2528	2523	2507	2507	2510	2529	2529	2530	2536	2542	2555	2555	2556	2558	2574	2577	2584	2587	2617	2627	2643	2635	2629	2630	2630	2631	2627	2622	2629	2614	2621	2626	2617	2611	2606	2597		
MONTH	TOTAL JULY 79,307																																							

DAILY SUMMARY OF DATA AT AND BETWEEN SHELLEY

SHELLEY			DIV. SHELLEY-BLACKFOOT			SHELLEY BLACKFOOT LOSS STORED	DATE	THEORETICAL BALANCE STORED AT BLACKFOOT	BLACKFOOT RIVER	24 HOUR SECOND FEET EXCEPT AS NOTED			DATE	AM. FALLS RESERVOIR		NEELEY	
DATE	JACKSON LAK. CONTENTS	TOTAL	STOR.	NORM.	TOTAL					CLOUGH	CALCULATED INFLOW CLOUGH TO NEELEY	STOR.		NORM.	TOTAL	Contents	Ac. Ft.
MAY 9	89 9428	8940	0	3581	3581	0	MAY 12	0	30	0	5840	5840	2725	MAY 11	1 703 920	0	10100
10	69 9394	8380	0	3613	3613	-15	13	-233	37	-233	6003	5770	2723	14	1 678 320	1474	8726
11	70 9713	7260	0	3591	3591	-81	14	-1273	49	-1273	6023	4750	2703	15	1 689 710	1874	8726
12	71 9303	6600	0	3529	3529	-147	15	-2306	50	-2306	6036	3730	2690	16	1 679 260	1874	8726
13	72 9340	6400	0	3474	3474	-162	16	-2541	24	-2541	6041	3500	2685	17	1 670 320	2074	8726
14	73 9178	7100	0	3621	3621	-176	17	-2764	21	-2764	6044	3280	2682	18	1 661 470	2074	8726
15	73 9179	8450	0	3611	3611	-125	18	-1953	22	-1953	6053	4100	2673	19	1 646 550	2174	8726
16	75 9251	8870	0	3449	3449	-44	19	-685	23	-685	6025	5940	2665	20	1 647 650	1810	8690
17	76 9367	8940	0	3397	3397	-23	20	-358	18	-358	5928	5370	2662	21	1 639 360	1710	8590
18	77 9906	8500	0	3289	3289	-84	21	-461	22	-461	5941	5540	2649	22	1 629 960	1710	8590
19	78 10467	7700	0	3264	3264	-162	22	-1322	17	-1322	5852	4530	2648	23	1 624 990	1600	8500
20	79 10011	6700	0	3361	3361	-199	23	-2545	13	-2545	5755	3210	2645	24	1 617 250	1440	8400
21	80 8917	5610	0	3388	3388	-198	24	-3112	14	-3112	5642	2530	2652	25	1 608 010	1706	8294
22	81 7924	5090	0	3299	3299	-170	25	-3109	20	-3109	4889	1780	2652	25	1 608 010	1706	8294
23	82 6646	5090	0	3282	3282	-93	26	-2664	13	-2664	4284	1620	2648	27	1 581 380	3968	6932
24	82 5773	4450	0	3266	3266	-79	27	-1463	14	-1463	2763	1300	2644	28	1 567 250	5193	5407
25	82 5384	4520	0	3332	3332	-52	28	-1244	11	-1244	2216	972	2633	29	1 553 840	5551	4849
26	82 6189	4610	0	3381	3381	-95	29	-812	7	-812	1686	874	2625	30	1 535 740	6089	4311
27	83 7771	5360	0	3555	3555	-145	30	-1484	4	-1484	2431	947	2617	31	1 521 370	5352	5048
28	83 9560	6730	0	3703	3703	-170	JUN. 1	-2266	3	-2266	3896	1630	2603	JUN. 1	1 508 070	3801	6499
29	84 9086	9830	0	3776	3776	45	2	-2660	3	-2660	6060	3400	2590	2	1 504 930	1650	8650
30	84 10492	12100	0	3715	3715	96	3	699	3	699	5921	6620	2589	3	1 501 270	1790	8510
JUN 1	84 10315	10300	0	3625	3625	-1	4	1512	26	1512	5828	7340	2592	4	1 495 510	2080	8420
2	84 7855	7840	0	3601	3601	-1	5	-14	30	-14	4954	4940	2594	5	1 486 080	3152	7548
3	84 6686	6670	0	3545	3545	-1	6	-14	33	-14	3554	3540	2595	6	1 476 130	4551	6149
4	84 7153	7130	0	3400	3400	-1	7	-15	43	-15	3195	3180	2582	7	1 447 760	4623	5777
5	84 8144	8110	0	3592	3592	-2	8	-22	15	-22	4192	4170	2584	8	1 459 900	3424	6776
6	84 7931	7900	0	3539	3539	-2	9	-32	25	-32	4602	4570	2583	9	1 451 420	3015	7185
7	84 6595	6570	0	3051	3051	-2	10	-29	35	-29	4279	4250	2590	10	1 446 990	2841	6869
8	84 6753	6730	0	3353	3353	-1	11	-23	37	-23	3393	3370	2602	11	1 439 790	3425	5995
9	84 8145	8940	0	3360	3360	48	12	-22	51	-22	4782	4760	2602	12	1 434 650	2036	7384
10	84 8994	8980	0	3319	3319	-1	13	747	59	747	5533	6280	2600	13	1 433 110	1287	8133
11	84 7400	7370	0	3270	3270	-1	14	-13	40	-13	5003	4990	2604	14	1 427 960	1813	7607
12	84 5923	5920	0	3299	3299	0	15	-9	24	-9	3219	3210	2597	15	1 416 650	3854	5816
13	84 5098	5090	0	3481	3481	0	16	-3	16	-3	1943	1940	2599	16	1 405 340	5258	4542
14	84 5071	5060	0	3514	3514	-1	17	-8	14	-8	1648	1640	2604	17	1 394 250	5548	4252
15	84 6124	6110	0	3502	3502	-1	18	-10	37	-10	2100	2090	2611	18	1 383 660	5089	4711
16	84 6196	7970	0	2944	2944	106	19	-13	94	-13	4223	4210	2631	19	1 383 150	1946	6854
17	84 6440	9120	0	2528	2528	161	20	1668	288	1668	4842	6510	2645	20	1 384 660	713	7487
18	84 6753	9830	0	2455	2455	185	21	2519	101	2519	4941	7460	2644	21	1 388 700	615	7585
19	85 7408	10500	0	2586	2586	186	22	2892	77	2892	5088	7980	2637	22	1 392 730	795	7725
20	84 8344	10100	0	2701	2701	105	23	2906	70	2906	5204	8110	2634	23	1 391 220	1212	7838
21	84 8456	9260	0	2769	2769	48	24	1651	61	1651	5479	7130	2634	24	1 393 240	1647	8113
22	84 8590	8590	0	2766	2766	0	25	756	58	756	5544	6300	2631	25	1 386 180	2225	8175
23	84 8070	8070	0	2920	2920	0	26	0	54	0	5700	5700	2625	26	1 384 160	2375	8325
24	84 7290	7290	0	3085	3085	0	27	0	50	0	4920	4920	2613	27	1 376 090	3367	7533
25	84 6500	6500	0	3205	3205	0	28	0	20	0	3740	3740	2617	28	1 368 530	4343	6357
26	84 5393	5390	0	3358	3358	0	29	0	10	0	2610	2610	2622	29	1 357 430	4968	5232
								-3	2	-3	1353	1350	2621	30	1 344 020	6426	3974

LAKE RIVER GAGING STATIONS 1939

DATE	LAKE WALCOTT		MINIDOKA CANALS				HOWELLS			DATE	MILNER LAKE	GOODING			NORTH	
	TOTAL	Contents Ac Ft	NORTH	SOUTH	TOTAL	STOR.	NORM.	STOR.	NORM.		TOTAL	GAGE	STOR.	NORM.	TOTAL	GOODING
MAY 1	10100	95910	1510	1130	2640	0	2640	0	2470	7470	MAY 14	10.87	0	1280	1280	810
MAY 2	10200	95670	1560	1200	2760	34	2726	1630	6000	7630	15	10.85	1250	0	1250	810
MAY 3	10600	95910	1610	1270	2880	154	2726	1800	6000	7800	16	10.74	1220	0	1220	820
MAY 4	10600	94950	1620	1270	2890	164	2726	1710	6000	7710	17	10.84	1230	0	1230	820
MAY 5	10800	95670	1620	1220	2840	114	2726	1900	6000	7900	18	10.93	1230	0	1230	830
MAY 6	10800	95670	1620	1240	2860	134	2726	2150	6000	8150	19	10.72	1210	0	1210	830
MAY 7	10900	94250	1580	1230	2810	84	2726	2010	6000	8010	20	11.03	1200	0	1200	840
MAY 8	10500	96150	1510	1180	2690	0	2690	1960	6000	7960	21	11.02	1200	0	1200	830
MAY 9	10300	95670	1510	1080	2590	0	2590	1610	6000	7610	22	10.64	1190	0	1190	820
MAY 10	10300	95430	1500	1090	2590	0	2590	1740	6000	7740	23	10.62	1190	0	1190	820
MAY 11	10100	95910	1400	1100	2500	0	2500	1900	6000	7900	24	10.61	1190	0	1190	820
MAY 12	9840	95310	1340	1060	2400	0	2400	2060	6000	8060	25	10.77	1170	0	1170	820
MAY 13	10000	94490	1330	1060	2390	96	2294	1980	6000	7980	26	10.82	1160	0	1160	830
MAY 14	10700	94020	1360	1110	2470	744	1726	2347	5823	8170	27	10.92	1170	0	1170	830
MAY 15	10900	94250	1440	1180	2620	894	1726	2854	5206	8060	28	11.00	1170	0	1170	830
MAY 16	10600	94950	1450	1210	2660	934	1726	4059	3681	7740	29	10.99	1170	0	1170	830
MAY 17	10400	95180	1490	1230	2720	1271	1449	4150	3400	7550	30	10.67	1160	0	1160	820
MAY 18	10400	94020	1500	1250	2750	1839	911	4340	3400	7740	31	10.73	1160	0	1160	820
MAY 19	10400	94250	1500	1250	2750	1102	1648	4450	3400	7850	JUN 1	10.72	1160	0	1160	820
MAY 20	10300	93550	1500	1180	2680	954	1726	3157	4773	7930	2	11.00	1170	0	1170	820
MAY 21	10300	94370	1500	1150	2650	0	2650	1820	6000	7820	3	11.02	1160	0	1160	820
MAY 22	10300	94250	1470	1040	2510	0	2510	1660	6000	7660	4	10.83	1160	0	1160	810
MAY 23	10500	93550	1420	1000	2420	0	2420	1690	6000	7690	5	10.74	1160	0	1160	810
MAY 24	10700	94250	1400	1050	2450	724	1726	1998	5822	7820	6	10.84	1160	0	1160	810
MAY 25	10700	95670	1390	1060	2450	724	1726	3347	4423	7770	7	10.92	1160	0	1160	810
MAY 26	10400	97110	1340	998	2338	612	1726	3659	4051	7710	8	10.94	1160	0	1160	810
MAY 27	10200	97110	1310	949	2259	533	1726	2610	5050	7660	9	10.80	1160	0	1160	800
MAY 28	10200	97350	1280	878	2158	432	1726	2361	5459	7820	10	10.94	1160	0	1160	810
MAY 29	9710	98560	1220	801	2021	295	1726	2437	5143	7580	11	10.84	1160	0	1160	810
MAY 30	9420	98080	1190	821	2011	285	1726	3281	4269	7550	12	10.81	1160	0	1160	810
MAY 31	9420	97590	1190	869	2059	333	1726	1972	5658	7630	13	10.86	1160	0	1160	800
JUN 1	9420	97110	1220	913	2133	0	2133	1520	6000	7520	14	10.85	1160	0	1160	800
JUN 2	9420	96630	1310	925	2235	509	1726	1539	5881	7420	15	10.56	1150	0	1160	810
JUN 3	9670	95180	1330	955	2285	559	1726	3430	4090	7520	16	10.62	1160	0	1150	800
JUN 4	9800	95180	1270	884	2154	1012	1142	4150	3400	7550	17	10.44	1160	0	1160	810
JUN 5	9800	95070	1090	752	1842	990	852	4310	3400	7710	18	10.82	1160	0	1160	820
JUN 6	9800	95670	1010	603	1613	302	1311	4310	3400	7710	19	11.13	1160	0	1160	810
JUN 7	8800	98080	953	559	1512	0	1512	1748	5342	7090	20	11.00	1150	0	1150	800
JUN 8	8200	97840	905	612	1517	0	1517	830	5970	6800	21	10.84	1150	0	1150	800
JUN 9	8200	97590	960	655	1615	0	1615	910	5970	6880	22	10.75	1150	0	1150	790
JUN 10	8520	96630	1080	645	1725	0	1725	1090	6000	7090	23	10.52	1150	0	1160	800
JUN 11	9050	94720	1180	658	1838	0	1838	1440	6000	7440	24	10.66	1170	0	1170	810
JUN 12	9760	95070	1320	793	2113	0	2113	1610	6000	7610	25	10.64	1180	0	1180	820
JUN 13	10400	93550	1360	815	2175	0	2175	2060	6000	8060	26	10.97	1180	0	1180	820
JUN 14	10700	94950	1440	958	2398	73	2325	1800	6000	7800	27	11.00	1180	0	1180	820
JUN 15	10900	95910	1510	1030	2540	814	1726	1773	5807	7580	28	10.99	1170	0	1170	820
JUN 16	10700	97230	1580	1030	2610	884	1726	2919	4631	7550	29	10.97	1170	0	1170	810
JUN 17	10200	96990	1400	1100	2700	1074	1726	4074	3506	7580	30	10.80	1170	0	1170	810
JUN 18	10400	95910	1600	1170	2770	2196	574	4310	3400	7710	JUL 1	10.84	1190	0	1190	890

DATE	JACKSON LAKE Contents A-F	MORAN			TWIN LAKES STORED	MORAN TO HEISE LOSS STORED	DIVERSION MORAN TO HEISE STORED	DATE	HEISE + RILEY			DIK HEISE-SHELLEY	WEISE TO SHELLEY LOSS STORED	REXBURG	DATE	SHA STOR.		
		STOR.	NORM.	TOTAL					STOR.	NORM.	TOTAL						STOR.	NORM.
JUN 27	848 250	0	2110	2110	27	1		JUN 28	24	9969	9935	43	7163	7206	1	1150	JUN 29	-18
28	848 510	0	2500	2500	27	1		29	26	9998	10024	44	7432	7476	1	912	30	-19
29	848 000	0	3320	3320	27	1		30	26	11196	11222	188	7810	7998	1	760	JUL 1	-163
30	847 000	370	2200	3070	27	10		JUL 1	387	10840	11227	330	7834	8164	19	730	2	38
JUL 1	846 210	460	2600	3060	28	12		2	476	10756	11232	227	7940	8167	23	830	3	226
2	845 700	660	2400	3060	28	17		3	671	10554	11225	316	7900	8216	33	874	4	322
3	843 920	760	2300	3060	28	20		4	768	9947	10715	334	7752	8086	37	775	5	397
4	842 140	850	2200	3050	28	22		5	856	9744	10600	338	7659	7997	42	760	6	476
5	840 860	1225	1995	3270	28	32		6	1271	9641	10912	241	7538	7779	62	808	7	968
6	838 320	1286	2094	3380	29	33		7	1282	9734	11016	267	7534	7801	63	1090	8	952
7	835 770	961	2029	2990	29	25		8	965	9031	9996	441	7221	7662	47	1020	9	477
8	833 230	1232	1978	3210	29	31		9	1230	8791	10021	499	7176	7675	60	896	10	671
9	829 920	1681	1709	3390	30	43		10	1668	8458	10126	624	7098	7722	81	802	11	963
10	827 120	1769	1541	3310	31	45	3	11	1752	8273	10025	1226	6842	8068	86	730	12	440
11	824 580	2180	1450	3630	31	55	3	12	2153	7753	9906	1733	6331	8064	105	660	13	315
12	820 010	3200	1440	4640	33	81	3	13	3149	7768	10917	1714	6439	8153	154	605	14	1281
13	813 690	3710	1430	5140	33	94	3	14	3646	7568	11214	1923	6524	8447	178	620	15	1545
14	806 870	3790	1430	5220	33	96	3	15	3724	7388	11112	1818	6588	8406	182	630	16	1724
15	799 800	4150	1430	5580	34	105	3	16	4076	7242	11319	1938	6470	8408	199	620	17	1939
16	792 000	4280	1420	5700	35	108	3	17	4204	6926	11130	1878	6515	8393	205	650	18	2121
17	782 970	4430	1420	5850	36	111	3	18	4352	6680	11032	2042	6327	8369	213	670	19	2097
18	774 700	4780	1410	6190	36	120	3	19	4493	6329	11032	2035	6412	8447	229	665	20	2429
19	763 960	5440	1410	6850	37	137	3	20	5337	6097	11434	1961	6331	8292	260	615	21	3116
20	752 760	4391	1399	5790	37	111	10	21	4307	6426	10733	2269	6044	8313	210	566	22	1828
21	744 550	3990	1310	5300	37	101	10	22	4916	6056	9972	1773	5709	7482	191	558	23	1952
22	736 400	4390	1300	5690	38	111	10	23	4307	5634	9941	1711	5649	7360	210	562	24	2386
23	726 750	5560	1290	6850	38	140	10	24	5448	5485	10933	2085	5456	7541	266	566	25	3097
24	715 420	5600	1290	6890	39	141	10	25	5488	5442	10930	2828	5189	8017	267	566	26	2393
25	704 370	5565	1285	6850	39	140	10	26	5454	5477	10931	3084	4989	8023	266	566	27	2104
26	693 350	5510	1280	6790	38	139	10	27	5399	5531	10930	3245	4930	8175	263	566	28	1891
27	682 370	5330	1270	6600	38	134	10	28	5224	5607	10831	3065	5157	8222	255	553	29	1904
28	672 620	5095	1265	6360	37	128	10	29	4994	5537	10531	2908	5280	8188	244	548	30	1842
29	662 930	4987	1273	6260	37	125	10	30	4889	5642	10531	2790	5281	8071	238	576	31	1861
30	653 250	4381	1809	6190	37	110	10	31	4298	6632	10930	2607	5339	7946	210	680	AUG 1	1481
31	644 560	4002	1738	5740	37	101	10	AUG 1	3928	6596	10524	1856	5975	7831	192	868	2	1880
AUG 1	636 620	2304	1566	3870	37	58	10	2	2273	6893	9166	1310	5845	7155	111	945	3	852
2	632 050	2333	847	3200	37	59	10	3	2301	5555	7856	1418	5661	7079	112	857	4	771
3	627 480	2424	866	3290	37	61	10	4	2390	5216	7606	1855	5228	7083	116	786	5	419
4	622 200	3414	866	4280	36	86	10	5	3354	4623	7977	2093	4968	7061	163	786	6	1098
5	614 320	5164	866	6030	36	130	10	6	5060	4611	9671	1930	5005	6935	247	796	7	2883
6	603 810	5514	866	6380	34	139	10	7	5399	4624	10023	2451	4969	7420	263	818	8	2685
7	593 350	5094	866	5960	34	128	10	8	4990	4813	9803	2412	4992	7404	243	802	9	2335
8	584 340	4254	866	5120	34	107	10	9	4171	4882	9053	2293	4864	7157	204	846	10	1674
9	576 280	3834	866	4700	33	97	10	10	3760	4903	8663	2222	4983	7265	184	862	11	1354
10	568 500	3454	866	4320	33	87	10	11	3390	4811	8201	2016	5080	7096	165	918	12	1209
11	561 670	3600	850	4450	31	91	10	12	3530	4540	8070	1740	5110	6850	172	918	13	1618
12	554 370	3880	840	4720	31	98	10	13	3803	4517	8320	1965	5010	6975	186	901	14	1652
13	546 870	3830	830	4660	30	96	10	14	3754	4456	8210	2020	4899	6919	183	874	15	1551
14	539 150	3790	830	4620	30	95	10	15	3715	4418	8133	1726	4824	6550	181	813	16	1808

SNAKE RIVER GAGING STATIONS

193

AS NOTED

DATE	JACKSON LAKE Contents Ac.Ft.	S W -FT.	NEELEY			LAKE WALCOTT Contents Ac.Ft.	MINIDOKA CANALS			HOWELLS			DATE	MILNER LAKE GAGE	GO STOR.		
			STOR.	NORM.	TOTAL		NORTH	SOUTH	TOTAL	STOR.	NORM.	TOTAL					
JUN 27	848250	160	7186	3414	10600	95430	1600	1220	2820	2806	14	4450	3466	7916	JUL 2	10.70	1260
28	848510	820	7502	3298	10800	94840	1610	1210	2820	2820	0	4462	3298	7760	3	10.74	1260
29	848800	540	7409	3591	11000	94840	1610	1170	2780	2589	191	4770	3466	8170	4	10.76	1260
30	847000	490	8016	3384	11400	94370	1600	1050	2650	2650	0	4976	3384	8360	5	10.76	1260
JUL 1	846210	350	8210	3190	11400	95910	1520	1040	2560	2560	0	5010	3190	8200	6	11.07	1270
2	845700	750	7561	3139	10700	96630	1440	860	2300	2300	0	4871	3139	8010	7	11.04	1290
3	843920	760	7550	2950	10500	97720	1440	807	2247	2247	0	4930	2950	7880	8	11.04	1290
4	842140	290	6977	3123	10100	97840	1440	815	2255	2255	0	4777	3123	7900	9	10.80	1280
5	840860	300	6933	3167	10100	97590	1440	916	2356	2356	0	4843	3167	8010	10	10.85	1290
6	838320	400	7704	2796	10500	96510	1500	1060	2560	2560	0	5264	2796	8060	11	10.82	1280
7	835770	800	8180	2920	11100	96390	1580	1180	2760	2760	0	5330	2920	8250	12	10.72	1290
8	833230	260	8620	2680	11300	95910	1610	1240	2850	2850	0	5740	2680	8420	13	10.84	1290
9	829920	280	8521	2679	11200	96150	1600	1240	2840	2840	0	5571	2679	8250	14	10.84	1290
10	827120	760	8521	2679	11200	95910	1600	1240	2840	2840	0	5601	2679	8280	15	10.84	1310
11	824580	700	8426	2674	11100	95670	1540	1190	2730	2730	0	5606	2674	8280	16	10.75	1310
12	820010	990	8440	2660	11100	94950	1500	1130	2630	2630	0	5700	2660	8360	17	10.84	1310
13	813690	660	8438	2662	11100	95430	1500	1190	2690	2690	0	5588	2662	8250	18	10.84	1310
14	806870	680	8429	2671	11100	95670	1500	1260	2760	2760	0	5479	2671	8150	19	10.78	1300
15	799800	790	8705	2695	11400	95180	1560	1240	2800	2800	0	5475	2695	8170	20	10.54	1290
16	792000	570	9007	2693	11700	93900	1600	1250	2850	2850	0	6027	2693	8720	21	10.75	1300
17	782970	300	8907	2693	11600	95550	1610	1250	2860	2860	0	5777	2693	8470	22	10.82	1290
18	774700	420	8898	2702	11600	95670	1610	1210	2820	2820	0	5658	2702	8360	23	10.82	1290
19	763960	400	8900	2700	11600	95790	1610	1070	2680	2680	0	5690	2700	8390	24	10.76	1290
20	752760	180	8794	2706	11500	96390	1610	1130	2740	2740	0	5714	2706	8420	25	10.90	1290
21	744550	580	8794	2706	11500	97110	1610	1190	2800	2800	0	5604	2706	8310	26	10.94	1290
22	736400	720	8793	2707	11500	97350	1600	1170	2770	2770	0	5653	2707	8360	27	11.00	1330
23	726750	670	8791	2709	11500	97470	1600	1240	2840	2840	0	5711	2709	8420	28	11.02	1350
24	715420	490	8676	2724	11400	97110	1600	1220	2820	2820	0	5586	2724	8310	29	10.95	1320
25	704370	440	8373	2727	11100	97350	1560	1090	2650	2650	0	5473	2727	8200	30	10.84	1350
26	693350	100	7866	2734	10600	97590	1470	980	2450	2450	0	5436	2734	8170	31	10.76	1350
27	682370	940	7663	2737	10400	96510	1430	989	2419	2419	0	5543	2737	8280	Aug 1	10.78	1360
28	672620	710	7638	2762	10400	95790	1320	983	2303	2303	0	5578	2762	8360	2	10.81	1360
29	662930	510	7713	2787	10500	94950	1270	1010	2280	2280	0	5573	2787	8360	3	10.83	1360
30	653250	940	7307	3293	10600	94720	1300	931	2231	2231	0	5017	3293	8310	4	10.79	1360
31	644560	320	7515	3185	10700	94720	1330	916	2246	2246	0	5045	3185	8230	5	10.74	1320
AUG 1	636620	610	7724	3076	10800	94720	1360	928	2288	2288	0	5074	3076	8150	6	10.54	1190
2	632050	820	8020	2780	10800	93790	1360	949	2309	2309	0	5560	2780	8390	7	10.74	1200
3	627480	320	8118	2782	10900	94490	1350	1060	2410	2410	0	5468	2782	8250	8	10.74	1200
4	622200	810	8422	2778	11200	93900	1300	1120	2420	2420	0	5532	2778	8310	9	10.79	1200
5	614320	520	8527	2773	11300	94490	1310	1150	2460	2460	0	5667	2773	8440	10	10.82	1200
6	603810	120	8520	2780	11300	94720	1330	1230	2560	2560	0	5610	2780	8390	11	10.95	1200
7	593350	670	8434	2766	11200	94600	1420	1240	2660	2660	0	5514	2766	8280	12	11.02	1190
8	584340	590	8328	2772	11100	94720	1520	1250	2770	2770	0	5458	2772	8230	13	10.90	1190
9	576280	530	8323	2777	11100	94720	1540	1250	2790	2790	0	5313	2777	8090	14	10.78	1190
10	568500	010	8333	2767	11100	94840	1540	1240	2780	2780	0	5273	2767	8040	15	10.75	1210
11	561670	730	8239	2761	11000	94490	1540	1240	2780	2780	0	5299	2761	8060	16	10.60	1210
12	554370	550	8344	2756	11100	94490	1540	1250	2790	2790	0	5304	2756	8060	17	10.60	1230
13	546870	150	8553	2747	11300	94020	1540	1260	2800	2800	0	5483	2747	8230	18	10.58	1230
14	539150	540	8558	2742	11300	93670	1540	1260	2800	2800	0	5568	2742	8310	19	10.68	1230

DATE	JACKSON LAKE Contents Acft	S. V. Acft	LOADING		NORTH SIDE CANAL CO.				TWIN FALLS CAN. CO.				MILNER LOW LIFT		SNAKE R. AT MILNER				
			NORM.	TOTAL	GOODING	P.A.	MAIN	TOTAL	STOR.	NORM.	STOR.	NORM.	TOTAL	STOR.	NORM.	TOTAL	STOR.	NORM.	TOTAL
			0	1200	930	60	2420	3410											
	848250	160	0	1210	930	60	2420	3410	3010	400	460	3000	3460	160	0	160	7	0	7
	848510	820	0	1230	940	60	2490	3480	3092	388	560	2910	3470	159	0	159	6	0	6
	848880	540	0	1270	950	60	2500	3500	3100	400	470	3000	3470	160	0	160	6	0	6
	847000	490	0	1290	940	60	2490	3500	3102	398	484	2986	3470	161	0	161	18	0	18
	846210	350	0	1290	940	60	2490	3490	3114	376	696	2814	3460	161	0	161	15	0	15
	845700	750	0	1280	940	60	2490	3490	3131	359	680	2780	3460	162	0	162	13	0	13
	843920	760	0	1290	950	60	2440	3440	3093	347	847	2663	3450	161	0	161	8	0	8
	842140	290	0	1280	950	60	2430	3440	3073	367	704	2756	3460	162	0	162	7	0	7
	840860	300	0	1290	950	60	2420	3430	3058	372	655	2795	3450	160	0	160	7	0	7
	838320	400	0	1290	940	59	2460	3469	3140	329	1013	2467	3480	162	0	162	7	0	7
	835770	800	0	1290	950	59	2550	3549	3205	344	904	2576	3480	162	0	162	7	0	7
	833230	260	0	1300	940	59	2540	3559	3244	315	1115	2365	3480	123	0	123	9	0	9
	829920	280	0	1310	940	59	2510	3539	3224	315	1116	2364	3480	151	0	151	8	0	8
	827120	760	0	1310	940	59	2530	3529	3194	315	1126	2364	3490	160	0	160	8	0	8
	824580	700	0	1310	950	59	2580	3589	3215	314	1130	2360	3490	124	0	124	7	0	7
	820010	990	0	1310	950	59	2560	3569	3276	313	1163	2347	3510	157	0	157	7	0	7
	813690	660	0	1300	950	59	2550	3559	3256	313	1151	2349	3500	165	0	165	7	0	7
	806870	680	0	1290	950	59	2580	3589	3245	314	1133	2357	3490	164	0	164	8	0	8
	799800	790	0	1300	950	59	2580	3589	3272	317	1112	2378	3490	164	0	164	8	0	8
	792000	570	0	1290	950	59	2610	3619	3302	317	1124	2376	3500	164	0	164	9	0	9
	782970	300	0	1290	950	59	2560	3569	3252	317	1124	2376	3500	164	0	164	9	0	9
	774700	420	0	1290	950	59	2550	3559	3241	318	1116	2384	3500	164	0	164	9	0	9
	763960	400	0	1290	940	59	2540	3539	3221	318	1148	2382	3530	164	0	164	9	0	9
	752760	180	0	1290	950	59	2540	3549	3231	318	1162	2388	3550	164	0	164	9	0	9
	744550	580	0	1290	950	59	2540	3549	3231	318	1162	2388	3550	164	0	164	9	0	9
	736400	720	0	1330	950	59	2540	3549	3231	318	1121	2389	3510	165	0	165	11	0	11
	726750	670	0	1350	940	59	2580	3579	3260	319	1140	2390	3530	164	0	164	15	0	15
	715420	490	0	1350	940	59	2620	3619	3299	320	1146	2404	3550	162	0	162	11	0	11
	704370	440	0	1350	940	59	2580	3579	3258	321	1144	2406	3550	162	0	162	10	0	10
	693350	100	0	1350	930	59	2570	3559	3238	321	1137	2413	3550	162	0	162	9	0	9
	682370	940	0	1360	940	59	2590	3589	3267	322	1145	2415	3560	163	0	163	9	0	9
	672620	710	0	1360	950	59	2590	3599	3274	325	1123	2437	3560	162	0	162	9	0	9
	662930	510	0	1360	950	59	2580	3589	3261	328	1101	2459	3560	163	0	163	9	0	9
	653250	940	0	1360	950	59	2570	3579	3192	387	664	2906	3570	163	0	163	9	0	9
	644560	320	0	1320	950	59	2570	3579	3202	377	772	2808	3580	164	0	164	9	0	9
	636620	610	0	1190	940	59	2510	3509	3147	362	876	2714	3590	163	0	163	9	0	9
	632050	820	0	1200	950	59	2490	3499	3172	327	1137	2453	3590	162	0	162	8	0	8
	627480	320	0	1200	950	60	2520	3530	3203	327	1135	2455	3590	163	0	163	8	0	8
	622200	810	0	1200	950	60	2580	3590	3264	326	1138	2452	3590	162	0	162	8	0	8
	614320	520	0	1200	950	60	2580	3590	3264	326	1153	2447	3600	166	0	166	11	0	11
	603810	120	0	1200	940	60	2540	3540	3213	327	1137	2453	3590	165	0	165	12	0	12
	593350	670	0	1200	940	60	2530	3530	3205	325	1149	2441	3590	162	0	162	13	0	13
	584340	590	0	1190	940	60	2530	3530	3204	326	1144	2446	3590	163	0	163	10	0	10
	576280	530	0	1190	940	60	2570	3570	3243	327	1140	2450	3590	165	0	165	10	0	10
	568500	010	0	1190	950	60	2580	3590	3265	325	1138	2442	3580	165	0	165	9	0	9
	561670	730	0	1210	950	60	2560	3570	3245	325	1154	2436	3590	165	0	165	8	0	8
	554370	550	0	1210	940	60	2550	3550	3226	324	1158	2432	3590	165	0	165	8	0	8
	546870	150	0	1230	950	60	2560	3570	3247	323	1166	2424	3590	165	0	165	8	0	8
	539150	540	0	1230	950	60	2540	3550	3227	323	1191	2419	3610	165	0	165	8	0	8

RIVER GAGING STATIONS 1939

E NO. 13

AKE PLCOTT		MINIDOKA CANALS						HOWELLS			GOODING			NORTH SIDE			SNARE R. AT MILNER				
DATE	Cor	NORTH	SOUTH	TOTAL	STOR.	NORM.	STOR.	NORM.	TOTAL	DATE	MILNER LAKE GAGE	STOR.	NORM.	TOTAL	GOODING	P.A.	MAIN	STOR.	NORM.	TOTAL	
16	94020	1540	1260	2800	2800	0	5454	2744	8200	10.74	1230	0	1230	940	60	2520					
17	94490	1540	1260	2800	2800	0	5426	2744	8170	10.72	1230	0	1230	940	60	2520					
18	93900	1540	1260	2800	2800	0	5537	2743	8280	10.80	1240	0	1240	940	60	2520					
19	94250	1540	1270	2810	2810	0	5547	2733	8280	10.90	1230	0	1230	940	60	2520					
20	94950	1510	1270	2780	2780	0	5477	2723	8200	10.86	1230	0	1230	940	60	2490					
21	95070	1480	1250	2730	2730	0	5371	2719	8090	10.84	1230	0	1230	940	60	2480					
22	94490	1480	1240	2720	2720	0	5321	2719	8040	10.88	1230	0	1230	940	60	2510					
23	94720	1410	1180	2590	2590	0	5285	2725	8010	10.91	1230	0	1230	950	59	2490					
24	94600	1310	1140	2450	2450	0	5280	2730	8010	10.93	1220	0	1220	950	59	2440					
25	94600	1310	1180	2490	2490	0	5249	2731	7980	10.98	1220	0	1220	940	59	2440					
26	95180	1310	1180	2490	2490	0	5083	2737	7820	10.92	1080	0	1080	950	59	2180					
27	95310	1310	1180	2490	2490	0	4426	2744	7170	10.93	880	0	880	930	59	1680					
28	95310	1250	1160	2410	2410	0	3841	2737	6580	10.93	880	0	880	930	59	1770					
29	94600	1150	1110	2260	2260	0	3843	2737	6580	10.90	950	0	950	750	59	1860					
30	93320	1120	1020	2140	2140	0	3983	2737	6720	10.72	1000	0	1000	620	59	1830					
31	95310	1120	973	2093	2093	0	3787	2743	6530	10.84	1000	0	1000	630	59	1820					
1	95180	1130	973	2103	1997	106	3680	2640	6320	10.83	1000	0	1000	630	59	1790					
2	94840	1120	1050	2170	2170	0	2925	2755	5680	10.88	990	0	990	630	59	1770					
3	93550	1120	1070	2190	2190	0	3947	2743	6690	10.78	970	0	970	630	59	1770					
4	94370	1150	1070	2220	2220	0	3705	2745	6450	10.92	970	0	970	630	59	1730					
5	94370	1150	1020	2170	2170	0	3473	2747	6240	10.88	960	0	960	630	59	1730					
6	94370	1150	1020	2170	2170	0	3705	2745	6450	10.84	940	0	940	630	59	1710					
7	93790	1120	922	2042	2042	0	3387	2803	6190	10.77	940	0	940	630	59	1720					
8	93790	1120	916	2036	2036	0	3383	2807	6190	10.77	940	0	940	630	59	1730					
9	93200	1110	934	2044	2044	0	3391	2799	6190	10.84	940	0	940	630	59	1740					
10	93440	1030	901	1931	1931	0	3217	2793	6010	10.82	940	0	940	630	60	1700					
11	93440	890	678	1568	1568	0	2957	2803	5760	10.88	930	0	930	630	60	1630					
12	94370	749	519	1268	0	1268	2841	2479	5320	11.03	910	0	910	620	60	1610					
13	95070	749	424	1173	160	1013	2090	2760	4850	10.99	910	0	910	620	60	1560					
14	95180	749	385	1134	40	1094	2400	2660	5060	10.94	900	0	900	620	60	1550					
15	94600	747	350	1097	0	1097	2171	2679	4850	10.84	890	0	890	620	60	1470					
16	93550	747	365	1112	0	1112	1865	2615	4420	10.84	890	0	890	610	60	1380					
17	93200	745	501	1246	6	1240	2020	2340	4380	10.67	880	0	880	610	15	1350					
18	92620	743	533	1276	135	1141	2140	2370	4510	10.48	860	0	860	600	0	1300					
19	91810	741	547	1288	825	463	2330	2360	4690	10.36	870	0	870	600	0	1280					
20	90990	738	581	1319	884	435	2430	2370	4800	10.32	870	0	870	600	0	1260					
21	90290	736	591	1327	900	427	2390	2370	4760	10.30	890	0	890	390	0	364					
22	88200	730	581	1311	757	554	1220	2250	3470	10.32	900	0	900	290	0	0					
23	87270	728	579	1307	708	599	1020	2200	3220	10.45	900	0	900	290	0	0					
24	86330	760	567	1327	687	640	1040	2160	3200	10.44	900	0	900	290	0	0					
25	84940	783	569	1352	573	779	1080	2160	3240	10.35	890	0	890	290	0	0					
26	82860	795	645	1440	703	737	990	2270	3260	10.28	890	0	890	290	0	0					
27	80490	815	635	1450	720	730	800	2210	3010	10.50	680	0	680	440	0	0					
28	76770	766	610	1376	621	755	520	2180	2700	10.66	0	0	0	240	0	0					
29																					
30																					
TOTAL				218228			524598							159640							8678

ATIONS

1939

PLATE NO. 13

DOWELLS		DATE	MILNER LAKE GAGE	GOODING			NORTH SIDE CANAL CO.						MILNER LOW LIFT			SNAKE R. AT MILNER						
NORM.	TOTAL			STOR.	NORM.	TOTAL	GOODING	P.A.	MAIN	TOTAL	STOR.	NORM.	STOR.	NORM.	TOTAL	STOR.	NORM.	TOTAL				
2746	8200	AUG 20	10.74	1230	0	1230	940	60	2520	3520	3197	323	1187	2423	3610	145	0	145	8	0	8	
2744	8170	21	10.72	1230	0	1230	940	60	2520	3520	3197	323	1199	2421	3620	164	0	164	8	0	8	
2743	8280	22	10.80	1240	0	1240	940	60	2550	3550	3227	323	1200	2420	3620	164	0	164	8	0	8	
2733	8280	23	10.90	1230	0	1230	940	60	2520	3520	3199	321	1208	2412	3620	164	0	164	9	0	9	
2723	8200	24	10.86	1230	0	1230	940	60	2520	3520	3170	320	1207	2403	3610	164	0	164	9	0	9	
2719	8090	25	10.84	1230	0	1230	940	60	2490	3490	3170	320	1191	2399	3590	164	0	164	8	0	8	
2719	8040	26	10.88	1230	0	1230	940	60	2480	3480	3160	320	1191	2399	3590	164	0	164	11	0	11	
2725	8010	27	10.91	1230	0	1230	950	59	2530	3539	3219	320	1185	2405	3590	164	0	164	9	0	9	
2730	8010	28	10.93	1220	0	1220	950	59	2490	3499	3178	321	1181	2409	3590	164	0	164	9	0	9	
2731	7980	29	10.98	1220	0	1220	940	59	2440	3439	3118	321	1180	2410	3590	164	0	164	9	0	9	
2737	7820	30	10.92	1080	0	1080	950	59	2180	3189	2867	322	1155	2415	3570	152	0	152	9	0	9	
2744	7170	31	10.93	880	0	880	930	59	1680	2669	2346	323	1109	2421	3530	123	0	123	9	0	9	
2739	6580	SEP 1	10.90	950	0	950	750	59	1770	2579	2257	322	1083	2417	3500	123	0	123	9	0	9	
2737	6580	2	10.72	1000	0	1000	620	59	1860	2539	2217	322	1065	2415	3480	123	0	123	10	0	10	
2737	6720	3	10.84	1000	0	1000	630	59	1830	2519	2197	322	1085	2415	3500	123	0	123	9	0	9	
2743	6530	4	10.83	1000	0	1000	630	59	1820	2509	2186	323	1060	2420	3480	123	0	123	9	0	9	
2640	6320	5	10.88	990	0	990	630	59	1790	2479	2079	400	0	2240	2240	123	0	123	9	0	9	
2755	5680	6	10.78	970	0	970	630	59	1770	2459	2135	324	639	2431	3070	123	0	123	9	0	9	
2743	6690	7	10.92	970	0	970	630	59	1770	2459	2136	323	920	2420	3340	123	0	123	9	0	9	
2745	6450	8	10.88	960	0	960	630	59	1730	2419	2096	323	828	2422	3250	123	0	123	9	0	9	
2767	6240	9	10.84	940	0	940	630	59	1710	2399	2074	325	918	2442	3260	123	0	123	9	0	9	
2803	6190	10	10.77	940	0	940	630	59	1720	2409	2079	330	847	2473	3320	123	0	123	9	0	9	
2807	6190	11	10.74	940	0	940	630	59	1730	2419	2089	330	843	2477	3320	123	0	123	9	0	9	
2799	6190	12	10.82	940	0	940	630	59	1740	2429	2100	329	560	2470	3030	123	0	123	11	0	11	
2793	6010	13	10.84	940	0	940	630	60	1700	2390	2061	329	316	2464	2780	123	0	123	244	0	244	
2803	5760	14	10.88	930	0	930	630	60	1630	2320	1990	330	197	2473	2670	123	0	123	282	0	282	
2479	5320	15	11.03	910	0	910	620	60	1610	2290	1701	589	0	1890	1890	124	0	124	282	0	282	
2760	4850	16	10.99	910	0	910	620	60	1560	2240	1840	400	0	2360	2360	124	0	124	280	0	280	
2660	5060	17	10.94	900	0	900	620	60	1550	2230	1830	400	0	2260	2260	124	0	124	280	0	280	
2679	4850	18	10.84	890	0	890	620	60	1470	2150	1471	679	0	2000	2000	124	0	124	280	0	280	
2615	4420	19	10.67	890	0	890	610	60	1380	2050	1395	655	0	1960	1960	124	0	124	280	0	280	
2360	4380	20	10.48	880	0	880	610	15	1350	1975	1575	400	0	1960	1960	123	0	123	293	0	293	
2370	4510	21	10.36	860	0	860	600	0	1300	1900	1500	400	0	1970	1970	123	0	123	324	0	324	
2360	4690	22	10.32	890	0	890	600	0	1280	1880	1480	400	0	1960	1960	123	0	123	324	0	324	
2370	4800	23	10.30	890	0	890	600	0	1260	1860	1460	400	0	1970	1970	123	0	123	324	0	324	
2370	4760	24	10.32	900	0	900	390	0	364	754	354	400	0	1960	1960	123	0	123	326	0	326	
2250	3470	25	10.45	900	0	900	290	0	0	290	0	290	0	1910	1910	123	0	123	326	0	326	
2200	3220	26	10.44	900	0	900	290	0	0	290	0	290	0	1870	1870	123	0	123	326	0	326	
2160	3200	27	10.35	900	0	900	290	0	0	290	0	290	0	1870	1870	123	0	123	324	0	324	
2160	3240	28	10.28	890	0	890	290	0	0	290	0	290	0	1870	1870	123	0	123	324	0	324	
2270	3260	29	10.50	680	0	680	440	0	0	440	40	400	0	1870	1870	123	0	123	324	0	324	
2210	3010	30	10.66	0	0	0	740	0	0	740	340	400	0	1810	1810	123	0	123	324	0	324	
2180	2700																					

159640

293198

59808

70519

8678

CANAL CO.

DATE	JAKE L COTT CONT'S AC FA	MINI		TOTAL	STOR.	NORM.	TWIN FALLS CAN. CO.			MILNER LOW LIFT			SNAKE R. AT MILNER		
		NORTH	SO.				STOR.	NORM.	TOTAL	STOR.	NORM.	TOTAL	STOR.	NORM.	TOTAL
AUG 15	94020	1540		3520	3197	323	1187	2423	3610	165	0	165	1	0	1
16	94490	1540		3550	3227	323	1199	2421	3620	164	0	164	1	0	1
17	93900	1540		3520	3199	321	1200	2420	3620	163	0	163	1	0	1
18	94250	1540		3490	3170	320	1208	2412	3620	164	0	164	1	0	1
19	94950	1510		3480	3160	320	1207	2403	3610	165	0	165	1	0	1
20	95070	1480		3510	3190	320	1191	2399	3590	166	0	166	1	0	1
21	94490	1480		3539	3219	320	1191	2399	3590	166	0	166	1	0	1
22	94720	1410		3499	3178	321	1185	2405	3590	166	0	166	11	0	11
23	94600	1310		3439	3118	321	1181	2409	3590	166	0	166	9	0	9
24	94600	1310		3189	2867	322	1180	2410	3590	166	0	166	9	0	9
25	95180	1310		2669	2346	322	1155	2415	3570	166	0	166	9	0	9
26	95310	1310		2579	2257	323	1109	2421	3570	166	0	166	9	0	9
27	95310	1250		2539	2217	322	1083	2417	3530	152	0	152	9	0	9
28	94600	1150		2519	2197	322	1065	2415	3500	123	0	123	9	0	9
29	93320	1120		2509	2186	323	1085	2415	3480	123	0	123	9	0	9
30	95310	1120		2479	2079	400	1060	2420	3480	123	0	123	9	0	9
31	95180	1130		2459	2135	324	0	2240	2240	123	0	123	10	0	10
SEP 1	94840	1120		2459	2136	323	639	2431	3070	123	0	123	9	0	9
2	93550	1120		2419	2096	323	920	2420	3340	123	0	123	9	0	9
3	94370	1150		2399	2074	325	828	2422	3250	123	0	123	9	0	9
4	94370	1150		2409	2079	330	918	2442	3360	123	0	123	9	0	9
5	94370	1120		2419	2089	330	847	2473	3320	123	0	123	9	0	9
6	93790	1120		2429	2100	329	843	2477	3320	123	0	123	9	0	9
7	93200	1110		2390	2061	329	560	2470	3030	123	0	123	9	0	9
8	93440	1030		2320	1990	330	314	2444	2780	123	0	123	9	0	9
9	93440	890		2290	1701	589	197	2473	2670	123	0	123	11	0	11
10	94370	749		2240	1840	400	0	1890	1890	123	0	123	244	0	244
11	95070	749		2230	1830	400	0	2360	2360	124	0	124	282	0	282
12	95180	749		2150	1471	679	0	2260	2260	124	0	124	282	0	282
13	94600	747		2050	1395	655	0	2000	2000	124	0	124	280	0	280
14	93550	747		1975	1575	400	0	1960	1960	124	0	124	280	0	280
15	93200	745		1900	1500	400	0	1960	1960	124	0	124	280	0	280
16	92620	743		1880	1480	400	0	1970	1970	123	0	123	283	0	283
17	91810	741		1860	1460	400	0	1960	1960	123	0	123	284	0	284
18	90990	738		754	354	400	0	1970	1970	123	0	123	324	0	324
19	90290	736		290	0	290	0	1960	1960	123	0	123	324	0	324
20	88200	730		290	0	290	0	1970	1970	123	0	123	324	0	324
21	87270	728		290	0	290	0	1960	1960	123	0	123	324	0	324
22	86330	760		290	0	290	0	1910	1910	123	0	123	324	0	324
23	84940	783		290	0	290	0	1870	1870	123	0	123	324	0	324
24	82860	795		400	400	400	0	1870	1870	123	0	123	324	0	324
25	80490	815		340	340	400	0	1810	1810	123	0	123	324	0	324
26	76770	766													
27															
28															
29															
30															
TOTAL				293198		87808		20519		8678					

CANAL	NO.	MAY											JUNE																
		13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9
SWAN VALLEY USERS	1																												
RILEY	2																												
PROGRESSIVE IRR. DIST.	3																												
FARMERS FRIEND	4																												
ENTERPRISE	5																												
MATTSON-CRAIG	6																												
ARNSBERGER	7																												
HARRISON	8																												
RUDY & BOOMER	9																												
BURGESS	10																												
KITE & NORD	11																												
LOWDER & JENNINGS	12																												
SUNNYDELL	13																												
LENROOT	14																												
REID	15																												
HILL-PETTINGER	16																												
DILTS	17																												
HENRYS FORK CANALS (A)	18																												
BUTTE & MARKET LAKE	19																												
OSGOOD	20																												
BEAR ISLAND	21																												
SMITH	22																												
KENNEDY	23																												
IDAHO	24																												
MARTIN	25																												
NEW SWEEDEN IRR. DIST.	26																												
WOODVILLE	27																												
SNAKE RIVER VALLEY	28																												
10% PENALTY ON STORED NORM	29																												
TOTAL HEISE TO SHELLEY	30																												
RESERVATION	31																												
BLACKFOOT	32																												
NEW LAVA SIDE	33																												
PEOPLES	34																												
ABERDEEN	35																												
CORBETT	36																												
RIVERSIDE	37																												
TREGO	38																												
10% PENALTY ON STORED NORM	39																												
TOTAL SHELLEY TO BLACKFOOT	40																												
MINIDOKA PROJECT	41	0	34	154	164	114	134	84	0	0	0	0	0	96	744	894	934	1271	1839	1102	954	0	0	0	724	724	612	533	42
MILNER LOW LIFT	42	0	150	150	150	144	150	150	150	150	150	150	150	150	150	150	150	151	151	151	151	152	152	153	153	153	153	152	15
TWIN FALLS CANAL	43	0	370	360	370	380	360	380	390	400	410	410	410	420	410	390	380	400	400	400	400	400	400	400	400	400	400	380	30
NORTH SIDE PROJECT	44	0	420	410	430	440	410	420	400	380	400	410	420	440	597	1214	2739	3020	3010	3010	3010	1637	410	390	410	598	1981	2319	13
GOODING PROJECT	45	0	1250	1220	1230	1230	1210	1200	1200	1190	1190	1190	1170	1160	1170	1170	1170	1160	1160	1160	1170	1160	1160	1160	1160	1160	1160	1160	1160
IDAHO POWER CO.	46	0		0	63	277	269	269	267	267	267	267	277	282	282	18	0												

(A) Listed here from Plate 21 under heading "stored balance Rexburg station"

PLATE NO. 14

NOTES

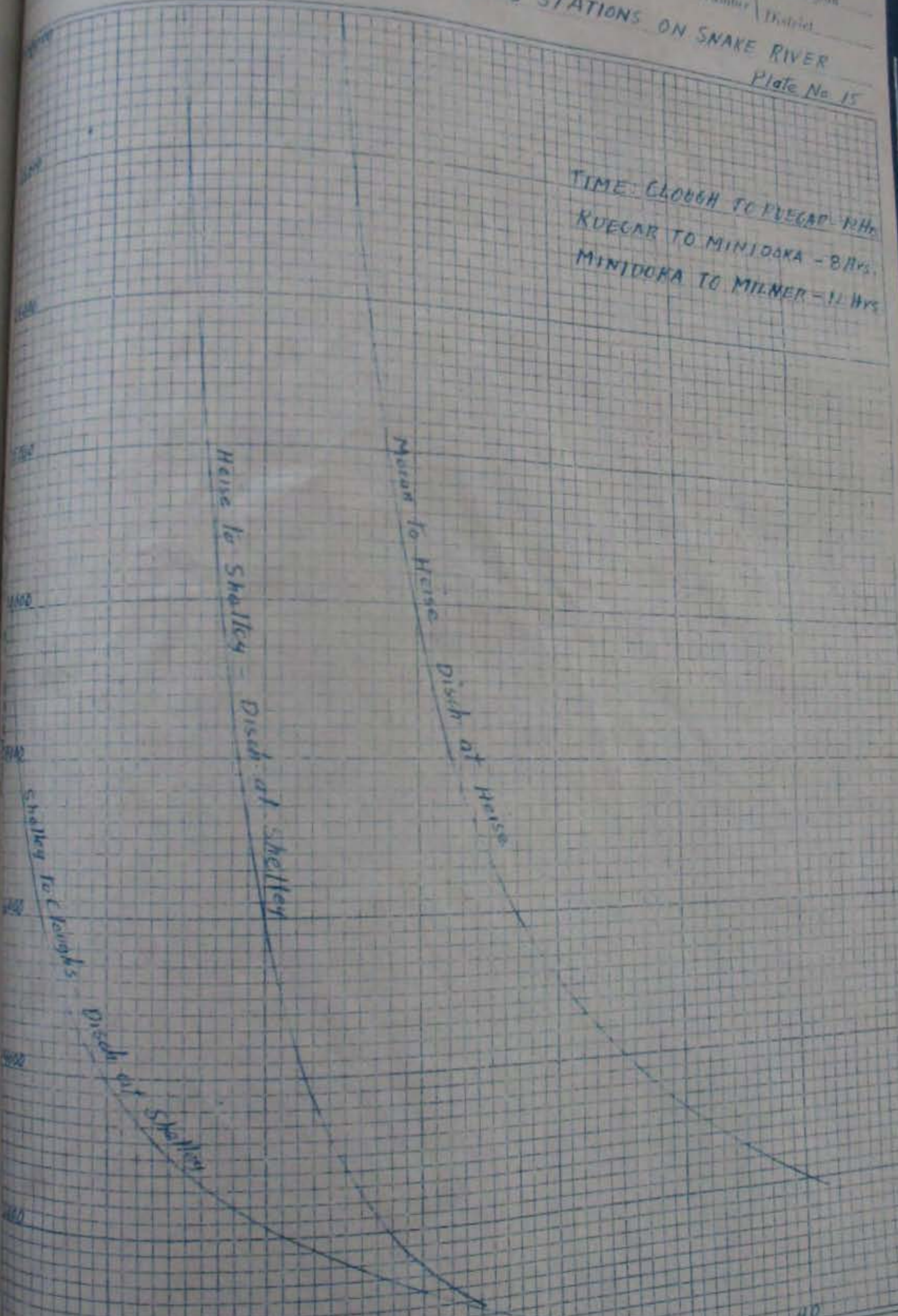
14	15	9L 175 FT.
3	3	896
14	12	263
241	236	739
35	30	000
121	119	991
		114
-3	-1	0
		409
49	49	034
145	158	117
		0
		040
84	38	000
104	98	826
		002
		57
		567
294	245	506
		386
87	87	654
3	3	330
1		120
		715
170	150	488
30	30	900
104	107	709
		000
445	457	552
-1	0	0
1923	1818	419
		0
	27	053
		714
		132
600	850	485
		868
		0
-58	-58	145
-6	-6	0
7		
536	813	397
840	2730	2505
151	160	1044
116	1126	1820
224	3194	3798
300	1310	1000
		000
		879

- ① Rented from Pool.
- ② From Enterprise Canal Co.
- ③ 7597 ac.-ft. to Progressive Dist; 900 ac.-ft to Riley; 900 ac.-ft. to Rudy; 178 ac.ft to Harrison; 49 ac.ft. from Pool.
- ④ 52 ac.-ft. from Pool; 178 from Enterprise.
- ⑤ 900 ac.-ft. from Enterprise; 103 ac.ft from Pool.
- ⑥ Sold to Pool.
- ⑦ 1384 ac.-ft. from Emma Matilda and 3243 ac.-ft. from Two Ocean Lakes.
- ⑧ Stored normal flow.
- ⑨ To Peoples Canal.
- ⑩ From Corbett Slough Canal.
- ⑪ From Blackfoot Canal
- ⑫ To New Lava Side Canal
- ⑬ 95,910 In Lake Walcott plus 53,000 share of gain Neeley to Milner

TIME INTERVAL BETWEEN GAGING STATIONS ON SNAKE RIVER

File Number _____ Washington
District _____
Plate No. 15

TIME: CLOUGH TO RUEGAR - 12 Hrs.
RUEGAR TO MINIDOKA - 8 Hrs.
MINIDOKA TO MILNER - 12 Hrs.



TIME INTERVAL IN HOURS
20 35 40

DAILY DISCHARGE IN SEC.-FT. OF HENRYS FORK CANALS FOR MAY 1939
 FALL RIVER CANALS

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		
YELLOWSTONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARRIGFELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MARYSVILLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ABOVE SQUIRREL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	36	69	77	92	116	126	143	689	
FARMERS OWN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ALMY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENTERPRISE	10	20	30	20	57	78	89	117	130	135	145	141	147	74	74	155	163	163	163	145	163	163	148	161	161	173	173	171	181	181	165	3896		
BELL	6	8	10	10	10	8	6	5	6	8	9	10	10	10	10	10	10	10	9	9	8	7	6	7	8	8	8	9	10	10	11	266		
FALL RIVER	72	122	173	260	195	196	223	218	0	0	0	0	0	0	0	0	0	0	0	0	297	432	427	422	427	432	432	462	492	507	444	6665		
McBEE	2	2	2	4	6	5	5	4	4	4	4	4	4	4	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CHESTER	1	1	1	1	1	1	1	1	1	25	96	55	79	83	87	91	89	87	86	85	85	86	86	84	84	84	84	84	82	78	76	1785		
SILKEY	3	3	3	9	15	12	9	5	7	9	10	11	14	16	18	20	20	20	20	20	22	24	26	28	30	31	31	31	31	31	31	31	560	
CURR	9	10	11	11	11	11	12	12	15	25	40	40	43	46	49	52	55	60	65	70	65	55	49	49	48	47	47	46	44	43	42	1182		
TOTAL SQUIRREL-CHESTER	103	166	230	315	295	311	345	362	163	206	304	261	297	233	241	331	340	354	354	642	801	792	771	790	806	831	831	859	846	909	825	14964		

HENRYS FORK CANALS

DEWEY	0	0	0	0	13	13	13	13	11	8	12	16	21	21	21	21	21	21	21	22	23	24	24	24	24	24	24	24	24	24	24	24	531
LAST CHANCE	46	50	53	53	53	52	52	52	63	74	75	80	80	85	85	85	85	85	85	86	88	88	90	90	90	90	90	90	91	92	92	2370	
CROSS CUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST. ANTHONY UNION	477	460	446	475	504	506	508	511	524	531	534	548	542	545	551	558	563	550	540	536	524	521	517	514	506	495	485	563	560	555	565	16224	
FARMERS FRIEND	68	114	123	116	134	116	114	112	145	171	228	228	228	228	183	0	228	228	183	228	228	228	228	228	228	227	228	228	228	228	228	5682	
TWIN GROVES	131	131	131	131	131	131	136	141	146	152	158	163	166	164	163	161	160	159	165	175	185	195	181	185	185	190	190	200	200	201	201	5108	
SALEM UNION	122	100	84	124	165	173	181	189	190	192	195	198	201	205	208	212	216	218	221	222	224	226	226	228	230	231	233	235	237	239	240	6165	
TOTAL ASHTON-ST. ANTHONY	844	855	837	899	1000	991	1000	1020	1090	1130	1202	1233	1238	1248	1211	1057	1273	1261	1215	1269	1272	1282	1266	1267	1263	1258	1249	1340	1340	1339	1350	36080	
EGIN	292	310	356	328	382	382	382	378	382	374	382	393	396	400	404	408	408	404	396	404	408	408	382	367	382	371	400	396	358	406	383	11822	
ST. ANTHONY UNION FEEDER	91	90	88	94	100	103	108	114	112	111	112	116	115	118	118	116	114	119	116	113	109	109	106	105	99	102	105	105	108	114	108	3338	
INDEPENDENT	271	302	275	306	329	319	361	366	376	357	350	376	376	385	370	388	409	385	395	380	380	368	361	357	338	315	380	419	385	400	404	11233	
CONSOLIDATED FARMERS	182	182	182	203	205	207	209	212	222	232	240	245	250	255	260	250	338	331	324	317	310	304	311	318	324	324	325	326	326	327	327	8368	
TOTAL ST. ANTHONY-REXBURG	826	884	901	931	1016	1011	1060	1070	1092	1074	1114	1130	1137	1158	1172	1162	1269	1239	1231	1214	1207	1189	1160	1147	1143	1112	1210	1246	1177	1247	1222	34761	

TETON RIVER CANALS

SIDDOWAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	17	13	13	13	13	13	13	13	174			
WILFORD	21	21	21	21	45	67	84	102	119	122	126	129	132	144	156	168	180	193	190	185	180	170	160	150	146	150	155	160	165	167	169	3998			
TETON IRRIGATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	67	72	79	84	85	86	88	80	80	75	80	84	81	1087
GOOD LUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PIONEER	3	3	3	3	4	5	4	4	3	3	20	28	28	30	33	36	39	42	42	41	41	41	40	40	40	40	40	40	40	40	40	40	808		
STEWART	4	4	4	4	10	19	18	18	17	16	15	15	14	16	18	30	30	30	30	30	30	20	20	20	20	21	21	21	21	21	21	21	578		
PINCOCK-BYINGTON	6	6	8	11	11	11	11	7	4	4	4	4	4	4	7	14	14	14	14	15	16	16	16	16	16	16	16	16	16	16	16	16	349		
PINCOCK-GARNER	8	8	8	8	8	9	10	11	12	12	13	15	18	20	22	24	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	575	
TETON ISLAND FEEDER	120	124	168	194	191	188	190	195	199	112	112	112	112	112	112	112	373	490	522	459	440	410	409	490	495	500	500	500	516	540	564	4501			
NORTH SALEM	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	412		
ROXANA	15	15	16	18	12	5	5	4	3	3	3	20	35	35	35	35	35	35	35	35	25	20	20	20	20	20	20	20	20	20	20	20	514		
ISLAND WARD	50	50	50	55	55	55	60	60	67	70	75	75	80	80	90	90	92	90	85	80	75	70	67	60	40	19	18	16	14	13	25	1826			
WOODMANSEE-JOHNSON	2	2	2	16	15	14	13	12	11	30	11	30	36	42	46	50	44	43	43	43	42	40	40	39	39	39	39	40	42	44	46	955			
CITY OF REXBURG	31	31	31	31	37	43	40	38	36	36	37	37	36	35	34	33	33	32	31	30	36	35	34	33	33	35	37	39	40	41	42	1097			
REXBURG IRRIGATION	8	8	8	8	8	145	138	130	140	150	170	170	170	220	254	260	270	260	260	250	250	246	246	247	242	236	240	260	270	286	280	5830			
McCORMICK-ROWE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SAURY-SOMMERS	10	10	9	9	8	8	7	7	6	8	9	10	10	10	10	10	14	14	14	14	14	14	14	14	15	16	25	33	25	395	0	0			
TOTAL	288	242	338	388	414	582	593	601	630	591	608	681	711	784	853	892	1112	1337	1371	1287	1293	1236	1218	1273	1249	1228	1258	1273	1336	1397	1421	28537			

DAILY DISCHARGE IN SEC. FT. OF HENRYS FORK CANALS FOR JUNE 1939
 FALL RIVER CANALS

PLATE NO. 17

NAME OF CANAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
YELLOWSTONE	0	0	0	0	0	0	0	0	7	6	1	1	4	4	4	6	7	8	6	6	1	2	1	3	4	6	5	5	5	5	47
HARRIGFELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MARYSVILLE	150	154	152	162	164	136	148	152	143	146	148	134	152	161	152	155	161	152	134	143	45	40	51	152	161	170	170	173	182	184	0
TOTAL ABOVE SQUIRREL	150	154	152	162	164	136	148	152	150	152	149	140	156	165	156	161	168	160	140	144	46	42	52	155	165	176	175	178	187	189	4332
FARMERS OWN	54	49	48	48	54	54	51	51	68	52	41	39	48	63	73	68	28	12	30	27	27	16	27	32	32	32	34	40	62	76	4429
ALMY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	4	4	4	3	3	3	3	3	0
ENTERPRISE	186	186	178	186	186	186	187	187	181	181	181	181	180	164	180	175	175	183	162	172	174	159	161	161	162	168	157	167	0	0	1336
BELL	10	8	7	7	7	8	8	8	8	8	8	7	7	7	7	7	7	7	7	6	6	6	6	6	6	3	3	3	3	3	41
FALL RIVER	437	474	416	427	432	430	427	474	487	0	0	376	432	432	452	457	452	360	269	260	260	300	350	375	400	400	403	420	437	454	4906
McBEE	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	1	1	1	1	1	203
CHESTER	89	88	84	82	77	80	84	84	86	84	94	100	92	85	77	80	83	86	89	89	88	88	86	84	80	77	74	71	68	15	11293
SILKEY	28	26	24	20	14	15	15	15	15	15	16	16	16	16	16	16	16	16	16	20	20	20	20	20	20	10	1	14	14	14	53
CURR	43	43	43	43	43	43	44	44	44	46	48	50	52	55	52	50	48	46	44	38	33	33	33	33	33	33	33	36	50	75	2449
TOTAL SQUIRREL-CHESTER	849	876	802	815	815	818	818	865	891	393	390	771	829	824	859	855	811	712	619	619	614	627	688	716	738	730	709	757	640	646	1311

HENRYS FORK CANALS

DEWEY	24	24	22	22	21	21	21	20	20	21	21	21	21	21	21	21	21	21	21	21	21	20	20	20	20	19	18	16	5	606	
LAST CHANCE	90	90	90	90	89	90	90	90	90	89	88	86	85	84	84	83	83	83	83	83	82	82	82	82	82	82	82	82	3	2481	
CROSS CUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST. ANTHONY UNION	545	511	503	494	485	485	475	472	487	483	495	506	460	414	457	456	460	470	422	426	359	231	316	348	370	343	365	453	453	497	0
FARMERS FRIEND	232	201	203	203	203	159	149	152	25	0	20	53	55	80	80	113	111	26	26	26	0	21	21	21	21	98	97	152	152	0	13281
TWIN GROVES	200	200	200	170	190	150	140	140	134	136	138	140	143	146	148	140	135	130	125	120	115	115	115	120	125	130	135	140	140	140	2700
SALEM UNION	240	220	210	210	206	204	201	199	197	200	202	205	207	209	210	211	211	160	116	116	102	130	160	195	195	195	195	195	216	238	4320
TOTAL ASHTON-ST. ANTHONY	1331	1246	1228	1209	1194	1109	1076	1073	453	929	464	1011	971	954	1000	1024	1021	890	793	792	679	600	714	836	813	868	893	1040	1054	873	5755
EGIN	382	310	304	322	286	284	274	277	290	265	244	259	284	284	275	290	297	295	220	172	158	213	234	238	242	252	252	268	326	308	29143
ST. ANTHONY UNION FEEDER	109	109	97	85	73	74	68	64	96	48	48	50	57	64	64	63	73	53	48	48	33	63	59	55	66	78	65	62	59	56	8105
INDEPENDENT	395	352	308	305	302	293	271	240	286	315	215	228	247	279	271	275	271	219	152	139	135	213	226	247	247	238	248	189	189	277	1987
CONSOLIDATED FARMERS	325	315	305	295	285	275	265	257	249	241	233	225	217	209	209	208	207	206	205	204	200	190	180	170	160	150	139	160	190	217	7592
TOTAL ST. ANTHONY-REXBURG	1211	1086	1014	1007	946	926	878	838	921	869	740	762	805	836	819	836	848	773	625	563	526	679	699	710	715	718	724	679	764	858	6641

TETON RIVER CANALS

SIDDOWAY	13	13	13	13	13	13	14	15	16	16	16	16	15	15	15	15	14	13	13	12	13	13	13	14	14	15	15	16	17	429	
WILFORD	160	160	155	150	150	146	144	142	140	140	140	140	139	130	115	100	97	90	85	80	70	60	58	60	80	100	120	136	140	150	3577
TETON IRRIGATION	78	78	78	78	82	80	82	82	81	74	75	80	80	84	84	84	80	78	71	62	61	60	60	60	69	84	73	72	72	76	2258
GOOD LUCK	40	39	39	39	38	38	38	37	37	36	36	36	36	36	35	35	33	33	31	27	27	23	19	18	18	18	17	18	19	916	
PIONEER	30	20	20	20	16	16	16	16	16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	308
STEWART	25	30	37	37	37	37	35	30	30	28	26	26	26	25	24	24	23	23	23	23	23	0	0	0	13	13	13	13	13	13	670
PINCOCK-BYINGTON	15	15	15	15	14	14	13	13	13	13	12	12	12	12	12	12	12	12	12	12	12	12	11	11	10	10	10	10	10	10	368
PINCOCK-GARNER	24	23	23	23	22	23	23	23	23	24	25	25	25	25	25	26	28	28	29	30	24	28	27	26	25	25	25	25	25	25	758
TETON ISLAND FEEDER	550	580	450	430	480	584	580	570	560	551	500	420	363	400	450	465	487	450	400	352	340	340	330	325	325	322	380	425	420	410	13079
NORTH SALEM	35	35	35	35	34	34	34	34	34	35	35	36	37	38	39	40	38	30	28	26	30	33	33	33	30	29	28	28	28	28	991
ROXANA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
ISLAND WARD	25	20	20	15	5	5	5	4	4	4	4	30	35	36	36	36	36	30	25	6	6	6	6	6	6	6	20	25	30	35	527
WOODMANSEE-JOHNSON	39	34	29	30	30	32	34	36	39	25	28	30	34	36	36	36	36	36	36	34	30	26	24	22	20	18	18	18	18	20	884
CITY OF REXBURG	38	36	34	32	31	30	31	32	36	40	42	42	43	45	50	52	55	50	40	28	30	32	34	35	36	36	36	37	38	45	1146
REXBURG IRRIGATION	240	240	238	230	220	219	220	220	220	215	210	208	210	215	217	220	223	220	205	195	200	205	208	205	202	198	195	190	185	181	6354
McCORMICK-ROWE	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	150
SAURY-SOMMERS	20	17	17	17	17	17	17	17	17	17	21	20	15	17	14	10	22	22	27	30	30	30	31	31	29	25	20	20	20	20	627
TOTAL	1337	1265	1208	1169	1114	1243	1291	1276	1293	1225	1178	1129	1079	1122	1160	1160	1186	1121	1030	929	910	882	869	859	908	928	1001	1061	1063	1079	33105

DAILY DISCHARGE IN SEC.-FT. OF HENRY'S FORK CANALS FOR JULY 1939 PLATE NO. 18

NAME OF CANAL	FALL RIVER CANALS																															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		
YELLOWSTONE	5	5	4	5	4	0	0	0	0	5	5	5	5	5	5	8	11	12	14	16	16	15	14	15	16	16	19	20	20	21	22	308	
HARRIGFELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MARYSVILLE	187	187	180	144	181	181	181	183	183	180	180	180	187	185	178	178	178	179	179	177	175	177	177	176	175	176	167	167	169	163	5490		
TOTAL ABOVE SQUIRREL	192	192	184	149	185	181	181	183	183	185	185	185	192	190	186	189	190	193	195	193	190	191	192	192	191	195	187	187	190	185	5798		
FARMERS OWN	71	64	64	64	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	70	72	72	72	72	72	72	72	75	76	72	72	2152	
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENTERPRISE	0	0	0	0	0	65	141	148	143	143	144	137	135	135	133	129	131	131	132	132	132	135	137	135	135	134	139	137	139	139	139	0	
BELL	6	6	6	6	6	6	1	3	3	3	5	6	6	5	5	5	5	5	4	4	4	5	5	5	5	4	4	5	5	5	5	7	3480
FALL RIVER	450	0	350	350	352	367	319	313	307	336	346	357	343	343	340	326	350	350	348	266	266	257	255	260	260	250	227	225	223	230	230	150	
McBEE	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	2	2	3	3	3	0	0	3	2	3	3	3	3	0	9196	
CHESTER	59	59	57	56	54	42	31	30	29	2	2	2	2	3	3	3	3	10	9	8	8	8	8	8	8	8	22	21	34	34	34	68	
SILKEY	15	15	14	14	13	9	5	5	4	0	16	16	16	15	15	8	7	10	15	12	9	8	5	5	3	8	18	17	17	17	19	656	
CURR	70	69	60	55	45	33	22	22	21	34	27	20	20	44	44	40	40	50	42	38	41	39	38	36	38	36	42	39	40	36	39	350	
TOTAL SQUIRREL-CHESTER	673	214	553	547	540	592	589	591	577	589	611	609	593	615	610	581	606	626	629	533	535	527	520	521	523	514	528	522	537	536	540	17272	
HENRY'S FORK CANALS																																	
DEWEY	6	6	6	6	6	6	6	6	7	16	15	13	13	10	10	10	16	16	14	14	14	15	15	15	15	15	15	16	16	16	14	368	
LAST CHANCE	70	75	75	75	76	75	74	74	74	37	45	49	48	50	54	54	54	54	54	54	54	54	56	56	65	65	65	65	65	65	65	65	1907
CROSS CUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160	180	200	200	200	205	225	209	238	240	250	290	270	2855
ST. ANTHONY UNION	492	499	485	456	427	432	438	428	417	419	436	453	460	470	461	468	468	458	456	443	458	475	472	473	464	467	465	465	465	465	429	14153	
FARMERS FRIEND	212	189	212	189	166	212	47	38	45	0	0	0	0	62	62	62	116	100	98	95	99	71	71	71	63	62	61	57	57	57	65	2639	
TWIN GROVES	148	150	151	144	137	130	132	133	131	128	126	136	140	146	146	146	142	142	142	134	96	100	98	96	96	96	96	96	94	94	65	3805	
SALEM UNION	220	208	190	170	156	130	107	106	104	121	121	161	154	152	188	188	188	188	188	211	166	152	152	152	152	152	180	183	183	162	152	5037	
TOTAL ASHTON-ST. ANTHONY	1148	1127	1119	1040	968	985	804	785	778	721	743	812	815	890	921	928	984	958	1112	1131	1087	1069	1064	1077	1080	1056	1112	1127	1130	1143	1055	30764	
EGIN	302	288	270	252	232	186	204	241	254	258	268	279	290	297	311	306	299	302	295	315	320	306	306	310	303	301	304	304	319	297	244	8763	
ST. ANTHONY UNION FEEDER	36	56	72	67	63	67	71	62	54	51	51	50	54	73	68	63	44	44	36	40	70	64	70	65	70	64	64	62	64	72	1877		
INDEPENDENT	286	295	255	210	172	196	191	171	151	151	148	146	116	193	247	273	286	288	284	249	245	251	247	247	247	240	245	232	240	257	208	6967	
CONSOLIDATED FARMERS	220	224	200	180	160	168	177	166	156	154	207	150	174	259	196	211	214	208	208	211	257	213	216	217	217	217	220	212	212	212	159	6195	
TOTAL ST. ANTHONY-REXBURG	864	863	797	709	627	617	643	640	615	614	674	625	639	822	822	858	864	842	831	811	862	840	833	844	832	828	833	812	833	830	603	23802	
TETON RIVER CANALS																																	
SIDDOWAY	18	15	13	14	16	17	16	15	15	12	4	15	15	14	14	13	9	4	9	14	15	14	14	14	13	14	13	12	13	13	14	411	
WILFORD	165	162	158	143	128	112	108	104	102	101	67	90	45	75	75	73	69	73	85	89	86	86	86	86	88	88	0	92	92	88	75	2891	
TETON IRRIGATION	81	84	86	90	89	86	88	84	95	94	91	98	94	97	86	15	22	74	86	78	83	78	83	80	80	80	79	77	80	77	74	2489	
GOOD LUCK	20	26	31	31	32	32	28	24	20	15	11	10	20	19	18	19	18	19	19	19	19	19	27	19	17	16	20	18	19	21	24	647	
PIONEER	35	26	18	16	15	14	8	3	3	32	10	12	11	14	14	14	14	13	14	14	14	15	15	15	15	16	18	18	17	19	16	477	
STEWART	32	32	31	31	3	3	2	2	12	20	11	11	11	11	11	17	17	17	17	17	17	17	15	15	15	15	16	15	14	17	16	480	
PINCOCK-BYINGTON	6	6	6	7	8	10	10	11	10	8	6	6	6	6	6	5	5	6	6	7	7	6	6	6	6	6	6	5	5	10	12	216	
PINCOCK-GARNER	31	30	28	29	30	31	30	30	34	12	31	13	13	15	15	9	9	9	8	8	8	8	8	8	8	9	9	9	9	9	12	513	
TETON ISLAND FEEDER	391	382	373	385	420	440	430	410	370	355	391	367	352	346	346	340	346	310	287	304	298	304	301	295	292	304	281	263	263	292	340	10578	
NORTH SALEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ROXANA	2	2	1	2	2	3	3	4	3	1	1	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ISLAND WARD	37	35	33	33	34	34	20	0	0	0	51	67	60	56	53	58	55	47	46	22	20	20	21	20	20	22	23	21	21	24	27	980	
WOODMANSEE-JOHNSON	21	21	21	22	23	25	27	29	24	22	22	22	25	26	25	28	25	18	18	28	19	19	19	19	19	19	22	20	20	0	0	648	
CITY OF REXBURG	48	48	49	47	47	44	41	29	29	27	26	41	28	23	26	27	26	23	25	20	33	42	53	44	44	38	41	40	37	41	43	1130	
REXBURG IRRIGATION	179	204	219	216	203	206	207	208	203	202	193	184	129	133	130	132	148	140	156	131	123	122	138	146	144	134	134	138	136	176	179	5105	
McCORMICK-ROWE	5	5	5	5	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	113	
SAURY-SOMMERS	20	16	12	15	18	21	21	20	19	18	17	17	14	22	24	23	22	22	22	22	21	19	17	17	19	12	11	11	8	7	5	532	
TOTAL	1091	1044	1044	1086	1073	1083	1044	978	946	924	935	957	826	862	847	777	788	778	800	787	774	780	817	799	793	787	684	751	744	806	851	27356	

DAILY DISCHARGE IN SEC.-FT. OF HENRY'S FORK CANALS FOR AUGUST 1939 PLATE NO. 19

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
YELLOWSTONE	21	21	20	21	21	21	19	21	19	19	19	19	18	18	18	15	15	14	14	10	10	10	11	11	11	11	10	10	10	10	477	
HARRIGFELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MARYSVILLE	156	135	133	127	129	119	119	107	102	102	86	86	86	86	104	102	102	86	86	82	82	69	69	69	69	72	72	72	72	72	72	477
TOTAL ABOVE SQUIRAEL	177	156	153	150	150	140	138	128	121	121	105	105	104	104	122	117	117	100	100	92	92	79	79	80	80	83	83	82	82	82	82	2927
FARMERS OWN	48	28	36	36	32	32	32	32	32	32	32	32	32	32	32	32	32	31	32	32	32	26	26	26	26	26	26	26	26	26	25	3404
ALMY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENTERPRISE	140	138	140	138	140	140	141	141	141	144	146	146	145	144	142	143	144	144	144	145	144	145	143	143	143	143	143	143	145	143	145	950
BELL	6	5	5	5	5	5	5	6	5	6	5	5	5	4	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	0	0
FALL RIVER	253	223	225	223	223	223	227	227	227	204	204	204	200	200	179	182	182	182	182	182	182	168	168	174	171	171	171	175	171	177	145	4425
McBEE	0	0	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0
CHESTER	31	29	24	28	25	15	14	14	18	18	21	20	16	19	19	19	14	12	12	12	10	11	10	12	13	11	10	11	6	5	498	
SILKEY	20	20	20	14	20	20	20	20	19	21	20	21	21	18	18	17	16	16	18	18	16	0	0	0	0	0	0	4	5	5	6	418
CURR	37	37	36	37	37	39	39	36	35	35	34	34	33	33	32	31	29	29	30	29	29	30	30	30	30	29	29	29	29	29	28	1004
TOTAL SQUIRAEL-CHESTER	515	480	480	488	484	476	480	478	474	463	465	465	455	452	427	428	426	419	421	422	422	398	386	383	391	388	386	389	395	380	396	13515
DEWEY	14	13	13	18	18	18	17	17	17	17	17	17	17	17	16	16	17	17	17	18	15	14	15	15	16	14	14	14	14	4	483	
LAST CHANCE	60	54	52	52	50	50	50	48	48	44	44	44	44	42	44	50	50	50	50	50	50	48	49	47	48	48	46	44	44	44	1494	
CROSS CUT	240	230	230	212	150	150	151	151	151	152	152	151	180	222	234	240	240	240	245	253	253	253	253	253	253	253	253	242	200	200	6537	
ST. ANTHONY UNION	409	392	389	434	414	410	414	412	409	381	384	382	392	390	384	398	422	420	420	444	419	397	387	400	397	398	395	382	316	316	320	12172
FARMERS FRIEND	56	49	35	36	36	36	28	20	17	10	10	9	12	14	17	27	30	30	30	30	51	15	17	17	19	15	24	24	24	24	14	756
TWIN GROVES	65	61	58	63	61	68	63	61	63	56	59	61	61	59	61	60	60	63	63	61	61	69	60	60	60	24	21	21	21	20	26	1670
SALEM UNION	152	152	149	144	147	145	140	148	147	136	132	132	131	140	142	140	145	145	148	148	149	149	154	136	136	139	148	136	139	120	120	4389
TOTAL ASHTON-ST. ANTHONY	996	951	926	959	876	877	862	857	852	795	798	798	805	840	834	915	960	965	968	970	1001	948	933	930	927	893	903	846	800	738	728	27501
EGIN	230	268	274	293	304	286	304	293	254	279	279	283	283	283	295	292	281	246	246	256	256	252	266	274	259	266	266	263	259	252	252	8394
ST. ANTHONY UNION FEEDER	69	66	64	63	64	66	48	59	65	57	54	51	56	62	57	57	54	42	42	42	42	42	42	46	48	42	49	48	58	58	1689	
INDEPENDENT	228	199	238	238	253	262	205	197	205	195	219	224	222	222	217	242	230	234	195	154	156	152	205	207	213	215	199	154	156	156	162	6354
CONSOLIDATED FARMERS	154	138	169	165	165	164	166	182	185	184	143	143	134	134	132	132	159	159	156	156	166	174	172	172	160	160	168	166	166	166	4950	
TOTAL ST. ANTHONY-REXBURG	681	671	745	759	786	778	723	731	709	715	695	701	695	695	706	723	727	693	639	608	620	620	685	695	678	689	667	654	629	632	638	21387
SIDDOWAY	13	11	10	10	9	8	8	9	8	9	9	8	8	10	12	9	10	9	8	9	9	8	8	9	9	10	8	9	10	9	9	285
WILFORD	74	70	75	71	73	77	77	72	78	66	65	64	60	62	66	64	63	62	61	60	61	61	58	61	58	59	53	51	52	51	49	1974
TETON IRRIGATION	74	74	75	72	75	70	72	70	72	74	76	74	74	72	72	67	67	74	74	60	42	64	71	68	66	68	70	70	72	78	2179	
GOOD LUCK	17	17	17	17	10	8	10	14	8	8	8	8	8	8	8	8	8	8	8	8	8	4	4	10	10	10	10	10	10	10	10	316
PIONEER	13	11	11	11	10	13	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	0	10	0	0	0	0	0	0	0	264
STEWART	19	17	16	16	15	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	306
PINCOCK-BYINGTON	13	12	11	10	10	9	8	7	7	8	8	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	245
PINCOCK-GARNER	11	10	9	9	8	8	7	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	316
TETON ISLAND FEEDER	385	343	307	297	266	249	215	226	215	249	243	252	252	246	269	258	263	269	269	257	266	266	266	275	266	278	284	240	272	272	8334	
NORTH SALEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROXANA	21	11	9	12	7	4	4	6	6	9	3	5	6	5	5	4	3	2	3	4	6	6	6	6	7	7	8	8	10	10	211	
ISLAND WARD	39	0	0	0	0	0	0	25	26	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
WOODHANSEE-JOHNSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157
CITY OF REXBURG	42	36	37	31	45	37	37	37	34	32	33	32	32	35	34	26	30	32	38	32	27	43	27	27	20	29	28	28	28	28	996	
REXBURG IRRIGATION	126	193	185	174	126	142	154	164	146	143	151	138	132	133	131	123	140	132	123	117	124	157	119	112	130	128	139	130	121	126	4324	
MCCORMICK-ROWE	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
SAURY-SOMMERS	3	8	3	17	20	20	17	18	17	17	17	17	17	16	16	14	15	15	12	12	10	8	7	6	5	3	15	15	15	15	409	
TOTAL	853	816	768	750	707	697	642	642	655	660	643	639	627	627	664	631	650	650	636	624	603	641	594	612	625	624	640	664	669	621	630	20514

DAILY DISCHARGE IN SEC.-FT. OF HENRYS FORK CANALS FOR SEPT. 1939
FALL RIVER CANALS

PLATE NO. 20

NAME OF CANAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL	
YELLOWSTONE	10	10	11	11	10	10	10	10	11	7	0	0	0	0	0	0	0	0	0	5	4	5	4	4	4	4	4	4	4	3	143	
HARRIGFELD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MARYSVILLE	48	47	47	46	46	46	46	51	51	45	45	38	25	25	32	31	32	31	30	31	25	25	25	25	25	25	20	20	20	0	143	
TOTAL ABOVE SQUIRREL	58	57	58	57	56	56	56	61	62	52	45	45	38	25	25	32	31	32	31	35	35	30	29	29	29	29	24	24	23	1048		
FARMERS OWN	25	25	23	23	21	21	21	21	21	21	21	22	22	20	20	16	16	17	17	17	17	17	17	17	17	17	14	12	12	12	1193	
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ENTERPRISE	145	144	143	142	141	140	141	142	142	143	143	146	149	142	134	133	132	130	129	128	128	128	128	128	128	128	120	116	103	103	562	
BELL	0	0	0	0	0	2	2	3	3	3	3	4	5	5	5	5	4	4	4	4	4	4	4	4	5	5	4	2	2	2	0	
FALL RIVER	182	180	179	177	177	177	180	182	181	180	179	174	168	154	140	141	140	140	140	140	142	184	184	184	184	184	184	184	184	184	179	4007
McBEE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	
CHESTER	5	4	4	3	3	3	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	5117	
SILKEY	6	5	5	4	4	4	5	6	5	4	3	8	12	12	12	12	2	2	11	11	10	10	8	6	4	3	3	2	2	2	0	
CURR	28	29	29	30	30	30	26	22	20	17	13	14	16	16	17	17	6	6	6	6	6	6	6	12	12	16	21	21	21	21	183	
TOTAL SQUIRREL-CHESTER	391	387	383	379	376	377	381	384	380	376	370	376	380	357	336	332	308	307	315	314	335	357	354	354	356	374	374	357	341	341	10757	
HENRYS FORK CANALS																																
DEWEY	0	0	0	0	0	0	0	0	0	0	0	7	14	14	15	12	10	8	12	17	16	16	16	16	16	16	16	16	16	16	269	
LAST CHANCE	43	42	41	40	38	36	33	30	30	30	30	31	31	31	31	13	13	13	13	13	13	13	13	13	13	13	13	14	15	15	734	
CROSS CUT	200	200	200	200	148	205	205	205	205	150	150	90	90	90	90	90	90	90	90	90	0	0	0	0	0	0	0	0	0	0	2928	
ST. ANTHONY UNION	356	356	356	356	355	354	351	348	340	332	325	325	285	243	240	240	239	227	215	215	215	216	217	218	213	208	208	208	208	8296		
FARMERS FRIEND	14	14	14	14	14	14	14	14	14	14	14	13	32	52	52	44	44	44	44	44	44	46	48	50	50	50	51	52	52	980		
TWIN GROVES	24	24	23	23	22	22	23	23	24	22	21	21	40	58	59	60	61	61	62	61	60	60	60	63	66	68	65	62	62	1362		
SALEM UNION	121	124	127	131	124	118	116	115	116	116	117	110	103	100	96	94	92	89	84	89	89	89	89	89	89	89	89	89	89	89	3077	
TOTAL ASHTON-ST. ANTHONY	758	760	761	764	751	749	742	735	729	664	657	597	616	610	588	579	550	544	537	529	437	437	440	446	452	444	441	440	442	442	17646	
EGIN	242	238	234	229	229	230	232	226	220	215	207	199	198	196	193	190	186	186	186	188	189	189	189	187	189	189	189	189	189	6154		
ST. ANTHONY UNION FEEDER	57	54	50	47	50	52	46	42	43	45	46	44	42	36	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	1166	
INDEPENDENT	161	158	154	151	154	158	155	152	143	131	120	110	100	96	91	88	84	80	82	83	82	80	88	96	105	114	122	109	96	96	3438	
CONSOLIDATED FARMERS	171	171	171	171	156	142	134	125	126	126	127	127	79	80	82	82	82	82	83	84	84	84	84	84	84	83	82	82	82	82	3232	
TOTAL ST. ANTHONY-REXBURG	631	621	609	598	589	581	565	551	537	522	508	488	420	410	401	395	388	380	383	385	386	385	393	401	410	418	425	412	399	599	13940	
TETON RIVER CANALS																																
SIDDOWAY	10	11	10	9	8	9	10	10	10	10	11	11	10	10	8	7	7	8	8	6	5	5	5	5	6	6	6	6	6	6	237	
WILFORD	50	52	52	73	73	70	68	68	70	71	73	74	74	74	58	41	41	22	22	22	22	22	22	20	18	16	16	16	16	16	1332	
TETON IRRIGATION	71	76	74	72	70	69	67	68	68	68	68	69	66	64	62	60	59	58	58	59	59	60	54	57	56	56	57	57	56	1907		
GOOD LUCK	10	10	10	10	10	11	9	9	9	9	9	9	9	9	8	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	282	
PIONEER	12	12	12	12	12	11	10	10	11	10	10	9	8	8	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	201	
STEWART	8	8	8	8	8	8	8	8	17	17	11	10	8	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	179	
PINCOCK-BYINGTON	7	7	7	6	6	6	6	6	7	7	7	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	150	
PINCOCK-GARNER	14	13	13	12	12	8	4	4	4	4	4	4	4	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	208	
TETON ISLAND FEEDER	260	249	245	241	238	246	255	268	281	279	277	275	245	215	216	218	215	212	210	207	204	204	204	204	204	204	202	199	199	199	6875	
NORTH SALEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ROXANA	10	10	8	6	5	4	4	4	4	4	1	1	13	25	19	13	11	9	8	7	6	6	6	6	6	6	6	6	6	6	231	
ISLAND WARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WOODMANSEE-JOHNSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CITY OF REXBURG	29	30	28	26	25	28	32	32	32	32	32	34	31	31	31	31	31	31	28	25	25	25	25	24	23	23	23	23	23	843		
REXBURG IRRIGATION	135	140	132	125	118	130	146	134	123	123	97	97	98	98	99	100	99	97	98	98	97	98	98	97	97	96	96	95	95	3249		
McORMICK-ROWE	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	25	
SAURY-SOMMERS	12	12	12	11	10	10	10	10	11	11	10	10	10	10	11	12	12	13	13	13	12	12	13	13	13	13	12	12	12	12	347	
TOTAL	652	630	614	619	594	612	631	633	648	646	610	609	587	560	530	501	494	472	473	465	486	457	459	455	449	441	442	441	441	16047		

HENRY'S FORK

DATE	HENRY'S LAKE Cont. Ac. Ft.	HENRY'S FORK NEAR LAKE	STORAGE DIVERTED ABOVE ISLAND PARK RES.	DATE	ISLAND PARK RES.	HENRY'S FORK NR. ISLAND PARK			STOR. LOSS ISL. PK. TO ASHTON	DATE	HENRY'S FORK NEAR ASHTON			STORAGE DIVERTED ASHTON TO	HENRY'S FORK AT ST. ANTHONY			STORAGE DIVERTED ST. ANTHONY TO REXBURG
						STOR.	NORM.	TOTAL			ST. ANTHONY	STOR.	NORM.		TOTAL			
JUNE 27																		
30		34		JUNE 30	132 390	123	427	550										
JULY 1		34		JULY 1	132 070	218	427	645		JULY 1	120	1250	1370		120	728	908	
2		32		2	131 670	142	427	569		2	213	1097	1310	149	64	887	951	
3		32		3	131 670	105	426	531		3	138	1112	1250	149	-11	741	730	
4		32		4	131 275	54	440	494		4	102	1148	1250	102	0	600	600	
5		32		5	131 115	0	475	475		5	53	1147	1200	53	0	585	585	
6		32		6	131 195	-40	524	484		6	0	1250	1250	29	-29	722	693	
7	53 418	32		7	131 275	-40	515	475		7	-39	1289	1250	29	-68	807	739	
8	53 418	29		8	131 115	54	430	484		8	-39	1259	1220	70	-109	734	625	
9		23		9	131 035	129	430	559		9	53	1147	1220	71	-18	572	554	
10		23		10	131 035	134	430	564		10	126	1134	1260	80	46	562	608	
11		23		11	130 245	139	430	569		11	131	1159	1290	400	-269	928	659	
12		23		12	129 695	297	430	727		12	136	1214	1350	337	-201	843	642	
13		23		13	128 830	496	430	926		13	290	1190	1480	369	-79	772	693	
14		23		14	127 965	517	430	947		14	484	1136	1620	469	15	791	806	
15		23		15	126 875	590	430	1020		15	504	1196	1700	509	-5	811	806	
16		23		16	125 320	690	430	1120		16	575	1265	1780	499	76	780	856	
17		23		17	123 860	710	430	1140		17	673	1177	1850	555	118	782	908	
18		23		18	122 410	710	430	1140		18	692	1138	1830	540	152	756	908	
19		23	3	19	120 740	707	433	1140		19	692	1138	1830	704	-12	868	856	
20	52 774	16	3	20	118 860	707	433	1140		20	690	1120	1810	920	-230	1016	786	
21		20	3	21	117 740	707	433	1140		21	689	1141	1830	937	-248	1034	786	
22		20	3	22	116 335	707	433	1140		22	689	1141	1830	911	-222	1018	796	
23		20	3	23	114 865	707	433	1140		23	689	1141	1830	918	-229	1045	816	
24		20	3	24	113 330	707	433	1140		24	689	1141	1830	921	-232	1058	826	
25		20	3	25	111 520	707	433	1140		25	689	1141	1830	910	-221	1047	826	
26		20	3	26	110 440	707	433	1140		26	690	1140	1830	913	-223	1059	836	
27		20	3	27	108 660	727	433	1160		27	689	1141	1830	968	-279	1095	816	
28		20	3	28	106 895	757	433	1190		28	709	1121	1830	974	-265	1061	796	
29		20	3	29	105 150	727	443	1170		29	738	1132	1870	987	-249	1065	816	
30		20	3	30	103 420	727	443	1170		30	709	1161	1870	1003	-294	1110	816	
31		20	3	31	102 390	697	453	1150		31	709	1181	1890	962	-253	1183	930	
AUG 1		20	3	AUG. 1	101 370	497	503	1000		AUG. 1	680	1110	1790	920	-240	1260	1020	
2		25	3	2	100 015	507	503	1010		2	485	1215	1700	809	-324	1275	951	
3	52 188	25	3	3	99 010	517	493	1010		3	494	1176	1670	798	-304	1223	919	
4		24	3	4	97 675	537	483	1020		4	504	1186	1690	803	-299	1196	897	
5		24	3	5	96 685	557	453	1010		5	524	1176	1700	714	-190	1162	972	
6		24	3	6	95 695	557	453	1010		6	543	1147	1690	674	-131	1093	962	
7		24	3	7	94 390	557	453	1010		7	543	1127	1670	655	-112	1074	962	
8		24	3	8	93 225	557	453	1010		8	543	1147	1690	637	-94	1066	972	
9		24	3	9	91 810	557	453	1010		9	543	1147	1690	633	-90	1100	1010	
10		24	3	10	91 175	557	453	1010		10	543	1147	1690	600	-57	1107	1050	
11		24	3	11	89 910	557	453	1010		11	543	1147	1690	578	-35	1095	1060	
12		24	3	12	88 965	557	453	1010		12	543	1127	1670	579	-36	1106	1070	
13		24	3	13	88 030	547	453	1000		13	533	1137	1670	572	-29	1079	1050	
14		24	3	14	87 100	547	453	1000		14	534	1156	1690	614	-81	1101	1020	
15	51 077	24	3	15	86 850	547	453	1000		15	533	1157	1690	668	-134	1106	972	
				16	85 930	547	453	1000		16	533	1137	1670	664	-131	1071	940	
				17						17	533	1137	1670	694	-161	1037	876	

Includes Fall River diversions.

DAILY SEGREGATION OF FLOW 1939

24 HOUR SECOND-FEET EXCEPT AS NOTED

DATE	HENRYS LAKE Cont. Ac-Ft.	HENRYS FORK NEAR LAKE 5	DATE	STORED BALANCE REXBURG STATION
JUNE 29			JULY 2	120
30			3	26
JULY 1			4	-45
2			5	-20
3			6	-19
4			7	-53
5			8	-108
6			9	-134
7	53418		10	-59
8	53418		11	-19
9			12	-370
10			13	-327
11			14	-294
12			15	-245
13			16	-346
14			17	-305
15			18	-304
16			19	-116
17			20	-159
18			21	-401
19			22	-439
20	52774		23	-460
21			24	-465
22			25	-468
23			26	-437
24			27	-442
25			28	-503
26			29	-473
27			30	-483
28			31	-526
29			AUG. 1	-332
30			2	-419
31			3	-520
AUG 1			4	-531
2	52188		5	-622
3			6	-528
4			7	-462
5			8	-374
6			9	-393
7			10	-350
8			11	-301
9			12	-258
10			13	-264
11			14	-256
12			15	-308
13			16	-348
14			17	-376
15	51077		18	-434

DATE	HENRYS LAKE Cont. Ac-Ft.	HENRYS FORK NEAR LAKE	STORAGE DIVERTED ABOVE ISLAND PARK RES.	DATE	ISLAND PARK RES.			STOR. LOSS ISL. PK. TO ASHTON	DATE	HENRYS NEAR LAKE		
					Cont. Ac-Ft.	STOR.	NORM.			TOTAL	STOR.	NORM.
AUG. 16				AUG. 17	84840	547	453	1000	14	AUG. 18	532	11
17		28	3	18	83750	546	453	999	14	19	532	11
18		28	3	19	82675	546	453	999	14	20	532	11
19		28	3	20	81490	541	453	994	14	21	527	11
20		28		21	80310	544	450	994	14	22	530	11
21		28		22	79150	549	450	999	14	23	535	11
22		28		23	78115	544	450	994	14	24	530	11
23		28		24	77030	544	450	994	13	25	531	11
24		33		25	76020	539	450	989	13	26	526	11
25		28		26	75020	650	450	1100	16	27	634	12
26		28		27	73590	690	450	1140	17	28	673	11
27		28		28	72340	690	450	1140	17	29	673	11
28		28		29	70955	690	440	1140	17	30	673	11
29		28		30	69960	680	450	1130	17	31	663	11
30		28		31	68665	680	450	1130	17	SEP. 1	663	11
SEP. 1		28		2	67290	680	450	1130	17	2	663	11
2		23		3	65945	680	450	1130	17	3	663	11
3		23		4	64580	690	440	1130	17	4	673	11
4		23		5	63280	680	440	1120	17	5	663	11
5		23		6	61870	680	440	1120	17	6	663	11
6		23		7	60720	590	440	1030	15	7	525	11
7	49553	20		8	59450	549	440	989	14	8	535	11
8		20		9	58520	544	440	984	14	9	530	11
9		20		10	57420	554	430	984	14	10	540	11
10		20		11	56395	548	430	978	14	11	534	11
11		20		12	55340	548	430	978	14	12	534	11
12		20		13	54260	460	430	890	11	13	449	11
13		20		14	53650	346	450	796	9	14	337	11
14		20		15	53045	233	450	683	6	15	227	11
15		20	3	16	52925	116	453	569	3	16	113	10
16		20	3	17	52685	69	453	522	2	17	67	11
17		20	3	18	52685	51	443	494	1	18	50	11
18		20	3	19	52445	42	433	475	1	19	41	10
19		20	3	20	52365	19	433	452	0	20	19	10
20		20	3	21	52285	-3	419	416	0	21	-3	10
21		20	3	22	52285	-3	414	411	0	22	-3	10
22		20	2	23	52365	-2	426	424		23	-2	10
23		20		24	52445	0	429	429		24	0	10
24	49204	20		25	52605	0	434	434		25	0	10
25		18		26	52605	0	434	434		26	0	10
26		18		27	52725	0	438	438		27	0	10
27		18		28	52725	0	441	441		28	0	10
28		18		29	52685	0	441	441		29	0	11
29		18		30	52605	0	456	456		30	0	11
		18			52685	0	452	452				
TOTALS			122			40072			1002		39070	

Includes Fall F

DAILY SEGREGATION OF FLOW 1939

4 HOUR SECOND-FOOT EXCEPT AS NOTED

PLATE NO. 21

STOR. BALANCE
REXBURG
STATION

120
26
-45
-20
-19
-53
-108
-134
-59
-19
-370
-327
-294
-245
-346
-305
-304
-116
-159
-401
-439
-440
-465
-468
-437
-442
-503
-473
-483
-526
-332
-419
-520
-531
-622
-528
-462
-374
-373
-350
-301
-258
-264
-256
-308
-348
-376
-434

DATE	HENRYS LAKE Cont. Ac-Ft.	HENRYS FORK NEAR LAKE	STORAGE DIVERTED ABOVE ISLAND PARK RES.	DATE	ISLAND PARK RES. Cont. Ac-Ft.	HENRYS FORK NR. ISLAND PARK			STOR. LOSS ISL. PK. TO ASHTON	DATE	HENRYS FORK NEAR ASHTON			STORAGE DIVERTED ASHTON TO ST. ANTHONY	HENRYS FORK AT ST. ANTHONY			STORAGE DIVERTED ST. ANTHONY TO REXBURG	DATE	STOR. BALANCE REXBURG STATION
						STOR.	NORM.	TOTAL			STOR.	NORM.	TOTAL		STOR.	NORM.	TOTAL			
AUG 16																				
17		28	3	AUG 17	84840	547	453	1000												
18		28	3	18	83750	546	453	999	14	AUG 18	533	1137	1670	678	-145	1021	876	227	AUG 19	-382
19		28	3	19	82675	546	453	999	14	20	532	1138	1670	675	-143	1019	876	186	20	-329
20		28	3	20	81490	541	453	994	14	21	527	1193	1670	662	-130	996	866	158	21	-288
21		28		21	80310	544	450	994	14	22	530	1130	1650	673	-166	1042	876	168	22	-326
22		28		22	79150	549	450	999	14	23	535	1135	1670	656	-126	1002	876	326	23	-452
23		28		23	78115	544	450	994	14	24	530	1120	1650	648	-112	1022	919	327	24	-490
24		33		24	77030	544	450	994	13	25	531	1139	1670	624	-94	1013	919	379	25	-423
25		28		25	76020	539	450	989	13	26	526	1144	1670	637	-108	1038	930	373	26	-481
26		28		26	75020	650	450	1100	16	27	634	1210	1850	612	-86	1058	972	375	27	-461
27		28		27	73590	690	450	1140	17	28	673	1177	1850	616	18	1102	1120	359	28	-341
28		28		28	72340	690	450	1140	17	29	673	1177	1850	603	70	1110	1180	322	29	-252
29		28		29	70955	690	450	1140	17	30	673	1157	1830	578	75	1125	1200	237	30	-162
30		28		30	69960	680	450	1130	17	31	663	1187	1850	593	130	1080	1210	239	31	-109
31		28		31	68665	680	450	1130	17	SEP 1	663	1187	1850	534	129	1121	1250	247	SEP 1	-118
SEP 1		23		SEP 1	67290	680	450	1130	17	2	663	1187	1850	507	156	1104	1260	274	2	-118
2		23		2	65945	680	450	1130	17	3	663	1167	1830	506	157	1093	1250	289	3	-132
3		23		3	64580	690	440	1130	17	4	673	1137	1810	498	165	1075	1240	279	4	-124
4		23		4	63280	680	440	1120	17	5	663	1167	1830	496	177	1033	1210	256	5	-79
5		23		5	61870	680	440	1120	17	6	663	1167	1830	482	181	1059	1240	241	6	-60
6		23		6	60720	590	440	1030	15	7	663	1167	1830	456	207	1043	1250	238	7	-31
7		23		7	59450	549	440	989	14	8	575	1115	1690	448	127	1013	1140	230	8	-103
8	49555	20		8	58520	544	440	984	14	9	530	1140	1670	453	82	1058	1140	203	9	-121
9		20		9	57420	554	430	984	14	10	540	1130	1670	444	86	1064	1150	204	10	-118
10		20		10	56395	548	430	978	14	11	534	1156	1690	465	135	1055	1190	136	11	-1
11		20		11	55340	548	430	978	14	12	534	1166	1700	377	137	1073	1210	137	12	0
12		20		12	54260	460	430	890	11	13	449	1151	1600	385	149	1091	1240	57	13	92
13		20		13	53650	346	450	796	9	14	377	1173	1510	312	137	1153	1290	0	14	137
14		20		14	53045	233	450	683	6	15	227	1113	1340	287	50	1230	1280		15	50
15		20	3	15	52925	116	453	569	3	16	113	1087	1200	134	93	1027	1120		16	93
16		20	3	16	52685	69	453	522	2	17	67	1133	1200	133	-20	1030	1010		17	-20
17		20	3	17	52685	51	443	494	1	18	50	1130	1180	132	-65	1037	972		18	-65
18		20	3	18	52445	42	433	475	1	19	41	1087	1130	130	-80	1010	930		19	-80
19		20	3	19	52365	19	433	452	0	20	19	1091	1110	129	-22	996	908		20	-88
20		20	3	20	52285	-3	419	416	0	21	-3	1073	1070	133	-114	1001	887		21	-114
21		20	2	21	52285	-3	414	411	0	22	-3	1073	1070	183	-186	1042	856		22	-186
22		20	2	22	52365	-2	426	424		23	-2	1092	1090	178	-181	1057	876		23	-181
23		20		23	52445	0	429	429		24	0	1090	1090	177	-179	1087	908		24	-179
24		20		24	52445	0	429	429		25	0	1090	1090	177	-177	1074	877		25	-177
25	49204	20		25	52605	0	434	434		26	0	1090	1090	177	-177	1074	877		26	-177
26		18		26	52605	0	434	434		27	0	1080	1080	177	-177	1064	887		27	-177
27		18		27	52725	0	438	438		28	0	1090	1090	174	-174	1061	887		28	-174
28		18		28	52725	0	461	461		29	0	1090	1090	156	-156	1053	897		29	-156
29		18		29	52685	0	461	461		30	0	1110	1110	118	-118	1058	940		30	-118
TOTALS			122			40072			1002		39070		45215	-6145			15884		-22029	

STORAGE

CANAL	NO.	JULY 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
USERS ABOVE ISLAND PARK RESERVOIR	1																													
	2																		3	3	3	3	3	3	3	3	3	3		
STONE CREEK CANAL	3																													
SQUARE CR. CANAL	4																													
WANT CR. CANAL	5								10	10	10	10	10	10	10	10	9	8	8	8	8							3		
YELLOWSTONE	6								31	31	31	30	25	25	25	25	22	20	20	20	18	24	24	23	23	22	22	22	2	
MARYSVILLE	7																8	9	9	10	10	11	11	12	11	9	9	12	2	
FARMERS OWN	8		23	23	23	23	23	23	23	23	23	180	180	180	187	185	178	178	178	179	179	177	175	177	177	176	175	176	16	
ENTERPRISE	9											60	60	60	60	60	60	60	63	63	66	68	72	72	72	72	72	72	7	
FALL RIVER CANAL	10											60	0	31	55	93	89	91	91	92	132	132	135	137	135	135	134	139	13	
McBEE	11																						1	14	14	0	18	6	1	
CHESTER	12																									3	2	3		
DILNEY	13												2	2	2	3	3	3	6	6	6	6	6	6	6	6	6	20	1	
CROSS-CUT	14																													
DEWEY	15		6	6	6	6	6	6	6	7	16	15	13	13	10	10	10	12	10	10	10	10	10	10	10	10	12	10	12	
LAST CHANCE	16		40	40	33	4						45	49	48	50	54	54	54	54	54	54	54	56	56	65	65	65	65	6	
FARMERS FRIEND	17		80	80	40	20																								
TWIN GROVES	18												62	62	62	116	100	98	95	99	71	71	71	71	71	63	62	61	5	
SALEM UNION	19																		84	100	96	100	98	96	96	96	96	96	9	
	20																				140	166	152	152	152	152	152	180	18	
TOTAL ASHTON TO ST. ANTHONY	21		149	149	102	53	29	29	70	71	80	400	337	369	469	509	499	555	540	704	920	937	911	918	921	910	913	948	979	183
	22																													
INDEPENDENT	23												90	119	165	185	202	64	80	51	65	105	103	103	79	82	84	76		
CONSOLIDATED FARMERS	24																				67	120	126	133	133	133	137	137	140	132
STON BASIN USERS	25		38	34	20	19	24	40	25	41	40	36	34	29	48	47	70	61	58											
CANYON CR. CANAL	26											25	25	25	25	25	24	20	20	20										
GOOD LUCK	27												8	8	8	8	8	8												
PIONEER	28													3	3	3	3	3												
STEWART	29																6	6	6											
STON ISLAND FEEDER	30													40	32	46	49													
ISLAND WARD	31											40	67	63	57	54	57	56	40											
REXBURG IRRIGATION	32																	20	20											
	33																													
TOTAL ST. ANTHONY TO REXBURG	34		38	34	20	19	24	40	25	41	65	101	126	215	260	341	381	422	268	147	171	191	238	236	236	216	219	224	208	

Beginning July 19 all storage for

Note: For allotments to a

	22	23	24	25	26	27	28	29	30	NO.	TOTAL SEC.-FT.	TOTAL ACRE-FT.
CANAL										1	122	242
ABOVE ISLAND RESERVOIR										2		
CREEK CANAL										3	111	220
CR. CANAL										4	132	262
CR. CANAL										5	1237	2453
LOWSTONE	5	4	4	4	4	4	4			6	819	1624
SVILLE	25	25	25	25	25	25	20			7	7457	14790
FARMERS OWN	7	7	7	7	7	4	2			8	2919	5790
ERPRISE	128	128	128	128	128	128	116	103		9	10564	20954
RIVER CANAL										10	236	468
REE										11	72	143
STER										12	591	1172
WEY										13	71	141
CROSS-CUT										14	3832	7600
WEY										15	703	1394
CHANCE	13	13	13	13	13	13	14	15		16	3356	6656
FARMERS FRIEND										17	2151	4267
GROVES										18	2991	5933
EM UNION										19	7973	15814
										20		
AL ASHTON TO ANTHONY	178	177	177	177	177	174	156	118		21	45215	89681
										22		
DEPENDENT										23	7751	15374
SOLIDATED FARMER										24	6538	12968
ON BASIN USERS										25	664	1317
YON CR. CANAL										26	209	415
OD LUCK										27	48	95
ONEER										28	15	30
STEWART										29	18	36
ON ISLAND FEEDER										30	167	331
LAND WARD										31	434	861
BURG IRRIGATION										32	40	79
										33		
AL ST. ANTHONY REXBURG										34	15884	31506

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	398,270	424,060	450,550	479,340	506,090	533,070	558,370	627,480	847,000	846,210	636,620	386,700
2	398,490	425,180	451,910	489,260	507,010	534,000	559,550	635,420	846,210	845,700	632,050	382,050
3	398,710	426,540	453,280	481,180	507,710	534,940	560,490	643,600	846,210	843,920	627,480	377,170
4	398,710	428,570	454,640	482,100	508,640	535,870	561,440	652,520	848,000	842,140	622,200	372,300
5	398,490	430,150	455,780	483,010	510,040	536,340	562,380	661,240	848,000	840,860	614,320	366,360
6	398,490	431,050	456,690	485,930	511,660	536,810	563,560	671,170	848,000	838,320	603,810	360,000
7	398,710	431,950	457,600	484,620	512,820	537,750	564,500	678,470	846,460	835,770	593,350	354,080
8	398,710	432,850	458,510	485,320	513,750	538,680	565,440	684,810	847,000	833,230	584,340	348,170
9	399,380	433,760	459,190	486,010	514,920	539,620	566,150	692,860	848,250	829,920	576,280	341,880
10	400,280	434,430	459,870	486,700	516,080	540,790	566,850	699,460	847,230	827,120	568,500	337,320
11	401,170	435,110	460,550	488,090	517,010	541,720	567,560	708,050	846,460	824,580	561,670	334,060
12	402,070	435,780	461,010	489,470	518,170	542,430	568,270	715,420	846,210	820,010	554,370	332,110
13	402,740	436,460	461,700	490,390	519,100	543,360	569,450	722,800	846,460	813,690	546,870	330,590
14	403,410	437,140	462,160	491,320	520,730	544,060	570,620	730,960	847,230	806,870	539,150	330,370
15	404,750	437,810	462,850	492,240	522,820	544,770	572,040	739,860	848,000	799,800	531,900	330,590
16	407,210	438,720	463,530	493,160	523,750	545,470	573,920	751,020	848,250	792,000	523,980	329,940
17	409,670	439,630	464,220	494,090	524,680	546,170	575,570	763,220	848,510	782,970	514,450	329,510
18	411,240	440,540	464,910	495,010	525,610	546,870	576,750	775,450	848,250	774,700	504,470	329,290
19	411,910	441,230	465,820	496,160	526,070	547,570	577,940	786,230	850,300	763,960	494,780	328,640
20	412,580	442,140	466,740	497,320	526,540	548,280	580,310	795,260	848,250	752,760	485,320	328,420
21	413,250	443,040	467,890	498,240	527,230	548,980	583,150	801,820	848,250	744,550	476,140	328,200
22	414,140	443,950	468,800	498,930	527,930	549,680	586,240	808,900	848,250	736,400	467,660	327,770
23	415,260	444,640	469,720	499,630	528,860	550,380	590,030	815,970	848,250	726,750	459,640	326,050
24	416,160	445,320	470,640	500,090	529,560	551,080	594,300	822,030	848,250	715,420	451,000	323,470
25	417,060	446,000	471,550	500,550	530,260	551,790	598,340	825,340	848,000	704,370	442,360	321,540
26	417,970	446,680	472,470	501,010	530,960	552,490	601,190	828,140	847,000	693,350	433,080	318,540
27	418,640	447,360	473,620	501,470	531,660	553,190	604,530	829,920	848,250	682,370	423,600	316,180
28	419,540	448,050	474,990	501,930	532,360	554,130	608,110	833,230	848,510	672,620	414,590	313,170
29	420,450	448,730	476,140	503,090		555,070	613,370	838,320	848,000	662,930	406,320	312,530
30	421,580	449,410	477,280	504,240		556,020	620,770	845,190	847,000	653,250	398,710	313,170
31	422,930		478,430	505,400		556,960		848,760		644,560	392,240	

MEAN												
ACRES-												
FEET												



SHAKE RIVER NEAR MORAN, WYOMING

For the year ending September 30, 1966
Plate No. 24

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	469	25	24	24	23	23	25	66	5570	3060	3870	3080
2	403	24	24	24	23	23	25	66	3790	3060	3200	2900
3	403	24	24	24	23	23	25	66	3220	3060	3290	2890
4	403	24	24	24	23	23	24	66	3790	3050	4280	3170
5	344	24	24	24	23	23	24	66	4290	3270	6030	3770
6	301	24	25	24	23	23	24	66	4260	3380	6380	3660
7	369	24	25	24	23	24	24	63	3420	2990	5960	3740
8	221	24	25	24	23	24	24	61	3000	3210	5120	3860
9	42	24	25	24	23	24	24	68	3970	3390	4700	3080
10	38	24	25	24	23	24	24	75	4200	3310	4320	2220
11	34	24	24	25	23	24	24	77	3310	3630	4450	2160
12	30	24	24	25	23	24	24	80	2770	4640	4720	1600
13	29	24	24	25	23	24	24	82	2590	5140	4660	1140
14	28	24	23	24	23	24	24	120	2650	5220	4620	732
15	28	24	23	24	23	24	24	157	2930	5580	4740	585
16	27	24	23	24	23	24	28	171	3000	5700	5290	550
17	27	24	23	24	23	24	31	185	3000	5850	5900	474
18	26	24	23	24	23	24	34	154	2840	6190	5830	474
19	26	24	23	24	23	24	37	122	3230	6850	5700	474
20	25	24	24	24	23	24	40	90	3390	5790	5460	522
21	25	24	24	24	23	24	42	72	3010	5300	5170	620
22	25	23	24	24	23	24	52	55	3000	5690	4910	1020
23	25	23	24	23	23	24	61	432	3000	6850	4900	1920
24	25	23	24	23	23	24	66	1190	3000	6890	5140	1730
25	25	23	24	23	23	24	70	1500	2820	6850	5270	1770
26	25	23	24	23	23	24	68	2190	2360	6790	5720	1830
27	25	23	24	23	23	24	66	2330	2110	6600	5600	1870
28	25	23	24	23	23	25	63	2330	2500	6360	5070	1250
29	25	23	24	23	23	25	61	2330	3320	6260	4750	38
30	25	24	24	23	23	25	66	4370	3070	6190	4340	35
31	25	24	24	23	23	25		6670		5740	3810	

MEAN	114	23.8	24.0	23.8	23.0	23.9	38.3	818	3247	5029	4942	1772
ACRE- FEET	7040	1410	1470	1460	1280	1470	2280	50,320	193,200	309,200	303,900	105,400

U. S. GOVERNMENT PRINTING OFFICE 6-7114

YEAR MEAN 1,352
on Acre-Feet 978,430

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2530	2010	1470	1320	1220	1120						
2	2370	1910	1490	1340	1200	1120						
3	2240	1830	1510	1380	1170	1160						
4	2180	1920	1500	1360		1200						
5	2160	1890	1480	1340		1230						
6	2130	1680	1480	1300		1260						
7	2070	1630	1520	1270		1260						
8	2120	1620	1530	1270		1270						
9	2120	1650	1530	1270		1260						
10	1980	1670	1540	1300		1250						
11	1920	1640	1510	1340		1250						
12	1910	1640	1480	1320		1250						
13	1860	1640	1370	1310		1260						
14	1820	1630	1260	1300		1250						
15	1940	1630	1240	1290		1240						
16	2100	1630	1230	1280	1170	1230						
17	2350	1610	1210	1310		1220						
18	2200	1580	1200	1360		1250						
19	2040	1560	1280	1330		1310						
20	1950	1500	1350	1280		1380						
21	1930	1450	1360	1270		1420						
22	1910	1440	1380	1220		1480						
23	1880	1430	1400	1140		1550						
24	1840	1400	1410	1130		1610						
25	1800	1380	1340	1110		1740						
26	1780	1360	1270	1200		1860						
27	1770	1300	1200	1240		1980						
28	1750	1230	1250	1240	1130	2040						
29	1730	1310	1270	1240	1130	2080						
30	1740	1390	1300	1240		2050						
31	1900		1320	1230		2030						

STATION DISCONTINUED March 31

MEAN	2,001	1,585	1,377	1,275	1,170	1,459						
ACRE- FEET	125,000	94,330	84,650	78,410	64,980	88,480						

Daily discharge, in second-feet, of

GREYS RIVER near ALPINE, WYO.

for the year ending September 30, 1938

Plate No. 26

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	304	342	269	213								
2	304	318	260	220								
3	309	300	264	232								
4	304	318	244	228								
5	309	286	248	220								
6	314	240	244	220								
7	304	269	252	190		195						
8	352	256	252	194								
9	347	300	244	194								
10	328	269	244	220								
11	314	256	244	220								
12	314	256	183	220								
13	304	252	183	220								
14	300	252	198	220								
15	314	220	232	220								
16	337	244	264	220								
17	386	252	252	220								
18	337	256	224	228		194						
19	314	224	236	224		194						
20	304	248	244	220		205						
21	300	216	244	220		216						
22	295	205	236	202		236						
23	295	205	224	202		264						
24	291	213	228			300						
25	291	232	209			357						
26	286	228	198			393						
27	286	228	190			419						
28	282	224	216	215		419						
29	282	240	216			440						
30	291	260	216			451						
31	328		209			451						

STATION DISCONTINUED
APRIL 1ST

Frozen

MEAN	511	254	231	216	est. 205	253						
ACRIF- FEAR	19,100	15,090	14,220	15,280	11,580	15,580						

U. S. GOVERNMENT PRINTING OFFICE 6-7149

Year or Partion MEAN ACRIF-
FEAR 88,630



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							3780	10900	18500	10500		
2							4240	11000	15700	10500	9650	6320
3							4660	11400	12900	10400	7780	5600
4							5350	12300	11900	9940	7040	5300
5							5630	13200	13200	10000	7040	5250
6							4660	12700	13900	10400	8010	5500
7							4330	11400	13200	9870	9420	5970
8							4220	10500	10900	9260	9640	5970
9							4490	10100	11400	9390	9040	6260
10							4240	10500	12800	9520	8280	6160
11							4070	11200	11600	9140	9460	5400
12							4110	10600	10500	9550	7540	4630
13							4420	9810	9840	10500	7570	4720
14							4990	9710	9870	10600	7750	4270
15							5760	10200	10400	10600	7630	3900
16							6020	11000	11200	10600	7570	3550
17							5530	12200	11200	10500	7630	3260
18							5500	11900	11100	10400	8190	3170
19							5990	11600	11000	10600	8640	3070
20							6510	10700	11300	10900	8460	3000
21							6950	9740	10500	9620	8370	2960
22							7660	9330	10200	9230	8070	2960
23							8160	8890	10100	9650	7780	3040
24							8580	8610	10000	10500	7540	3240
25							8370	8860	9870	10400	7520	4110
26							7400	8740	9710	10400	7660	4050
27							7150	9260	9170	10400	7810	4090
28							7750	9970	9080	10200	8070	4090
29							8980	11300	9680	10000	8010	4110
30						3470	10200	13200	10600	10200	7570	3820
31						3470		16800		10300	7260	2740

MEAN							5,990	10,890	11,580	10,150	8,028	4,350
ACRE- FEET							356,400	669,700	677,000	622,900	493,600	258,900

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3940	3670	2800	2490	2440	2160	4640	12600	18800	11200	10500	7290
2	3790	3630	2810	2530	2360	2160	5220	12700	17600	11200	9150	6500
3	3690	3460	2860	2600	2270	2220	5650	13100	14200	11200	7840	6080
4	3530	3520	2830	2600	2420	2260	6440	14000	13000	10700	7590	5950
5	3520	3590	2800	2580	2440	2240	6940	14900	13400	10600	7960	5920
6	3550	3320	2800	2580	2410	2180	6190	14600	14600	10900	9650	6620
7	3480	3100	2800	2450	2410	2220	5450	13400	14400	11000	10000	6620
8	3520	3050	2880	2420	2390	2280	5170	12400	12700	9980	9780	6850
9	3520	3090	2910	2330	2240	2260	5370	11500	12000	10000	9030	6990
10	3520	3140	2900	2520	2260	2260	5300	11800	13400	10100	8640	6470
11	3440	3100	2860	2680	2200	2260	4950	12600	13200	10000	8180	5470
12	3400	3020	2680	2580	2220	2210	4950	12400	12000	9880	8050	5550
13	3320	3000	2390	2530	2330	2220	5240	11500	11100	10900	8300	5200
14	3290	2980	2270	2520	2330	2260	5790	11100	10800	11200	8210	4790
15	3290	2950	2470	2520	2240	2210	6620	11400	11100	11100	8110	4280
16	3570	2910	2800	2570	2120	2210	7200	12200	11900	11300	8080	3870
17	3890	3030	2680	2570	2150	2240	6820	13400	12500	11100	8390	3690
18	3920	3020	2580	2520	2220	2280	6620	13600	12200	11000	9030	3550
19	3650	2910	2580	2530	2320	2340	7020	13200	12200	11000	9030	3460
20	3480	2910	2580	2500	2210	2440	7710	12600	12300	11400	8870	3400
21	3400	2930	2650	2500	2210	2550	8140	11400	12000	10700	8710	3380
22	3360	2780	2650	2420	2210	2690	8930	10800	11200	9940	8420	3420
23	3320	2680	2570	2280	2160	3020	9610	10400	11000	9910	8180	3500
24	3290	2610	2550	2390	2160	3310	9940	9880	10900	10900	8050	4280
25	3250	2800	2600	2470	2200	3610	10100	10100	10800	10900	8240	4550
26	3190	2830	2520	2470	2220	3830	9060	9810	10700	10900	8210	4580
27	3180	2660	2420	2450	2120	4110	8580	10400	10300	10900	8670	4580
28	3140	2630	2470	2630	2180	4390	8990	10800	9910	10800	8640	4550
29	3160	2660	2680	2530		4440	10200	11900	10000	10500	8390	4550
30	3160	2690	2630	2450		4460	11700	13600	11200	10500	8020	3550
31	3340		2630	2470		4530		16400		10900	7770	

MEAN	3,455	3,022	2,666	2,506	2,266	2,769	7,151	12,270	12,380	10,730	8,571	4,983
ACRE- FEET	212,400	179,800	163,900	154,100	125,800	170,300	425,500	754,700	736,700	659,700	527,000	296,500

YEAR
on
Panama MEAN 6,087
ACRE-Feet 4,406,400



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1970	4370	3110	3350	2510	2360	5860	13800	9830	4500	4240	3040
2	1530	4980	3750	3250	2480	2700	5860	15000	12100	4390	4260	3020
3	1470	4860	3250	3020	2380	2360	6600	15600	10300	4500	3440	2730
4	1290	4800	3390	3730	2080	2420	7160	16000	7840	4470	2480	2450
5	1250	4830	3480	2920	2100	2420	8110	16600	6670	4370	2120	2260
6	1380	4750	3420	2700	2420	2510	8590	16700	7130	4320	2300	1980
7	1750	4500	3420	3270	2170	2420	8730	15600	8110	4950	3870	2120
8	2200	4260	3370	2920	2330	2680	6700	14000	7900	4950	4040	2220
9	2420	4120	3330	2450	2220	3090	6080	11500	6570	4320	3800	2500
10	2850	4120	3370	2160	2190	2910	6050	9430	6730	4140	3350	2730
11	3210	4220	3290	2200	1870	3130	5920	8940	8940	3780	3040	2800
12	3270	4040	3110	2480	2240	2980	5790	9180	8980	3310	2780	2380
13	3230	3820	2550	3290	2260	2980	5860	8380	7390	3110	2750	2500
14	3270	4220	2350	3000	2470	3530	6080	7260	5920	3550	2940	2500
15	3370	4220	2150	2940	2200	3290	6570	6600	5090	3800	2820	2440
16	3590	3900	2400	2750	2220	2870	7330	6400	5060	3730	2820	2380
17	4090	3970	2900	2960	2200	2960	7970	7100	6110	3820	2800	2220
18	4500	3480	3000	2820	2160	3040	7700	8450	7970	3750	2640	2220
19	4610	3590	3050	2680	2190	3090	7700	8870	9120	3660	3060	2030
20	4450	3570	3050	2920	2400	3150	8140	8940	9830	3640	3090	1820
21	4160	3710	3050	3020	2420	3370	8870	8500	10500	3920	3150	1710
22	4190	3260	3050	2850	2400	3660	9470	7700	10100	3990	2980	1580
23	4120	2650	3050	2580	2330	4040	10400	6700	9260	3530	2980	1570
24	3990	2700	3040	2380	2450	4470	11200	5610	8590	3570	2830	1530
25	3970	2550	2900	2240	2500	5000	11800	5090	8070	3820	2830	1920
26	4040	2850	2800	2300	2240	5420	11800	5090	7290	3660	3060	2130
27	3900	2900	2550	2270	2590	5540	11000	4450	6500	3660	3170	2130
28	3900	2850	2300	2320	2160	5610	10400	4520	5390	3590	3620	2150
29	3900	2900	2550	2640		5790	10600	4610	4260	3480	3550	2150
30	3920	3000	3000	2890		5700	12000	5360	3990	3420	3440	2230
31	4040		3350	2800		5640		6730		3730	3230	

Plate No. 29

MEAN	3,220	3,800	3,012	2,777	2,292	3,588	8,211	9,318	7,718	5,917	5,145	2,248
Acres-Foot	198,000	226,100	185,200	170,800	127,300	220,400	488,600	572,600	459,300	240,900	195,300	135,800

U. S. GOVERNMENT PRINTING OFFICE

6-7149

YEAR
MEAN
ACRES-FOOT 3,216,300



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	234					416	180	3	1	1	3
2	12	262					449	188	3	2	3	3
3	13	264					459	268	26	5	2	5
4	13	251					499	191	50	7	1	6
5	15	266					503	71	33	25	1	3
6	30	256					455	29	43	27	2	2
7	110	234					521	34	15	26	2	4
8	204	247					497	40	25	26	2	15
9	263	263					369	15	35	6	2	21
10	280	325					358	3	37	3	3	24
11	338	337					397	4	51	2	2	26
12	388	328					383	30	59	2	2	30
13	421	221					380	39	40	2	1	29
14	418	344					403	49	24	2	1	34
15	403	376					421	50	16	2	1	107
16	405	405					454	24	14	6	1	125
17	417	424					503	21	37	12	1	146
18	428	421					539	22	94	17	1	108
19	419	417					441	23	288	15	2	63
20	445	422					459	18	101	14	3	35
21	412	381					423	22	77	17	3	25
22	405	298					397	17	70	9	2	19
23	379	236					339	13	61	2	2	29
24	364						317	14	58	2	2	27
25	373						297	20	54	2	4	24
26	345						280	13	50	2	5	26
27	263						219	14	20	1	4	24
28	219						122	11	10	1	3	26
29	208						419	7	2	1	2	24
30	212						445	4	1	1	2	32
31	223						459	3		1	2	

No Record during ice period
Nov. 24 - Mar. 23

	(1-23rd)		(24-31)							
MEAN	272	314	390	384	46.4	48.6	7.77	2.10	34.8	
ACRE-Feet	18,750	14,300	6,200	22,850	2,850	2,770	478	129	2,070	

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	175	3890	3350	3160	2580	2060	5680	10400	3400	670	866	805
2	187	4370	3260	3040	2400	2060	5700	11700	6620	835	1150	691
3	268	4760	3590	3110	2290	2300	6160	12400	7340	820	1050	768
4	280	4710	3570	2790	2060	2220	6720	12400	4940	805	947	820
5	336	4650	3690	3230	2000	2200	7340	12400	3540	850	812	768
6	504	4610	3590	2830	2120	2260	8270	12700	3180	740	733	649
7	628	4450	3670	2710	2120	2410	7800	12300	4170	990	1290	492
8	1030	4270	3550	2610	2050	2290	6980	11200	4570	1510	1500	390
9	1570	4040	3550	2240	2000	2400	6460	8790	4250	1130	1390	355
10	2010	4060	3570	2010	1820	2610	6190	6670	3370	812	1080	609
11	2480	4080	3540	1960	1960	2660	6160	5680	4760	504	1020	733
12	2830	4250	3300	2290	1850	2850	5820	5840	6280	296	775	740
13	2950	3600	2660	2720	1940	2930	5660	5770	4990	184	552	1110
14	2910	4100	2330	2950	2060	2820	5840	4750	3210	166	628	1120
15	3040	4490	2000	2910	1980	2880	6100	3730	1940	166	450	1090
16	3260	4430	2170	2820	1890	2880	6770	3500	1640	284	292	1120
17	3670	4290	2610	2580	2020	2830	7490	3280	2090	288	223	1080
18	4230	4040	3080	2850	1990	2960	7800	4100	4210	272	200	964
19	4530	3830	3280	2800	2160	2980	7460	5340	6510	190	181	882
20	4490	3830	3040	2800	2130	3040	7560	5570	7460	178	272	670
21	4310	3830	3280	2790	2110	3100	7900	5540	7980	272	365	576
22	4080	3620	3160	2740	2080	3380	8490	4530	8110	656	370	450
23	4040	2770	3010	2660	2060	3640	9050	3210	7130	828	456	417
24	3930	2630	3320	2290	2130	4020	9990	2530	6300	761	576	380
25	3830	2460	2980	1890	2340	4650	10400	1780	5700	956	504	336
26	3930	2610	2870	1880	2200	5090	10800	1620	4920	663	628	406
27	3730	2910	2630	1940	2200	5400	10200	1300	3740	649	642	380
28	3590	2830	2290	2240	2130	5380	8850	972	2610	670	805	318
29	3590	2880	2130	2290		5770	8190	874	1350	649	981	318
30	3590	3010	2950	2670		5770	8540	947	782	528	947	336
31	3730		3010	2820		5680		1630		635	842	

MEAN	2701	3810	3065	2601	2095	3359	7548	5918	4570	612	727	659
ACRE- FEET	166,100	226,700	188,500	159,900	116,400	205,300	449,000	563,900	271,900	37,600	44,680	39,220

U. S. GOVERNMENT PRINTING OFFICE

8-7110

YEAR
or
Period

MEAN 3,134
ACRE-Feet 2,269,200



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	680,650	918,340	1225,060	1492,360	1637,700	1674,780	1680,380	1702,240	1508,070	1330,180	856,710	411,640
2	677,330	931,690	1233,210	1501,790	1639,910	1670,870	1687,110	1707,280	1504,930	1313,820	846,510	398,050
3	677,000	942,220	1237,530	1508,070	1641,570	1666,450	1692,150	1712,330	1501,270	1300,540	833,940	390,620
4	676,670	955,990	1249,040	1518,170	1642,120	1659,810	1690,470	1711,760	1495,510	1283,490	820,320	380,350
5	673,020	971,010	1256,710	1526,690	1643,230	1654,290	1700,000	1705,600	1486,080	1270,350	806,610	370,580
6	672,690	982,280	1264,010	1532,550	1644,890	1648,760	1701,120	1713,470	1476,130	1255,750	788,820	358,750
7	672,350	994,690	1271,320	1537,870	1646,550	1648,760	1698,320	1717,460	1467,760	1243,760	778,320	350,690
8	673,020	1007,570	1280,090	1542,660	1648,200	1658,160	1691,590	1722,020	1459,900	1231,290	762,810	340,920
9	674,680	1018,720	1286,420	1547,990	1648,760	1668,110	1684,310	1719,170	1451,620	1219,300	749,520	331,900
10	677,670	1029,970	1295,670	1552,240	1650,970	1673,660	1682,060	1717,460	1446,990	1206,400	735,120	321,220
11	679,990	1041,860	1308,870	1555,970	1650,970	1669,210	1677,580	1716,890	1439,790	1191,800	719,670	312,590
12	684,380	1048,900	1318,770	1559,170	1652,630	1664,240	1669,760	1710,080	1434,650	1176,260	706,590	304,090
13	692,920	1061,230	1329,170	1562,360	1652,070	1658,710	1668,110	1703,920	1433,110	1160,280	690,530	296,050
14	701,120	1074,080	1337,580	1566,710	1654,290	1654,290	1671,970	1698,320	1427,960	1142,760	678,010	288,420
15	711,030	1083,550	1343,030	1572,680	1654,290	1649,860	1677,580	1689,910	1416,650	1125,700	660,730	285,750
16	721,780	1093,920	1349,960	1578,120	1656,500	1644,890	1689,910	1679,260	1405,340	1106,990	645,550	281,520
17	734,770	1105,640	1357,430	1583,010	1657,600	1641,570	1694,400	1670,320	1394,750	1091,660	628,150	278,410
18	748,110	1116,480	1366,000	1587,900	1658,710	1641,020	1701,120	1661,470	1383,660	1077,680	611,540	275,510
19	761,730	1125,240	1376,090	1592,790	1659,810	1641,570	1707,840	1646,550	1383,150	1060,790	594,660	272,170
20	776,150	1128,930	1386,680	1596,590	1660,920	1642,120	1712,330	1647,650	1384,660	1036,570	578,310	268,920
21	789,930	1140,450	1396,260	1600,940	1662,580	1643,230	1711,200	1639,360	1388,700	1024,300	560,440	265,460
22	803,280	1149,210	1405,340	1605,830	1664,240	1645,440	1708,400	1629,960	1392,730	1008,420	545,300	261,140
23	815,880	1157,510	1414,600	1609,640	1665,340	1648,200	1706,720	1624,990	1391,220	990,400	528,580	257,030
24	828,600	1164,490	1423,340	1613,440	1666,450	1650,970	1703,920	1617,250	1393,240	975,180	514,240	254,860
25	840,800	1172,960	1430,020	1616,700	1667,550	1654,840	1710,640	1608,010	1386,180	960,580	501,430	253,560
26	854,140	1182,380	1440,820	1618,910	1669,760	1658,710	1711,200	1596,060	1384,160	944,720	480,850	250,970
27	864,490	1191,800	1449,560	1622,220	1671,420	1662,580	1710,080	1581,380	1376,090	929,670	474,740	247,580
28	875,470	1201,690	1455,220	1624,430	1673,660	1667,000	1706,160	1567,250	1368,530	913,490	459,520	247,370
29	886,460	1210,670	1464,090	1628,300		1669,760	1700,000	1553,840	1357,430	897,440	446,320	249,060
30	896,260	1220,260	1473,520	1632,170		1671,970	1699,440	1535,740	1344,020	884,100	433,870	252,050
31	911,470		1483,460	1634,940		1676,460		1521,370		871,940	422,830	

MEAN												
ACRE-												
FEET												

U. S. GOVERNMENT PRINTING OFFICE

6-7149

YEAR OR PERIOD MEAN ACRE- FEET



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5760	1060	2170	954	4420	5080	6480	10800	10300	10600	10400	8970
2	3690	1040	2360	972	4460	7090	6480	10900	10300	10800	10500	8930
3	3340	1050	2640	973	4170	7600	6520	12700	10300	11000	10600	8890
4	3950	1050	2630	1530	4120	8280	7360	15000	10500	11400	10700	8240
5	4010	1000	2680	2490	4160	8320	9420	13000	10700	11400	10800	8280
6	4010	1000	2230	2990	4220	8360	10400	11900	10700	10700	10800	8680
7	3620	1010	2150	2690	4170	908	12300	12000	10400	10500	10900	8440
8	3430	1030	2180	2430	4130	265	12400	14000	10200	10100	11200	8280
9	3490	1020	2180	2450	4170	265	12400	13900	10200	10100	11300	8040
10	3490	1010	654	2810	4170	5580	12300	10400	9710	10500	11300	7920
11	3510	1010	659	3060	4140	8320	12300	10400	9420	11100	11200	8000
12	2120	1040	1200	3200	4270	8320	10800	10300	9420	11300	11100	8000
13	1630	1040	1310	3230	4150	8320	8020	10100	9420	11200	11100	7560
14	1600	1040	1310	3200	4210	8320	5820	10200	9420	11200	11100	6590
15	1220	1050	1310	2080	4200	8280	5820	10600	9670	11100	11000	6300
16	1030	1540	1130	3260	4130	8240	5890	10600	9800	11100	11100	5930
17	675	1850	877	3240	4120	7030	5890	10800	9800	11100	11300	5460
18	331	2650	856	3240	4100	5600	5930	10800	9800	11100	11300	5110
19	270	2690	784	3240	4120	5570	7200	10900	8800	11400	11400	5760
20	270	2690	760	3300	4120	5570	9970	10500	8200	11700	11400	5250
21	270	2630	918	3290	4100	5600	11300	10300	8200	11600	11400	5360
22	270	2010	973	3300	4100	5600	11300	10300	8520	11600	11500	5440
23	270	1430	1400	3300	4110	5570	11300	10100	9050	11600	11300	5020
24	270	1360	1080	3310	4120	5570	11400	9840	9760	11500	10900	4050
25	273	764	1090	3300	4080	6000	12400	10000	10400	11500	10600	4050
26	998	714	678	3290	4030	6440	14000	10700	10700	11500	10400	4040
27	1020	702	1120	3310	4080	6440	14000	10900	10900	11500	10600	3950
28	1020	713	1010	3220	4040	6440	14000	10600	10700	11400	10700	3080
29	1020	720	969	3230		7240	12800	10400	10200	11100	10400	2170
30	1030	1100	962	3480		6480	11200	10400	10400	10600	9500	1170
31	1050		954	4410		6480		10400	10400	9130		

MEAN	1,901	1,300	1,394	2,884	4,158	6,252	9,913	11,090	9,865	11,090	10,870	6,252
ACRE- FEET	116,900	77,580	85,730	176,100	230,900	383,200	589,900	681,800	586,900	681,700	668,500	370,800

U. S. GOVERNMENT PRINTING OFFICE 6-7112

YEAR
or
PERIOD MEAN 6,422
ACRE-FEET 4,649,610

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	79590	70730	64360	66990	69630	71610	75530	95910	93550	95430	95790	94600
2	78580	70840	64360	66550	70070	74970	75650	95910	94370	94840	94950	93320
3	77790	70950	65010	66330	70180	76210	75200	96510	94250	94840	94720	95310
4	77680	69410	66330	66660	70070	77230	73730	95790	93550	94370	94720	95180
5	77110	69960	66110	67650	69740	76890	75200	94250	94250	95910	94720	94840
6	77230	68970	66220	66990	70070	76770	78580	95180	95670	96630	93790	93550
7	77110	68310	65120	67430	69960	72830	80720	95180	97110	97720	94490	94370
8	77900	67870	65670	66550	70510	66770	81620	96630	97110	97840	93900	94370
9	80380	67320	65450	65890	69630	65230	81280	95910	97350	97590	94490	94370
10	82300	66990	65230	65560	69630	65120	82520	95910	98560	96510	94720	93790
11	83770	66990	65230	66330	69850	72940	82190	96270	98080	96390	94600	93200
12	86330	66990	65230	67100	70070	76440	81400	96150	97590	95910	94720	93440
13	85170	67430	65890	68090	69850	77450	84240	95910	97110	96150	94720	93440
14	84010	67540	66330	68750	69850	77450	84940	95670	96630	95910	94840	94370
15	82190	66770	66770	67650	70180	77110	85400	95910	95180	95670	94490	95070
16	81740	66110	66770	66770	69740	76890	89940	94950	95180	94950	94490	95180
17	80720	64580	66770	68090	69850	76770	91230	95670	95070	95430	94020	94600
18	79480	63370	66220	68750	69850	74630	92160	95670	95670	95670	93670	93550
19	77680	61940	66110	68970	69960	74070	91340	94250	98080	95180	94020	93200
20	75980	61830	65670	68970	70070	73840	94720	96150	97840	93900	94490	92620
21	74070	64360	65450	69410	70950	73620	95310	95670	97590	95550	93900	91810
22	72600	66110	65450	68970	71610	73390	94840	95430	96630	95670	94250	90990
23	71500	66440	65670	69080	71390	73390	94250	95910	94720	95790	94950	90290
24	70510	67210	66330	69190	71500	73390	94020	95310	95070	96390	95070	88200
25	69190	67430	65780	68970	71500	73170	95180	94490	93550	97110	94490	87270
26	69190	66990	66330	69080	71830	73840	95430	94020	94950	97350	94720	86330
27	69410	66880	65890	69190	71500	73840	95070	94250	95910	97470	94600	84940
28	69960	66660	65890	69190	71610	74290	94720	94950	97230	97110	94600	82860
29	69960	66550	66330	68530		74520	94720	95180	96990	97350	95180	80490
30	70510	66220	66440	68090		75200	95910	94020	95910	97590	95310	76770
31	71170		66550	68750		74970		94250		96510	95310	

Mean												
Acres												
Feet												

U.S. GOVERNMENT PRINTING OFFICE 6-2112

YEAR OR PERIOD _____ MEAN _____
ACRES-FEET _____



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	953	314	212				73	1470	1500	1600	1320	1150
2	953	314	212				125	1500	1500	1610	1270	1120
3	901	314	212				199	1500	1470	1610	1300	1120
4	802	312	214				275	1580	1420	1600	1330	1130
5	728	312	214				278	1610	1400	1520	1360	1120
6	701	312	214				342	1610	1390	1440	1360	1120
7	701	311	214				447	1610	1340	1440	1350	1150
8	488	311	214				500	1620	1310	1440	1300	1150
9	328	311	214				500	1610	1280	1440	1310	1120
10	330	310	214				593	1610	1220	1500	1330	1120
11	331	310	214				751	1610	1190	1580	1420	1110
12	334	308	215				815	1580	1190	1610	1520	1030
13	333	308	216				824	1510	1220	1600	1540	890
14	330	306	135				757	1560	1310	1600	1540	749
15	330	305	0				701	1610	1330	1540	1540	749
16	328	304	0				713	1620	1270	1500	1540	749
17	326	302	0				764	1620	1090	1500	1540	747
18	326	301	0				837	1620	1010	1500	1540	747
19	322	299	0				955	1580	953	1560	1540	745
20	318	299	0				1070	1510	905	1600	1540	743
21	316	302	0				1190	1510	960	1610	1540	741
22	314	304	0				1320	1500	1080	1610	1540	738
23	314	248	0				1390	1400	1180	1610	1510	736
24	311	216	0				1390	1340	1320	1610	1480	730
25	311	216	0				1460	1330	1360	1610	1480	728
26	311	216	0				1530	1360	1440	1600	1410	760
27	311	215	0				1620	1440	1510	1600	1310	783
28	312	214	0				1670	1450	1580	1600	1310	795
29	312	214	0				1650	1490	1600	1560	1310	815
30	312	214	0				1560	1500	1600	1470	1310	766
31	314		0					1500		1430	1250	

Dry Dec. 15 to Mar. 31

MEAN	439	284	94.0				877	1528	1298	1552	1417	905
ACRE- FEET	26,980	16,900	5,780	0	0	0	52,160	93,940	77,210	95,400	87,150	53,850

U. S. GOVERNMENT PRINTING OFFICE

0-7149

YEAR
OR
PERIOD

MEAN 704
ACRE-Feet 509,400



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	630	164					0	1140	1180	1220	983	1110
2	620	164					0	1090	1150	1210	1010	1020
3	526	154					0	1090	1040	1170	931	973
4	478	147					0	1100	1000	1050	916	973
5	424	146					0	1130	1050	1040	928	1050
6	365	145					0	1080	1060	860	949	1070
7	301	144					0	1000	998	807	1060	1070
8	260	142					0	983	949	815	1120	1020
9	250	144					0	1060	878	916	1150	922
10	250	144					0	1090	801	1060	1230	916
11	226	144					108	1110	821	1180	1240	934
12	206	144					313	1130	869	1240	1250	901
13	206	142					293	1130	913	1240	1250	678
14	206	142					329	1200	925	1240	1240	519
15	205	137					308	1270	955	1190	1240	424
16	204	132					276	1270	884	1130	1250	385
17	204	130					324	1220	752	1190	1260	350
18	180	127					363	1240	603	1260	1260	365
19	165	127					399	1230	559	1240	1260	501
20	147	129					454	1180	612	1250	1260	533
21	147	136					593	1080	655	1250	1260	547
22	154	142					673	1090	645	1210	1270	581
23	147	59					728	1100	658	1070	1270	591
24	145	0					784	1060	793	1130	1250	581
25	146	0					875	1060	815	1190	1240	579
26	146	0					1020	1110	958	1170	1180	567
27	146	0					1110	1180	1030	1240	1140	569
28	157	0					1110	1210	1030	1220	1130	645
29	164	0					1160	1230	1100	1090	1130	635
30	164	0					1200	1250	1170	980	1130	610
31	164							1250		989	1160	

Dry Nov. 24 to Apr. 10

MEAN	249	106					414	1141	895	1124	1164	721
ACRE- FEET	15,340	6,320	0	0	0	0	24,630	70,140	53,280	69,120	71,600	42,880

YEAR
MEAN 488
ACRE-FEET 553,200

Daily discharge, in second-feet, of

SNAKE RIVER NEAR MINIDOKA, IDAHO

for the year ending September 30, 1914

Plate No. 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3300	710	2550	1130	4160	4300	6550	8310	7930	7850	8360	6580
2	2930	721	2060	1120	4330	6060	6740	8340	7820	7960	8360	6720
3	2260	874	2160	1120	4400	7070	6480	9350	7660	8170	8310	6530
4	2300	1110	2260	1160	4360	8310	6060	12200	7690	8360	8230	6320
5	2630	1090	2430	2480	4290	8470	8060	11000	7820	8200	8150	5680
6	2750	1090	2580	2950	4310	8250	9030	9230	7770	8010	8340	6690
7	2670	1020	2310	2990	4310	6240	10700	9380	7710	7880	8250	6450
8	1980	829	2140	3060	4510	2510	11500	11000	7660	7900	8310	6240
9	1670	811	2060	2910	4270	1140	11800	12000	7820	8010	8440	6190
10	1630	698	1030	2720	4270	2040	12500	7850	7580	8060	8390	6190
11	1670	693	644	2740	4220	5440	11900	7900	7550	8250	8280	6190
12	1630	698	733	2810	4290	7820	9610	7800	7630	8420	8230	6010
13	1590	688	887	3080	4360	8400	6450	7470	7520	8250	8090	5760
14	1620	693	1050	3300	4290	8400	4600	7630	7420	8280	8040	5320
15	1600	970	1290	3200	4290	8440	4160	7800	7520	8280	8060	4850
16	1380	1440	1270	3120	4300	8360	3860	7710	7550	8360	8060	5060
17	1120	2260	1220	3340	4300	8310	4050	7900	7710	8250	8230	4850
18	817	2860	1180	3380	4310	6980	4310	8150	7710	8150	8310	4420
19	721	2770	1140	3470	4330	6450	4960	8010	7090	8170	8200	4380
20	733	1680	1090	3570	3970	6320	7070	7960	6800	8720	8170	4510
21	757	1400	1080	3420	3950	6160	9490	7610	6880	8470	8280	4690
22	660	1200	1070	3380	4200	6040	9380	7740	7090	8360	8280	4800
23	511	1140	1080	3320	4200	5910	9290	7900	7440	8390	8200	4760
24	516	1040	1120	3510	4290	5860	9000	8060	7610	8420	8090	3470
25	460	963	1140	3470	4300	5910	9350	7980	8060	8310	8040	3220
26	416	763	1120	3490	4300	6370	11400	8170	7800	8360	8010	3200
27	478	763	1100	3490	4300	6480	11400	8060	7580	8420	8010	3240
28	469	710	1090	3660	4300	6580	11200	7740	7550	8310	7980	3260
29	483	698	1040	3760		6530	10400	7550	7580	8200	7820	3010
30	455	1230	1060	3700		6580	8610	7740	7710	8170	7170	2700
31	541		1090	3890		6500		7850		8280	6580	

MEAN	1579	1120	1422	2992	4275	6595	8250	8498	7575	8255	8105	5045
ACRE-FOOT	84,790	66,670	87,420	163,900	237,400	393,200	495,700	532,400	450,800	508,300	498,400	300,100

YEAR 1914
MEAN 5,288
ACRE-FOOT 3,828,000

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10.74	8.21	7.52	7.52	7.37	7.36	7.58	10.94	10.72	10.84	10.78	10.90
2	11.00	8.13	7.46	7.48	7.44	7.34	7.92	10.94	11.00	10.70	10.81	10.72
3	11.09	8.46	7.59	7.38	7.50	7.40	8.09	10.96	11.02	10.76	10.83	10.84
4	10.90	8.21	7.58	7.42	7.50	7.44	8.12	10.91	10.83	10.76	10.79	10.83
5	10.56	8.26	7.33	7.50	7.44	7.45	8.37	10.82	10.74	11.07	10.74	10.88
6	10.36	7.98	7.60	7.58	7.42	7.54	9.48	10.89	10.84	11.06	10.54	10.78
7	10.15	7.77	7.50	7.52	7.45	7.42	9.96	10.85	10.92	11.04	10.74	10.92
8	10.01	7.48	7.60	7.30	7.56	7.40	10.60	10.92	10.94	10.90	10.74	10.88
9	9.64	7.26	7.29	7.36	7.10	7.48	10.24	10.92	10.80	10.85	10.79	10.84
10	9.28	7.42	7.36	7.42	7.34	7.42	10.74	10.90	10.94	10.82	10.82	10.77
11	8.88	7.50	7.42	7.37	7.63	7.46	10.72	10.83	10.84	10.72	10.95	10.74
12	8.95	7.40	7.20	7.42	7.52	7.39	10.74	11.11	10.81	10.84	11.03	10.82
13	8.88	7.62	6.96	7.36	7.57	7.32	10.73	11.00	10.86	10.84	11.02	10.84
14	8.89	7.78	6.74	7.34	7.52	7.40	10.84	10.87	10.85	10.85	10.90	10.88
15	8.94	7.80	6.82	7.32	7.38	7.38	10.54	10.85	10.56	10.84	10.78	11.03
16	9.04	7.80	7.12	7.40	7.56	7.38	10.76	10.74	10.62	10.75	10.75	10.99
17	9.18	6.89	7.32	7.18	7.42	7.41	10.82	10.84	10.44	10.84	10.60	10.94
18	9.28	7.34	7.44	7.46	7.44	7.42	10.80	10.93	10.82	10.84	10.58	10.84
19	9.20	8.07	7.52	7.44	7.40	7.41	10.70	10.72	11.15	10.78	10.68	10.67
20	9.06	8.46	7.58	7.40	7.42	7.44	10.78	11.03	11.00	10.56	10.74	10.48
21	9.16	9.05	7.56	7.52	7.36	7.42	10.94	11.02	10.84	10.75	10.72	10.36
22	9.34	9.02	7.48	7.42	7.44	7.40	10.96	10.64	10.75	10.82	10.80	10.32
23	9.60	9.22	7.51	7.33	7.47	7.41	10.94	10.62	10.52	10.82	10.90	10.30
24	9.84	9.22	7.50	7.40	7.43	7.36	10.93	10.61	10.66	10.76	10.88	10.32
25	10.08	9.08	7.30	7.46	7.34	7.41	10.91	10.77	10.64	10.90	10.84	10.45
26	10.25	8.90	7.34	7.40	7.48	7.44	10.94	10.82	10.97	10.94	10.88	10.44
27	9.50	8.67	7.49	7.52	7.49	7.45	10.92	10.92	11.00	11.00	10.91	10.35
28	9.18	8.47	7.52	7.44	7.44	7.54	10.92	11.00	10.99	11.02	10.95	10.28
29	8.80	8.26	7.52	7.48		7.44	10.90	10.99	10.97	10.95	10.98	10.50
30	8.44	8.00	7.54	7.42		7.36	10.90	10.67	10.80	10.84	10.92	10.66
31	8.30		7.54	7.40		7.36		10.73		10.76	10.95	

Plate No. 26

MEAN												
ACID-												
FREE												

YEAR OR PERIOD _____
 MEAN ACID-FREE _____



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0						0	60	60	60	59	59
2	0						0	60	60	60	59	59
3	0						0	60	60	60	59	59
4	0						0	60	60	60	59	59
5	0						0	60	60	60	59	59
6	0						0	60	60	60	59	59
7	0						0	60	54	60	59	59
8	0						0	60	40	60	60	59
9	0						0	60	60	60	60	59
10	0						0	60	60	60	60	59
11	0						0	60	60	59	60	59
12	0						0	60	60	59	60	59
13	0						0	60	60	59	60	60
14	0						0	60	60	59	60	60
15	0						0	60	60	59	60	60
16	0						0	60	60	59	60	60
17	0						0	60	60	59	60	60
18	0						0	60	60	59	60	60
19	10						20	60	60	59	60	15
20	18						26	60	60	59	60	0
21	10						40	60	60	59	60	0
22	0						47	60	60	59	60	0
23	0						51	60	60	59	60	0
24	0						53	60	60	59	60	0
25	0						55	60	60	59	60	0
26	0						60	60	60	59	59	0
27	0						60	60	60	59	59	0
28	0						60	60	60	59	59	0
29	0						60	60	60	59	59	0
30	0						60	60	60	59	59	0
31	0											

Dry except on days for which discharge is shown.

MEAN	1.25					17.7	60.0	59.1	59.5	59.8	58.1
ACRE- FEET	75					1060	3690	3520	3650	3660	2270

YEAR 1925
MEAN 24.8
ACRE-FEET 17,925



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	102	151	150	163	123
2							0	125	152	160	162	123
3							0	154	152	159	163	123
4							0	151	153	160	163	123
5							0	152	153	161	164	123
6							0	156	153	161	163	123
7							0	157	153	162	162	123
8							0	154	152	161	163	123
9							0	152	152	162	162	123
10							0	151	150	160	166	123
11							0	148	149	162	165	123
12							15	150	148	162	162	123
13							26	150	148	123	163	123
14							9	150	148	151	165	123
15							0	150	147	160	165	123
16							23	150	137	124	165	124
17							51	150	135	157	165	124
18							52	144	124	165	165	124
19							71	150	123	164	165	124
20							87	150	124	164	165	124
21							100	150	123	164	164	123
22							100	150	123	164	163	123
23							100	150	123	164	164	123
24							102	151	123	164	165	123
25							102	150	142	164	166	123
26							102	150	148	164	166	123
27							102	150	147	165	166	123
28							93	150	145	164	166	123
29							51	151	145	162	166	123
30							102	151	146	162	166	123
31								151		162	152	

MEAN	0	0	0	0	0	0	43.9	148	148	159	164	128
ACRE- FEET	0	0	0	0	0	0	2,550	9120	8470	9770	10,080	7,530



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0					0	1280	1160	1190	1360	950
2		0					0	1280	1170	1200	1360	1000
3		0					0	1280	1160	1210	1360	1000
4		0					0	1280	1160	1230	1360	1000
5		0					0	1280	1160	1270	1320	990
6		0					0	1270	1160	1290	1190	970
7		0					0	1260	1160	1290	1200	970
8		0					0	1280	1160	1280	1200	960
9		0					0	1280	1160	1290	1200	940
10		0					120	1280	1160	1280	1200	940
11		0					326	1280	1160	1290	1200	940
12		0					486	1290	1160	1290	1200	940
13		0					610	1280	1160	1290	1190	940
14		0					620	1280	1160	1300	1190	930
15		95					620	1250	1150	1310	1190	910
16		455					620	1220	1160	1310	1210	910
17		438					620	1230	1150	1310	1210	900
18		456					620	1230	1160	1310	1230	890
19		465					610	1210	1160	1300	1230	890
20		196					720	1200	1160	1290	1230	880
21		0					850	1200	1150	1300	1230	860
22		0					850	1190	1150	1290	1240	890
23		0					890	1190	1150	1290	1230	890
24		0					980	1190	1160	1290	1230	900
25		0					990	1170	1170	1290	1230	900
26		0					990	1160	1180	1290	1230	900
27		0					1000	1170	1180	1330	1230	900
28		0					1050	1170	1180	1350	1220	890
29		0					1120	1170	1170	1350	1220	890
30		0					1160	1160	1170	1350	1080	880
31		0						1160		1350	880	

Dry except on days for which discharge is given

MEAN	0	70.2	0	0	0	0	528	1251	1162	1291	1221	889
ACRE-Feet	0	4180	0	0	0	0	51,440	75,710	69,120	79,360	75,070	52,880



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	940											
2	844						0	800	820	890	940	750
3	791						0	800	820	930	950	620
4	867						0	800	820	930	950	630
5	867						0	800	810	940	950	630
6	872						0	790	810	950	950	630
7	867						0	800	810	940	940	630
8	861						0	790	810	940	950	630
9	856						0	800	810	940	950	630
10	801						0	800	800	950	950	630
11	806						287	800	810	950	950	630
12	789						392	800	810	950	940	630
13	388						404	810	810	940	940	630
14	0						430	810	810	950	940	630
15	0						430	810	800	940	940	630
16	0						430	810	800	940	950	620
17	0						430	820	810	940	950	620
18	0						430	820	800	950	940	620
19	0						440	830	810	950	950	620
20	0						440	830	820	950	950	610
21	0						440	840	810	950	940	610
22	0						440	830	800	950	940	600
23	0						440	820	800	950	940	600
24	0						440	820	790	950	940	600
25	0						440	820	800	940	940	390
26	0						460	820	810	950	940	290
27	0						610	830	820	950	940	290
28	0						620	830	820	950	950	290
29	0						620	830	820	940	950	290
30	0						620	830	820	940	940	440
31	0						700	820	810	940	950	740
								820		930	930	

dry Oct. 14 to Apr. 9

Plate No. 47

MEAN	540	0	0	0	0	0	0	551	814	810	943	945	572
ACRE-FT	20,920	0	0	0	0	0	0	19,820	50,040	48,180	57,940	58,080	34,040

YEAR 1950
MEAN 599
ACRE-FT 288,920



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	614	406	421	391	391	391	2460	2530	2420	2590	1770
2	0	608	403	418	391	391	391	2480	2530	2420	2590	1860
3	0	621	409	415	391	391	305	2470	2530	2490	2580	1830
4	0	595	391	415	394	394	271	2420	2520	2500	2570	1820
5	0	595	379	415	394	394	276	2420	2540	2490	2570	1790
6	0	595	424	418	394	397	346	2430	2550	2490	2510	1770
7	0	601	439	412	394	394	529	2470	2540	2490	2490	1770
8	0	582	442	406	394	385	644	2490	2520	2440	2520	1730
9	0	569	433	409	394	391	1280	2490	2500	2430	2580	1710
10	0	575	436	400	394	394	1270	2520	2490	2420	2580	1720
11	0	569	436	394	394	397	908	2540	2490	2460	2540	1730
12	0	563	424	394	394	394	853	2540	2500	2550	2530	1740
13	524	569	415	394	394	391	842	2530	2480	2550	2530	1700
14	799	556	409	391	394	391	850	2540	2450	2540	2570	1630
15	756	547	415	391	394	391	853	2550	2450	2510	2580	1610
16	745	553	433	391	394	394	926	2530	2450	2530	2560	1560
17	714	518	442	388	391	391	998	2550	2380	2580	2550	1550
18	700	534	433	400	391	391	1170	2550	2290	2560	2560	1470
19	703	556	421	400	391	391	1400	2520	2270	2550	2540	1380
20	734	543	418	400	391	391	1580	2520	2230	2580	2520	1350
21	724	566	418	394	391	391	1600	2510	2280	2610	2520	1300
22	559	543	415	385	391	391	1780	2500	2320	2560	2550	1280
23	172	531	418	388	391	391	2040	2520	2360	2550	2520	1260
24	129	512	418	388	394	388	2140	2530	2370	2540	2490	364
25	133	500	412	391	388	424	2140	2540	2380	2540	2480	0
26	129	460	415	385	391	439	2160	2550	2450	2540	2510	0
27	459	394	424	391	391	457	2260	2530	2460	2540	2530	0
28	621	355	415	391	391	494	2400	2530	2460	2580	2490	0
29	614	340	412	391		490	2410	2530	2460	2620	2440	0
30	614	373	412	391		424	2430	2540	2450	2580	2180	0
31	611		421	394		403		2530		2570	1680	

Mean	337	535	419	399	392	404	1247	2511	2441	2524	2498	1258
Acres-Feet	20,710	31,310	25,760	24,520	31,790	24,860	74,210	154,400	145,200	155,200	153,600	74,760

YEAR _____ MEAN 1,252
 ACRES-FEET 806,820



SOUTH SIDE TRAM PAID CANALS

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Plate No. 119
1	2220	25	619	594	544	580	752	3260	3400	3440	3560	3500	
2	2210	25	610	590	533	559	793	3320	3400	3460	3560	3480	
3	2120	370	622	582	567	559	933	3380	3400	3470	3560	3480	
4	2050	622	610	586	578	577	1040	3390	3400	3470	3560	3500	
5	1940	913	619	592	574	589	1160	3390	3400	3470	3570	3480	
6	1880	958	622	597	575	568	1280	3390	3400	3470	3580	2240	
7	1790	947	616	595	565	556	1320	3400	3400	3460	3590	3070	
8	1600	816	616	579	571	553	1320	3400	3380	3450	3590	3340	
9	1520	260	622	584	465	553	1400	3400	3380	3460	3590	3250	
10	1360	20	625	587	505	559	1460	3360	3360	3460	3590	3360	
11	1290	20	616	583	543	562	1520	3360	3350	3450	3600	3320	
12	1290	20	613	587	555	559	1830	3360	3310	3480	3590	3320	
13	1220	20	610	582	554	562	2080	3360	3260	3480	3590	3030	
14	1180	20	607	583	563	565	2070	3370	3250	3480	3590	2780	
15	1120	15	604	584	553	556	1880	3370	3240	3490	3590	2670	
16	1090	597	601	579	566	571	1880	3360	3240	3490	3580	1890	
17	958	1290	598	559	580	562	1910	3370	3180	3490	3590	2360	
18	748	1100	595	584	586	556	2090	3380	3170	3510	3590	2260	
19	678	816	589	587	583	553	2350	3360	3080	3490	3590	2000	
20	357	601	592	589	582	553	2570	3380	3000	3490	3610	1960	
21	28	601	595	595	584	553	2680	3390	2970	3500	3620	1970	
22	25	607	598	592	592	553	2820	3400	2970	3500	3620	1960	
23	25	604	595	565	593	553	2920	3410	3050	3500	3620	1970	
24	25	610	595	583	592	553	3130	3410	3180	3530	3610	1970	
25	25	604	598	592	585	589	3380	3410	3320	3550	3590	1960	
26	1070	604	595	585	590	613	3410	3420	3430	3550	3590	1910	
27	1070	616	595	598	592	421	3340	3410	3400	3510	3590	1870	
28	622	619	595	585	568	25	3300	3390	3400	3530	3590	1870	
29	619	619	595	588		25	3370	3380	3400	3550	3590	1870	
30	196	622	595	586		104	3430	3400	3400	3550	3570	1810	
31	25		595	576		587		3400		3550	3530		

MEAN	1044	519	605	585	566	511	2114	3380	3283	3494	3588	2531
ACRE-Feet	64,179	30,980	37,200	36,000	31,420	31,390	125,600	207,800	195,400	214,800	220,800	150,000

YEAR 1911
MEAN 1,859
ACRE-Feet 1,546,040



Daily discharge, in second-feet, of

Plate No. 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	272	421	1910	307	2930	3580	5220	988	8	7	9	9
2	285	453	1560	307	3260	4260	5600	479	9	7	9	9
3	277	483	1320	304	3460	5930	5330	798	11	6	9	9
4	555	475	2130	304	3560	6780	4270	4190	7	6	9	10
5	982	483	1650	763	3350	7780	4600	3410	6	18	9	9
6	1230	479	1880	2260	3350	8020	7200	1140	6	15	9	9
7	1290	483	1800	2480	3370	6610	7280	1660	6	13	8	9
8	949	479	1950	1580	3580	3190	9230	2570	6	8	8	9
9	918	479	1580	2290	3020	1110	8280	4630	6	7	8	9
10	875	475	656	2270	2910	276	9730	1110	6	7	11	9
11	618	475	394	1980	3820	3590	9580	47	6	7	12	9
12	280	479	307	2190	3900	6470	7050	58	6	7	13	9
13	269	479	307	1990	3750	7740	3520	26	6	9	10	9
14	267	475	304	2710	3960	8150	922	20	6	8	10	11
15	269	475	307	2240	3410	7990	922	20	5	8	9	244
16	264	475	304	2020	3920	7690	1020	15	5	7	8	282
17	267	464	304	1900	3680	7900	144	72	5	7	8	282
18	267	483	307	2410	3530	6910	97	277	6	7	8	280
19	267	479	307	2800	3250	5790	92	269	27	8	8	280
20	267	457	307	2540	3490	5670	480	269	12	8	8	280
21	261	472	307	2740	3300	5550	3820	267	7	9	8	293
22	269	472	307	2570	3330	5330	3410	267	6	9	8	324
23	264	491	307	2400	3460	5280	2960	267	6	9	8	324
24	269	518	307	2540	3460	5110	2110	267	6	9	9	326
25	272	526	301	2750	3410	5060	2360	277	6	9	9	324
26	288	518	304	2520	3470	5330	4130	282	7	9	8	326
27	288	518	310	2840	3630	5810	4450	282	9	11	11	326
28	344	518	304	2750	3630	6450	4120	33	8	15	9	324
29	421	518	304	2950		6230	2960	16	9	11	9	324
30	425	633	304	3000		6290	1460	10	7	10	9	
31	425		304	2960		5300		8		9		

MEAN	458	488	740	2118	3471	5715	4078	775	7.5	9.0	9.0	158
Acum- Pres	28,150	29,050	45,510	130,200	192,800	551,400	242,700	47,650	448	555	555	9,910

YEAR 1910
MEAN 1.490
Acum-Pres 1,078,908



Daily discharge, in acre-feet, of

HEBBS LAKE BEAR LAKE, IDAHO

for the year ending September 30, 1933

Plate No. 467

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3											53,188	
4												
5												
6												
7												49,555
8									51,428	53,418		
9										53,418		
10												
11	25,864											
12												
13												
14												
15											51,077	
16												
17												
18												
19												
20										52,774		
21												
22												
23												49,204
24												
25												
26												
27												
28									49,848			
29												
30												
31												

MEAN												
ACRE-												
FEET												

U. S. GOVERNMENT PRINTING OFFICE 6-2159

YEAR OR PERIOD MEAN ACRE-FOOT



For the year ending September 30, 19__

Plate No. 47

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4											25	
5												
6												
7												
8												
9									7	32		
10									23	29		20
11	8								36			
12												
13												
14												
15												
16											24	
17												
18												
19												
20												
21										16		
22												
23												
24												20
25												
26												
27												
28												
29								7				
30												
31												

Gates at dam were not regulated except on June 8 when discharge was raised from 7 to 36 Sec. Ft.

MEAN	3	3	3	3	3	3	4	6	27.4	23.9	26.3	20.1
ACRE-Feet	184	179	184	184	167	184	238	369	1630	1470	1610	1200

YEAR 19__
MEAN 10.5
ACRE-Feet 2609



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			12250	33940	55465	74740	95630	135205	133670	132070	101370	87290
2			12910	34630	56055	75965	96620	136095	133350	131670	100015	65945
3			13875	35425	56650	76360	97410	136420	133030	131670	99010	64580
4			14440	36120	57380	76805	98275	136665	132950	131275	97675	63280
5			15060	36835	58605	77655	99345	136905	132870	131115	96685	61870
6			15720	37615	59095	78400	100220	136905	132870	131195	95695	60720
7			16480	38185	59735	79095	101165	136745	132790	131275	94390	59450
8			17375	38935	60625	79845	101980	136500	132710	131115	93225	58520
9			17900	39675	61130	80430	102870	136340	132790	131035	91810	57420
10			18675	40250	61780	81075	103765	136175	132710	131035	91175	56395
11			19425	41110	62385	81665	104665	135610	132790	130245	89910	55340
12			20155	41670	63090	82435	105360	135530	132790	129695	88965	54260
13			20830	42395	63805	83150	106685	135630	132710	128830	88030	53650
14			21310	42975	64725	83870	107595	135450	132470	127865	87100	53045
15		0	21815	43730	65405	84475	108660	135205	132470	126875	86880	52925
16		882	22595	44630	66095	85140	109585	135125	132590	125320	85930	52685
17		1897	23220	45175	66840	85685	110655	135285	132710	123860	84840	52565
18		2669	23965	46075	67340	86360	111520	135365	132790	122410	83750	52445
19		3537	24935	46870	68205	86915	112530	135285	132950	120740	82675	52365
20		4128	25650	47205	68870	87595	114205	135205	133110	118860	81420	52285
21		4871	26425	47850	69490	88340	115815	134720	133030	117740	80310	52285
22		5745	27035	48545	70115	89030	117815	134555	132950	116335	79150	52365
23		6130	27750	49250	70800	89660	119760	134640	132790	114865	78115	52445
24		7110	28360	49965	71485	90290	122490	134395	132790	113330	77030	52605
25		7870	29040	50460	72070	90920	125320	134235	132630	111520	76020	52605
26		8465	29810	51075	72935	91620	127675	133910	132550	110440	75020	52725
27		9180	30660	51735	73645	92320	129535	133670	132550	108660	73590	52725
28		9605	31135	52405	74135	93030	131275	133750	132390	106895	72340	52685
29		10640	31870	53325		93675	132550	133670	132310	105150	70955	52605
30		11450	32540	54180		94325	133990	133750	132390	103420	69960	52685
31			33230	54925		95040		133750		102390	68865	

STORAGE BEGAN NOV. 15

Year												
Acres												
Feet												

YEAR OR PERIOD MEAN ACRES-FOOT



Daily discharge, in second-feet, of

WISCONSIN FURK BEAR ISLAND DAM

Year 1907

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	444	522	1	3	7	8	11	835	517	645	1000	1130
2	444	531	1	3	7	8	11	952	503	569	1010	1130
3	444	531	1	3	7	8	11	1030	498	531	1010	1130
4	432	512	1	4	7	8	11	1070	494	494	1020	1120
5	419	484	1	4	7	8	11	1080	470	475	1010	1120
6	419	470	1	4	7	8	11	1110	465	484	1010	1030
7	419	465	1	4	8	8	11	1080	465	475	1010	989
8	487	470	2	4	8	8	11	1030	465	484	1010	984
9	523	475	2	5	8	8	11	999	470	559	1010	984
10	462	416	2	5	8	8	11	963	470	564	1010	978
11	449	512	2	5	8	8	11	921	470	569	1010	978
12	440	376	2	5	8	8	11	900	484	727	1010	890
13	453	508	2	6	8	9	11	885	489	926	1000	796
14	453	480	2	6	8	9	11	860	465	947	1000	683
15	483	200	2	6	8	9	11	835	494	1020	1000	569
16	581	1	2	6	8	10	11	830	503	1120	1000	522
17	558	1	2	7	8	10	11	850	512	1140	1000	494
18	501	1	2	7	8	10	11	840	531	1140	999	475
19	386	1	2	7	8	10	11	850	541	1140	999	452
20	581	1	2	7	8	10	11	796	550	1140	994	416
21	483	1	2	7	8	10	11	762	545	1140	994	411
22	457	1	2	7	8	10	11	737	541	1140	999	424
23	444	1	2	7	8	10	12	722	531	1140	994	429
24	444	1	2	7	8	10	12	683	489	1140	994	434
25	375	1	2	7	8	10	12	650	475	1140	989	434
26	500	1	2	7	8	10	38	611	456	1140	1100	438
27	444	1	2	7	8	10	137	588	442	1160	1140	461
28	444	1	3	7	8	11	300	578	429	1190	1140	461
29	444	1	3	7		11	484	569	416	1170	1140	456
30	444	1	3	7		11	645	555	550	1170	1130	452
31	494		3	7		11		531	1150	1130		

MEAN	463	232	1.9	5.7	7.8	9.5	11.82.7	829	491	898	1028	709
ACRD- FEET	28,460	13,820	117	353	432	569	3,730	50,980	29,380	55,200	65,200	42,190

U. S. GOVERNMENT PRINTING OFFICE

6-1143

YEAR
1907

MEAN 398
ACRD-FEET 298,300



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	785	896	387	350	346	358	400	1360	1010	994	1420	1500
2	792	908	383	339	327	362	422	1430	987	922	1360	1500
3	783	908	366	346	350	354	448	1530	980	902	1360	1500
4	775	902	366	343	354	374	477	1650	974	876	1360	1500
5	767	844	366	358	379	366	501	1770	967	870	1360	1500
6	749	811	366	339	362	331	467	1760	941	889	1360	1470
7	743	804	366	354	327	366	458	1730	941	889	1360	1390
8	755	824	374	354	331	366	453	1660	934	856	1360	1380
9	863	818	383	354	305	362	458	1620	954	908	1380	1350
10	804	811	374	354	354	370	463	1560	974	954	1370	1380
11	779	749	331	354	395	374	467	1520	902	908	1370	1380
12	761	743	301	354	395	374	501	1460	915	987	1370	1390
13	749	856	294	354	383	374	511	1440	902	1170	1360	1280
14	767	844	343	354	383	374	517	1400	889	1260	1360	1220
15	870	844	379	353	370	374	626	1380	856	1320	1360	1080
16	902	463	366	352	339	374	678	1350	915	1380	1370	974
17	915	339	374	351	362	379	660	1410	934	1440	1370	934
18	870	343	366	350	379	383	678	1390	994	1440	1370	922
19	798	354	366	354	366	387	761	1370	1010	1440	1370	889
20	830	354	350	362	374	391	818	1340	1040	1430	1370	863
21	814	258	362	358	339	391	785	1310	974	1440	1370	818
22	798	327	358	346	366	395	773	1280	960	1440	1370	824
23	779	327	354	354	366	400	755	1260	902	1440	1370	824
24	779	362	350	350	354	400	811	1220	882	1440	1370	837
25	731	358	350	358	374	391	915	1180	870	1440	1370	837
26	811	370	354	358	362	391	837	1140	856	1440	1380	830
27	792	362	366	358	350	391	818	1090	844	1450	1470	844
28	779	354	366	379	316	391	1000	1080	837	1480	1500	850
29	785	370	370	366		395	1220	1070	824	1480	1500	844
30	798	379	362	354		395	1290	1060	824	1490	1500	837
31	837		358	350		391		1040		1540	1500	

MEAN	799	596	360	354	357	378	666	1385	926	1225	1589	1185
Acres-Feet	49,110	35,470	22,120	21,740	19,850	23,250	39,610	85,010	55,120	75,200	85,410	66,840

YEAR _____ MEAN _____ 800
 or _____ ACRES-FEET _____ 578,850



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1050	1280	560	705	617	610	1020	2630	1480	1370	1790	1850
2	1070	1250	706	640	586	679	820	2830	1400	1310	1700	1850
3	1070	1220	719	647	621	585	1120	2760	1400	1250	1670	1830
4	1070	1250	675	645	660	678	1180	2830	1370	1250	1690	1810
5	1040	1180	652	641	642	594	1190	2800	1350	1200	1700	1830
6	1050	1070	672	609	647	621	989	2720	1290	1250	1690	1830
7	1070	1110	672	616	600	677	988	2580	1280	1250	1670	1690
8	1070	1090	680	584	577	648	956	2430	1290	1220	1690	1690
9	1260	1120	698	565	539	649	861	2370	1420	1220	1690	1670
10	1120	1090	700	605	607	637	1020	2320	1430	1260	1690	1670
11	1120	975	629	698	678	664	938	2300	1340	1290	1690	1690
12	1080	1030	493	664	658	653	988	2200	1290	1350	1690	1700
13	1070	962	480	666	662	661	1030	2120	1310	1480	1670	1600
14	1070	1150	608	659	678	656	1060	2060	1310	1620	1670	1510
15	1340	1120	691	660	635	650	1190	2020	1260	1700	1690	1340
16	1290	874	659	636	588	586	1310	1980	1290	1780	1690	1200
17	1310	513	642	657	588	688	1260	2100	1380	1850	1670	1200
18	1250	580	655	629	674	617	1320	2020	1510	1830	1670	1180
19	1090	644	691	633	668	500	1400	2020	1550	1830	1670	1130
20	1030	722	635	645	581	777	1550	1940	1600	1810	1670	1110
21	1190	534	642	645	547	750	1530	1830	1510	1830	1670	1070
22	1080	464	665	555	717	692	1560	1790	1380	1830	1650	1070
23	1090	504	631	619	622	762	1550	1780	1350	1830	1670	1090
24	1070	560	711	626	615	777	1650	1780	1340	1830	1650	1090
25	1080	591	516	624	648	742	1810	1690	1260	1830	1670	1090
26	1050	562	575	614	670	636	1570	1600	1260	1830	1670	1080
27	1090	579	592	635	549	980	1480	1560	1230	1830	1850	1090
28	1070	595	662	688	607	835	1870	1550	1230	1830	1850	1090
29	1070	609	672	652		718	2140	1500	1190	1870	1850	1110
30	1110	778	670	675		898	2410	1460	1200	1870	1830	1110
31	1190		665	652		826		1480	1890	1850		

MEAN	1116	867	643	638	624	692	1325	2098	1350	1595	1709	1409
ACRE- FEET	68,650	51,580	39,510	39,250	34,670	42,540	78,860	129,000	80,330	87,960	105,100	85,840

YEAR OR DAMMED MEAN 1,178
ACRE-FEET 851,290



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2								4830	2290	908	1020	1260
3								4910	1840	951	951	1250
4								4750	1430	730	919	1240
5								4670	1260	600	897	1210
6								4530	1330	585	972	1240
7								3980	1260	693	962	1250
8								3680	1100	739	962	1140
9								3300	940	625	972	1140
10								3200	1260	554	1010	1150
11								3110	2360	608	1050	1190
12								3060	1940	659	1060	1210
13								2890	1610	642	1070	1240
14								2750	1260	693	1050	1290
15								2720	1150	806	1020	1280
16								2940	972	806	972	1120
17								3130	856	856	940	1010
18								3500	1020	908	876	972
19								3260	1630	908	876	930
20								3080	1800	856	876	908
21								2610	2140	786	866	887
22								2080	2140	786	876	856
23								1840	1820	796	876	876
24								1710	1580	816	919	908
25								1610	1400	826	919	897
26								1420	1220	826	930	897
27								1290	1120	836	972	887
28								1240	836	816	1120	887
29								1340	667	796	1180	897
30								1470	625	816	1200	940
31								1730	786	816	1210	919
								2190		930	1250	

MEAN								2865	1588	775	995	1065
ACRE- FEET								176,200	82,600	47,580	61,040	65,230

MEAN
ACRE-
FEET 430,620



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	710	2150	1530	1300			2340	4480	1660	730	868	1140
2	745	2340	1400	1370			2740	4920	1770	830	945	1150
3	786	2300	1470	1370			2860	5030	1510	874	857	1140
4	791	2260	1490	1320			3000	4950	1220	775	786	1140
5	852	2320	1400	1360			3180	4900	1140	760	786	1130
6	1010	2230	1410	1350			2920	4820	1190	808	796	1150
7	1080	2130	1440	1320			2350	4470	1170	1040	818	1110
8	1100	2180	1440				2060	4060	1110	1020	802	1080
9	1220	2180	1440			1300	1890	3490	1030	896	846	1110
10	1520	2220	1450				1790	3300	1740	802	862	1160
11	1570	2140	1440				1770	3180	2400	730	918	1170
12	1540	2060	1270				1700	3040	2150	660	918	1240
13	1500	2030	1100				1720	2900	1720	605	901	1370
14	1450	2050	1000				1830	2710	1340	620	874	1450
15	1610	2140	1100				1910	2670	1200	630	813	1430
16	2080	2130	1260				2100	2740	962	620	760	1320
17	2270	1890	1270				2200	3010	956	650	710	1250
18	2280	1610	1280			1460	2140	3260	1500	670	675	1210
19	2150	1570	1280	1250	FROZEN	1430	2180	3140	2250	665	665	1190
20	1980	1610	1290			1460	2350	2880	2640	615	695	1150
21	1940	1580	1290			1700	2610	2320	2960	566	710	1130
22	1970	1350	1280			1890	2800	1850	2980	558	710	1110
23	1870	1240	1280			2060	3090	1580	2640	562	695	1130
24	1860	1260	1260			2380	3160	1430	2350	566	725	1130
25	1820	1330	1200			2590	3430	1320	2060	566	730	1120
26	1810	1390	1140			2710	3730	1110	1790	566	755	1110
27	1820	1350	1050			2720	3530	978	1490	566	824	1090
28	1840	1360	1200			2760	3300	846	1150	553	972	1060
29	1820	1350	1250			2680	3650	890	912	548	1050	1060
30	1800	1390	1250			2580	4110	994	760	576	1090	1080
31	1890		1250			2550		1260		680	1120	

MEAN	1570	1858	1297	1271	1280	1712	2615	2856	1658	687	828	1170
Acres-Feet	96,560	109,400	79,760	78,130	71,090	106,300	156,600	175,600	98,680	42,260	50,950	69,640

YEAR on Record MEAN 1,565
ACRES-FEET 1,132,960

FALL RIVER DEER SQUIGGLY, IDAHO

Plate No. 53

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	537	697	520	475	420	380	561	2510	2190	1080	513	505
2	569	628	521	460	420	390	578	2540	2070	882	490	475
3	569	628	521	475	420	390	644	2520	1570	751	490	475
4	537	662	521	475	420	390	733	2430	1540	751	482	475
5	529	662	513	475	420	390	751	2170	1710	706	482	475
6	537	561	505	475	420	400	644	1880	1710	715	475	475
7	569	561	505	430	420	410	628	1880	1460	679	490	475
8	553	561	505	430	420	420	610	1800	1130	653	490	490
9	653	561	498	430	417	424	610	1860	1620	628	490	490
10	619	561	480	440	417	424	610	1920	2040	594	498	482
11	619	561	475	450	417	424	610	1860	1540	594	505	475
12	561	513	450	450	417	438	610	1860	1460	585	505	537
13	537	498	440	455	417	438	679	1920	1250	561	490	537
14	537	498	460	455	417	438	679	1920	1300	553	475	537
15	760	521	470	460	417	438	820	2070	1280	545	468	553
16	688	521	475	460	400	438	840	2480	1280	521	460	537
17	653	521	475	460	400	424	840	2670	1170	513	460	490
18	602	538	475	430	400	424	982	2620	1350	513	468	490
19	585	525	475	445	400	452	1170	2360	1430	498	475	482
20	569	520	475	445	400	452	1300	1990	1670	490	475	460
21	569	500	475	445	400	468	1390	1690	1750	482	475	475
22	553	490	475	430	380	482	1530	1690	1420	475	475	475
23	521	480	475	445	380	529	1470	1690	1370	468	475	498
24	521	480	475	430	378	545	1570	1530	1210	468	475	475
25	521	500	475	430	378	545	1510	1390	1140	460	475	490
26	521	510	417	430	378	561	1460	1420	1070	460	475	482
27	521	520	445	430	378	577	1500	1440	994	460	475	475
28	521	520	490	430	378	594	1680	1580	994	460	475	475
29	521	520	490	430		610	2140	1870	994	475	490	475
30	521	520	490	430		594	2240	2200	1110	460	475	475
31	670		475	420		561		2560		505	505	

MEAN	572	545	482	446	405	466	1046	2010	1427	580	482	490
ACRES	35,190	32,410	29,640	27,420	22,470	28,660	62,260	123,600	84,940	35,670	29,650	29,180

U. S. GEOLOGICAL SURVEY, WASHINGTON

6-1122

YEAR 1957
MEAN 747
ACRES 541,090



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								2800	1920	532	87	189
2								2770	1460	748	82	170
3								2650	1080	465	82	162
4								2580	850	319	72	162
5								2470	894	305	75	166
6								2080	921	290	76	159
7								1920	790	212	87	162
8								1740	594	142	96	185
9								1850	833	111	87	177
10								1990	1680	85	103	166
11								2050	1310	67	122	185
12								1990	1070	52	122	224
13								1920	765	46	117	361
14								1950	638	35	108	404
15								2180	594	24	114	319
16								2310	506	23	111	305
17								2600	483	23	103	278
18								2450	715	32	108	262
19								2150	975	33	122	258
20								1710	1240	29	114	240
21								1340	1250	27	111	198
22								1260	1070	25	125	200
23								1170	939	27	152	216
24								1070	807	28	152	208
25								1010	676	28	155	208
26								1000	513	27	155	192
27								1000	426	27	159	189
28								1060	377	29	155	216
29								1170	388	38	173	236
30								1470	477	40	159	212
31								1890		70	185	

Mean								1858	878	137	118	220
Acum-								114,200	82,080	7,830	7,280	13,100
Flow												

Year or Period _____ Mean _____
 Acum-Perf. 194,440



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	573	705	445	403	395	370	1330	1750	1610	1110	896	630	
2	568	711	445	412	380	370	1440	1760	1360	1090	822	619	
3	568	630	443	417		370	1330	1800	1180	1060	774	614	
4	548	588	386	408		370	1590	2000	1100	1020	774	604	
5	563	619	448	395		370	1430	2170	1180	1060	689	598	
6	568	588	443	408		365	864	2040	1210	1110	667	609	
7	558	543	443	386		365	810	1740	1080	1100	656	624	
8	558	538	448	395		370	728	1570	982	1020	662	651	
9	598	538	466			378	378	762	1590	1120	969	645	667
10	593	533	489			391	711	1600	1240	943	651	614	
11	583	518	443			403	651	1670	1100	929	645	598	
12	558	466	410		399	656	1650	1040	929	635	619		
13	543	504	400		399	744	1600	1010	903	640	651		
14	533	494	410		395	804	1590	1040	877	624	624		
15	578	484	420		408	386	798	1680	1090	858	667	614	
16	651	484	420		421	382	798	1920	1120	840	640	593	
17	662	489	420		430	395	728	2170	1110	804	645	574	
18	656	484	420	417	425	716	2210	1220	774	645	563		
19	593	475	425	395	457	750	1990	1300	768	630	543		
20	563	480	430	378	484	828	1700	1280	786	630	538		
21	553	425	434	391	528	896	1440	1310	792	635	538		
22	538	420	434	365	614	995	1320	1340	792	624	558		
23	533	430	430	399	792	1040	1290	1400	780	630	563		
24	528	440	412	390	1050	1060	1200	1360	768	645	548		
25	518	440	399		1150	1080	1060	1240	762	651	548		
26	509	445	391		1220	995	1010	1180	756	662	543		
27	509	445	395		1240	943	1010	1120	756	656	553		
28	509	445	395		1210	1050	1070	1110	756	656	518		
29	509	445	395		1100	1380	1220	1100	744	619	518		
30	509	445	395		1050	1650	1470	1110	804	624			
31	558		403		386	1000	1680		864				

MEAN	561	508	424	397	381	608	985	1612	1188	888	667	588
ACRE-FT	34,490	30,250	26,060	24,420	21,150	37,280	58,850	99,110	70,690	54,590	41,010	34,880

YEAR MEAN 756
ACRE-FT 552,510



Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	275	250	290	260	250	584	322	49	58	85	56
2	94	275	250	290	260		572	322	48	55	90	62
3	101	270	260	280	260		549	290	52	57	81	63
4	102	290	270	280			560	260	52	58	79	71
5	105	322	270	290	270		538	239	41	62	79	62
6	108	311	280	290	250	504	300	40	65	76	65	
7	114	300	290	280	239	248	493	223	40	59	74	85
8	118	300	300	260	240	246	482	166	47	56	68	110
9	121	311	332	270		246	471	126	59	56	68	108
10	123	311	342	270		260	449	111	56	46	55	97
11	124	300	332	280		270	438	124	54	48	62	89
12	126	290	322	280		300	438	126	53	52	67	95
13	127	290	300	280	322	438	108	48	50	59	108	
14	129	300	280	280	342	449	101	46	39	58	124	
15	175	290	280	270	353	460	100	50	37	54	135	
16	250	280	280	280	384	438	102	57	37	49	127	
17	250	300	280	270	248	449	416	94	77	49	49	118
18	250	311	280	280		538	416	90	90	45	52	107
19	250	300	280	280		642	406	89	90	40	48	100
20	246	300	280	270		702	416	82	85	41	46	110
21	240	300	280	270		728	416	84	80	45	44	102
22	234	290	290	270	740	416	85	79	52	36	100	
23	228	280	290	260	740	438	95	76	47	36	97	
24	222	290	290	260	728	460	107	70	42	39	94	
25	227	270	290	270	270	715	438	98	57	43	98	
26	225	260	290	260		690	416	97	59	40	47	104
27	225	250	280	260		678	384	89	64	38	49	98
28	221	240	280	270		630	353	84	63	45	56	93
29	216	240	290	260		618	322	76	59	47	64	88
30	212	246	290	260	595	62	62	71	57	59	86	
31	275	290	290	270								

MEAN	178	286	288	274	251	449	457	145	59.8	49.5	59.0	95.1
ACRES	10,970	17,040	17,690	16,820	13,920	27,600	27,210	8,900	3,560	3,040	3,630	5,660

YEAR 1950
MEAN 216
ACRES-FEET 156,040

