



C. A. ROBINS

GOVERNOR

STATE OF IDAHO
DEPARTMENT OF RECLAMATION

MARK R. KULP, STATE RECLAMATION ENGINEER

BOISE

January 15, 1947

Hon. C. A. Robins
Governor of Idaho
Building

Dear Governor Robins:

Herewith is transmitted the annual report of Lynn Crandall, Watermaster of Water District No. 36, and Special Deputy of the Department of Reclamation for the administration of stored water.

The water supply for 1946 was satisfactory, and the season ended with a substantial reservoir hold-over.

Respectfully submitted,

Mark R Kulp

MARK R. KULP

State Reclamation Engineer



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

WATER DISTRICT NO. 36

C. A. Robins
GOVERNOR
R. KULP, COMMISSIONER

January 6, 1947

Mr. Mark R. Kulp
State Reclamation Engineer
State House
Boise, Idaho

Dear Mr. Kulp:

I am transmitting herewith the 1946 annual report covering distribution of water and related matters in Water District No. 36. The work in this district, as you know, is handled by a cooperative agreement between the State of Idaho, U. S. Geological Survey, and Water District No. 36.

The water supply was above normal; no shortages or unusual difficulties occurred in making deliveries, and 1,300,000 acre-ft. of stored water, or 46% of capacity, still remained in the reservoirs at the close of the season on Sept. 30, 1946.

The Bureau of Reclamation at the year end released its report on the Palisades Reservoir and it is hoped that some agreement can be reached among the interested parties at an early date that will permit construction to begin on this project.

I wish to express my thanks to you and members of your staff, as well as to the Committee of Nine, for advice and assistance. The cooperation of the U. S. Bureau of Reclamation and the various canal companies is greatly appreciated. Thanks are also due to the various employees of the District for faithful and capable service and particularly to Henry C. Eagle and Charlotte M. Elg for assistance in preparing this report.

Very truly yours,

LYNN CRANDALL,
Watermaster.

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INTRODUCTION

At the annual watermaster election, held in Idaho Falls on March 4, 1946, Lynn Crandall was elected watermaster and the following were elected as members of the Committee of Nine:

John E. Kelley, Chairman, N. V. Sharp, Vice Chairman, H. L. Crawford, W. A. Heiss, E. H. Neal, Eph Ricks, Hyrum Severson, Tom W. Smith, and A. E. Stanger.

Advisory members: S. R. Marean and L. W. Hastings
Secretary: John Lee.

Mr. Neal resigned during the early spring of 1946 to accept a position with the U. S. Bureau of Reclamation and was succeeded by Ival V. Goslin.

The same schedule of stored water transmission losses in use for some years past was again approved by the waterusers: 2½% 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.

The meeting approved and adopted a proposed budget amounting to \$27,885.00 to cover estimated expenses for the following year, and authorized the watermaster at the close of the 1946 irrigation season to apportion actual expenses during the preceding year among the various users in proportion to amount of water diverted. For this purpose the irrigation season was to be considered as beginning April 15 in the lower valley, May 1 in upper valley, May 15 in the headwater areas, and ending Sept. 30 in each case.

Other resolutions adopted by the waterusers included:

1. Opposition to the drilling of irrigation wells that will adversely affect the presently appropriated water supply for lands within the District.

2. Opposition to the creation of any Columbia Valley Authority.

3. A request to the Bureau of Reclamation to consult with the Waterusers of the District on matters relating to operation of the reservoirs.

4. Approving an addition to the State Laws legalizing the method now being followed by District No. 36 in collecting expenses directly from the canal companies instead of thru the counties.

At the time of the annual water meeting the snow on the watershed was about 10% above normal with favorable prospects for all reservoirs to fill and an ample water supply for 1946. Subsequent precipitation, except during May, was considerably below normal but the run-off held up fairly well and averaged about 4% above normal for the year. All reservoirs filled to capacity with storage draft beginning on July 1st. The reservoirs still held 1,330,000 acre-ft. or about 46% of capacity on September 30, 1946.

During the year ending September 30, 1946, there were about 2,520,000 acre-ft. of water spilled to waste past Milner in excess of Idaho Power Company rights, most of it during the non-irrigation season October to April inclusive.

Storage deliveries ended about September 20 in the upper valley when rains reduced the demand for water and increased the river flow. The Idaho Power Company, however, continued to draw its primary storage water past Milner after the use of storage for irrigation had ceased.

The water supply was adequate for all needs except on a few tributary creeks where the available flow could not be augmented by stored water. Stored water diverted during the 1946 season amounted to 1,569,000 acre-ft., about 27% greater than a year ago, the

increased use being due to starting storage draft at an earlier date than in 1945 when the natural flow rights were better sustained due to heavy summer precipitation.

The Bureau of Reclamation continued its pre-construction activities at the Palisade Reservoir site under the direction of I. D. Jerman. These consisted principally of surveys, location and testing of materials for the dam, test hole drilling, camp construction, etc. The report on Palisade water supply and related matters by the Bureau of Reclamation was completed late in 1946 but no agreement with the Snake River waterusers on the recommendations embodied therein has as yet been reached.

There are a number of controversial questions principally relating to winter water conservation and disposition of the American Falls Government owned space upon which agreement or a final decision will have to be reached before actual construction of the Palisade dam can begin.

PERSONNEL

The persons engaged in water distribution during 1946 were as follows:

Lynn Crandall	Watermaster & Deputy Com. of Reclamation
Henry C. Eagle	Assoc. Engineer and Deputy Watermaster.
Melvin Luke	Deputy Watermaster & Hydrographer at St.
	Anthony
Oleen Dummer	Hydrographer
A. H. Bush	Hydrographer
Charlotte M. Elg	Clerk
J. Dean Hill	Deputy Watermaster & Hydrographer, Teton Basin
Don Riggs	Deputy Watermaster, Henrys Fork
Joe Bohi	Deputy Watermaster, Lower Teton R.
Norbett Lenz	Deputy Watermaster, Upper Fall River
D. R. Crystal	Deputy Watermaster, Heise Division
H. M. Branwell	Deputy Watermaster, Rigby Division
D. W. Dick	Deputy Watermaster, Idaho Falls Division

Eugene Liljenquist	Deputy Watermaster, Blackfoot Division
R. H. Rambo	Deputy Watermaster, Milner Dam
Lloyd Brown	Deputy Watermaster, Swan Valley Division
S. R. Marean	Supt. Minidoka Project, Bureau of Reclamation
A. W. Heath	Supt. Am. Falls Res., Bureau of Reclamation
James L. Braman	Supt. Jackson Lake, Bureau of Reclamation
S. Geo. Pilcher	Supt. Island Park Res., Bureau of Reclamation
J. J. Taylor	Supt. Grassy Lake, Bureau of Reclamation

Gage readers: Walter Sherwood, Joseph H. Bahr, Jr., J. A. Clough, Foster B. Randall, H. F. Reinnan, D. L. Dutton, Mrs. Irvin Siepert, Walter C. Lenz, James Fugal, D. R. Anthony, Elwin Schofield, T. E. Culley, A. J. Ayers, Wm. Hall.

SNOW SURVEYS

Records of the snow measurements on the Jackson Lake watershed as made by the Bureau of Reclamation from 1919 to date are given in the following table:

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 snow depth and water content in inches on Jackson Lake Watershed (cont'd)

Year	January		February		March		April	
	Snow	Water	Snow	Water	Snow	Water	Snow	Water
1940	28	6.3	43	11.3	55	18.5	40	17.6
1941	43	11.2	53	15.3	49	15.8	34	13.5
1942	35	9.6	50	14.5	53	16.6	35	14.1
1943	67	23.2	91	33.3	100	37.4	67	33.7
1944	25	5.6	38	9.0	49	13.5	37	13.6
1945	35	9.0	61	15.4	56	18.7	56	20.3
1946	47	14.2	65	20.0	70	23.6	58	23.7
Average, inches	43	11.2	57	17.0	62	20.7	54	21.5

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.

The 1946 water content as a percentage of average was as follows: January 127%, February 118%, March 114%, April 110%. The 1946 runoff at Moran was 103% of average.

The results of snow measurements by the Bureau of Reclamation on the Buffalo River watershed are shown in the following table. Buffalo River, which enters Snake River about six miles below Moran, drains a region of high elevation and is one of the last of the Snake River tributaries to reach its peak flow each year.

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

Year	Feb. 1-6		Mar. 23-29	
	Snow	Water	Snow	Water
1924	40	11.2		
1925	48	13.6		
1926	42	11.5		
1927	43	11.9		
1928	44	12.4		
1929	38	10.2		
1930	41	10.5		
1931	17	4.0		
1932	35	9.1		
1933	34	10.0		
1934	27	7.8		

Snow depths & water cont., Buffalo River (cont'd)

<u>Year</u>	<u>Feb. 1-6</u>		<u>Mar. 23-29</u>	
	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>
1935	40	11.0		
1936	46	11.9	61	21.0
1937	33	8.4	45	13.8
1938	50	13.0	62	19.4
1939	45	12.2	52	17.3
1940	29	6.3	40	12.0
1941	36	9.3	46	14.6
1942	38	9.4	48	13.4
1943	67	22.7	74	29.7
1944	35	7.9	50	13.3
1945	38	9.5	54	16.8
1946	53	13.0	56	18.6
Average inches	40	10.7	53	17.3

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

The 1946 snow survey on the Buffalo River watershed showed 121% of average in February and 108% late in March.

Beginning with 1936 snow surveys have been made available by the Irrigation Division, Soil Conservation Service, Department of Agriculture in cooperation with the Forest Service, Bureau of Reclamation, National Park Service, and State of Idaho. Results of such measurements at the principal stations on the upper Snake River drainage are as follows:

<u>Depth in Inches</u>										
	<u>Last of Dec.</u>		<u>Last of Jan.</u>		<u>Last of Feb.</u>		<u>Last of Mar.</u>		<u>Last of Apr.</u>	
	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>
Valley View Ranch (Henrys Fork)										
1936 Season	22	5.0	-	-	-	-	58	19.8		
1937 "	23	3.1	-	-	-	-	47	13.8	31	12.2
1938 "	-	-	-	-	-	-	62	20.0	30	12.5
1939 "	22	3.8	-	-	-	-	40	12.2		
1940 "	8	0.7	21	4.0	33	7.8	31	10.1		
1941 "	20	2.9	-	-	-	-	32	9.3		
1942 "	21	4.0	-	-	-	-	38	10.9		
1943 "	31	6.5	-	-	-	-	58	21.1	14	6.3
1944 "	14	2.6	-	-	-	-	41	10.5		
1945 "	22	2.8	-	-	-	-	38	10.0		
1946	34	7.2	-	-	46	12.4	50	15.5		
Average	22	3.9	-	-	-	-	45	13.9		

	<u>Last of</u>		<u>Last of</u>		<u>Last of</u>		<u>Last of</u>		<u>Last of</u>	
	<u>Dec.</u>		<u>Jan.</u>		<u>Feb.</u>		<u>Mar.</u>		<u>Apr.</u>	
	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>
<u>Big Springs (Henrys Fork)</u>										
1936 Season	24	5.5	54	15.6	65	21.8	70	23.3		
1937 "	26	3.4	52	10.5	63	17.6	59	20.2	41	17.9
1938 "	28	6.5	40	9.6	53	14.8	72	23.3	32	12.0
1939 "	31	7.8	48	11.4	60	18.3	50	17.8		
1940 "	11	0.9	27	6.1	46	11.9	41	14.0		
1941 "	34	6.0	46	11.2	47	13.0	45	14.2		
1942 "	30	5.1	47	10.4	55	15.4	48	16.0		
1943 "	53	12.9	82	23.9	87	29.6	76	30.0	32	15.9
1944 "	11	1.6	29	6.1	48	12.0	52	15.2		
1945 "	26	3.6	30	7.0	49	13.3	54	16.4		
1946 "	47	9.9	54	13.6	60	18.7	65	23.2		
Average	29	5.7	46	11.4	58	16.9	58	19.4		

<u>Island Park (Henrys Fork)</u>										
1936 Season	21	4.2	41	11.0	54	15.6	50	16.0		
1937 "	25	3.0	44	9.0	51	14.6	48	14.5	33	12.1
1938 "	26	5.9	37	8.2	48	11.9	64	19.5	18	7.6
1939 "	24	4.9	48	10.1	53	14.4	33	11.2		
1940 "	10	1.0	27	5.1	41	10.9	35	11.7		
1941 "	28	4.1	38	8.4	40	10.3	32	9.6		
1942 "	29	4.9	42	9.7	47	12.5	41	13.1		
1943 "	42	9.8	70	19.1	70	23.3	59	20.6	0	0
1944 "	11	1.0	24	3.6	39	8.3	43	11.7		
1945 "	22	3.1	26	5.2	42	10.5	35	11.3		
1946 "	36	8.0	45	10.2	53	14.4	50	17.1		
Average	25	4.5	40	9.1	49	13.3	44	14.2		

<u>Grassy Lake (Fall R.)</u>										
1940 Season	34	13.3	50	21.5	78	32.6	66	33.0	47	28.4
1941 "	61	18.2	72	23.7	75	27.5	64	23.9	57	28.6
1942 "	40	13.2	52	16.9	71	23.6	66	23.9	45	20.8
1943 "	74	19.4	114	36.1	113	42.3	106	42.8	82	44.8
1944 "	36	8.6	42	10.8	61	17.1	63	22.1	44	19.0
1945 "	60	11.1	60	17.1	79	27.3	84	31.6	83	32.2
1946 "	66	17.8	90	24.2	89	31.2	87	35.3	82	35.1
Average	53	14.5	69	21.4	81	28.8	77	30.3	63	29.8

<u>Bechler Ranger Sta. (Fall R.)</u>										
1936 Season	40	9.6	71	20.6	87	29.1	87	31.0		
1937 "	26	4.5	59	13.1	72	22.3	68	24.8	58	26.0
1938 "	32	8.2	52	14.1	59	18.9	91	29.4		
1939 "	39	10.0	69	17.2	85	25.1	57	24.4	18	8.3
1940 "	31	6.1	43	12.8	56	18.0	63	25.0	31	15.8
1941 "	42	9.4	58	15.3	59	18.8	46	16.4		
1942 "	30	6.9	46	12.4	62	18.3	58	20.2	25	9.7
1943 "	-	-	-	-	99	34.0	82	35.0	35	19.0
1944 "	-	-	32	7.5	45	12.3	48	15.4	22	8.3
1945 "	40	6.4	38	9.9	58	18.7	63	20.5	42	17.7
1946 "	37	8.1	54	15.4	74	23.5	65	25.0	-	-
Average	35	7.7	52	13.8	69	21.7	66	24.3	33	15.0

	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>Teton Pass (Teton R.)</u>										
1936 Season	28	7.4	74	19.6	100	31.6	116	37.0		
1937 "	-	-	41	11.4	62	19.8	72	24.2		
1938 "	33	9.0	-	-	69	25.4	97	34.6		
1939 "	49	13.2	55	16.0	78	26.4	77	28.6		
1940 "	14	1.0	48	11.0	61	16.6	63	22.2		
1941 "	41	9.2	51	11.8	57	15.2	56	18.4		
1942 "	33	7.8	45	14.0	58	18.8	63	21.4		
1943 "	61	18.8	100	36.2	105	42.4	119	51.2		
1944 "	-	-	27	6.6	55	12.0	52	16.9		
1945 "	51	10.1	54	15.6	63	18.6	81	25.8		
1946 "	46	12.8	60	18.0	69	24.8	79	28.5		
Average	40	9.9	55	16.0	71	22.9	80	28.1		

<u>State Line (Teton R.)</u>										
1936 Season	21	4.0	49	11.4	66	21.0	75	28.0		
1937 "	-	-	32	8.1	45	12.6	42	15.0	27	11.8
1938 "	15	2.0	-	-	41	12.9	56	20.7		
1939 "	31	6.1	34	7.1	46	12.1	35	12.8		
1940 "	6	0.4	31	5.2	36	8.6	27	10.1		
1941 "	30	5.0	36	7.3	42	10.1	30	9.7		
1942 "	24	4.0	33	9.1	39	12.0	39	12.4		
1943 "	46	13.7	65	21.3	67	24.0	64	26.2		
1944 "	-	-	24	5.1	35	8.3	36	8.4		
1945 "	31	5.6	28	7.0	39	10.3	45	13.1		
1946 "	30	7.1	49	11.0	46	13.2	40	14.0		
Average	26	5.3	38	9.3	46	13.2	44	15.4		

<u>East Rim (Hoback R.)</u>										
1936 Season	10	1.7	-	-	-	-	62	22.6		
1937 "	17	2.8	-	-	-	-	38	12.2	35	12.9
1938 "	19	4.0	-	-	-	-	45	13.2	20	6.9
1939 "	23	4.9	-	-	-	-	33	7.2	-	-
1940 "	-	-	-	-	25	7.0	24	6.0	-	-
1941 "	-	-	-	-	35	10.4	32	11.0	-	-
1942 "	-	-	-	-	32	7.0	32	7.9	-	-
1943 "	-	-	-	-	51	15.9	54	18.1	-	-
1944 "	-	-	-	-	27	5.8	31	7.1		
1945 "	-	-	-	-	31	6.8	33	8.6		
1946 "	-	-	-	-	39	9.5	41	11.6		
Average	17	3.4	-	-	34	8.9	39	11.5		

<u>Bryan Flat (Hoback R.)</u>										
1936 Season	11	1.7	32	7.1	45	15.8	55	19.5		
1937 "	14	2.2	19	4.4	34	9.2	30	10.3	15	5.6
1938 "	13	2.8	21	5.5	26	6.7	39	11.4	0	0
1939 "	17	3.9	30	6.6	31	8.4	24	8.0		
1940 "	4	0.3	20	4.6	20	6.5	16	4.3		
1941 "	24	5.3	26	5.8	33	9.5	23	9.0		

	<u>Last of</u>		<u>Last of</u>		<u>Last of</u>		<u>Last of</u>		<u>Last of</u>	
	<u>Dec.</u>		<u>Jan.</u>		<u>Feb.</u>		<u>Mar.</u>		<u>Apr.</u>	
	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>
<u>Bryan Flat (Hoback R.) - cont'd.</u>										
1942 Season	19	3.2	23	5.2	29	5.4	28	7.4		
1943 "	42	10.9	55	13.5	57	17.4	44	14.4		
1944 "	5	0.8	14	2.0	19	3.2	21	5.2		
1945 "	22	3.5	23	4.0	28	7.7	31	7.7		
1946 "	25	5.4	35	7.2	38	7.2	33	9.4		
Average	18	3.6	27	6.0	33	8.8	31	9.7		

<u>Yellowjacket Flat (Gros Ventre R.)</u>										
1936 Season	8	1.0	20	2.9	36	10.2	38	11.3	-	-
1937 "	9	1.2	13	2.3	22	4.3	20	4.4	10	2.9
1938 "	12	2.8	16	3.2	21	4.2	31	7.5	0	0
1939 "	16	2.6	20	3.9	26	5.2	19	5.1	-	-
1941 "	-	-	19	3.3	-	-	23	5.1	-	-
1942 "	-	-	21	3.3	-	-	21	4.3	-	-
1943 "	-	-	-	-	47	10.1	45	12.3	-	-
1944 "	-	-	-	-	16	1.0	20	4.7	-	-
1946 "	-	-	-	-	26	5.9	28	5.7	-	-
Average	11	1.9	18	3.2	28	5.8	27	6.7		

<u>Grover Park Divide (Salt River)</u>										
1936 Season	16	3.4	46	12.6	46	15.8	69	19.6		
1937 "	23	4.1	24	4.5	36	10.8	36	11.4		
1938 "	16	4.2	25	5.6	25	7.9	42	12.4		
1939 "	-	-	23	6.4	36	9.4	20	7.6		
1940 "	13	2.0	26	6.6	31	9.9	25	9.8		
1941 "	27	4.6	30	7.0	31	9.1	21	8.0		
1942 "	-	-	26	5.2	31	8.5	28	8.8		
1943 "	33	7.6	46	13.8	43	13.9	45	15.2		
1944 "	16	3.0	24	4.4	27	6.1	36	7.8		
1945 "	31	4.2	28	5.4	32	8.2	42	11.2	29	10.1
1946 "	25	4.1	44	8.0	39	10.0	32	9.1		
Average	22	4.1	31	7.2	34	10.0	36	11.0		

<u>CCC Camp FF12 (Salt River)</u>										
1936 Season	23	5.9	35	10.7	53	17.1	71	22.7		
1937 "	17	3.5	22	4.4	36	9.2	35	12.3		
1938 "	18	4.4	30	6.7	32	8.4	43	13.2		
1939 "	-	-	29	5.7	36	10.2	21	7.8		
1940 "	9	1.0	26	5.9	27	8.8	22	8.4		
1941 "	23	4.4	25	6.6	31	8.1	23	8.2		
1942 "	-	-	24	4.5	29	6.8	26	7.2		
1943 "	33	7.4	50	14.7	46	14.2	48	15.7		
1944 "	16	2.1	21	3.8	28	5.9	40	9.3	12	4.1
1945 "	-	-	26	5.3	34	9.3	40	10.5	22	8.6
1946 "	24	4.6	32	7.1	38	8.5	32	9.0		
Average	20	4.2	29	6.9	35	9.7	36	11.3		

		Last of Dec.		Last of Jan.		Last of Feb.		Last of Mar.		Last of Apr.	
		<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>	<u>Snow</u>	<u>Water</u>
<u>Deadman Ranch (Greys R.)</u>											
1936 Season	19	2.6	36	9.6	58	19.1	77	24.8			
1937 "	15	2.5	24	5.1	37	9.3	32	9.4			
1938 "	13	2.5	24	4.9	26	7.6	35	10.5			
1939 "	28	4.1	36	6.6	36	9.4	T	T			
1940 "	T	T	22	3.4	20	3.1	0	0			
1941 "	29	5.9	29	8.0	31	10.7	20	8.0	0	0	
1942 "	19	2.0	24	3.8	31	5.8	29	6.7			
1943 "	-	-	59	17.4	57	19.8	54	18.4	0	0	
1944 "	-	-	16	1.3	18	2.9	20	5.3			
1945 "	28	4.0	26	4.0	33	8.8	32	8.5	18	6.0	
1946 "	29	3.9	34	7.5	37	10.6	25	9.2			
Average	20	3.1	30	6.5	35	9.7	29	9.2			

<u>Greys Boundary (Greys River)</u>											
1936 Season	-	-	38	9.3	46	14.9	50	18.9			
1937 "	-	-	25	3.0	40	10.3	31	11.6			
1938 "	16	3.9	29	6.9	29	8.6	32	12.4			
1939 "	-	-	41	8.0	44	13.3	23	7.6			
1940 "	2	0.2	29	7.2	28	9.5	14	6.1			
1941 "	-	-	26	5.6	28	8.9	16	5.9			
1942 "	24	4.1	26	5.9	36	8.1	31	8.9			
1943 "	44	10.5	46	12.2	47	15.5	41	14.7	0	0	
1944 "	7	1.0	18	3.0	20	4.9	18	5.3			
1945 "	26	4.8	25	5.5	32	9.1	40	13.1	16	5.5	
1946 "	28	6.9	42	8.6	42	12.9	30	11.5			
Average	21	4.5	31	6.8	36	10.5	30	10.5			

<u>Somsen's Ranch (Greys Lake)</u>											
1936 Season	-	-	35	10.5	51	16.5	64	20.7			
1937 "	-	-	28	5.6	36	10.7	36	12.0			
1938 "	-	-	25	5.4	29	7.6	40	12.6			
1939 "	-	-	33	6.2	38	9.8	15	5.5			
1940 "	-	-	24	5.0	26	7.8	19	6.9			
1941 "	-	-	27	6.0	31	8.3	26	7.9			
1942 "	-	-	29	6.8	33	9.1	33	9.5			
1943 "	-	-	51	15.3	48	15.8	48	17.2	0	0	
1944 "	-	-	19	2.4	23	4.2	30	7.0			
1945 "	-	-	24	5.8	37	9.0	43	12.6	28	9.5	
1946 "	-	-	35	9.5	39	11.8	35	13.8			
Average	-	-	30	7.1	36	10.1	35	11.4			

At the end of March 1946 the snow supply (water content) was the following % normal on different sections of the watershed: Jackson Lake 112%, Tributaries Jackson Lake to Heise 96%, Island Park 117%, Fall River 109%, Teton River 96%. The runoff for 1946 was 103% of

normal at Moran, 105% at Heise, 105% from Island Park, 102% on Fall River, and 108% on Teton River.

The runoff at Heise and on Teton River was slightly greater than was indicated by the snow surveys, elsewhere it was slightly less. Due to variations in precipitation after the snow surveys are made, variable ground water holdover from the preceding year, etc., the snow surveys cannot be expected to correspond with the subsequent runoff closer than 10% in most years.

REGULATION SCHEDULE

The following schedule shows priorities being filled during 1946. About 44,000 acre-feet of storage were withdrawn from American Falls Reservoir May 15-27 to fill downstream demands. The reservoir subsequently refilled, however, so no charge against storage allotments was made for the stored water used in May.

Storage draft at American Falls charged to the canal companies began on July 1 and continued until September 22, when storage began to accumulate for 1947.

Stored water release from Jackson Lake began July 8, from Henrys Lake July 5 and Island Park July 5. No need existed for any stored water to be used from Grassy Lake but about 3,000 acre-ft. were withdrawn during August to do some work at the dam.

The so-called upper valley "flood rights" of 1916 priority were cut off on July 3. Thereafter rights were gradually cut as the natural flow decreased until the low point was reached August 21-22 with 25% of the January 24, 1891 right being filled. Rains beginning about August 23 and occurring irregularly thereafter resulted in rights varying from June 1, 1891 to March 26, 1903 priorities

being filled at intervals from August 23 until regulation was discontinued on September 21. Storage releases from Jackson Lake ceased on September 21 and the gates were closed September 23, when storage began for 1947. Inflow below Jackson Lake after September 23 provided a supply greater than upper valley diversions, so that water spilled past Blackfoot thereafter.

From Aug. 8-20 inclusive, the flow of Teton River was sufficient only to supply part of the June 1, 1885 rights on that stream; during the balance of the regulation season Teton River was regulated on the same schedule as Snake River.

For a period of about nine days beginning July 4 the rights on Henrys Fork could only be filled to priorities several years earlier than those being filled on Snake River.

Available normal flow for upper valley canals was all used and none passed the lowest canal heading near Blackfoot July 11 to Aug. 29, Sept. 2-10, 15-21. Inflow to the river below Blackfoot during these periods was apportioned between the Twin Falls Canal Company and North Side Canal Company under their decree of October 11, 1900 priority.

1946 REGULATION SCHEDULE

July 3	Cut off rights later than June 16, 1908 priority.
" 9	Cut off rights later than Mar. 26, 1903 priority.
" 12	Cut off 1898 rights above Blackfoot.
" 13	Cut off 1896 rights.
" 15	Cut off June 1, 1895 rights.
" 16	Filled 90% Feb. 6, 1895 right.
" 17	Filled 70% Feb. 6, 1895 right.
" 18	Filled 40% Feb. 6, 1895 right.
" 20	Filled 20% Feb. 6, 1895 right.
" 22	Cut off Feb. 6, 1895 right.
" 23	Cut off all 1895 rights.
" 26	Restored Jan. 9, 1895 right.
" 28	Cut off 1895 rights.

Regulation schedule - cont'd.

July 30	Filled 75% Aug. 18, 1894 right.
" 31	Filled 50% Aug. 18, 1894 right.
Aug. 1	Restored 1894 rights.
" 3	Filled 75% Aug. 18, 1894 right.
" 5	Filled 50% Aug. 18, 1894 right.
" 6	Filled 25% Aug. 18, 1894 right.
" 7	Cut off all 1892 rights.
" 11	Cut off rights later than June 1, 1891.
" 18	Cut off June 1, 1891 rights.
" 20	Filled 50% Jan. 24, 1891 right.
" 21	Filled 25% Jan. 24, 1891 right.
" 23	Filled Jan. 24, 1891 right.
" 24	Filled all 1891 rights.
" 25	Filled all 1894 rights
" 26	Filled 70% Feb. 6, 1895 right.
" 27	Filled 15% Feb. 6, 1895 right.
" 28	Filled Feb. 6, 1895 right.
" 29	Filled June 1, 1895 right.
" 30	Restored rights prior to Oct. 11, 1900.
Sept. 3	Cut off rights later than June 1, 1891.
" 5	Filled 1892 rights
" 6	Filled 30% Feb. 6, 1895 right.
" 7	Filled June 1, 1895 rights.
" 11	Restored rights prior to Mar. 26, 1903.
" 15	Cut off 1895 rights.
" 16	Cut off Aug. 18, 1894 rights.
" 18	Filled 50% Feb. 6, 1895 rights.
" 19	Filled 1895 rights.
" 21	Restored all rights, discontinued regulation.

WATER SUPPLY

Runoff at typical measuring stations during the year ending

September 30, 1946, was as follows:

<u>Station</u>	<u>1946 runoff (acre-ft.)</u>	<u>Average runoff past years (acre-ft.)</u>	<u>Years of record</u>	<u>1946 per- cent of average</u>
Snake R. at Moran	1,059,000	1,025,000	43	103
Snake R. nr. Heise	5,301,000	5,028,000	43	105
Snake R. at Neeley	5,925,000	5,675,000	50	104
Fall R. nr. Squirrel	548,400	536,900	33	102
Teton R. nr. St. Anthony	582,900	540,300	19	108
Henrys Fk. at Warm R.	753,970	716,700	32	105
Henrys Fk. nr. Rexburg	1,444,000	1,389,000	38	104

The runoff at Moran and Heise has been corrected for Jackson Lake holdovers; at Neeley for American Falls holdovers; at Warm River for Henrys Lake and Island Park holdovers; at Rexburg for

Henrys Lake, Island Park and Grassy Lake holdovers; at Squirrel for Grassy Lake holdovers; and at St. Anthony for discharge from Cross Cut Canal into Teton River.

There was a surprising uniformity of runoff in relation to average of past years at the various measuring stations, ranging from 2% above normal on Fall River to 8% above normal on Teton River and averaging about 4% above normal on Snake River.

Peak flow of Snake River at Heise occurred on June 7, amounting to 25,800 sec.-ft.; Jackson Lake was full at that time and spilling 8,800 sec.-ft. Some overflow and bank erosion resulted, especially along the north bank of the river between Lorenzo and mouth of Henrys Fork. The canals along the north bank of the river between Heise and Lorenzo were unable to divert adequate amounts of water late in the season when the river flow was lowered due to decreased demand by downstream canals. In this section the main river channel during recent years seems to have a tendency to shift southward, requiring the canal companies to dig new channels from the main river flow to their canal headings. They are now confronted with the necessity of building temporary dams and channels in the old river bed each late summer or else join together to build a dam and feeder canal diverting from the river in the vicinity of the Ririe railroad bridge.

Total runoff of the river just below the Milner dam for the year ending September 30, 1946, amounted to 2,678,000 acre-ft. Allowing 155,000 acre-ft. for Idaho Power Company primary and secondary rights at Milner leaves 2,520,000 acre-ft. of water that spilled to waste.

The following table shows reservoir holdovers during the past ten years:

Holdovers on Sept. 30 in acre-feet

<u>Year</u>	<u>Jackson Lake</u>	<u>American Falls</u>	<u>Lake Walcott</u>	<u>Henrys Lake</u>	<u>Island Park</u>	<u>Grassy Lake</u>	<u>Total</u>
1937	232,020	411,900	50,520	1,700	0	0	696,140
1938	398,710	684,720	79,430	25,100	0	0	1,188,010
1939	313,170	252,050	76,770	49,200	52,700	0	743,890
1940	166,350	264,380	- 900	36,500	17,050	520	483,900
1941	226,110	319,800	18,850	38,900	39,230	8,170	651,060
1942	321,330	410,360	93,550	43,810	60,620	10,910	940,580
1943	650,340	897,050	42,710	76,200	84,050	14,750	1,765,100
1944	300,570	534,450	78,020	55,900	51,900	6,420	1,027,260
1945	568,030	924,820	91,460	64,200	56,775	13,400	1,718,685
1946	402,740	713,970	83,770	62,700	51,465	12,110	1,331,755
Average	357,940	541,850	61,420	45,420	51,600(a)	9,470(b)	1,067,700

(a) 8 years

(b) 7 years

The combined capacity of the above reservoirs when full is 2,872,000 acre-ft. The total holdover has not dropped below 1,000,000 acre-feet since 1942, and even during the relatively dry years of 1940 and 1941 it was about 1/2 million acre-feet. Increased use of stored water in the upper valley during the past decade from Island Park Reservoir and American Falls lease water exchanged for Jackson Lake storage has resulted in retaining on the watershed water that would otherwise have spilled to waste. Ground water levels in the upper valley now are, in many areas, higher than formerly existed, resulting in increased return flow to the river above Blackfoot as well as to American Falls reservoir.

The beneficial results to lower valley canals of this increased use of water in the upper valley is shown in the following table of average natural flow at Neeley during typical years, at times when no natural flow was passing the lowest canal heading near Blackfoot

and no unusual inflow existed below Blackfoot.

<u>Year</u>	<u>Natural Flow at Neeley (sec.-ft.)</u>	
1905	2,060	Before any reservoir construction
1915	2,160	
1924	2,500	
1931	2,700	
1934	2,450	
		Year of lowest runoff ever recorded on Snake River following 5 years of subnormal water supply.
1937	2,700	
1942	2,760	
1945	2,900	
1946	2,930	

The increased flow of the springs between Blackfoot and American Falls not only furnishes more natural flow for direct use during the late summer but also supplies a greater winter inflow for storage in American Falls reservoir.

TRANSFERS AND EXCHANGES

No permanent transfers of place of use were made during the year. Two changes in point of diversion were authorized by the State Reclamation Engineer, as follows:

- Handl Brown*
- Order granting Lizzie Brown, 3 sec.-ft. Oct. 16, 1890 priority, Change formerly diverted thru Butte & Market Lake Canal; No. 185 hereafter to be pumped directly from river onto lands to be irrigated.
- No. 187 Joe G. Kruse, 2.4 sec.-ft. June 1, 1908 priority, point of diversion changed to better facilitate irrigation of land in Swan Valley.

One sec.-ft. of water was spilled from Kelly Springs into the river and diverted thru the Sunnydell canal. The Arnsberger canal water was diverted at times thru the Mattson & Craig canal. Two sec.-ft. of West Labelle water was diverted thru the White ditch. Some Island Canal water was used at times by the Dilts canal, both having a common diversion from the river. Part of the Steele water was diverted thru the Cheney ditch.

LITIGATION

Two summary decree rights were awarded in suits in Fremont County by the following plaintiffs against the watermaster:

Idaho Irrigation District: 100 sec.-ft. June 1, 1922, 100 sec.-ft. June 1, 1932, 100 sec.-ft. June 1, 1936. These are flood water rights established since the entry of the old Rexburg decree in 1910.

Harry J. Kruse: 2.4 sec.-ft. June 1, 1908 priority from So. Fork Snake River thru Brandywine Slough for use on lands in Swan Valley.

CANAL DELIVERIES

Daily diversions by upper valley canals May to September between Heise and Blackfoot are shown on Plates 6 to 10 inclusive. No records were secured of upper valley diversions during the non-irrigation season. Daily diversions for the entire year by lower valley canals are shown on Plates 34 to 44 inclusive. Occasional measurements of the discharge of principal canals and streams on headwater areas are shown on Plate 24.

Total diversions by all canals in the District, including estimates for headwater diversions, as computed for the 1946 watermaster bill, amounted to 7,250,000 acre-ft., or 483,000 acre-ft. greater than in 1945.

Diversions during 1946 irrigation season by
Snake River Canals (downstream order from Heise)

Canal	Diversions (acre-ft.)	Irrigated area (acres)	Acre-feet per acre
Riley	4,200	800	5.2
Anderson & Eagle Rock	204,000 (a)	31,508	6.5
Farmers Friend	94,500	10,200	9.3
Enterprise	33,800	5,000 (b)	6.7
Nelson	416	60	6.9
Mattson & Amsberger	3,880	500	7.8
Ross & Rand	960	160	6.0
Butler Island	13,400	1,150	11.6
Steele	1,760	250	7.0
Harrison	116,000	12,000	9.7

Canal	Diversions (acre-ft.)	Irrigated area (acres)	Acre-feet per acre
Cheney	1,650	200	8.2
Rudy & Boomer	54,500	5,500	9.9
Kite & Nord	1,630	235	6.9
Burgess	223,000	20,000	11.1
Clark & Edwards	21,100	1,800	11.7
Lowder & Jennings	11,000	1,000	11.0
East Labelle	31,000	2,400	12.9
Sunnydell	33,200	3,600	9.2
Lenroot	29,100	3,800	7.7
Reid	32,200	5,200	6.2
Texas Feeder	52,300	8,000	6.5
Nelson Corey	1,950	460	4.2
Hill Pettinger	617	150	4.1
Rigby	44,000	4,000	11.0
Dilts	6,570	525	12.5
Island	39,500	3,400	11.6
W. Labelle & Long Island	122,000	9,000	13.6
Parks & Lewisville	85,300	7,000	12.2
North Rigby	14,600	1,200	12.2
White	838	120	7.0
Ellis	1,060	120	8.8
Bramwell	1,400	200	7.0
Butte & Market Lake	85,900	18,000	4.8
Osgood	29,000	6,500	4.5
Bear Island & Smith	630	170	3.7
Idaho	253,000 (a)	35,466	7.1
Kennedy	11,100	2,340	4.7
Great Western & Porter	192,000	28,900	6.6
Coy & Keller	162	70	2.3
Woodville	21,100	3,000	7.0
Snake River Valley	152,000 (a)	21,000	7.2
Reservation	234,000 (c)	33,000	7.1
Blackfoot	77,500	12,500	6.2
New Lava Side	38,000	5,500	6.9
Peoples	127,000	18,000	7.1
Aberdeen	311,000	61,000	5.1
Corbett	40,700	5,000	8.1
Nielsen-Hansen	1,850	460	4.0
Riverside	32,200	3,000	10.7
Danskin	52,500	6,000	8.7
Trego	15,700	1,500	10.5
Wearyrick	14,200	1,500	9.5
Watson	28,600	4,800	6.0
Parsons	6,320	800	7.9
Minidoka Irr. Dist.	462,870	71,039	6.5
Burley Irr. Dist.	279,870	46,000	6.1
North Side Canal Co.	1,046,000	161,480	6.5

Canal	Diversions (acre-ft.)	Irrigated area (acres)	Acre-feet per acre
Twin Falls Canal Co.	1,020,000	202,661	5.0
Milner Low Lift	53,620	9,033	5.9
Gooding Project	409,750	59,300	6.9
Total	6,278,003	957,557	6.6

- (a) Received some additional water from Willow and Sand Creeks.
- (b) About 1,900 acres of this supplied thru Eagle Rock Canal after July 16.
- (c) 64,000 from Snake River, balance from Blackfoot River and Sand Creek.

Total diversions by the main river canals as above tabulated were 496,000 acre-ft. greater in 1946 than in 1945, but were slightly less than the 6,333,000 acre-ft. diverted in 1939.

Of the 3,272,110 acre-ft. diverted by lower valley canals, 1,160,745 acre-ft., or 35%, was stored water. Of the 3,005,893 acre-ft. diverted by upper valley main river canals 291,260 acre-ft., or 9.7%, was storage.

Increased diversion by the Butte & Market Lake Canal over previous years was due to canal enlargement during the past two years.

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>
1937	392	600	658	520	361	2531
1938	356	680	628	592	465	2721
1939	585	620	691	564	393	2853
1940	548	630	594	462	289	2523
1941	444	618	648	492	434	2636
1942	314	684	720	588	391	2697
1943	417	545	750	666	510	2888
1944	327	406	679	610	415	2437
1945	337	455	700	629	453	2574
1946	504	585	738	606	400	2833
Average	422	582	681	573	411	2669

Henry's Fork and Tributaries
(excluding headwater creeks)

<u>Year</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
1937	200	223	163	126	84	796
1938	185	238	180	159	119	881
1939	228	225	206	167	117	943
1940	230	213	182	136	92	853
1941	209	216	183	146	93	847
1942	151	243	211	176	103	884
1943	165	209	218	188	119	899
1944	157	176	192	178	102	805
1945	141	181	206	168	109	805
1946	215	212	206	175	93	901
Average	188	214	195	162	103	862

1939-46 figures are after deduction for water spilled from
Cross Cut Canal into Teton River.

Minidoka 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>
1937	18	145	130	176	156	96	721
1938	32	147	145	145	167	113	749
1939	77	164	130	165	159	97	792
1940	35	162	156	173	159	50	735
1941	20	152	125	169	148	90	704
1942	15	87	155	181	170	101	709
1943	33	162	105	182	167	103	752
1944	16	115	85	180	167	106	669
1945	7	121	122	178	167	102	697
1946	30	154	136	180	160	82	742
Average	28	141	129	173	162	94	727

North Side Canal Co. Project

1937	40	176	185	228	218	126	973
1938	51	180	201	211	212	155	1010
1939	95	208	197	217	215	111	1043
1940	61	176	194	208	193	103	935
1941	67	186	172	206	194	110	935
1942	71	178	189	217	221	161	1037
1943	70	195	180	222	225	170	1062
1944	47	156	159	219	219	163	963
1945	54	185	177	223	220	154	1013
1946	61	206	201	226	226	137	1057
Average	62	185	185	218	214	139	1003

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>
1937	57	191	179	217	216	144	1004
1938	55	186	187	198	215	167	1008
1939	126	208	195	215	221	150	1115
1940	70	191	201	220	220	126	1028
1941	101	194	174	209	214	138	1030
1942	82	175	177	212	216	149	1011
1943	97	200	166	214	221	156	1054
1944	53	160	148	212	218	161	952
1945	53	184	175	214	217	156	999
1946	78	202	194	213	217	133	1037
Average	77	189	180	212	218	148	1024

Gooding Project

1937	10	60	66	75	68	43	322
1938	3	39	61	76	74	63	316
1939	31	76	69	79	75	53	383
1940	18	71	82	91	83	57	402
1941	21	71	75	96	88	63	414
1942	18	77	78	96	90	67	426
1943	2	64	62	91	92	57	368
1944	5	63	73	93	90	67	391
1945	14	75	77	90	80	61	397
1946	19	80	85	90	79	57	410
Average	14	68	73	88	82	59	384

Diversions were generally above normal except during September when requirements dropped off due to rains which, though spotted and not too heavy, were enough to reduce total irrigation demands at that time of year. Precipitation during the irrigation season was generally below normal thruout the irrigated area, except at Pocatello, where the apparent excess over normal may be due to moving the location of the measuring station from the city to the airport.

RIVER DATA

Segregation of stored water and normal flow at the several gaging stations is shown on Plates 12-13. The computed losses between various stations as tabulated on these plates were based on the transmission loss schedule approved at the annual water meeting and given on page 1.

The segregation of stored water and natural flow was made on the same basis used for a number of years past. At Moran the daily drop in Jackson Lake is converted into second-feet and is listed as stored water, the balance of the daily discharge being called normal flow. To avoid marked fluctuations in the computed normal flow from day to day the computed quantities are smoothed out by averaging over short periods. Cuts in natural flow rights are made to lag a day or two behind actual drop in stream flow during the early period of storage release from Jackson Lake until about 10,000 to 15,000 acre-feet of stored water has been delivered as natural flow. This is to compensate the normal flow users for reservoir losses that occur when the Lake is full as well as river bank storage resulting from the higher river stages caused by running stored water. This water is recovered later on in the season for stored water owners from bank storage return as Jackson Lake is lowered and return flow along the river when the storage releases are greatly reduced.

The computed quantities of stored water released at Moran minus stored water transmission losses and storage diversions and plus storage balances at Rexburg from Henrys Fork operation and inflow from Market Lake Springs are carried downstream as far as Blackfoot, giving a result shown on the Plates as "Theoretical balance of storage at Blackfoot." Prior to the date when the 1900 priorities are cut this same quantity is shown as stored water at the Clough measuring station and is subtracted from the total flow at the station to get normal flow at that point. After the 1900 rights are cut and there is no more normal flow to go past Blackfoot, it is assumed that the normal flow at Cloughs would be 170 second-feet of rising water immediately

above the Clough station plus the flow in Blackfoot river, any balance at Cloughs being classed as stored water spilled past Blackfoot.

Stored water discharged past Clough during the season amounted to 56,371 sec.-ft. or 111,810 acre-ft. This is considerably more than normally spilled due to three rainy spells, one beginning about August 23 and two in September. These restored normal flow rights requiring the stored water enroute from Jackson Lake to be spilled into American Falls. When rains occur late in the season it is impossible to foretell three days in advance what the demand and available normal flow will be and it takes some time for the situation to adjust itself. The spill was about 5% of the 2,200,000 acre-ft. diverted by upper valley canals during the storage delivery months July to September. At mid-August the rate of drop in Jackson Lake indicated that the Lake would drop to about 300,000 acre-ft. by September 30. The rains thereafter resulted in about 50,000 acre-ft. of spill past Blackfoot that probably would not have occurred otherwise, but in spite of this fact it was possible to make cuts in the releases from Jackson Lake enough to hold 100,000 acre-ft. of the surplus from the rains in the Lake and the season closed with about 400,000 acre-ft. holdover in Jackson Lake.

The daily normal flow at Neeley is calculated by adding to the normal flow at Cloughs the inflow from Cloughs to Neeley. Meter measurements of the inflowing streams were made on or about May 7, June 4, June 25, July 19, Aug. 8, 16, Sept. 24. Daily records of the flow of Portneuf River at Pocatello and the Aberdeen wasteways are available. The various detailed figures used in calculating the

Clough to Neeley inflow are shown on Plate 11.

The computed daily normal flow at Neeley is delivered to the downstream canals, without loss or gain, according to their various rights and any additional water diverted by them is called stored water. The net gain from Neeley to Milner is thus classed as storage and is allotted to the Minidoka Project on days when that project is drawing storage.

STORED WATER DELIVERIES

The contract amounts of water were allotted by the Bureau of Reclamation in the Jackson Lake and American Falls reservoirs as follows:

1946 Allotment in Acre-feet (Downstream order from Heise)

<u>Canal</u>	<u>American Falls</u>		<u>Jackson</u>	<u>Total</u>
	<u>Regular</u>	<u>Lease</u>		
Poplar Irr. Dist.	793	291	1,200	2,284
Progressive Irr. Dist.	14,609	6,110	0	20,719
Farmers Friend			2,000	2,000
Enterprise Canal Co.	10,509	4,046	6,100	20,655
Harrison Canal Co.	11,994	5,015	5,000	22,009
Rudy Canal Co.	2,000	835	2,000	4,835
Burgess Canal Co.	7,496	3,568	5,120	16,184
Lowder Slough			1,040	1,040
Sunnydell Irr. Dist.			4,000	4,000
Lenroot Canal Co.	4,504	1,883	3,000	9,387
Reid Canal Co.	3,002	1,156		4,158
Dilts Irr. Co.	1,034	432		1,466
Enterprise Irr. Dist.	12,000	7,657		19,657
Butte & Market Lake	3,002	1,156		4,158
Utah-Idaho Sugar Co.	15,852	9,630		25,482
Idaho Irr. Dist.	26,986	9,910		36,896
Kennedy Canal			355	355
New Sweden Dist.	28,528	11,931	5,000	45,459
Martin Canal Co.	2,250	825	1,500	4,575
Bear Island	225	82		307
Smith Ditch	79	32		111
Woodville Canal Co.	9,000	770		9,770
Snake River Valley Dist.	27,643	12,152	15,000	54,795
Blackfoot Canal Co.	15,033	5,787		20,820
Peoples Canal Co.	22,519	17,417	8,000	47,936

1946 Allotment in acre-feet (cont'd)

<u>Canal</u>	<u>American Falls</u>		<u>Jackson</u>	<u>Total</u>
	<u>Regular</u>	<u>Lease</u>		
Aberdeen-Springfield	41,333	59,076	42,685	143,094
Corbett Slough	4,000	1,540		5,540
Trego Ditch Co.	1,462	563		2,025
Minidoka Irr. Dist.	50,000		186,030	236,030
Burley Irr. Dist.		19,660	139,780	159,440
Milner Low Lift	34,113	13,134		47,247
Twin Falls Canal Co.	151,185		97,183	248,368
Hillsdale Irr. Dist.	41,146			41,146
N. S. Canal Co.	279,110	139,235	322,007	740,352
Idaho Power Co.	45,000			45,000
American Falls R. Dist. #2	400,000			400,000
U. S.		99,700		99,700
Total	1,266,407	433,593	847,000	2,547,000

The United States withheld 99,700 acre-ft. of the lease water, of which it resold 48,309 acre-feet, all in the upper valley. Of this amount 39,632 acre-ft. was sold at 15¢ per acre-ft. to leaseholders and the balance of 8,677 acre-ft. was sold at 30¢ per acre-ft. to non-leaseholders. About August 1 the Government suddenly decided to curtail further sales of lease water to upper valley users for fear of an adverse effect that the exchange of such water for Jackson Lake water might have on the top rights in Jackson Lake. Except for this fact there probably would have been demand for about 5,000 acre-ft. additional lease water. The watermaster was able to secure 4,305 acre-ft. from Henrys Lake users to take care of pending commitments and use by a number of individuals prior to the time the Government announced that it wouldn't lease any more water. The Government later revised its decision to the extent of renting some additional water to the Sunnyside District and Aberdeen Project.

The amounts of water rented by the Government and others to the various canals are shown in detail on Plates 14, 22 and 23.

The allotment of Lake Walcott water was 96,870 acre-ft., contents on July 1 when storage draft began from American Falls. The Minidoka Project was also allotted 61,500 acre-ft. gain Neeley to Milner during periods when it was drawing stored water.

Market Lake Springs discharged 1,008 acre-ft. into the river during the period of storage use which was delivered to the Owners Mutual Irrigation Company thru the Kennedy ditch.

1808 122 20 84/107
61 65

The American Falls reservoir loss during period of storage draft July 1 to Sept. 21, amounting to 10,740 acre-ft. or 0.63% of reservoir capacity, was not charged to the individual canals in the tabulations on Plate 14. It is necessary to apportion any such loss among the canals in years when they use all of their storage, but the holdover at American Falls at the end of the 1946 season was far more than sufficient to insure enough water to fill that reservoir in 1947.

Stored water spilled past Milner amounted to 15,213 acre-ft., of which 9,273 acre-ft. was charged to the Idaho Power Co., leaving 5,940 acre-ft. leakage and operation waste that was not distributed among the canals due to large holdovers that they all held. This item was about balanced by a credit of 5,500 acre-ft. gain Neeley to Milner occurring on days when the Minidoka Project was not drawing storage.

The Idaho Power Company drew 1,382 acre-ft. from normal flow of primary storage past Milner September 24-30 after the canals had ceased storage draft.

Total supply and disposal of stored water during the season was as follows:

Supply

Jackson Lake, July 8	847,230	acre-ft.
American Falls, July 1	1,700,560	"
Lake Walcott, July 1	96,870	"
Grassy Lake, Aug. 7	15,167	"
Island Park, July 5	132,550	"
Henrys Lake, July 5	82,029	"
Gain Neeley to Milner*	67,000	"
Sheridan Creek right*	1,603	"
Market Lake Springs*	1,008	"
Idaho Power Co. used from nat. flow Sept. 24-30*	1,382	"
Total	2,945,400	"

Disposal

Used by Snake River rights	1,461,278	acre-ft.
Used by Henrys Fork rights	107,722	"
Transmission losses Snake R.	39,697	"
Transmission losses Henrys Fk.	3,149	"
American Falls Res. loss	10,740	"
Storage waste past Milner	5,940	"
Henrys Lake loss	1,967	"
<u>Holdovers</u>		
Jackson Lake, Sept. 21	397,600	"
American Falls, Sept. 22	694,970	"
Lake Walcott, Sept. 22	94,950	"
Island Park, Sept. 19	51,385	"
Henrys Lake, Sept. 20	64,067	"
Grassy Lake, Sept. 19	12,114	"
Total	2,945,579	"

*Not reservoir storage but handled on same basis
for convenience in tabulation.

The following tabulation shows storage used from Jackson Lake and American Falls reservoirs during 1946. In preparing this table all upper valley canals were charged with 7.26% loss from reservoir to headgates. Lower valley canals were charged with 0.63% loss on water actually used from American Falls during the period of storage draft.

Storage used during 1946 Irrigation Season
From Jackson Lake and American Falls
Acre-feet

	<u>Jackson Lake</u>		<u>American Falls</u>	
	<u>at Reservoir</u>	<u>at Headgate</u>	<u>at Reservoir</u>	<u>at headgate</u>
Aberdeen Project	42,685	39,585	61,665	57,185
American Falls Dist. #2	0	0	215,253	213,897
Austin (Lyle)	155	144	0	0
Austin (Smith)	0	0	58	54
Blackfoot Irr. Co.	0	0	331	307
Burgess Canal Co.	5,120	4,748	12,560	11,650
Minidoka Project	185,034 (a)	183,868 (a)	0	0
Butte & Market Lake	0	0	335	311
Corbett Slough	0	0	1,461	1,355
Dilts Irr. Co.	0	0	196	182
Enterprise Canal Co.	6,100	5,657	13,240	12,280
Enterprise Irr. Dist.	0	0	11,516	10,680
Farmers Friend	1,629	1,511	0	0
Harrison Canal	5,000	4,637	6,844	6,347
Idaho Irr. Dist.	0	0	10,865	10,076
Idaho Power Co.	0	0	9,332	9,273
Klussman	0	0	226	210
Lenroot Canal	3,000	2,782	3,652	3,386
Lowder Slough	348	323	0	0
Martin Canal Co.	1,500	1,391	3,221	2,987
Milner Low Lift	0	0	29,713	29,526
New Sweden Dist.	5,000	4,637	11,889	11,026
North Side Project	17,648 (a)	17,537 (a)	459,491	456,596
Owners Mutual (Kennedy)	200	185	0	0
Peoples	8,000	7,419	16,438	15,244
Poplar Irr. Dist.	1,200	1,113	915	849
Progressive Irr. Dist.	0	0	10,870	10,080
Reid Canal	0	0	130	121
Rudy Canal	2,000	1,855	5,037	4,672
Snake R. Valley Irr. Dist.	15,000	13,910	30,115	27,935
Sunnydell	3,928	3,643	0	0
Trego	0	0	289	268
Twin Falls Canal	0	0	101,591	100,951
Utah-Idaho Sugar Co.	0	0	11,236	10,421
Woodville Canal	0	0	3,358	3,114
Non-lease rentals	0	0	6,712	6,224
Total	303,547	294,945	1,038,539	1,017,207

(a) Exchanged for American Falls.

RIVER LOSSES AND GAINS

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

Gain in Snake River, Moran to Heise, 1946
(Heise dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Moran	16,092	137,310	151,250	133,318	48,384	486,354
Heise & Riley	455,177	537,614	365,895	259,033	161,227	1,778,946
Tot. gain s.f.	439,085	400,304	214,645	125,715	112,843	1,292,592
Mean gain s.f.	14,164	13,343	6,924	4,055	3,761	8,448
Tot. gain ac.ft.	870,913	793,991	425,742	249,352	223,821	2,563,819

Except during May the gain was less each month than in 1945, being about 1,300 sec.-ft. mean daily flow less in August and averaging 600 sec.-ft. less during the season. This was due to deficient precipitation during the summer months as the snow supply on April 1, 1946, was slightly greater than a year earlier. During the 5 months period the gain was 73% of the total runoff at Heise, compared to 82% during the same period in 1945.

Gain in Snake River, Heise to Shelley, 1946
(Heise dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Heise & Riley	455,177	537,614	365,895	259,033	161,227	1,778,946
Rexburg	103,000	73,450	28,449	36,873	49,190	290,962
Tot. Supply	558,177	611,064	394,344	295,906	210,417	2,069,908
Diversions	171,818	212,519	265,780	222,080	148,510	1,020,707
Shelley	403,800	424,380	148,950	106,780	90,910	1,174,820
Total Use	575,618	636,899	414,730	328,860	239,420	2,195,527
Tot. gain s.f.	17,441	25,935	20,386	32,954	29,003	125,619
Mean gain s.f.	563	861	658	1,063	967	821
Tot. gain ac.ft.	34,594	51,243	40,435	65,363	57,527	249,162

The gain for the season was 32% greater than a year ago. The July-Sept. gain averaged 895 sec.-ft. daily compared to 776 sec.-ft. in 1945 and 688 sec.-ft. in 1944. Ground water levels in the Rigby area in 1946 were the highest ever recorded, appearing in a number of basements and cellars.

Gain or loss in Snake River, Shelley to Clough Ranch, 1946
- is loss
(Shelley dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Shelley	406,300	432,090	151,090	108,230	90,810	1,188,520
Blackfoot R.	12,079	7,684	2,185	1,860	3,445	27,253
Tot. Supply	418,379	439,774	153,275	110,090	94,255	1,215,773
Diversions	82,187	82,509	106,411	83,438	53,189	407,734
Clough	331,820	355,170	46,258	29,668	46,474	809,390
Total Use	414,007	437,679	152,669	113,106	99,663	1,217,124
Tot. diff. s.f.	-4,372	-2,095	-606	3,016	5,408	1,351
Mean diff. s.f.	-141	-70	-20	97	180	9
Tot. diff. ac.ft.	-8,672	-4,155	-1,202	5,982	10,726	2,679

There was considerably more gain and less net loss in this section than during the preceding year. Probably greater waste occurred from the canals and higher ground levels existed for several miles upstream from Cloughs than previously. The gain from rising water above Cloughs with the river dry below the Blackfoot bridge appeared to be about 170 sec.-ft. in 1946.

Gain or loss in Snake River, Clough to Neeley, 1946
- is loss
(Neeley dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Clough	335,220	367,105	50,443	29,448	46,508	828,724
Inflow	103,815	90,172	85,599	86,546	88,072	454,204
Res. Draft	-58,390	-18,443	227,356	221,299	47,021	418,843
Total Supply	380,645	438,834	363,398	337,293	181,601	1,701,771
Neeley	368,920	421,500	355,500	339,330	182,240	1,667,490
Tot.diff.s.f.	-11,725	-17,334	- 7,898	2,037	639	-34,281
Mean diff.s.f.	- 378	- 578	- 255	66	21	- 224
Tot.diff.ac.ft.	-23,256	-34,381	-15,665	4,040	1,267	-67,995

Reservoir losses occurred during May, June and July when American Falls lake was at high levels, but the return flow from bank storage during August and September was sufficient to overcome the reservoir losses during those months and leave a small net gain. The total reservoir loss during the period of storage draft July 1-Sept. 21, was 10,740 acre-ft. or 0.63% of reservoir capacity.

Gain or loss in Snake River, Neeley to Minidoka, 1946
- is loss
(Minidoka dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Neeley	370,040	420,520	355,230	339,880	184,660	1,670,330
Walcott.draft	-7,694	333	96	- 429	8,011	317
Total Supply	362,346	420,853	355,326	339,451	192,671	1,670,647
N. Minidoka	45,362	38,485	50,680	42,950	22,700	200,177
S. Minidoka	32,489	30,298	39,840	37,524	18,902	159,053
Minidoka	289,010	352,880	263,180	258,820	153,710	1,317,600
Total Use	366,861	421,663	353,700	339,294	195,312	1,676,830
Tot.diff.s.f.	4,515	810	-1,626	- 157	2,641	6,183
Mean diff.s.f.	146	27	- 52	- 5	88	40
Tot.diff.ac.ft.	8,955	1,607	-3,225	- 311	5,238	12,264

The tendency towards more gain and less loss in this section than formerly that was mentioned in the 1945 report continued during 1946. While measuring conditions at the Minidoka River station are rather poor much of the time due to moss growth, it seems apparent from the records for several years past that there now is less loss in Lake Walcott than in former years. This may be due to silting of the leaky sections of the Lake bed, to reduction of ponded areas of the Lake by the C.C.C., or to greater groundwater inflow into the upstream half of the Lake, supplied by leakage from American Falls Reservoir.

Gain in Snake River, Minidoka to Milner Stations, 1946
(Milner dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Season
Minidoka	291,990	352,300	263,000	259,380	156,440	1,323,110
P. A.	1,922	1,850	1,874	1,718	1,471	8,835
Milner Low Lift	5,707	5,199	5,959	5,975	3,687	26,527
Gooding	64,360	67,320	75,840	70,140	56,030	333,690
North Side	78,270	74,740	81,290	82,280	40,225	356,805
South Side	101,870	97,540	107,410	109,420	67,180	483,420
Milner	42,777	112,618	643	1,984	5,117	163,139
Total Use	294,906	359,267	273,016	271,517	173,710	1,372,416
Tot. gain s.f.	2,916	6,967	10,016	12,137	17,270	49,306
Mean gain s.f.	94	232	323	391	576	322
Tot. gain ac.ft.	5,784	13,819	19,867	24,074	34,255	97,799

The gain for the season was 30,000 acre-ft. less than in 1945, due to less gain during May and June. The gain July to September was about 3,000 acre-ft. greater than during the same period a year ago.

The gain Neeley to Milner during the period of storage use July 1 to September 22 (American Falls dates) amounted to 67,000 acre-ft., of which 61,500 acre-ft. were credited as storage allotment to the Minidoka project on days when it was using stored water.

DISTRIBUTION ON HENRYS FORK

Mr. Melvin Luke, Manager of the Fremont-Madison Irrigation District, continued during 1946 as deputy watermaster on Henrys Fork, Fall River, and Lower Teton River. The Henrys Lake, Island Park and Grassy Lake reservoirs all filled and overflowed. Storage draft from Island Park and Henrys Lake began on July 5. About 3,000 acre-ft. were released from Grassy Lake Aug. 7-22 to do some work on the spillway. There was no need for water in 1946 that required any storage releases from Grassy Lake.

In making the segregation between stored and normal flow at the outlet of Island Park Reservoir the stored water was computed from the daily reservoir drop, the balance at the measuring station being called normal flow. Where irregularities appeared in the normal flow when so computed, mostly due to wind action affecting the lake

gage, the quantities were smoothed out over a few days period. From July 6-25 inclusive, the normal flow was increased 30 sec.-ft. to allow for reservoir loss to get the figures shown on Plate 21. This was recovered for the reservoir owners by decreasing the computed normal flow 30 sec.-ft. Aug. 12-31 when reservoir bank storage return was draining back into the stream. Thus during the entire period of storage withdrawals the total amount of storage passing the outflow station is the same as the drop in reservoir contents. This procedure is based on the comparative results of inflow-outflow records prior to and for a few years following the construction of Island Park dam.

The following regulation schedule was in effect on Henrys Fork on the dates indicated. At other times regulation was according to the Snake River schedule shown on pages 12 and 13.

July 4	Cut off 1903 rights
" 6	Cut off 1902 rights
" 8	Restored 1902 rights
" 10	Cut off 1898 rights
" 13	On Snake River schedule

The Teton River was regulated according to the Snake River schedule except Aug. 8-20 inclusive when the supply on Teton River only partly filled the June 1, 1885 rights.

Several trips were made into the Henrys Lake-Island Park region regulating water during July and August. The users there rented 881 acre-ft. from Henrys Lake which was released to replace natural flow diverted by canals whose rights had been cut off.

A controversy arose between the Boom Creek Canal Company and Squirrel Creek Irrigation Company over water diverted by the former from Boom Creek and dumped into Squirrel Creek in Wyoming. When Squirrel Creek crosses the Idaho-Wyoming state line with the diverted

water included in its flow, the question was whether the Idaho watermaster should deliver all the water in the stream according to Idaho priority rights or whether he should first permit the Boom Creek Canal Company to divert the water it dumped into Squirrel Creek in Wyoming. The following opinion was rendered by the Idaho Attorney-General:

July 24, 1946

"It appears that the Boom Creek Canal Company was awarded 5,000 inches of water under an adjudication dated in 1910 with a priority of appropriation as of September 15, 1901. And it further appears that the Squirrel Creek Irrigation Company has a decree of water from Squirrel Creek in the amount of 1,000 inches, priority date of appropriation being September 1, 1901. The Boom Creek Canal Company constructed an artificial channel diverting water from Boom Creek into Squirrel Creek, which channel was constructed in the State of Wyoming. The water comes into the State of Idaho in the Squirrel Creek Channel and the question is whether this water belongs to the Squirrel Creek Irrigation Company or to Boom Creek Canal Company.

"I am of the opinion that the water belonging to the Boom Creek Canal Company even though it be diverted and runs through the Squirrel Creek channel is water belonging to the Boom Creek Canal Company.

"Your attention is called to Section 41-105, Idaho Code Annotated which provides:

'The water appropriated may be turned into the channel of another stream and mingled with its water, and then reclaimed; and water may be turned into any ditch, natural channel or waterway from reservoirs or other sources of water supply, and such water may be substituted or exchanged for an equal amount of water diverted from the stream, creek or river into which such water flows, or any tributary thereof, but in reclaiming the water so mingled, or diverting water in lieu thereof from any such stream, creek, river or tributary, the amount of water to which prior appropriators may be entitled shall not be diminished, and due allowance shall be made for loss by evaporation and seepage.'

See Reno vs. Richards
32 Idaho 1

Berg vs. Twin Falls Canal Company
36 Idaho 62.

"It is my opinion that unless the right to the use of the water of Boom Creek, diverted and permitted to flow down the channel of

Squirrel Creek, has been abandoned by the water users of the Boom Creek Canal Company so that the right to such water has been lost, the water so diverted is subject to being reclaimed by the Boom Creek Canal Company and remains the water of such company.

Yours very truly,

FRANK LANGLEY
Attorney General."

The question at issue in this case is further complicated by the fact that after the 1901 rights are cut in Idaho neither of the canals is entitled to the water under its priority rights but must replace any water diverted from Squirrel Creek with storage. At present the Squirrel Creek Irrigation Company owns stored water in the Fremont-Madison Irrigation District which it can use for this purpose, but the Boom Creek Canal Company owns no storage, hence after its priority is cut it is unable to divert the water it dumps into Squirrel Creek from Boom Creek.

Stored water allotments on Henrys Fork during 1946 were as follows:

Henrys Lake Allotment, 1946

Contents July 5	82,029 acre-ft.
Estimate dead storage & loss	<u>3,000</u> "
Available for allotment	79,029 "

Allotted as follows:

Dewey	1.43%	1,130 acre-ft.
Last Chance	13.87	10,961 "
St. Anthony Union	6.8	5,374 "
Salem Union	24.2	19,125 "
Egin	6.8	5,374 "
Independent	26.8	21,180 "
Consolidated Farmers	<u>20.1</u>	<u>15,885</u> "
Total	100 %	79,029 "

The drawdown in Henrys Lake from July 5 to September 30 was 19,329 acre-ft. The total amount of storage released at the outflow

station, based on subtracting estimated daily inflow to the lake from total outflow, was 17,362 acre-ft., giving an indicated loss in Henrys Lake from evaporation and seepage during the drawdown period of 1,967 acre-ft.

Fremont-Madison District Storage Allotment, 1946

Island Park Reservoir, July 5	132,550 acre-ft.
Grassy Lake, Aug. 7	15,167 "
Yield of Sheridan Creek decree	<u>1,603 "</u>
Total	149,320 "

The District continued to refuse to rent any water in 1946 to lands outside the District on account of its dissatisfaction with the terms imposed by the Government on such rentals. It would facilitate the rental of water on Henrys Fork and render unnecessary rentals of American Falls water in that area if the Government would modify its present ruling and permit the Fremont-Madison District to rent water as it desires and to apply income from such rentals to current bills. The amount of such rentals outside of the District would aggregate only a few thousand acre-feet annually, an insignificant percent of the district's water supply or annual bills due the Government.

The allotments by the Fremont-Madison District to the canals serving its lands are shown in detail on Plates 22-23. Original allotments, covering space subscribed for, amounted to 124,462 acre-ft. Supplemental allotments of 20% to users who exhausted their original allotment amounted to 6,973 acre-ft. This allows the users needing to do so to use a proportionate part of the District's as yet unallocated space on which they are assessed to make the payments due the Government. The District also rented 602 acre-ft. to owners of lands within the District who exhausted their other allotments.

The storage balance for the season at Rexburg was -3,929 sec.-ft. or -7,793 acre-ft., meaning net use of 7,793 acre-ft. of Snake River storage by Henrys Fork canals. Actual charges for Snake River storage follows, measured at canal headgates:

Canyon Creek Irr. Dist.	1,113	acre-ft.
Marysville Canal	185	"
Enterprise Irr. Dist.	<u>10,680</u>	"
Total	11,978	"
Rented by Henrys Lake to Snake River canals	<u>2,924</u>	"
Net Balance	9,054	"

The difference between 9,054 acre-ft. actual use and 7,793 acre-ft. balance at Rexburg, or 1,261 acre-ft., represents an operation overdraft of that amount during the season on Island Park reservoir. This was due to restoration of natural flow rights during several rainy periods requiring the spill of storage for a few days until cuts at Island Park dam could become effective at the canal headings.

The Cross Cut Canal was in operation from July 3 to September 14 to supply lands under the Fall River Canal system. From July 22 to August 24 it also discharged water into Teton River for use on that stream. Due to sink holes in the canal there was a loss of about 1,400 acre-ft. or 13.8% on the water carried to Teton River, compared to about 10% loss in previous years. Detailed figures on the operation of this canal are shown on Plate 22-A

Four of the Henrys Lake owners who did not need to use any water from that reservoir in 1946 rented the following amounts to meet rental commitments made by the watermaster before the government notified him early in August that it would make no further rentals of

American Falls water involving exchange for Jackson Lake top rights.

St. Anthony Union	505 acre-ft.
Egin	505 "
Consolidated Farmers	1,496 "
Salem Union	1,799 "
Total	4,305 "

Of the foregoing rentals 1,381 acre-ft. were on Henrys Fork and tributaries and 2,924 acre-ft. on the main Snake River.

Diversions during 1946 irrigation season on
Henrys Fork, Fall River, and lower Teton River.

Canal	Diversions (acre-ft.)	Area Irrigated (acres)	Acre-ft. per acre.
<u>Fall River Canals</u>			
Yellowstone	1,400	1,000	1.4
Marysville	31,900	15,000	2.1
Farmers Own	10,900	4,500	2.4
Enterprise	37,800	5,930	6.4
Bell	2,000	320	6.3
Fall R. & Chester	107,100 (a)	9,350	11.5
McBee	1,080	160	6.8
Silkey	2,400	520	4.6
Cur	9,060	1,500	6.0
Total Fall River	203,640	38,280	5.3
<u>Henrys Fork Canals</u>			
Dewey	4,640	1,000	4.6
Last Chance	14,300	1,840	7.8
St. Anthony Union	129,000	10,000	12.9
Farmers Friend	27,000	2,900	9.3
Twin Groves	32,100	2,500	12.8
Salem Union	47,000	5,200	9.0
Egin	77,000	6,000	12.8
St. Anthony Un. Feeder	18,000	2,000	9.0
Independent	62,600	7,000	8.9
Consolidated Farmers	50,900	6,000	8.5
Total Henrys Fork	462,540	44,440	10.4
<u>Lower Teton Canals</u>			
Siddoway	2,540	500	5.1
Wilford	27,900	1,900	14.7
Teton Irrigation	18,600	2,000	9.3
Good Luck	3,600	360	10.0
Pioneer	2,310	350	6.6
Stewart	3,670	370	9.9
Pincock-Byington	1,980	320	6.2

Canal	Diversions (acre-ft.)	Area Irrigated (acres)	Acre-ft. per acre
<u>Lower Teton Canals (cont'd)</u>			
Pincock-Garner	5,310	400	13.3
Teton Island Feeder	76,300	10,400	7.3
North Salem	710	400	1.8
Roxana	1,730 (b)	720	2.4
Island Ward	11,300	3,000	3.8
Woodmansee-Johnson	6,250 (c)	1,000	6.2
City of Rexburg	9,730	1,200	8.1
Rexburg Irrigation	53,400	5,400	9.9
McCormick Rowe	625	150	4.2
Saurey Sommers	5,220	600	8.7
Gardner	2,170	200	10.8
Eames-Thompson	117	20	5.8
Total Lower Teton River	233,512	29,290	8.0
Total Fall River, Henrys Fork & Lower Teton River	899,692	112,010	8.0

(a) Includes 18,200 acre-ft. diverted thru Cross Cut Canal.

(b) Used some additional from Henrys Fork thru Consolidated Farmers Canal.

(c) Used some additional from Moody Creek and Teton Irr. Canal waste.

Total diversions in the entire area were about 10% greater than during 1945, and have only been exceeded by those in 1939 when they were about 43,000 acre-ft., or 5%, greater than in 1946.

Stored water diverted by the foregoing canals aggregated 102,568 acre-ft. or 11.4% of their total diversions, compared to 7.4% in 1945.

Diversions by several of the larger canals in the headwater areas were as follows for the period May 15 to September 30, 1946:

Canal	Diversions (acre-ft.)	Area (acres)	Acre-feet per acre
String Canal	7,810	2,000	3.9
Trail Cr. Irrig.	24,750	4,500	5.5
Fox Cr. Irrig.	9,500	3,635	2.6
Grand Teton Canal	24,100	6,000	4.0
Canyon Cr. Canal	4,350	2,400	1.8
Conant Cr. Canal	3,800	2,570	1.5
Squirrel Cr. Canal	636	450	1.4
Total	74,946	21,555	3.5

River Gains in Henrys Fork Basin, 1946

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

Lake to Island Park	20 hrs.
Island Park to Warm River	14 "
Warm River to Ashton	5 "
Ashton to St. Anthony	5 "
St. Anthony to Rexburg	12 "
Squirrel to Chester	8 "
Tetonia to St. Anthony	10 "

Gain in Henrys Fork, Lake to Island Park Stations, 1946

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

Station	May	June	July	Aug.	Sept.	Season
Lake	1,668	2,593	4,376	5,742	1,548	15,927
I. P. release	- 925	1,072	16,465	20,122	4,832	41,566
Total Supply	743	3,665	20,841	25,864	6,380	57,493
Island Park	33,079	22,634	34,786	40,536	21,765	152,800
Tot. gain s.f.	32,336	18,969	13,945	14,672	15,385	95,307
Mean gain s.f.	1,043	632	450	473	513	623
Tot. gain ac.ft.	64,137	37,624	27,659	29,102	30,516	189,038

The gain during July, August, and September was practically the same as a year ago. Due to less runoff in June, however, the total for the year was about 9,000 acre-ft. less than in 1945.

Gain in Henrys Fork, Island Park to Warm River stations, 1946

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

Station	May	June	July	Aug.	Sept.	Season
Island Park	33,300	22,936	34,356	40,812	21,936	153,340
Warm River	52,050	36,660	47,470	51,770	32,012	219,962
Tot. gain s.f.	18,750	13,724	13,114	10,958	10,076	66,622
Mean gain s.f.	605	457	423	353	336	435
Tot. gain ac.ft.	37,190	27,221	26,011	21,735	19,986	132,143

The seasonal gain was 21,000 acre-ft. less than in 1945, being about the same as in 1944. It was less in each month except July.

Gain in Henrys Fork, Warm River to Ashton Stations, 1946

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

Station	May	June	July	Aug.	Sept.	Season
Warm River	52,206	36,795	47,316	51,874	32,082	220,273
Ashton	76,950	50,910	59,820	63,930	42,770	294,380
Tot. gain s.f.	24,744	14,115	12,504	12,056	10,688	74,107
Mean gain s.f.	798	470	403	389	356	484
Tot. gain ac.ft.	49,079	27,997	24,802	23,913	21,200	146,991

The gain was less each month than during the previous year, being 24,000 acre-ft. less during the five months period. Here as elsewhere the June runoff was especially light due to deficient precipitation that month. This section includes the Ashton power dam and reservoir of the Utah Power & Light Company.

Gain in Fall River, Squirrel to Chester Stations, 1946

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

Station	May	June	July	Aug.	Sept.	Season
Squirrel	56,517	49,887	18,513	16,376	15,590	156,883
Diversions	14,975	21,493	16,517	14,512	9,161	76,658
Chester	52,060	35,759	4,291	4,145	8,822	105,077
Tot. acct. for	67,035	57,252	20,808	18,657	17,983	181,735
Total gain s.f.	10,518	7,365	2,295	2,281	2,393	24,852
Mean gain s.f.	339	246	74	74	80	162
Tot. gain ac.ft.	20,862	14,608	4,552	4,524	4,747	49,293

The gain was less each month than during 1945, the total difference for the season amounting to 16,000 acre-ft.

Loss or Gain in Henrys Fork, Ashton to St. Anthony Stations, 1946(St. Anthony dates and 24-hr. sec.-ft. except as noted)
- is loss

Station	May	June	July	Aug.	Sept.	Season
Ashton	77,260	51,069	59,674	64,036	42,839	294,878
Chester	52,191	36,011	4,347	4,111	8,802	105,462
Total Supply	129,451	87,080	64,021	68,147	51,641	400,340
Diversions	34,415	29,008	32,270	30,221	15,296	141,210
St. Anthony	91,020	56,046	31,647	38,030	38,458	255,201
Total acct. for	125,435	85,054	63,917	68,251	53,754	396,411
Tot. gain s.f.	-4,016	-2,026	- 104	104	2,113	-3,929
Mean gain s.f.	- 130	- 68	- 3	3	70	- 26
Tot. gain ac.ft.	-7,966	-4,019	- 206	206	4,191	-7,794

An apparent loss existed for the first three months and a small gain for the last two months. The reason for this condition is unknown. For the entire season there was an average loss of 26 sec.ft. compared to an average gain of 71 sec.-ft. in 1945.

Gain in Teton River, Tetonia to St. Anthony Stations, 1946

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

Station	May	June	July	Aug.	Sept.	Season
Tetonia	17,718	20,973	16,212	12,269	10,729	77,901
Gross Cut	0	0	751	2,304	0	3,055
Total Supply	17,718	20,973	16,963	14,573	10,729	80,956
St. Anthony	49,800	43,920	28,653	22,357	18,265	162,995
Tot. gain s.f.	32,082	22,947	11,690	7,784	7,536	82,039
Mean gain s.f.	1,035	765	377	251	251	536
Tot. gain ac.ft.	63,634	45,514	23,187	15,439	14,947	162,721

The seasonal gain was 65,000 acre-feet less than in 1945 and about the same as in 1934. The 1946 gain was 105% of the seasonal runoff at the Tetonia station compared to 98% in 1945, indicating some groundwater holdover from 1945 that drained out in 1946.

Gain in Henrys Fork and Teton River, St. Anthony to Rexburg Stations, 1946

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

Station	May	June	July	Aug.	Sept.	Season
St. Anthony	91,020	56,046	31,647	38,030	38,458	255,201
Teton R.	49,800	43,920	28,653	22,357	18,265	162,995
Total Supply	140,820	99,966	60,300	60,387	56,723	418,196
H. Fork diver.	29,010	22,572	23,360	20,448	9,784	105,174
Teton diver.	29,391	29,596	26,148	21,134	11,369	117,638
Rexburg	101,985	72,080	28,404	37,103	49,330	288,902
Tot. acct. for	160,386	124,248	77,912	78,685	70,483	511,714
Tot. gain s.f.	19,566	24,282	17,612	18,298	13,760	93,518
Mean gain s.f.	631	809	568	590	459	611
Tot. gain ac.ft.	38,809	48,162	34,933	36,293	27,292	185,489

The total gain for the season was 37,000 acre-ft. more than in 1945 due to greater gain in May and June. The canals in this section diverted 53,000 acre-ft. more water during those two months in 1946

than they did in 1945, thereby increasing the return flow and waste back to the river. Very little water (20 sec.-ft. or less) spilled past the Rexburg Irrigation Company dam on Teton River from July 15 to August 22, but during the balance of the season water spilled from Teton River into Henrys Fork.

TETON BASIN

Mr. Dean Hill was employed as deputy watermaster in Teton Basin from June 10 to September 9. The runoff of the streams in that area was less than during 1945 but no unusual difficulty was experienced in distributing the available water supply.

The agreement between upper and lower users on Teton River for exchange of natural flow for storage, in effect for several years past, was continued during 1946. Under this agreement the upper users are entitled to divert 1.75 acre-ft. for each acre-ft. of storage that they deliver on lower Teton River. Allowing for losses in the river and Cross Cut canal this figures out that on the basis of water owned in Island Park reservoir they can divert at the rate of 1.71 to 1 when the Cross Cut canal is not in use and 1.53 to 1 when they are delivering storage thru the Cross Cut canal at 10% loss to lower Teton River. For 1946 conditions the average ratio was 1.64 to 1.

From August 8-20 the Teton Basin regulation was for the benefit of lower Teton River users who were cut to earlier priorities than Snake River during this period. Water used in Teton Basin during this period was credited as follows, reservoir measurement in acre-feet, Teton Island Feeder 1,026, Roxana 100, Woodmansee-Johnson 157.

During the balance of the period of storage use regulation in Teton Basin was for the benefit of prior rights on Snake River and Henrys Fork.

Teton Basin users in the Fremont-Madison Irrigation District were allotted 6,662 acre-ft. of storage which was increased by supplemental allotments and rentals to 7,827 acre-feet, reservoir measurement. Under the exchange arrangement this entitled them to divert 12,828 acre-ft. of which they actually diverted 7,305 acre-ft. Many of the tributary creeks in Teton Basin drop by midsummer to such low flows that if turned down the stream channel they would not reach Teton River. Based on channel loss measurements and tests in past years the discharge is known at which these streams would break and after they drop to that point the water on such creeks is regulated according to the priority of rights on the creeks each as a separate stream. Thus on such streams the owners of late priority rights are unable to use any stored water thru exchange for natural flow after the creeks drop below the discharge at which they would fail to reach Teton River.

Detailed records of storage use and stream flow in Teton Basin are shown on Plates 23 and 24.

Interstate regulation on Teton Creek was by T. R. Wilson for Wyoming and Dean Hill for Idaho. Measurements were reported by them as follows, figures in sec.-ft.

Date	Waddel	Central	North	South	Grand Teton	Total	% Wyoming Decreases filled
Aug. 3 before reg.	5.9	12.9	20.5	21.0	21.3	81.6	
Aug. 3 after reg.	3.8	5.7	16.0	15.4	40.7	81.6	53%
Aug. 6 before reg.	3.3	4.9	16.3	11.8	23.9	60.2	
Aug. 6 after reg.	3.0	4.5	12.5	12.2	28.0	60.2	41.6%
Aug. 9 before reg.	2.3	4.1	11.3	8.0	22.1	47.8	
Aug. 9 after reg.	2.2	3.3	9.4	9.0	23.9	47.8	31%
Aug.13 before reg.	2.2	3.0	9.8	8.3	20.5	43.8	
Aug.13 after reg.	2.0	3.1	8.6	8.2	21.9	43.8	28.4%
Aug.16 before reg.	2.0	3.0	7.5	8.0	18.0	38.5	
Aug.16 after reg.	1.8	2.7	7.5	7.2	19.3	38.5	25%
Aug. 13	No regulation required due to rains						18%

Two sets of measurements of loss in Trail Creek were made by Roy W. Thompson, Supervisor of Water Distribution, office of Mark Kulp, State Reclamation Engineer. Reports by him were as follows:

Measurement of June 7, 1946

"In compliance with the agreement between the upper and lower water users on the Teton River, in Water District No. 36, requesting the State Department of Reclamation to make a series of test measurements to determine the transit loss on the waters of Trail Creek and Teton River, I wish to report that I arrived in Victor, Idaho, on the evening of June 4, 1946, prepared to make the necessary measurements.

"On the following day, accompanied by the local watermaster on Trail Creek, all head gates on ditches diverting from Trail Creek were partially closed and the waters turned down the lower section of Trail Creek into the Teton River. The lower section of Trail Creek was built up to its maximum capacity; however, due to the rising of the waters of Trail Creek during the day, part of said water had to be turned back into the ditches to keep the lower channel from overflowing.

"Meter measurements were taken to determine carriage losses in Trail Creek, on June 7th, by the writer, assisted by Mr. Eagle from Mr. Crandall's office, and accompanied by Mr. Eph Ricks and Mr. Martin Nave, representing the Lower Teton water users, and Mr. Howard Tonks, representing the Upper Teton water users.

"The results of the measurements are as follows:

Summary of Meter Measurements, June 7, 1946

	First Section	Computations in second feet
Inflow-	Trail Creek -	293.5
	Game Creek -	120.5
	Into Kinball Ditch -	1.2
	Total Supply -	415.2
Diversions	String Canal-	50.7
	Kimball-	38.6
	Town	44.3
	Ricks-Kerseley	38.6
	Spencer	50.1
	Humble	18.1
	Edwards	1.2
	Tonks	20.1
	Porter	8.9
	Total diversions	270.6
	Trail Creek at Porter Bridge	<u>72.0</u>

First Section - cont'd Computations in second feet

Total accounted for in section-	-	342.6	
Channel loss in second feet-	-	- 72.6	
Percentage of loss first section - -			17.48%

Second Section

Trail Creek at Porter Bridge -		72.0	
Diversions - Johnson Ditch	1.6		
Trail Creek above live water	57.8		
Total accounted for in section		<u>59.4</u>	
Channel loss in second feet -		12.6	
Percentage of loss second section -			17.5%

Overall Transit Loss

Total supply to Trail Creek from all sources	415.2	
Total accounted for -	<u>330.</u>	
Total transit loss	85.2	
Total per cent loss		20.52%

"The above percentages of loss as given are not comparable to the actual channel loss, on account of the total supply being greater than the channel capacity.

"Transit losses on Teton River not determined, due to high water."

Measurement of September 9, 1946

"In compliance with the agreement between the upper and lower water users on the Teton River and Trail Creek, in Water District No. 36, requesting the State Department of Reclamation to make a series of test measurements to determine the transit loss on the waters of Trail Creek and Upper Teton River.

"All diversions from Trail Creek were closed off, except for leakage through and around faulty headgates, on the morning or during the day of September 7th, to allow for a flow of water through the dry section of Trail Creek for a period of 48 hours before measurements were taken. Gates were closed by Mr. Hill, Assistant Watermaster of Water District No. 36, assisted by Mr. Jim Ingram, watermaster for the waterusers from Trail Creek.

"On September 9th, the measurements were made by the writer, assisted by Mr. Hill, and accompanied by Mr. Nave and Mr. Ricks representing the Lower Teton River water users, and Mr. Tonks representing the water users on Trail Creek. Measurements were taken in the same places and in conformity with previous measurements, Trail Creek being divided into two sections, and Teton River into the third section.

"The results are as follows:

Loss by sections - Computations in cubic feet per second

Section 1- Trail Creek

Supply- Trail Creek above String Creek	60.41
Game Creek at Highway	<u>13.14</u>
Total Supply	73.55

Diversions- String Canal	1.20
Kimball	.73
Town Canal	5.19
Ricks-Kersley	.73
Spencer	1.12
Humble	.00
Tonks	1.51
Porter	<u>.10</u>
Total diversions in section	10.58
Trail Creek at Porter Bridge	<u>44.12</u>

Total accounted for in section	<u>54.70</u>
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Transit loss in section	18.85
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Percentage loss in section	25.63
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Section 2- Trail Creek

Supply at Porter Bridge	44.12
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Diversions in section	None
Trail Creek at live water	<u>23.28</u>

Transit loss in section	20.84
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Percentage loss in section	47.23
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Total transit loss in Trail Creek to live water	39.69 c.f.s.
Percentage of loss	53.96

Section 3- Teton River

From rising water in Trail Creek to Tetonia Gaging Station on Teton River

Trail Creek at live water	23.28
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Duration of flow approximately 48 hours,
which produced an increased flow in
Teton River at Tetonia gaging station
of 32 24-hour second-feet during a
period of four days

Section 3- Teton River (cont'd)

Supply - 2 X 23.28 c.f.s. =	46.56	24-hour second feet		
Increased flow at Tetonia gaging station	32.00	"	"	"
Transit loss in stream	14.56	"	"	"
Transit loss in per cent		31.27		
Over all carriage loss from Trail Creek above diversion to Tetonia Gaging Station				44. c.f.s.
Over all percentage loss		73.33		

Over all loss was obtained by deducting the amount reaching Tetonia Gaging Station from the total supply of Trail Creek, which was figured as the total measured supply minus diversions and carrying losses on diversions in first section.

Channel Condition

"The Trail Creek channel below the bridge at the Porter Ditch heading is completely filled with drift, causing the flow of water to overflow the banks and separate the flow of water into numerous streams before returning to the original channel, thus adding to the amount of carriage loss."

Miscellaneous MeasurementsWest Side Creeks in Teton Basin
above diversions

Stream	Discharge in second-feet		
	June 11, 12	June 28	Aug. 14
Packsaddle Creek	22.4		2.9
Horseshoe Creek	23.0		5.2
Twin Creek (North)	3.0		0.3
Twin Creek (Middle)	1.0		0.1
Twin Creek (South)	0.3		Dry
Mahogany Creek	38.4	16.4	6.3
Paradise Creek	4.6		5.0
Bouquet Creek	3.0		0.3
Patterson Creek	5.1		2.2
X Creek	0.2		0.3
Grove Creek	1.5		2.0
Warm Springs	1.5		1.3
Drake Springs	1.2		1.0
Johns Creek	3.7		1.0
Deep Creek	0.5		0.4
Pine Creek	5.1		0.4
Warm Creek	14.7		8.6

DISTRIBUTION IN SWAN VALLEY SECTION

Mr. Lloyd Brown continued as deputy in this section during 1946. He also acted as watermaster on the local canals. By agreement with the local users \$1.50 per day of his salary was specially charged to them for this service, the balance being charged as a general expense of District 36.

The Swan Valley users rented 1,620 acre-feet of stored water from Henrys Lake during 1946, about twice as much as they used in 1945.

The most vexing operation problem in this section and on other headwater areas occurs after all or most of the rights on the various creeks are cut off. The users then rent stored water or use owned storage which is turned out of the reservoirs to replace the natural flow of the creeks retained by these persons. The natural flow in the creeks, however, drops rapidly and is far less than enough to supply the irrigation needs, and the question arises how is the available supply to be apportioned among the various users on a storage exchange basis.

It hardly seems equitable to let the water all be used by the earliest priorities if they are already cut off as their status then is no better than a later priority. In most cases the local deputy watermaster and the users on a particular creek have been able to work out a rotation schedule whereby the available supply is split up into average size irrigation streams and rented to the various users for time intervals in proportion to acreage irrigated. On some of the streams where the local users don't get along very well with each other and cannot agree on anything among themselves, the watermaster

is obliged to set up arbitrary schedules dividing the water among those who own storage or want to rent it. Usually this is done on an acreage basis but difficulties arise, for example, where one man is irrigating pasture for cattle and another is irrigating a field of potatoes where he will lose his year's crop unless he gets another irrigation. Those with the earliest priorities think they should have first right to use stored water. The amounts of water involved in these cases is insignificant in proportion to total use of water in the entire District, but it is a serious matter to the particular individuals concerned. In Teton basin various users on the creeks have already acquired permanent storage rights in the Fremont-Madison Irrigation District and users in Swan Valley and elsewhere will acquire similar rights when and if Palisade reservoir is built. It is likely that controversies among creek users over the right to exchange storage for natural flow will eventually get into Court, resulting in decrees providing some basis of apportioning the natural flow among those owning storage that they desire to exchange for the available natural flow.

PRECIPITATION IN INCHES

(Actual and normal for year ending Sept. 30, 1946)

Month	Grassy L. Wyo.		Moran, Wyo.		Jackson, Wyo.		Afton, Wyo.		Irwin, Ida.	
	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.
Oct.	3.43	2.57	1.32	1.68	.72	1.23	1.00	1.80	1.45	1.27
Nov.	6.68	5.35	2.47	1.65	1.01	.92	2.02	1.04	.76	1.12
Dec.	7.03	6.90	3.21	1.85	2.02	1.52	2.51	1.24	2.50	1.21
Jan.	5.07	4.85	2.24	2.31	.42	1.62	1.06	1.46	1.14	1.42
Feb.	4.59	5.41	1.87	2.23	.94	1.57	.89	1.40	.88	1.15
Mar.	5.09	4.61	1.89	2.08	2.13	1.32	1.51	1.58	1.55	1.14
Apr.	1.77	2.61	.86	1.77	.57	1.35	.74	1.48	.38	1.06
May	2.47	4.00	1.78	1.87	1.94	1.76	2.34	1.99	2.37	1.67
June	1.23	4.32	.45	1.83	.32	1.35	.76	1.62	.86	1.53
July	1.07	.98	.87	1.21	.53	.92	.56	1.11	.25	.97
Aug.	.69	1.63	.62	1.40	.40	1.43	1.14	1.18	.25	.87
Sept.	3.00	2.25	2.29	1.65	2.33	1.48	1.55	1.44	1.63	1.18
Year	42.12	45.48	19.87	21.53	13.33	16.47	16.08	17.34	14.02	14.59

Month	Ashton		Idaho Falls		Pocatello		Twin Falls		Av. 9 Stas.	
	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.
Oct.	0.39	1.32	0.20	1.02	.69	1.68	0.37	0.94	1.06	1.50
Nov.	1.32	1.27	.22	.79	.72	1.03	1.05	1.08	1.81	1.58
Dec.	2.77	1.63	.84	1.08	.72	1.15	1.34	.88	2.55	1.94
Jan.	1.25	1.88	.30	1.31	.85	1.34	1.26	1.10	1.51	1.92
Feb.	.64	1.52	.34	.97	.84	1.20	.53	.85	1.28	1.81
Mar.	1.83	1.21	1.12	1.08	2.63	1.28	1.76	.85	2.17	1.68
Apr.	.27	1.16	.14	.94	.48	1.47	.11	1.11	.59	1.44
May	1.85	1.71	1.28	1.24	1.86	1.73	.48	1.03	1.82	1.89
June	.76	1.66	.49	1.21	1.30	1.09	.37	.81	.73	1.71
July	.29	.94	.13	.62	.33	.68	.15	.35	.46	.87
Aug.	.23	.79	.52	.59	.82	.50	.17	.22	.54	.96
Sept.	.76	1.12	.52	.82	.90	.74	.69	.57	1.52	1.25
Year	12.36	16.21	6.10	11.67	12.14	13.89	8.28	9.79	16.04	18.55

Precipitation was generally above normal during November, December, March and September. It was about normal during May and mostly below normal during the remaining months. For the year as a whole it was about 91% of normal in the headwater areas and averaged about 75% of normal in the irrigated valley. The year's average precipitation for the nine stations shown was 86% of normal.

EXPENDITURES DURING YEAR ENDING DECEMBER 31, 1946

Engineers and Hydrographers

Lynn Crandall	Salary 1 year	\$6,441.24
Henry C. Eagle	" 1 year	4,154.20
Melvin Luke	" 5 months @ \$250.00	1,250.00
Oleen Dummer	" 3.43 " @ \$200.00	685.16
A. H. Bush	" 3.29 " @ \$200.00	658.06
J. Dean Hill	" 3.47 " @ \$200.00	693.34

Clerk

Charlotte M. Elg	Salary 1 year	2,314.97
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River Riders

D. R. Crystal	86 days @ \$7.50 incl. mileage	645.00
H. M. Bramwell	87 " @ \$7.50 " "	652.50
D. W. Dick	36 " @ \$8.50 " "	306.00
Eugene Liljenquist	86 " @ \$7.00 " "	602.00
Lloyd Brown	81 " @ \$7.50 " "	607.50
Joe Bohi	82 " @ \$8.00 " "	656.00
Don Riggs	81 " @ \$7.75 " "	627.75
Norbett Lenz	2.77 mo. @ \$60. mo." "	166.31

Miscellaneous

Transportation, 37,270 mi. @ 6¢ a mile	\$2,236.20
Telephone and Telegraph	316.16
Supplies and equipment	1,103.72
Gage Readers	713.29
Bond Premium and Insurance	53.90
Miscellaneous	509.41
Total	\$25,392.71

Expenditures from various funds

Water-users funds	\$14,221.55
State of Idaho Stream Gaging fund	2,505.33
U. S. Geological Survey	7,745.13
Federal Planning funds	450.00
Idaho Federal Stations - Idaho Falls	470.70
Total	\$25,392.71

In addition to the foregoing, upper valley members of the Committee of Nine were paid \$151.00 for services @ \$5.00 per day and expenses, which was pro-rated among upper valley canals.

Funds on hand January 1, 1947

District No. 36 Water Distribution Fund	\$10,308.95
State of Idaho Stream gaging fund	1,250.00
U. S. Geological Survey	1,327.14
Idaho Federal Stations - Idaho Falls	229.30
Total	\$13,115.39

PRINCIPAL STREAMS AND GAGING STATIONS WATER DISTRICT NO. 36



- | NO. | STATION |
|-----|---|
| 1 | JACKSON LAKE AT MORAN |
| 2 | SNAKE RIVER AT MORAN |
| 3 | SNAKE RIVER NEAR HEISE |
| 4 | SNAKE RIVER NEAR SHELLEY |
| 5 | SNAKE RIVER AT GLOUGH RANCH, NEAR BLACKFOOT |
| 6 | AMERICAN FALLS RESERVOIR AT AMERICAN FALLS |
| 7 | SNAKE RIVER AT NEELY |
| 8 | LAKE WALCOTT NEAR MINIDOKA |
| 9 | NORTH SIDE CANAL NEAR MINIDOKA |
| 10 | SOUTH SIDE CANAL NEAR MINIDOKA |
| 11 | SNAKE RIVER NEAR MINIDOKA |
| 12 | P. A. LATERAL NEAR MILNER |
| 13 | GOODING CANAL AT MILNER |
| 14 | NORTH SIDE CANAL AT MILNER |
| 15 | SOUTH SIDE CANAL AT MILNER |
| 16 | MILNER LOW LIFT CANAL AT MILNER |
| 17 | SNAKE RIVER AT MILNER |
| 18 | HENRY'S LAKE NEAR LAKE |
| 19 | HENRY'S FORK NEAR LAKE |
| 20 | ISLAND PARK RESERVOIR NEAR ISLAND PARK |
| 21 | HENRY'S FORK NEAR ISLAND PARK |
| 22 | HENRY'S FORK AT WARM RIVER |
| 23 | HENRY'S FORK NEAR ASHTON |
| 24 | GRASSY LAKE NEAR MORAN |
| 25 | FALL RIVER NEAR SQUIRREL |
| 26 | FALL RIVER NEAR CHESTER |
| 27 | HENRY'S FORK AT ST. ANTHONY |
| 28 | TETON RIVER NEAR TETONIA |
| 29 | TETON RIVER NEAR ST. ANTHONY |
| 30 | HENRY'S FORK NEAR NEZBUND |
| 31 | BLACKFOOT RIVER NEAR BLACKFOOT |

CONTENTS IN ACRE-FEET

800,000

700,000

600,000

500,000

400,000

300,000

200,000

100,000

0

November

December

January

February

March

April

May

1943-44

1945-46

1942-43

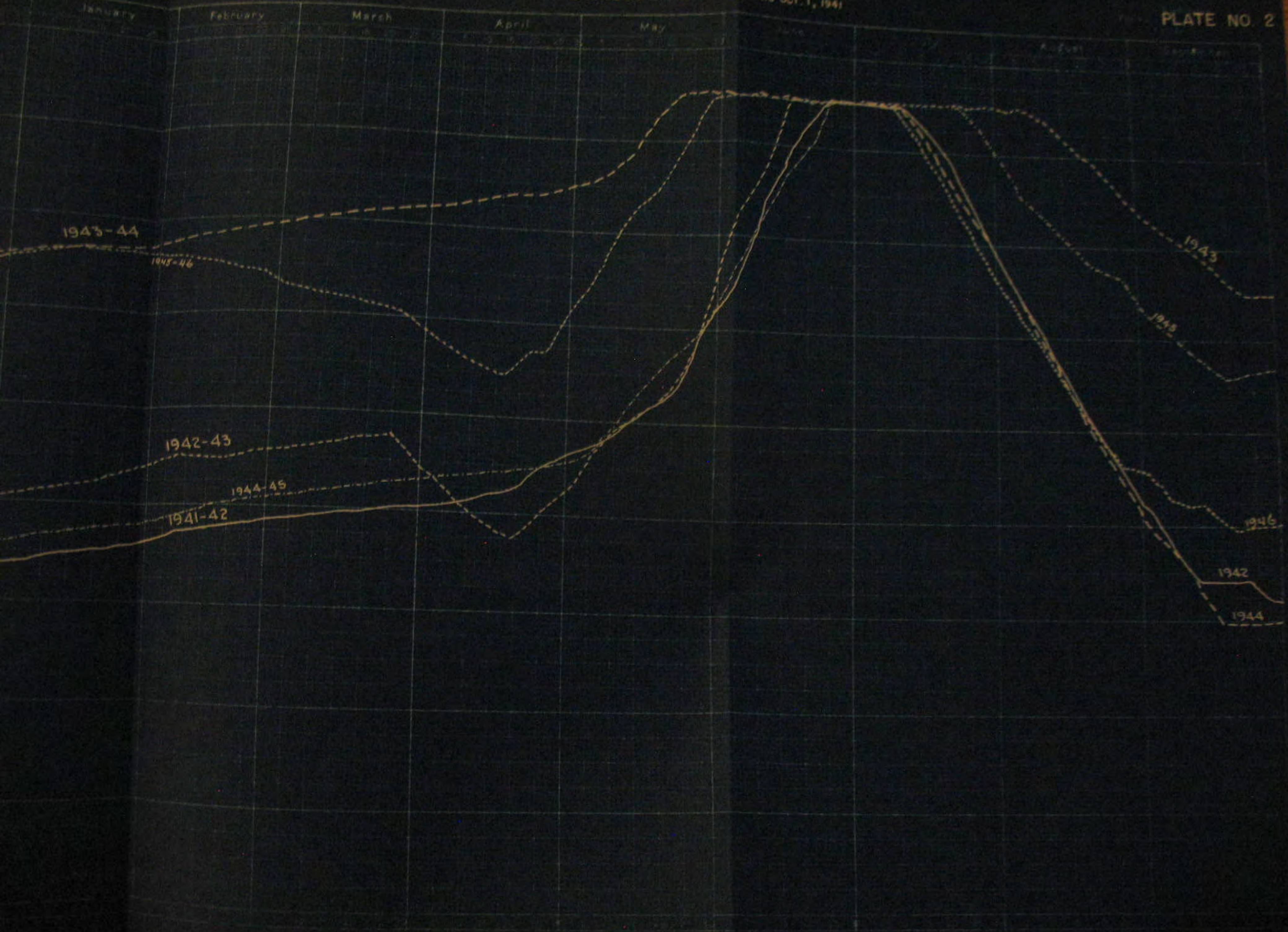
1944-45

1941-42

Started by

Checked by

Date



8-2-41, 10-1-41

UNITED STATES DEPARTMENT OF THE INTERIOR

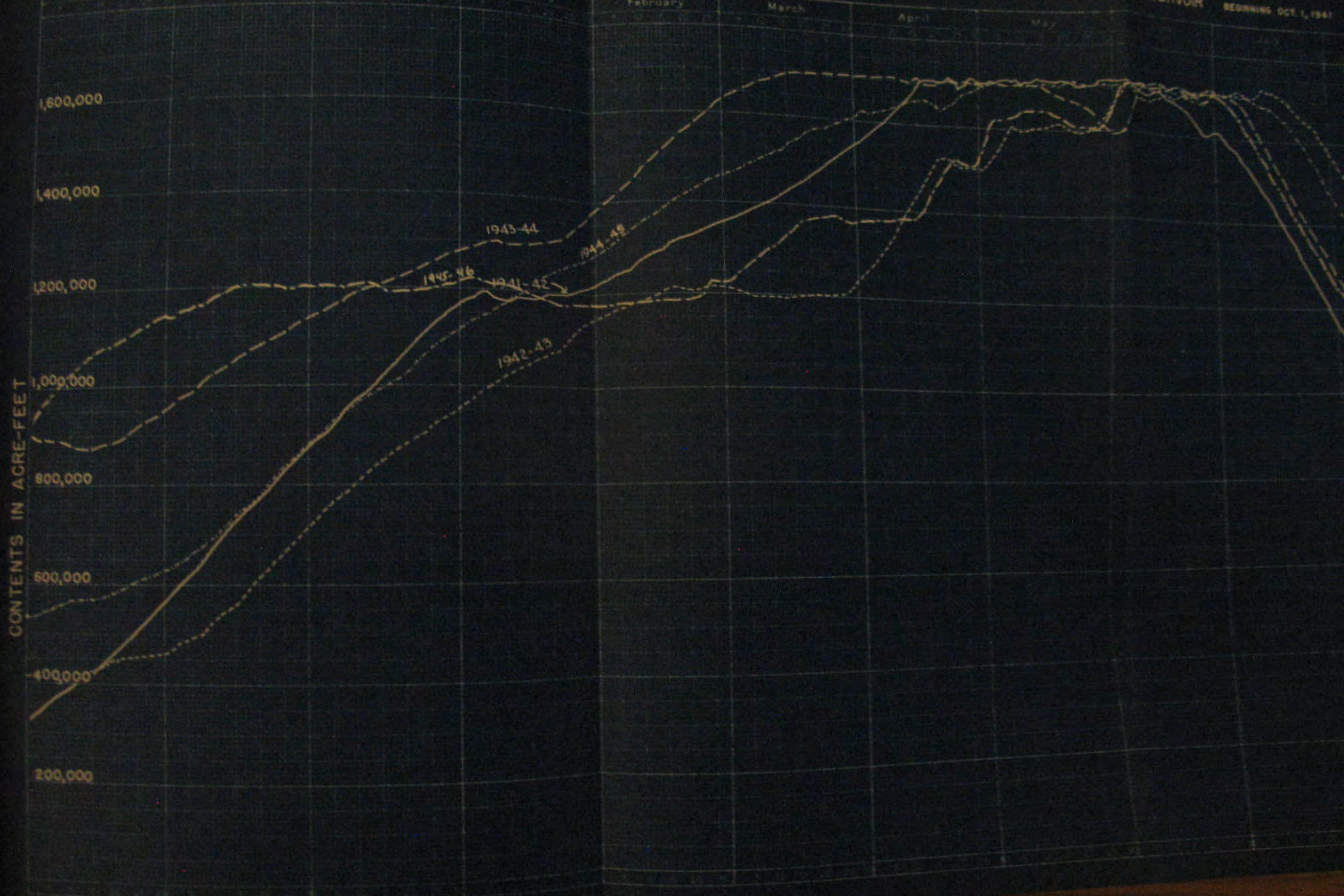
GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

HYDROGRAPH FOR

AMERICAN FALLS RESERVOIR

BEGINNING OCT. 1, 1941



Plotted by

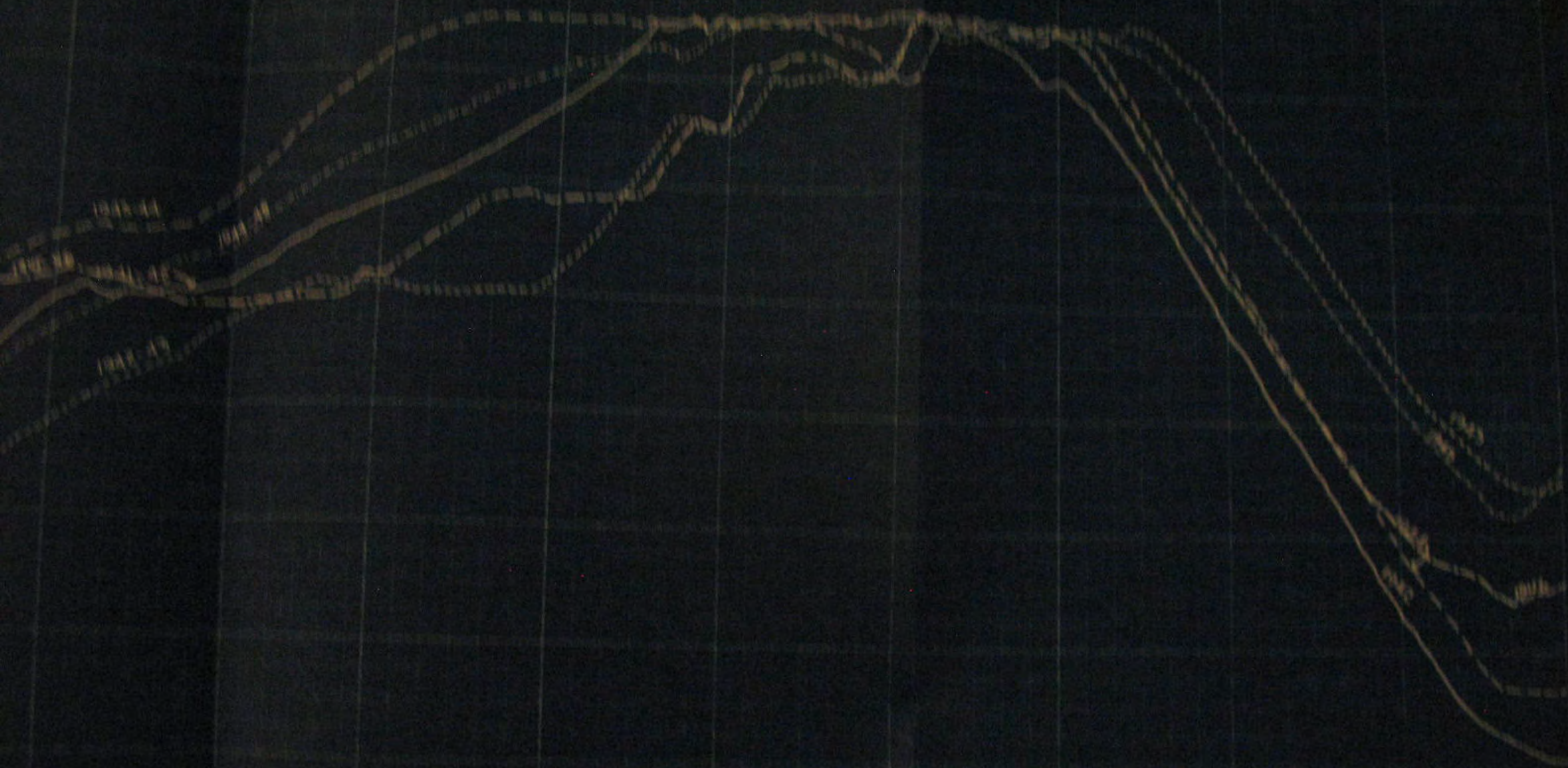
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Date

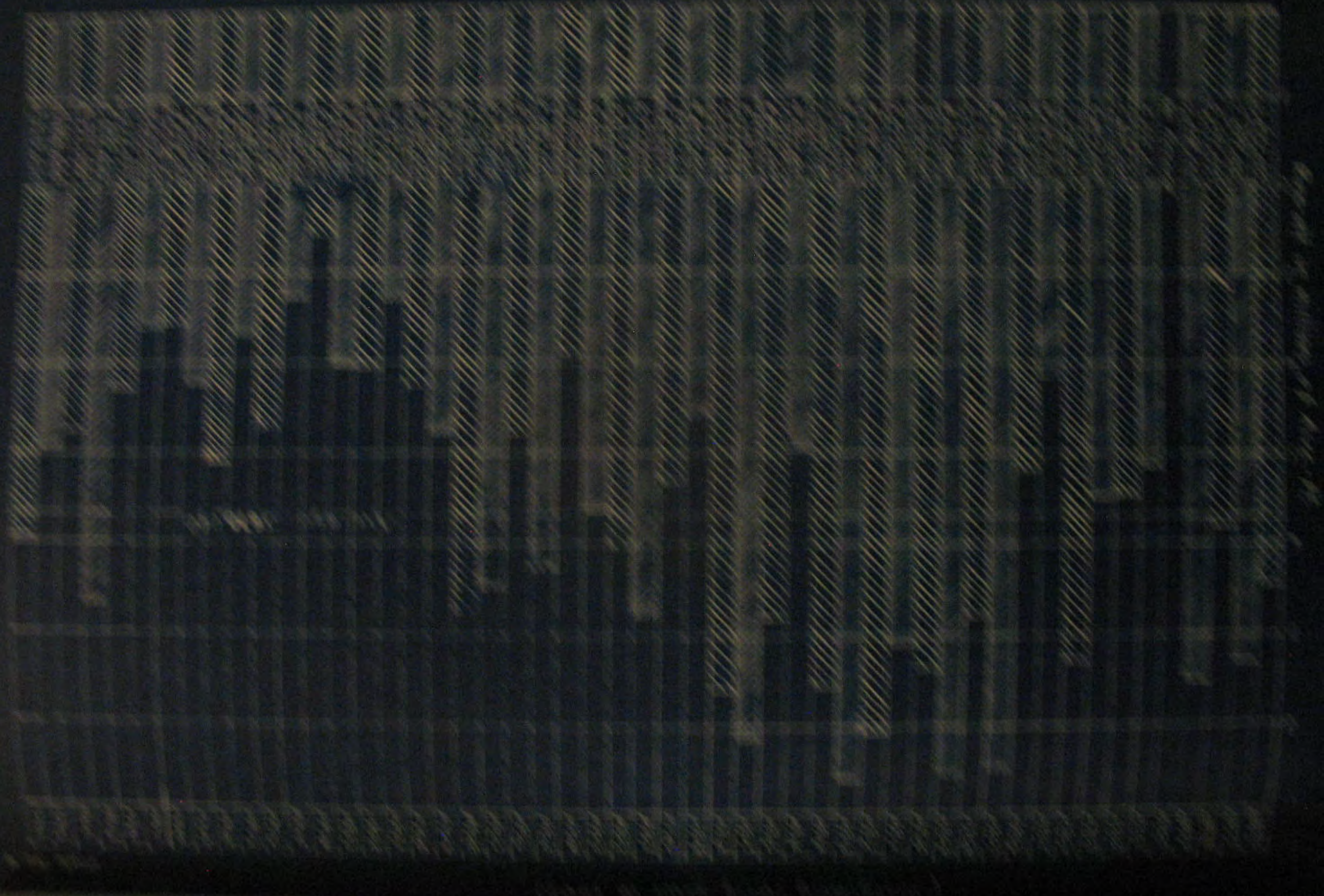
AMERICAN FALLS RESERVOIR

BEGINNING OCT. 1, 1941

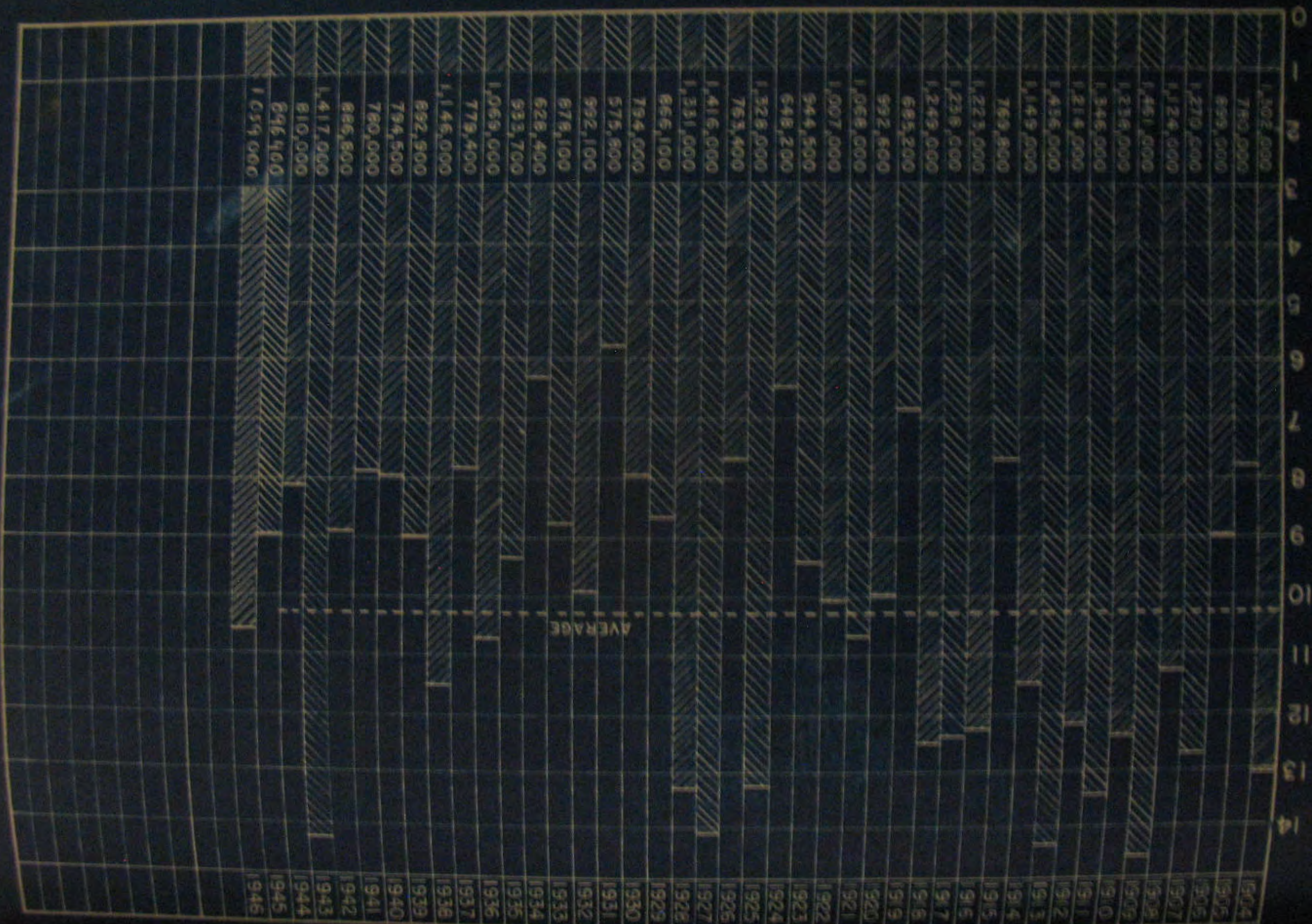
PLATE NO. 3



THE UNIVERSITY OF CHICAGO PRESS



ANNUAL RUNOFF OF SNAKE RIVER AT MORAN, WYO.



NOTE: RUNOFF TOTALS ARE FOR WATER YEAR ENDING SEPT. 30 AND ARE CORRECTED FOR JACKSON LAKE HOLDOVERS.

DAILY DISCHARGE IN SECOND-FEET OF SNAKE RIVER CANALS JUNE 1946

1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495	1494	1493	1492	1491	1490	1489	1488	1487	1486	1485	1484	1483	1482	1481	1480	1479	1478	1477	1476	1475	1474	1473	1472	1471	1470	1469	1468	1467	1466	1465	1464	1463	1462	1461	1460	1459	1458	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448	1447	1446	1445	1444	1443	1442	1441	1440	1439	1438	1437	1436	1435	1434	1433	1432	1431	1430	1429	1428	1427	1426	1425	1424	1423	1422	1421	1420	1419	1418	1417	1416	1415	1414	1413	1412	1411	1410	1409	1408	1407	1406	1405	1404	1403	1402	1401	1400	1399	1398	1397	1396	1395	1394	1393	1392	1391	1390	1389	1388	1387	1386	1385	1384	1383	1382	1381	1380	1379	1378	1377	1376	1375	1374	1373	1372	1371	1370	1369	1368	1367	1366	1365	1364	1363	1362	1361	1360	1359	1358	1357	1356	1355	1354	1353	1352	1351	1350	1349	1348	1347	1346	1345	1344	1343	1342	1341	1340	1339	1338	1337	1336	1335	1334	1333	1332	1331	1330	1329	1328	1327	1326	1325	1324	1323	1322	1321	1320	1319	1318	1317	1316	1315	1314	1313	1312	1311	1310	1309	1308	1307	1306	1305	1304	1303	1302	1301	1300	1299	1298	1297	1296	1295	1294	1293	1292	1291	1290	1289	1288	1287	1286	1285	1284	1283	1282	1281	1280	1279	1278	1277	1276	1275	1274	1273	1272	1271	1270	1269	1268	1267	1266	1265	1264	1263	1262	1261	1260	1259	1258	1257	1256	1255	1254	1253	1252	1251	1250	1249	1248	1247	1246	1245	1244	1243	1242	1241	1240	1239	1238	1237	1236	1235	1234	1233	1232	1231	1230	1229	1228	1227	1226	1225	1224	1223	1222	1221	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211	1210	1209	1208	1207	1206	1205	1204	1203	1202	1201	1200	1199	1198	1197	1196	1195	1194	1193	1192	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182	1181	1180	1179	1178	1177	1176	1175	1174	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164	1163	1162	1161	1160	1159	1158	1157	1156	1155	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145	1144	1143	1142	1141	1140	1139	1138	1137	1136	1135	1134	1133	1132	1131	1130	1129	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1115	1114	1113	1112	1111	1110	1109	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099	1098	1097	1096	1095	1094	1093	1092	1091	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081	1080	1079	1078	1077	1076	1075	1074	1073	1072	1071	1070	1069	1068	1067	1066	1065	1064	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053	1052	1051	1050	1049	1048	1047	1046	1045	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035	1034	1033	1032	1031	1030	1029	1028	1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001	1000	999	998	997	996	995	994	993	992	991	990	989	988	987	986	985	984	983	982	981	980	979	978	977	976	975	974	973	972	971	970	969	968	967	966	965	964	963	962	961	960	959	958	957	956	955	954	953	952	951	950	949	948	947	946	945	944	943	942	941	940	939	938	937	936	935	934	9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DAILY DISCHARGE IN SECOND-FEET OF SNAKE RIVER CANALS JULY 1946

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701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300
1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400
1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500

DAILY DISCHARGE IN SECOND-FOOT OF SNAKE RIVER CANALS SEPTEMBER 1946

TOTAL SHELLEY TO CLOUGH		TOTAL HEISE TO SHELLEY		TOTAL	
PARSONS	19	417	422	123	0
WATSON	82	60	50	43	55
WEAVER	14	0	0	0	0
WREGG	41	211	20	230	221
DANSHIN	153	429	424	451	448
RIVERSIDE	97	800	793	849	842
NIELSEN-HANSEN	8	34	34	36	33
CORRELL	75	0	0	0	0
ABERDEEN-SPRINGFIELD	351	0	0	0	0
PEOPLES	391	405	415	435	431
NEW LAVA SIDE	144	150	128	151	108
BLACKFOOT	153	139	129	119	116
RESERVATION	390	585	565	104	25
TOTAL HEISE TO SHELLEY		5076	5422	5738	6433
SNAKE RIVER VALLEY		417	422	123	0
WOODVILLE	60	50	43	55	55
CORRELL	0	0	0	0	0
PORTER	211	20	230	221	220
GREAT WESTERN	429	424	451	448	444
IDAHO	800	793	849	842	842
KENNEDY	34	34	36	33	33
BEAR ISLAND & SMITH	0	0	0	0	0
OSGOOD	112	112	112	111	111
BUTTE & MARKET LAKE	220	240	251	240	240
BRAMWELL	0	0	0	0	0
ELLIS	0	0	0	0	0
WHITE	0	0	0	0	0
NORTH RIGBY	46	15	44	48	48
PARKS & LEWISVILLE	12	653	136	317	331
WEST LABELLE & LONG ISLAND	323	318	338	384	402
DILLS	21	22	35	26	28
ISLAND	63	62	51	30	39
IGBY	0	145	145	194	159
ILL PETTINGER	0	0	0	0	0
NELSON COREY	0	0	17	16	15
TEXAS FEEDER	30	29	117	208	211
EID	0	0	60	152	68
ENROOT	24	22	112	155	82
SUNNYDELL	52	61	101	118	118
WEST LABELLE	60	75	92	116	88
JENNINGS	0	0	0	0	0
LOWDER	42	42	44	44	42
ARK & EDWARDS	63	68	67	65	67
BURGESS	694	688	737	744	751
TE & NORD	1	1	2	6	6
DOY	9	33	32	42	24
OMER	112	130	131	133	107
CHENEY	4	4	6	6	6
HARRISON	275	391	554	318	220
STEELE	1	6	6	6	6
SS & RAND	1	1	1	1	1
FLOR ISLAND	30	30	35	41	41
NSBERGER	0	0	0	0	0
ATSON & CRAIG	1	1	7	7	7
NELSON	3	0	3	0	0
EISE	0	0	0	0	0
ENTERPRISE	100	118	121	83	12
FARMERS FRIEND	181	202	542	552	552
ABLE ROCK	546	540	552	513	518
ANDERSON	100	112	158	170	185
LEY	0	0	0	0	0
TOTAL		6104	6433	6738	7433

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	1	2	3	4	5	6	7	8	9	
BIG JIMMY CREEK	36	36	36	36	36	36	36	36	36	36	35	35	35	35	34	34	34	34	33	33	33	33	33	32	32	32	32	32	32	31	31	31	31	31	31	31	31	31	31	31	31
PORTNEUF RIVER INFLOW BELOW POCATELLO	328	328	328	328	328	328	328	328	327	326	325	324	323	321	320	319	318	317	316	315	314	313	312	311	310	309	308	307	306	305	304	304	303	303	308	312	316	320	324	328	
BIG SPRING CREEK	456	456	456	456	456	456	456	456	458	461	463	466	468	471	473	476	478	481	483	486	488	491	493	496	498	500	502	504	506	508	510	512	514	516	518	517	516	515	514	513	
GLEAR CREEK	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	
FORD CREEK	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
KINNEY CREEK	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
WIDE CREEK	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
PYLE SPRINGS	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
MC TUCKER SPRINGS	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	25	25	
HULL SPRINGS	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	7	
TANNER SPRINGS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
PORTNEUF RIVER AT POCATELLO	1010	998	967	923	884	854	831	828	817	812	812	782	728	671	616	556	518	512	518	502	476	460	460	460	444	432	388	398	446	446	428	390	363	344	326	277	243	207	188	169	
CRYSTAL DITCH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CRYSTAL WASTE	22	22	22	22	22	22	22	22	22	23	23	24	24	24	25	25	25	26	26	26	27	27	28	28	28	29	29	30	30	30	31	31	31	32	32	32	32	32	32	32	
DANIELSEN SPRING	43	43	43	43	43	43	43	43	43	44	44	44	45	45	46	46	46	47	47	48	48	49	50	50	51	52	53	53	54	55	56	56	57	58	59	59	59	59	59	59	
ARTESIAN SPRINGS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	
STERLING WASTE	5	5	5	5	5	5	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	10	10	10	11	11	12	12	13	13	13	14	15	15	16	16	16	16	16	16	
COLBURN WASTE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ABERDEEN WASTE	160	110	105	80	45	18	14	14	14	14	14	14	14	20	25	30	20	20	25	20	20	20	30	40	60	70	75	115	120	95	95	110	115	115	113	141	110	70	50		
TARTAR WASTE	30	30	20	23	25	13	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	27	33	27	23	40	50	55	35	29	10	10	10		
SCHILTZ WASTE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	
CEDAR WASTE	31	26	28	12	8	5	3	0	0	0	1	0	0	0	61	82	76	4	1	0	0	0	1	7	4	7	23	32	42	40	45	52	52	54	50	47	25	24	23		
ROSS FORK	70	65	60	55	50	49	48	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	46	46	46	46	46	
TRIPLE CREEK	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	7	7	7	7	7	
BANNOCK CREEK	41	40	39	38	37	36	35	35	35	34	34	34	33	33	32	32	32	31	31	30	30	30	30	29	29	28	28	28	27	27	26	26	26	25	25	25	24	23	22	21	
RUEGAR SPRINGS	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	
TOTAL MEASURED	2541	2468	2418	2330	2248	2174	2137	2130	2120	2119	2120	2093	2041	1991	2002	1972	1919	1845	1854	1835	1809	1796	1809	1827	1829	1833	1813	1894	1966	1933	1919	1926	1916	1908	1873	1844	1739	1664	1626		
UNMEASURED INFLOW	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330		
TOTAL INFLOW CLOUGH TO NEELEY	3861	3788	3738	3650	3568	3494	3457	3450	3440	3439	3440	3413	3361	3311	3322	3292	3239	3165	3174	3155	3139	3126	3139	3157	3159	3163	3143	3224	3296	3263	3249	3256	3246	3238	3203	3174	3069	2994	2956		
103,815																																									

103,815

INFLOW TO AMERICAN FALLS

BETWEEN CLOUGH AND NEELEY STAT

24 HOUR SECOND-FOET

JUNE

JULY

JUNE																														JULY																													
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22													
31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	30	29	29	29	28	28	28	28	27	27	27	27	26	26	26	26	25	25	25	25	25	25	25													
316	320	324	328	332	336	340	344	348	352	356	360	365	370	375	380	386	392	399	396	393	390	387	384	381	378	375	372	369	366	363	360	357	354	351	348	345	342	339	336	333	331	329	327	327	327	327	327												
516	515	514	513	512	511	510	509	508	507	506	505	504	503	502	501	500	500	499	498	498	497	496	496	495	494	494	493	492	492	491	490	490	489	488	488	487	486	485	484	484	483	482	482	481	480	480	480												
129	129	129	129	128	128	128	128	128	127	127	127	127	127	126	126	126	126	126	125	125	125	125	124	124	124	124	123	123	123	123	122	122	122	122	122	121	121	121	121	120	120	120	120	120	120	120													
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	7	7	7	7	7	7	7														
31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31													
60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61												
16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16													
26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27												
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	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8												
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1													
243	207	188	169	154	134	116	111	115	102	96	95	118	140	286	252	226	216	228	207	163	144	136	132	122	116	116	113	116	116	125	119	118	111	106	106	105	109	109	96	87	79	75	76	77	84	84	84	84											
0	0	0	0	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0												
32	32	32	32	32	32	32	33	33	33	33	33	33	33	34	34	34	34	34	34	34	34	34	34	35	35	35	35	35	35	36	36	36	36	36	36	37	37	37	37	37	38	38	38	38	38	38	38												
59	59	59	59	59	59	59	58	58	58	58	58	58	58	58	57	57	57	57	57	57	57	56	56	56	55	55	55	55	54	54	54	53	53	52	52	52	51	51	50	50	50	49	49	49	49	49	49												
1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6	6												
16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	16	16	16	15	15	15	14	14	14	13	13	13	13	12	12	12	12	12	11	11	11	11	11	11	11	11												
0	0	0	0	0	0	0	1	1	1	1	1	1	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													
110	70	50	60	30	15	15	15	25	35	85	70	50	50	60	80	85	70	85	85	101	85	55	30	40	20	20	20	20	20	20	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15												
10	10	10	11	9	9	8	8	7	7	11	10	15	14	13	16	20	26	35	50	41	40	13	10	15	20	20	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14												
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3													
25	24	23	20	15	6	0	0	0	2	12	11	11	22	33	20	22	21	23	29	31	31	26	23	28	19	13	1	2	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
46	46	46	46	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	44	44	44	43	43	43	42	42	42	41	41	41	40	40	40	39	39	38	38	38	37	37	37	37	37	37	37												
7	7	7	7	6	6	6	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1												
23	22	21	20	20	19	18	17	16	15	14	13	12	11	10	9	8	7	7	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4												
23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	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												
1739	1664	1626	1617	1566	1524	1501	1499	1514	1514	1575	1560	1571	1607	1776	1754	1743	1728	1772	1767	1730	1689	1614	1575	1580	1546	1534	1509	1507	1506	1508	1489	1480	1467	1458	1455	1447	1445	1439	1420	1406	1394	1386	1387	1387	1387	1387	1387												
1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330												
3069	2994	2956	2947	2896	2854	2831	2829	2844	2844	2905	2890	2901	2937	3106	3084	3073	3058	310																																									

90,172

85,599

NEELEY STATIONS

FEET

JULY

AUGUST

NE

EE

UL

SEPTEMBER

UL												SEP																																			
65	16	21	22	23	24	25	26	27	28	29	30	31	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					
326	2	28	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31			
3186	33	332	332	333	333	334	334	335	335	336	336	337	337	338	338	339	339	340	340	341	342	342	343	343	344	344	345	346	346	347	347	348	348	349	349	350	350	350	350	350	350	350	350	350	350	350	350
5164	48	439	500	500	500	500	500	501	501	501	501	502	502	502	503	503	503	503	504	504	504	504	505	505	505	505	506	506	506	506	507	507	507	507	507	507	507	507	507	507	507	507	507	507	507	507	
1221	12	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	
77		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	7	7	7	7	7		
381	3	29	29	29	29	29	30	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
601	6	60	60	60	60	60	61	61	61	61	61	61	61	61	61	61	62	62	62	62	62	62	62	62	62	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	
166	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
267	2	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	27	27	27	27	27	27	27	27	27	27	27	27	
78		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	7	7	7	7	7	7	
11		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2436	8	89	93	106	266	279	207	163	156	172	163	158	154	148	146	151	158	180	180	181	181	181	181	183	175	160	158	156	151	156	163	162	164	154	148	144	144	139	140	132	126	126	126	122	122	122	122
61		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	2	2	2	2	2	2	2	2	
317	3	31	31	31	32	32	32	32	32	33	33	33	33	33	33	34	34	34	34	34	34	35	35	35	35	35	35	35	35	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
550	5	53	54	54	54	54	54	55	55	55	55	56	56	56	56	56	57	57	57	57	58	58	58	58	58	58	59	59	59	59	59	59	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
16		4	4	4	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	8	8	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10		
161	1	6	6	6	6	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
12		2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
115	15	27	27	27	27	27	28	28	28	28	28	30	35	37	30	30	40	60	60	30	35	35	33	45	90	75	60	30	30	40	60	45	40	35	43	50	50	40	35	40	35	40	35	35	35	35	
114	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	20	18	14	21	26	33	40	45	40	40	40	40	55	55		
43		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	3	3	3	3	3	3	3		
210		2	2	2	2	6	8	2	1	1	1	1	0	0	0	0	6	26	22	10	0	0	4	9	36	23	19	0	0	4	18	16	17	31	20	30	26	34	32	33	21	44	44	44	44	44	
418	34	34	35	35	35	35	35	35	35	36	36	36	36	36	36	36	37	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
71		1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
24		5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	10	11	11	11	11	11	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13	
24	24	24	24	23	23	23	23	23	23	23	23	23	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
1730	140	1425	1436	1450	1613	1632	1665	1620	1513	1533	1524	1524	1525	1523	1514	1524	1552	1616	1613	1574	1574	1575	1580	1591	1670	1637	1605	1552	1552	1545	1625	1609	1602	1602	1627	1625	1623	1609	1609	1602	1602	1602	1602	1602	1602	1602	
1330	1320	1320	1320	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	
3040	276	2769	2769	2770	2943	2962	2965	2850	2843	2863	2854	2854	2856	2853	2864	2854	2892	2956	2953	2914	2914	2915	2920	2941	3020	2987	2955	2902	2912	2935	2975	2969	2942	2954	2982	2977	2975	2979	2959	2959	2942	2976	2976	2976	2976	2976	

DAILY SEGREGATION OF DATA

DATE	JACKSON LAKE CONTENTS ACRES - FEET	SNAKE RIVER AT MORAN			MORAN TO HEISE		DATE	HEISE & RILEY			STORAGE INFLOW HEISE TO SHELLEY		STORAGE LOSS	DIVERSIONS HEISE TO SHELLEY			DATE	SNAKE RIVER NEAR SHELLEY			DIVERSION SHELLEY TO BL	
		STORED	NORMAL	TOTAL	STORED LOSS	STORED DIVERSION		STORED	NORMAL	TOTAL	MARKET LAKE	HENRY'S FORK NEAR REIDBURG	HEISE TO SHELLEY	STORED	NORMAL	TOTAL		STORED	NORMAL	TOTAL	STORED	NORMAL
JUNE 27	850,000						JUNE 28															
28	850,000						29															
29	850,000						30										JUNE 29					
30	850,000						JULY 1										30					
JULY 1	850,000						2										JULY 1					
2	850,000						3										2					
3	850,000						4				10			252	7495	7757	3					
4	850,000						5				10	-151		254	7585	7839	4	-252	8432	8180	0	235
5	849,530			2330		5	6	-5	11638	11633	10	-150	0	324	7496	7822	5	-244	8354	8110	0	2588
6	849,530			2100		5	7	-5	11135	11130	10	34	0	290	7590	7980	6	-405	8099	8630	1	3320
7	849,280			2120		5	8	-5	10533	10528	9	-18	0	546	7750	8296	7	-435	8685	9250	1	3465
8	847,230	1810	1900	3710	45	5	9	1760	9873	11633	9	12	86	632	7585	8215	8	-507	9287	4780	11	3411
9	844,880	2240	1860	4100	56	5	10	2179	9554	11733	9	5	106	687	7820	8707	9	-546	4546	3900	51	3240
10	839,590	2870	1850	4720	72	5	11	2793	9207	12000	9	-76	136	1115	7815	8931	10	808	3412	4220	78	3355
11	833,230	2830	1810	4640	71	5	12	2754	8862	11616	9	-104	134	1112	7813	8925	11	972	3228	4200	38	3384
12	827,890	3620	1780	5300	88	5	13	3427	8901	12328	9	26	157	1422	7478	8900	12	1478	2862	4140	37	3408
13	820,260	4550	1780	6330	114	5	14	4431	9002	13433	9	-208	216	1814	6812	8826	13	1103	2917	4080	35	3381
14	811,930	4270	1770	6040	107	5	15	4158	8973	13131	8	-229	203	1753	7014	8767	14	1481	3238	4780	36	3408
15	804,350	4020	1770	5790	101	10	16	3909	8525	12434	8	-510	191	1906	6870	8778	15	1828	3232	5080	292	3443
16	796,520	3990	1770	5760	100	10	17	3880	8355	12235	8	-567	189	2036	6826	8862	16	1080	3280	4580	330	3141
17	788,740	4010	1760	5770	100	10	18	3900	8033	11933	8	-490	190	2085	6870	8965	17	1017	3123	4140	387	3740
18	780,460	4370	1760	6130	109	10	19	4251	7782	12033	8	-492	208	2115	6851	8946	18	1113	2857	3970	113	2833
19	771,690	4660	1760	6420	117	10	20	4533	7498	12031	8	-456	221	2120	6860	8980	19	1438	2531	3970	104	2718
20	761,970	4740	1750	6490	119	10	21	4611	7418	12029	8	-169	225	2179	6871	9090	20	1685	2585	4270	136	2458
21	752,290	4960	1750	6610	122	10	22	4728	7199	11927	8	-14	231	2094	6859	8953	21	2131	2329	4460	104	2243
22	743,070	4840	1750	6590	121	10	23	4709	7117	11826	8	57	230	2061	6785	8846	22	2430	2080	4490	189	2024
23	733,180	4790	1800	6590	120	10	24	4660	7158	11818	9	5	227	2192	6698	8890	23	2362	2248	4610	105	2183
24	724,770	4660	1860	6520	117	10	25	4535	7285	11818	9	41	221	2115	6703	8818	24	2332	2418	4750	147	2263
25	717,580	4460	1840	6300	112	10	26	4338	7479	11817	9	69	211	2109	6551	8800	25	2253	2587	4840	130	2359
26	706,980	4240	1790	6030	106	10	27	4124	7294	11416	9	61	201	1902	6868	8770	26	2303	2637	4940	109	2354
27	697,740	3870	1770	5640	97	10	28	3763	6955	10718	9	19	194	1840	6851	8691	27	2153	2717	4870	157	2374
28	690,180	4000	1760	5760	100	10	29	3890	6630	10520	9	62	190	1923	6651	8574	28	1684	2696	4380	104	2305
29	681,400	4280	1680	5960	107	10	30	4163	6655	10818	9	32	203	1934	6513	8447	29	1837	2253	4100	197	2083
30	672,820	4160	1680	5740	104	10	31	4046	6776	10622	9	-25	197	1973	6573	8546	30	2028	2272	4300	103	1855
31	664,630	4220	1600	5720	106	10	AUG. 1	4104	6822	10926	9	-125	200	1941	6554	8455	AUG. 1	1832	2378	4270	147	2119
AUG. 1	656,640	3900	1380	5280	97	10	2	3793	6631	10424	9	-117	185	1745	6558	8313	2	2043	2337	4380	187	2224
2	648,650	3630	1370	5000	91	10	3	3529	6203	9732	9	-62	172	1606	6461	8067	3	1894	2278	4170	104	2096
3	641,190	3780	1280	5060	95	10	4	3675	5874	9549	9	-57	179	1561	6471	8032	4	1723	2107	3830	104	1965
4	633,010	4440	1180	5620	111	10	5	4319	5552	9871	9	-88	211	1497	6431	7928	5	1951	1779	3730	108	1948
5	624,600	4780	1080	5860	120	10	6	4650	5474	10125	9	-129	227	1520	6459	8019	6	2509	1151	3660	108	1681
6	615,520	3260	1000	4260	82	10	7	3168	6004	9172	9	-70	154	1559	6540	8099	7	2744	1006	3750	101	1614
7	608,780	3120	980	4100	78	10	8	3032	5268	8300	9	-426	148	1506	6430	8038	8	1343	1825	3170	108	1538
8	600,710	3410	960	4370	85	12	9	3313	5179	8492	9	-367	162	1527	6243	7770	9	940	1620	2560	102	1493
9	593,360	3950	950	4900	96	15	10	3739	4852	8991	9	-397	162	1463	5945	7408	10	1330	1300	2630	102	1493
10	587,920	4300	940	5240	108	15	11	4177	4949	9125	9	-347	204	1492	6390	7882	11	1677	1043	2720	105	1363
11	579,120	4280	940	5220	107	15	12	4158	4968	9125	9	-182	203	1453	6339	7792	12	2182	1048	3230	104	1021
12	569,320	4320	930	5250	108	15	13	4197	4969	9156	9	-229	205	1317	6400	7717	13	2465	865	3350	104	1021
13	561,910	4170	910	5080	104	15	14	4051	4874	8925	9	-133	198	1299	6430	7729	14	2473	987	3460	104	1021
14	554,500	3980	890	4870	100	15	15	3865	4918	8783	8	-108	189	1341	6388	7729	15	2388	962	3350	104	1021
15	546,870	3700	880	4580	92	15	16	3593	4657	8240	8	-40	175	1276	6287	7563	16	2300	1220	3520	104	1021

DATA AT AND BETWEEN SNAKE RIVER G

24 HOUR SECOND-FOET EXCEPT AS NOTED

DIVERSIONS HELLEY TO BLACKFOOT			STORAGE LOSS SHELLEY TO BLACKFOOT	THEORETICAL BALANCE OF STORAGE AT BLACKFOOT	DATE	BLACKFOOT RIVER	SNAKE RIVER AT CLOUGHES			CALCULATED INFLOW CLOUGHES TO HELLEY	DATE	AM FALLS RESERVOIR CONTENTS ACRE-FOET	SNAKE RIVER AT HELLEY			LAKE WELGOTT CONTENTS ACRE-FOET	MINIMUMS CANALS					
WHEE	NORMAL	TOTAL					STORED	NORMAL	TOTAL					STORED	NORMAL		TOTAL		NORTH	SOUTH	TOTAL	STORED
					JUNE 30																	
					JULY 1		0	5430	5430	5410	JULY 1	1,700,000	4100	8100	10000	96,000	1500	1500	2500	200	2300	2500
					2		0	5140	5140	5090	2	1,694,000	4000	8010	10000	95,200	1500	1500	2500	200	2300	2500
					3	1.00	0	4740	4740	4690	3	1,688,000	3900	7920	10000	94,400	1500	1500	2500	200	2300	2500
					4	1.00	0	4340	4340	4290	4	1,670,000	3800	7830	10000	93,600	1500	1500	2500	200	2300	2500
					5	1.00	0	3940	3940	3890	5	1,650,000	3700	7740	10000	92,800	1500	1500	2500	200	2300	2500
0	5375	5375	15	537	6	1.00	537	3897	3700	3650	6	1,630,000	3600	7650	10000	92,000	1500	1500	2500	200	2300	2500
0	5000	5000	15	500	7	1.00	500	3500	3300	3250	7	1,610,000	3500	7560	10000	91,200	1500	1500	2500	200	2300	2500
1	3000	3001	100	300	8	1.00	400	3000	2800	2750	8	1,590,000	3400	7470	10000	90,400	1500	1500	2500	200	2300	2500
1	3000	3000	100	300	9	1.00	300	2500	2300	2250	9	1,570,000	3300	7380	10000	89,600	1500	1500	2500	200	2300	2500
11	3411	3400	31	3407	10	7.0	3007	1707	1500	1450	10	1,550,000	3200	7290	10000	88,800	1500	1500	2500	200	2300	2500
61	3000	3001	100	300	11	8.0	300	1307	700	650	11	1,530,000	3100	7200	10000	88,000	1500	1500	2500	200	2300	2500
70	3000	3000	80	300	12	8.0	300	800	800	750	12	1,510,000	3000	7110	10000	87,200	1500	1500	2500	200	2300	2500
80	3000	3000	80	300	13	8.0	300	800	800	750	13	1,490,000	2900	7020	10000	86,400	1500	1500	2500	200	2300	2500
87	3000	3000	80	300	14	8.0	300	800	800	750	14	1,470,000	2800	6930	10000	85,600	1500	1500	2500	200	2300	2500
100	3001	3000	80	300	15	8.0	300	800	800	750	15	1,450,000	2700	6840	10000	84,800	1500	1500	2500	200	2300	2500
90	3000	3000	80	300	16	8.0	300	800	800	750	16	1,430,000	2600	6750	10000	84,000	1500	1500	2500	200	2300	2500
100	3000	3000	100	300	17	8.0	300	800	800	750	17	1,410,000	2500	6660	10000	83,200	1500	1500	2500	200	2300	2500
200	3000	3000	80	300	18	8.0	300	800	800	750	18	1,390,000	2400	6570	10000	82,400	1500	1500	2500	200	2300	2500
300	3000	3000	80	300	19	8.0	300	800	800	750	19	1,370,000	2300	6480	10000	81,600	1500	1500	2500	200	2300	2500
400	3000	3000	80	300	20	8.0	300	800	800	750	20	1,350,000	2200	6390	10000	80,800	1500	1500	2500	200	2300	2500
500	3000	3000	80	300	21	8.0	300	800	800	750	21	1,330,000	2100	6300	10000	80,000	1500	1500	2500	200	2300	2500
600	3000	3000	80	300	22	8.0	300	800	800	750	22	1,310,000	2000	6210	10000	79,200	1500	1500	2500	200	2300	2500
700	3000	3000	80	300	23	8.0	300	800	800	750	23	1,290,000	1900	6120	10000	78,400	1500	1500	2500	200	2300	2500
800	3000	3000	80	300	24	8.0	300	800	800	750	24	1,270,000	1800	6030	10000	77,600	1500	1500	2500	200	2300	2500
900	3000	3000	80	300	25	8.0	300	800	800	750	25	1,250,000	1700	5940	10000	76,800	1500	1500	2500	200	2300	2500
1000	3000	3000	80	300	26	8.0	300	800	800	750	26	1,230,000	1600	5850	10000	76,000	1500	1500	2500	200	2300	2500
1100	3000	3000	80	300	27	8.0	300	800	800	750	27	1,210,000	1500	5760	10000	75,200	1500	1500	2500	200	2300	2500
1200	3000	3000	80	300	28	8.0	300	800	800	750	28	1,190,000	1400	5670	10000	74,400	1500	1500	2500	200	2300	2500
1300	3000	3000	80	300	29	8.0	300	800	800	750	29	1,170,000	1300	5580	10000	73,600	1500	1500	2500	200	2300	2500
1400	3000	3000	80	300	30	8.0	300	800	800	750	30	1,150,000	1200	5490	10000	72,800	1500	1500	2500	200	2300	2500
1500	3000	3000	80	300	31	8.0	300	800	800	750	31	1,130,000	1100	5400	10000	72,000	1500	1500	2500	200	2300	2500
1600	3000	3000	80	300	AUG. 1	8.0	300	800	800	750	AUG. 1	1,110,000	1000	5310	10000	71,200	1500	1500	2500	200	2300	2500
1700	3000	3000	80	300	2	8.0	300	800	800	750	2	1,090,000	900	5220	10000	70,400	1500	1500	2500	200	2300	2500
1800	3000	3000	80	300	3	8.0	300	800	800	750	3	1,070,000	800	5130	10000	69,600	1500	1500	2500	200	2300	2500
1900	3000	3000	80	300	4	8.0	300	800	800	750	4	1,050,000	700	5040	10000	68,800	1500	1500	2500	200	2300	2500
2000	3000	3000	80	300	5	8.0	300	800	800	7												

VER GAGING STATIONS 1946

PLATE NO. 12

CANALS			SNAKE RIVER NEAR MINIDOKA			DATE	MILNER LAKE GAGE FEET	GOODING PROJECT			NORTH SIDE CANAL COMPANY					TWIN FALLS CANAL COMPANY			MILNER LOW LIFT			SNAKE RIVER AT MILNER			
TAL	STORED	NORMAL	STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL	P.A.	GOODING	MAIN	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL
190	450	2340	2240	6000	8240	JULY 2	10.94	1410	0	1410	61	970	2460	3491	451	3000	270	3000	3270	175	0	175	43	0	43
330	814	2016	2090	6000	8090	3	10.88	1410	0	1410	61	970	2460	3491	451	3000	290	3000	3290	175	0	175	27	0	27
870	1144	1726	2272	5878	8150	4	10.85	1410	0	1410	61	970	2470	3501	623	2878	320	3000	3320	175	0	175	27	0	27
390	1164	1726	2577	5723	8300	5	10.95	1440	0	1440	61	990	2510	3561	858	2723	360	3000	3360	175	0	175	28	0	28
380	1154	1726	3249	5141	8390	6	10.98	1460	0	1440	61	980	2530	3571	1430	2141	360	3000	3360	175	0	175	28	0	28
880	1154	1726	3103	5107	8210	7	10.95	1460	0	1460	61	980	2570	3611	1504	2107	340	3000	3340	180	0	180	31	0	31
900	1174	1726	3849	4301	8150	8	10.80	1450	0	1450	61	980	2570	3611	2310	1301	350	3000	3350	196	0	196	28	0	28
920	1194	1726	4649	3651	8300	9	10.66	1440	0	1440	61	990	2580	3631	2980	651	460	3000	3460	196	0	196	28	0	28
960	1350	1570	5170	3400	8570	10	10.73	1460	0	1460	61	980	2610	3651	3251	400	480	3000	3480	196	0	196	28	0	28
960	1856	1104	5050	3400	8450	11	10.72	1460	0	1460	61	990	2610	3661	3261	400	520	3000	3520	196	0	196	21	0	21
980	2235	745	5200	3400	8600	12	10.78	1470	0	1470	61	980	2630	3671	3271	400	500	3000	3500	196	0	196	19	0	19
970	2970	0	5603	2997	8600	13	10.81	1480	0	1480	61	990	2640	3691	3338	353	836	2644	3480	196	0	196	15	0	15
960	2960	0	5492	2988	8480	14	10.83	1480	0	1480	61	990	2690	3741	3389	352	844	2636	3480	196	0	196	14	0	14
980	2980	0	5563	2987	8570	15	10.84	1480	0	1480	60	990	2700	3750	3398	352	825	2635	3460	196	0	196	14	0	14
960	2960	0	5708	2982	8690	16	10.91	1480	0	1480	60	990	2690	3740	3389	351	849	2631	3480	196	0	196	14	0	14
970	2970	0	5607	2963	8570	17	10.92	1480	0	1480	60	990	2670	3720	3371	349	876	2614	3490	196	0	196	15	0	15
970	2970	0	5724	2906	8630	19	10.96	1470	0	1480	60	990	2650	3700	3355	345	932	2588	3520	198	0	198	16	0	16
960	2960	0	5703	2897	8600	20	11.02	1480	0	1480	60	990	2660	3710	3366	342	956	2564	3520	198	0	198	14	0	14
940	2940	0	5671	2899	8570	21	11.05	1480	0	1480	60	990	2650	3700	3359	341	924	2555	3480	198	0	198	16	0	16
940	2940	0	5671	2899	8570	22	11.09	1480	0	1480	60	990	2640	3690	3349	341	922	2558	3480	198	0	198	19	0	19
950	2950	0	5695	2905	8600	23	11.06	1480	0	1480	60	990	2650	3700	3359	341	952	2554	3510	198	0	198	22	0	22
960	2960	0	5605	2905	8510	24	10.94	1470	0	1470	60	990	2640	3690	3348	342	947	2563	3510	198	0	198	18	0	18
980	2980	0	5696	2904	8600	25	10.88	1460	0	1460	60	990	2670	3720	3378	342	977	2563	3540	198	0	198	17	0	17
980	2980	0	5582	2898	8480	26	10.78	1460	0	1460	60	1000	2670	3730	3389	341	1023	2557	3580	198	0	198	13	0	13
950	2950	0	5537	2943	8480	27	10.74	1460	0	1460	60	990	2690	3740	3394	346	983	2597	3580	198	0	198	10	0	10
930	2930	0	5532	2948	8480	28	10.73	1460	0	1460	60	990	2710	3760	3413	347	969	2601	3570	198	0	198	10	0	10
930	2930	0	5683	3007	8690	29	10.82	1460	0	1460	60	990	2720	3770	3416	354	887	2653	3540	197	0	197	10	0	10
890	2890	0	5842	2968	8810	30	10.92	1470	0	1470	60	1000	2720	3780	3431	349	921	2615	3540	197	0	197	12	0	12
840	2840	0	5666	2964	8630	31	10.93	1480	0	1480	60	1000	2730	3790	3441	349	935	2615	3550	197	0	197	11	0	11
670	2670	0	5691	2969	8660	AUG. 1	11.00	1470	0	1470	60	1000	2730	3790	3441	349	920	2620	3540	196	0	196	11	0	11
600	2600	0	5491	2989	8480	2	10.93	1450	0	1450	60	990	2700	3750	3398	352	893	2637	3530	196	0	196	11	0	11
570	2570	0	5400	2990	8390	3	10.84	1440	0	1440	60	980	2710	3750	3398	352	882	2638	3520	196	0	196	10	0	10
600	2600	0	5531	2979	8510	4	10.84	1440	0	1440	60	990	2710	3760	3409	351	892	2628	3520	196	0	196	10	0	10
590	2590	0	5590	2980	8570	5	10.86	1430	0	1430	60	980	2700	3740	3389	351	901	2625	3530	194	0	194	10	0	10
570	2570	0	5648	2982	8630	6	10.84	1400	0	1400	60	970	2700	3730	3379	351	909	2631	3540	194	0	194	10	0	10
610	2610	0	5633	2997	8630	7	10.78	1400	0	1400	60	970	2710	3740	3387	353	915	2644	3560	195	0	195	10	0	10
700	2700	0	5689	2971	8660	8	10.88	1400	0	1400	60	970	2750	3780	3430	350	919	2621	3540	195	0	195	10	0	10
720	2720	0	5581	2959	8540	9	10.91	1400	0	1400	60	970	2730	3760	3412	348	889	2611	3500	197	0	197	11	0	11
720	2720	0	5435	2955	8390	10	10.90	1390	0	1390	60	970	2720	3750	3402	348	903	2607	3510	198	0	198	11	0	11
730	2730	0	5439	2951	8390	11	10.82	1390	0	1390	60	960	2710	3730	3383	347	916	2604	3520	198	0	198	11	0	11
720	2720	0	5492	2958	8450	12	10.86	1390																	

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PLATE NO. 12

SNAKE RIVER NEAR MINIDOKA			DATE	MILNER LAKE GAGE FEET	GOODING PROJECT			NORTH SIDE CANAL COMPANY					TWIN FALLS CANAL COMPANY			MILNER LOW LIFT			SNAKE RIVER AT MILNER			
RED	NORMAL	TOTAL			STORED	NORMAL	TOTAL	P.A.	GOODING	MAIN	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL
40	8000	8240	JULY 2	10.94	1410																	
50	8000	8090	3	10.88	1410	0	1410	61	970	2460	3491	491	3000	270	3000	3270	175	0	175	43	0	43
72	8178	8150	4	10.85	1410	0	1410	61	970	2460	3491	491	3000	290	3000	3290	175	0	175	27	0	27
77	8723	8300	5	10.95	1440	0	1440	61	970	2470	3501	623	2878	320	3000	3320	175	0	175	27	0	27
9	8141	8390	6	10.98	1460	0	1460	61	990	2510	3561	638	2723	360	3000	3360	175	0	175	28	0	28
3	8107	8210	7	10.95	1460	0	1460	61	980	2530	3571	1430	2141	360	3000	3360	175	0	175	28	0	28
9	4301	8150	8	10.80	1450	0	1450	61	980	2570	3611	1504	2107	340	3000	3340	180	0	180	31	0	31
	3651	8300	9	10.66	1440	0	1440	61	980	2570	3611	2310	1301	350	3000	3350	196	0	196	26	0	26
	3400	8570	10	10.73	1460	0	1460	61	990	2580	3631	2980	651	460	3000	3460	196	0	196	24	0	24
	3400	8450	11	10.72	1460	0	1460	61	980	2610	3661	3251	400	480	3000	3480	196	0	196	25	0	25
	3400	8600	12	10.76	1470	0	1470	61	990	2610	3661	3261	400	520	3000	3520	196	0	196	21	0	21
	2957	8600	13	10.81	1480	0	1480	61	980	2630	3671	3271	400	500	3000	3500	196	0	196	19	0	19
	2968	8480	14	10.83	1480	0	1480	61	990	2640	3691	3336	353	836	2644	3480	196	0	196	15	0	15
	2987	8570	15	10.84	1480	0	1480	61	990	2690	3741	3389	352	844	2636	3480	196	0	196	14	0	14
	2982	8690	16	10.91	1480	0	1480	60	990	2700	3750	3398	352	825	2635	3460	196	0	196	14	0	14
	2963	8570	17	10.92	1480	0	1480	60	990	2690	3740	3389	351	849	2631	3480	196	0	196	14	0	14
	2933	8510	18	10.86	1460	0	1460	60	990	2670	3720	3371	349	876	2614	3490	196	0	196	14	0	14
	2906	8630	19	10.96	1470	0	1470	60	990	2650	3700	3355	345	932	2588	3520	198	0	198	15	0	15
	2897	8600	20	11.02	1480	0	1480	60	990	2660	3710	3366	342	956	2564	3520	198	0	198	14	0	14
	2899	8570	21	11.05	1480	0	1480	60	990	2650	3700	3359	341	924	2556	3480	198	0	198	14	0	14
	2899	8570	22	11.09	1480	0	1480	60	990	2640	3690	3349	341	922	2558	3480	198	0	198	16	0	16
	2905	8600	23	11.06	1480	0	1480	60	990	2650	3700	3359	341	952	2558	3510	198	0	198	19	0	19
	2905	8510	24	10.94	1470	0	1470	60	990	2650	3700	3358	342	952	2558	3510	198	0	198	22	0	22
	2904	8900	25	10.88	1460	0	1460	60	990	2640	3690	3348	342	947	2563	3510	198	0	198	18	0	18
	2898	8480	26	10.78	1460	0	1460	60	990	2670	3720	3376	342	977	2563	3540	198	0	198	17	0	17
	2943	8480	27	10.74	1460	0	1460	60	1000	2670	3730	3389	341	1018	2562	3580	198	0	198	13	0	13
	2948	8480	28	10.73	1460	0	1460	60	990	2690	3740	3394	346	1023	2567	3580	198	0	198	10	0	10
	3007	8690	29	10.82	1460	0	1460	60	990	2710	3760	3413	346	983	2597	3580	198	0	198	10	0	10
	2968	8810	30	10.92	1460	0	1460	60	990	2720	3770	3416	347	969	2601	3570	198	0	198	10	0	10
	2954	8630	31	10.93	1470	0	1470	60	990	2720	3770	3416	354	887	2653	3540	197	0	197	10	0	10
	2969	8660	AUG. 1	11.00	1470	0	1470	60	1000	2720	3780	3431	349	921	2619	3540	197	0	197	12	0	12
	2989	8480	2	10.93	1450	0	1450	60	1000	2730	3790	3441	349	935	2615	3550	197	0	197	11	0	11
	2990	8390	3	10.84	1440	0	1440	60	990	2730	3790	3441	349	920	2620	3540	196	0	196	11	0	11
	2979	8510	4	10.84	1440	0	1440	60	990	2700	3750	3398	352	893	2637	3530	196	0	196	11	0	11
	2980	8570	5	10.86	1430	0	1430	60	980	2710	3750	3398	352	882	2636	3520	195	0	195	10	0	10
	2982	8630	6	10.84	1400	0	1400	60	990	2710	3750	3409	351	892	2624	3520	195	0	195	10	0	10
	2987	8630	7	10.76	1400	0	1400	60	980	2700	3740	3389	351	901	2629	3530	194	0	194	10	0	10
	2971	8660	8	10.88	1400	0	1400	60	970	2700	3730	3379	351	909	2631	3540	194	0	194	10	0	10
	2959	8540	9	10.91	1400	0	1400	60	970	2710	3740	3387	353	916	2644	3560	195	0	195	10	0	10
	2956	8390	10	10.90	1390	0	1390	60	970	2750	3780	3430	350	919	2621	3540	194	0	194	10	0	10
	2951	8390	11	10.82	1390	0	1390	60	970	2730	3760	3412	348	889	2611	3500	197	0	197	10	0	10
	2958	8450	12	10.86	1390	0	1390	60	970	2720	3750	3402	348	903	2607	3510	198	0	198	11	0	11
	2953	8510	13	10.86	1280	0	1280	9	960	2710	3730	3383	347	916	2604	3520	198	0	198	11	0	11
	2952	8420	14	10.87	1220	0	1220	9	970	2750	3790	3432	348	930	2610	3540	199	0	199	11	0	11
	2956	8270	15	10.84	1210	0	1210	56	980	2720	3700	3302	348	935	2605	3540	199	0	199	11	0	11
	2943	8420	16	10.82	1210	0	1210	50	970	2710	3735	3388	347	955	2605	3560	199	0	199	16	0	16
	2925	8450	17	10.80	1210	0	1210	50	970	2710	3735	3388	347	939	2601	3540	192	0	192	88	0	88
	2946	8450	18	10.83	1210	0	1210	50	970	2710	3740	3381	359	856	2684	3540	192	0	192	89	0	89
	2934	8450	19	10.81	1210	0	1210	50	960	2700	3720	3364	355	890	2670	3550	194	0	194	89	0	89
	2935	8450	20	10.93	1210	0	1210	50	960	2680	3700	3352	348	904	2606	3570	194	0	194	91	0	91
	2935	8450	20	10.93	1210	0	1210	58	970	2660	3690	3345	345	951	2589	3540	194	0	194	97	0	97
	2935	8450	20	10.93	1210	0	1210	58	970	2660	3678	3333	345	962	2588	3550	194	0	194			

DAILY SEGREGATION OF DATA

OF DATA AT AND BETWEEN SNAKE RIVER

24 HOUR SECOND-FEET EXCEPT AS NOTED

RIVER ELLEY		DIVERSIONS SHELLEY TO BLACKFOOT			STORAGE LOSS SHELLEY TO BLACKFOOT	THEORETICAL BALANCE OF STORAGE AT BLACKFOOT	DATE	BLACKFOOT RIVER	SNAKE RIVER AT CLOUGHS			CALCULATED INFLOW CLOUGH TO NEELEY	DATE	AM. FALLS RESERVOIR CONTENTS ACRE- FEET	SNAKE RIVER AT NEELEY			LAKE WALCOTT CONTENTS ACRE- FEET	MINIDOKA CANALS			
IAL	TOTAL	STORED	NORMAL	TOTAL					STORED	NORMAL	TOTAL				STORED	NORMAL	TOTAL		NORTH	SOUTH	TOTAL	STORED
36	3010	1659	957	2616	31	484	AUG. 19	17	253	187	440	2761	AUG. 20	954,320	8352	2948	11300	96,390	1550	1230	2790	2750
14	3000	1600	1008	2608	23	363	20	12	223	182	405	2750	21	938,160	8368	2932	11300	96,330	1550	1220	2770	2770
76	2960	1609	991	2600	41	634	21	9	241	179	420	2749	22	923,200	8272	2928	11200	96,870	1550	1230	2780	2780
33	3190	1652	1026	2678	42	663	22	14	386	184	570	2756	23	906,640	8160	2940	11100	96,270	1490	1230	2720	2720
80	3230	1622	1062	2684	32	496	23	22	432	192	624	2770	24	892,730	8138	2962	11100	96,630	1420	1230	2690	2690
25	3210	1575	976	2551	38	592	24	41	733	211	944	2943	25	880,570	7646	3154	10900	96,630	1400	1230	2630	2630
57	3640	1496	925	2421	59	928	25	120	1450	290	1780	2962	26	869,590	6948	3252	10200	97,110	1250	1220	2470	2470
10	3920	972	1391	2363	68	1060	26	114	1546	284	1930	2895	27	860,230	6821	3179	10200	96,150	1160	1180	2340	2340
13	4140	55	2550	2605	115	1797	27	78	1482	248	1730	2850	28	850,710	7102	3098	10200	95,910	1090	1130	2220	2220
14	4300	677	1887	2564	119	1870	28	271	1969	441	2410	2843	29	841,180	6718	3284	10000	96,630	1050	1090	2140	2140
72	4440	12	2318	2330	123	1933	29	218	1982	388	2370	2863	30	829,750	6729	3251	9980	96,870	1050	983	2033	2033
12	3800	0	2244	2244	75	1183	30	123	1183	487	1670	2854	31	818,470	6409	3341	9750	97,590	1050	961	2011	2011
27	3440	0	2367	2367	62	971	31	112	97	289	1260	2854	SEPT. 1	808,460	6087	3143	9230	98,560	1060	970	2030	2030
12	2960	0	2418	2418	27	421	SEPT. 1	96	42	316	737	2856	2	798,460	5876	3172	9050	97,940	1050	1010	2060	2060
10	2400	0	2420	2420	22	348	2	98	191	268	460	2853	3	785,890	6019	3121	9140	96,870	1050	1070	2120	2120
13	2080	0	2188	2188	26	411	3	44	18	214	395	2844	4	776,870	5992	3058	9050	96,510	1050	1050	2100	2100
6	1940	696	778	1474	38	590	4	22	138	192	390	2854	5	768,940	4954	3046	8000	96,270	875	710	1585	1585
18	2590	1209	764	1973	44	1465	5	39	801	209	1010	2892	6	762,450	4329	3101	7430	94,950	748	547	1295	1295
12	3750	1150	825	1975	109	1709	6	152	1818	322	2140	2956	7	755,600	4282	3278	7560	94,020	714	522	1236	1128
19	4070	336	1569	1905	122	1913	7	191	2029	361	2390	2953	8	751,990	4336	3314	7650	94,250	696	510	1206	912
27	4250	0	1813	1813	133	2090	8	228	2472	398	2870	2914	9	749,870	3518	3312	6830	96,150	674	418	1092	640
15	3950	0	1648	1648	63	992	9	244	2126	414	2540	2914	10	748,110	3032	3328	6360	96,150	640	416	1056	558
71	3440	0	1542	1542	34	535	10	262	1848	432	2280	2915	11	745,300	3013	3347	6360	95,670	638	454	1092	505
78	3310	0	1496	1496	32	500	11	271	500	1620	2120	2920	12	741,440	1990	4540	6530	95,180	634	690	1294	0
37	3210	0	1552	1552	19	304	12	234	304	1546	1850	2941	13	738,280	2173	4487	6660	95,180	664	801	1465	0
20	2860	0	1794	1794	2	38	13	138	38	1162	1200	3020	14	731,610	2518	4182	6700	94,490	720	890	1580	318
14	2290	0	1944	1944	9	147	14	100	147	471	618	2987	15	724,240	3882	3458	7340	91,690	807	886	1693	1075
21	1820	0	1934	1934	0	-1	15	49	161	219	380	2955	16	714,790	4826	3174	8000	90,990	844	940	1784	1360
12	1350	569	1067	1636	-22	-349	16	21	35	191	226	2902	17	704,540	4827	3093	7920	92,160	848	807	1655	1032
15	1790	476	618	1094	44	685	17	73	273	243	516	2912	18	700,100	4495	3155	7650	93,790	826	665	1491	516
16	2860	536	1140	1676	44	684	18	104	1145	274	1420	2935	19	693,610	3111	3209	6320	95,910	799	610	1409	340
20	3920	198	2081	2279	103	1619	19	120	1830	290	2120	2975	20	691,560	1935	3265	5200	95,430	799	524	1323	106
48	4410	0	2201	2201	124	1938	20	153	2317	323	2640	2959	21	688,480	1288	3282	4570	93,320	696	461	1157	0
53	4550	0	1958	1958	72	1125	21	214	2816	384	3200	2942	22	694,970	954	3326	4280	94,950	628	403	1031	0
23	3710	0	1770	1770	53	834	22	159	1278	1224	2500	2954	23	697,020	0	3730	3730	94,950	626	355	981	0
86	3520	0	1579	1579	44	690	23	99	690	1560	2250	2952	24	700,780			3340	94,370	626	373	999	0
63	3480	0	1586	1586	1	16	24	92	16	2184	2200	2977	25	704,540			3200	92,620	624	420	1044	0
34	3210		1569		1	15	25	78	15	1605	1620	2975	26	705,220			3200	90,060	620	498	1118	0
93	3010		1553		1	16	26	44	16	1684	1700	2979	27	707,270				88,550	620	526	1146	0
83	2900		1569		1	16	27	34	16	1434	1450	2959	28	711,710			2780	87,150	660	458	1118	0
21	2740		1658		1	18	28	24	18	1182	1200	2959	29	715,470			2480	85,640	696	443	1139	0
19	2540		1758		1	20	29	26	20	1000	1020	2942	30	718,970				83,770	768	535	1303	0
29	2350		1847		1	20	30	36		852	872	2976										
91	2510		1798		1	18																
									56,371						555,552							
		61,210			3,600	56,389																

SNAKE RIVER GAGING STATIONS 1946

MINIDOKA CANALS					SNAKE RIVER NEAR MINIDOKA			DATE	MILNER LAKE GAGE FEET	GOODING PROJECT			NORTH SIDE CANAL COMPANY						TWIN FALLS CANAL COMPANY				MILNER LOW	
NORTH	SOUTH	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL	P. A.	GOODING	MAIN	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL	STORED	NORMAL	
1520	1230	2750	2750	0	5502	2948	8450	AUG. 21	10.97	1220	0	1220	59	970	2660	3669	3342	347	359	2501	3560	194	0	
1550	1220	2770	2770	0	5488	2932	8420		22	11.01	1220	0	1220	59	950	2660	3669	3324	345	373	2587	3560	194	0
1550	1230	2780	2780	0	5432	2928	8360		23	10.96	1220	0	1220	59	970	2630	3659	3314	345	381	2583	3530	194	0
1490	1230	2720	2720	0	5450	2940	8390		24	11.00	1220	0	1220	59	960	2630	3649	3303	346	390	2584	3550	194	0
1420	1230	2650	2650	0	5458	2962	8420		25	11.04	1220	0	1220	59	970	2630	3659	3310	349	400	2612	3570	194	0
1400	1230	2630	2630	0	5266	3154	8420		26	11.18	1220	0	1220	59	980	2610	3649	3278	371	410	2783	3540	194	0
1280	1220	2470	2470	0	5108	3252	8360		27	11.13	1210	0	1210	59	980	2570	3609	3226	383	420	2869	3540	194	0
1160	1180	2340	2340	0	4941	3179	8120		28	11.13	1210	0	1210	58	980	2510	3548	3174	374	430	2905	3520	180	0
1090	1130	2220	2220	0	4842	3098	7940		29	11.09	1180	0	1180	58	980	2440	3478	3113	368	440	2905	3520	180	0
1050	983	2033	2033	0	4399	3251	7650		30	11.02	1140	0	1140	58	980	2420	3458	3071	387	450	2733	3500	180	0
1050	961	2011	2011	0	4189	3341	7530	SEPT. 1	10.95	1150	0	1150	58	980	2380	3398	3016	382	460	2697	3440	180	0	
1060	970	2030	2030	0	4237	3143	7380		2	10.98	1150	0	1150	60	980	2280	3320	2926	394	470	2869	3360	180	0
1050	1010	2060	2060	0	4158	3172	7330		3	10.92	1140	0	1140	60	980	2280	3320	2950	370	480	2847	3300	168	0
1050	1070	2120	2120	0	4409	3121	7530		4	10.77	1140	0	1140	60	980	2280	3320	2947	373	490	2773	3280	178	0
1050	1050	2100	2100	0	4502	3058	7560		5	10.79	1130	0	1130	60	1020	2210	3290	2922	368	500	2759	3250	178	0
875	710	1585	1585	0	4224	3046	7270		6	11.12	1110	0	1110	60	1010	2050	3120	2760	360	510	2753	3170	168	0
748	547	1295	1295	0	3659	3101	6760		7	10.98	1100	0	1100	60	1010	1920	2990	2632	358	520	2688	2950	166	0
714	522	1236	1128	108	3290	3170	6460		8	10.96	1100	0	1100	60	1010	1890	2960	2579	381	530	2688	2720	153	0
696	510	1206	912	294	3310	3020	6330		9	10.95	1100	0	1100	60	1000	1870	2930	2530	400	540	2730	2720	153	0
674	418	1092	640	452	3090	2860	5950		10	11.03	1100	0	1100	60	1000	1830	2890	2490	400	550	2770	2770	167	0
640	416	1056	558	498	2730	2830	5560	11	10.95	1080	0	1080	60	1000	1730	2790	2390	400	560	2620	2620	141	0	
638	484	1092	505	587	2780	2760	5540	12	10.77	1060	0	1060	60	970	1640	2670	2270	400	570	2460	2460	141	0	
634	660	1294	0	1294	2314	3246	5560	13	10.83	990	0	990	60	970	1600	2630	2230	400	580	2430	2430	140	0	
664	801	1465	0	1465	2538	3022	5560	14	10.58	970	0	970	60	970	1620	2650	1824	826	590	2390	2360	138	0	
720	860	1580	318	1262	3000	2920	5920	15	10.45	980	0	980	60	970	1650	2680	2178	502	600	2450	2420	136	0	
807	886	1693	1075	618	3470	2840	6310	16	10.30	1000	0	1000	60	970	1650	2680	2280	400	610	2520	2520	134	0	
844	940	1784	1360	424	3740	2750	6490	17	10.49	1020	0	1020	59	990	1680	2729	2329	400	620	2640	2440	134	0	
848	807	1655	1032	623	3760	2470	6230	18	10.80	1020	0	1020	59	980	1550	2589	2189	400	630	2550	2350	127	0	
826	665	1491	516	975	3380	2180	5560	19	10.98	1000	0	1000	57	980	1380	2417	2017	400	640	2070	2070	127	0	
799	610	1409	340	1069	2750	2140	4890	20	10.96	980	0	980	57	980	1260	2297	1897	400	650	1780	1780	102	0	
799	524	1323	108	1215	2470	2050	4520	21	10.83	980	0	980	54	960	1150	2154	1764	400	660	1740	1740	102	0	
696	461	1157	0	1157	1915	2125	4040	22	10.58	970	0	970	53	930	856	1839	1439	400	670	1650	1650	102	0	
628	403	1031	0	1031	1095	2295	3390	23	10.72	980	0	980	52	940	537	1529	1004	525	680	1600	1600	80	0	
626	355	981	0	981	0	3110	3110	24	10.65	930	0	930	45	940	463	1448	623	825	690	1470	1470	80	0	
626	373	999					2920	25	10.54	0	890	890	45	930	373	1348	0	1348	700	1400	1400	0	0	
624	420	1044					2920	26	10.38			890	45	900	268	1213					1400			
620	498	1118					2900	27	10.10			880	45	870	220	1135					1480			
620	526	1146					2900	28	9.90			880	0	860	178	1038					1520			
660	458	1118					2680	29	9.86			880	0	850	160	1010					1570			
696	443	1139					2070	30	9.61			330	0	300	686	986					1600			
768	535	1303					2070		9.42			0	0	0	964	964					1610			
172,545					388,235					107,840			238,042						50,514			14,586		

GAGING STATIONS 1940

PLATE NO. 13

SNAKE RIVER NEAR WINNOKA			DATE	MILNER LAKE GAGE FEET	GODDING PROJECT			NORTH SIDE CANAL COMPANY					TWIN FALLS CANAL COMPANY			MILNER LOW LIFT			SNAKE RIVER AT MILNER		
STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL	P.A.	GODDING	MAIN	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL
002	2948	8450	AUG. 21	10.97	0	1220	59	970	2660	3689	3342	347	970	2601	3560	194	0	194	97	0	97
003	2332	8420	22	11.01	0	1220	59	950	2660	3659	3324	345	970	2587	3560	194	0	194	97	0	97
002	2328	8340	23	10.95	0	1220	59	970	2630	3659	3314	345	970	2583	3530	194	0	194	97	0	97
000	2340	8390	24	11.00	0	1220	59	960	2630	3649	3303	346	957	2594	3550	194	0	194	97	0	97
008	2362	8420	25	11.04	0	1220	59	970	2630	3659	3310	349	957	2610	3570	194	0	194	97	0	97
005	3154	8420	26	11.08	0	1220	59	980	2610	3649	3278	371	757	2793	3540	194	0	194	102	0	102
006	3202	8360	27	11.13	0	1210	59	980	2570	3609	3226	383	671	2809	3540	194	0	194	275	0	275
001	3179	8320	28	11.18	0	1210	58	980	2510	3548	3174	374	715	2805	3520	180	0	180	115	0	115
002	3088	7940	29	11.09	0	1180	58	980	2440	3478	3113	365	767	2733	3500	180	0	180	111	0	111
006	3084	7790	30	11.02	0	1140	58	980	2420	3458	3071	367	540	2857	3440	180	0	180	108	0	108
009	3031	7650	31	10.95	0	1130	58	980	2380	3398	3016	362	401	2809	3360	180	0	180	97	0	97
009	3041	7590	32	10.98	0	1130	60	980	2280	3320	2925	354	353	2947	3300	180	0	180	97	0	97
007	3148	7590	33	10.92	0	1140	60	980	2280	3320	2950	370	507	2773	3280	166	0	166	102	0	102
008	3172	7590	34	10.77	0	1140	60	980	2280	3320	2947	373	401	2759	3250	178	0	178	103	0	103
009	3121	7530	35	10.79	0	1130	60	1020	2210	3290	2922	368	417	2753	3170	166	0	166	104	0	104
002	3084	7560	36	11.12	0	1110	60	1010	2050	3120	2760	360	250	2698	2990	166	0	166	102	0	102
004	3046	7270	37	10.98	0	1100	60	1010	1920	2990	2632	358	32	2668	2720	153	0	153	598	0	598
009	3131	6750	38	10.96	0	1100	60	1010	1890	2960	2579	381	0	2720	2720	153	0	153	95	0	95
001	3170	8460	39	10.98	0	1100	60	1000	1870	2950	2530	400	0	2770	2770	147	0	147	102	0	102
005	3020	6330	40	11.03	0	1100	60	1000	1830	2890	2490	400	0	2620	2620	141	0	141	103	0	103
006	2880	5990	41	10.95	0	1080	60	1000	1750	2790	2390	400	0	2460	2460	141	0	141	102	0	102
007	2890	5180	42	10.77	0	1050	60	970	1640	2670	2270	400	0	2430	2430	140	0	140	100	0	100
007	2750	5040	43	10.63	0	990	60	970	1600	2630	2230	400	0	2360	2360	138	0	138	100	0	100
007	3046	5560	44	10.56	0	970	60	970	1620	2650	1924	826	0	2420	2420	136	0	136	99	0	99
008	3022	5560	45	10.49	0	980	60	970	1650	2680	2178	502	0	2320	2320	134	0	134	99	0	99
008	2920	5920	46	10.00	0	1000	60	970	1600	2680	2280	400	0	2320	2320	134	0	134	97	0	97
009	2840	6310	47	10.49	0	1020	59	990	1640	2720	2320	400	0	2440	2440	134	0	134	97	0	97
009	2750	6400	48	10.80	0	1020	59	980	1550	2589	2189	400	0	2350	2350	127	0	127	152	0	152
009	2870	6230	49	10.18	0	1000	57	980	1390	2417	2017	400	0	2070	2070	127	0	127	610	0	610
009	2180	5560	50	10.08	0	980	57	980	1250	2297	1897	400	0	1780	1780	102	0	102	505	0	505
009	2140	4830	51	10.83	0	980	54	960	1150	2164	1764	400	0	1740	1740	102	0	102	180	0	180
009	2090	4620	52	10.58	0	970	53	930	856	1839	1439	400	0	1650	1650	102	0	102	102	0	102
009	2125	4040	53	10.72	0	980	52	940	597	1929	1004	525	0	1600	1600	80	0	80	102	0	102
009	2295	3990	54	10.65	0	930	46	940	463	1448	623	825	0	1470	1470	80	0	80	102	0	102
009	3110	3110	55	10.54	0	890	45	930	373	1348	0	1348	0	1400	1400	0	80	80	100	0	100
009	2920	2920	56	10.38	0	890	45	900	268	1213	0	1213	0	1400	1400	0	80	80	98	0	98
009	2900	2900	57	9.90	0	890	45	870	220	1130	0	1130	0	1390	1390	0	80	80	99	0	99
009	2900	2900	58	9.80	0	890	0	860	178	1058	0	1058	0	1370	1370	0	80	80	100	0	100
009	2680	2680	59	9.50	0	890	0	850	160	1010	0	1010	0	1350	1350	0	80	80			

DAILY STORAGE DIVERSIONS — MAIN RIVER

1946

AIN

PLATE NO. 14

30	31	4	5	6	ACRE-FEET	JACKSON LAKE EQUIVALENT ACRE-FEET	JACKSON LAKE RIGHT ACRE-FEET	AMERICAN FALLS RIGHT OWNED ACRE-FEET	AMERICAN FALLS RIGHT LEASED ACRE-FEET	OTHER RIGHTS ACRE-FEET	RENTALS AND EXCHANGES ACRE-FEET	TOTAL RIGHTS ACRE-FEET
10	10				1,503	1,620						
18	22	10	10	10	1,962	2,115						
270	255	8	6	6	17,225	18,574	1,200	793			① 1,620	1,620
17	17				1,511	1,629	2,000	14,609	291		② 7,704	2,284
117	117	83	12	12	10,379	11,193	6,100	10,509	6,110		③ -7,704	28,423
					192	207					④ 229	2,000
181	181				84	91			4,046		⑤ 91	12,951
92	97				10,984	11,844	5,000				⑥ 6,061	229
201	201	39	5	0	8,370	9,026	2,000	11,994	5,015		⑦ 7,432	22,009
					16,398	17,680	5,120	2,000	835		⑧ 1,040	10,896
41	43	18	0		323	348	1,040	7,496	3,568		⑨ 1,052	23,616
56	60	21	21	23	3,643	3,928	4,000				⑩ 403	1,040
		82	24	28	6,168	6,652	3,000	4,504	1,883		⑪ 1,138	5,052
3	3				121	130		3,002	1,156		⑫ 308	9,387
21	20	3	2	2	353	381					⑬ 123	4,158
		33	0		1,056	1,138					⑭ 10,530	9,387
					182	196					⑮ 2,000	4,158
0	0				286	308		1,034	432		⑯ 1,250	403
95	94		0	1	114	123					⑰ 52	1,138
3	3	86	86	86	311	335		3,002	1,156		⑱ 1,175	1,466
		3	3	0	10,421	11,236		15,852	9,630		⑲ 1,119	308
20	21	1	1	0	210	226		225	82		⑳ 52	123
80	180	3	0		54	58		79	32		㉑ 1,250	14,688
34	34				1,932	2,083	355			⑬ 1,008	㉒ 52	27,482
75	141	36	36	36	10,076	10,865		26,986	9,910		㉓ 52	307
0	1	22	10	0	4,378	4,721	1,500	2,250	825		㉔ 52	111
9	451	55	93	0	16,608	17,908	5,000	28,528	11,931		㉕ 52	2,613
		200	166	252	48	52		9,000	770		㉖ 52	36,896
3	1941				3,114	3,358		27,643	12,152		㉗ 52	5,750
		293	465	446	41,845	45,115	15,000				㉘ 52	46,578
											㉙ 52	9,770
273					168,348	181,520	51,315	169,506	69,824	1,008	㉚ 52	54,795
1340	410	326	0								㉛ 52	324,616
	798	823	335		307	331		15,033	5,787		㉜ 52	20,820
0					22,663	24,438	8,000	22,519	17,417		㉝ 52	47,936
					96,770	104,350	42,685	41,333	59,076		㉞ 52	156,294
					1,355	1,461		4,000	1,540		㉟ 52	5,540
1613	1				268	289		1,462	563		㊱ 50	2,025
					46	50					㊲ 50	50
209	1150	336									㊳ 50	50
26702											㊴ 50	50
197	1100	1585	1295		121,409	130,919	50,685	84,347	84,383		㊵ 50	15,250
935	166	166	153								㊶ 50	234,665
441	5417	252	32		342,238		325,810	50,000	19,660	⑮ 158,370		553,840
180	11922	2760	2632	2	29,526			34,113	13,134			47,247
	130	1110	1100	1	100,951		97,183	151,185				248,368
	104	100	100		474,133		322,007	320,256	139,235			781,498
					213,897			400,000				400,000
					9,273			45,000				45,000
									99,700		-46,909	52,791
											2,924	2,689,645
					461,278	847,000	1,254,407	⑰ 425,936	159,378			

NOTES

- ① RENTED FROM HENRYS LAKE.
- ② TRANSFER FROM ENTERPRISE TO PROGRESSIVE FOR USE ON ENTERPRISE LANDS.
- ③ 195 A.F. FROM UNITED STATES; 34 A.F. FROM HENRYS LAKE.
- ④ 60 A.F. FROM UNITED STATES; 31 A.F. FROM HENRYS LAKE.
- ⑤ 5989 A.F. FROM UNITED STATES; 72 A.F. FROM HENRYS LAKE.
- ⑥ FROM UNITED STATES.
- ⑦ 1000 A.F. FROM UNITED STATES; 52 A.F. FROM HENRYS LAKE.
- ⑧ ROBERT QUINN, CARL WHITE, F.J. ROTH, S.E. CHENEY, M.E. HOLT, ED BROWN, J.A. CROFT.
- ⑨ 152 A.F. FROM UNITED STATES; 251 A.F. FROM HENRYS LAKE.
- ⑩ 600 A.F. FROM UNITED STATES; 538 A.F. FROM HENRYS LAKE.
- ⑪ 132 A.F. FROM UNITED STATES; 176 A.F. FROM HENRYS LAKE.
- ⑫ INCLUDES KRUSE, DAVID, LEE, & BROWN DIVERSIONS.
- ⑬ FROM MARKET LAKE SPRINGS.
- ⑭ 1019 A.F. FROM UNITED STATES; 100 A.F. FROM HENRYS LAKE.
- ⑮ INCLUDES 450 S.F. ON JULY 1.
- ⑯ LAKE WALCOTT 96,870 A.F. PLUS 61,500 A.F. GAIN NEELEY TO MILNER.
- ⑰ SEE PLATES 22 & 23 FOR AMERICAN FALLS WATER USED ON HENRYS FORK.

HENRYS FORK—DAILY SEGREGATION OF FLOW 1946

24 HOUR SECOND-FOOT EXCEPT AS NOTED

STORAGE DIVERSIONS ASHTON TO ST ANTHONY (5)	HENRYS FORK AT ST. ANTHONY			STORAGE DIVERSIONS ST ANTHONY TO REXBURG	STORAGE DIVERSIONS TETON RIVER	DATE	HENRYS FORK NEAR REXBURG		
	STORED	NORMAL	TOTAL				STORED	NORMAL	TOTAL
151	-151	1048	897			JULY 5	-151	1127	976
150	-150	1016	866			6	-150	1074	924
182	34	812	846			7	34	838	892
189	42	804	846		60	8	-18	816	898
156	69	757	826		57	9	12	819	831
169	61	678	739		56	10	5	720	725
267	-42	718	676		34	11	-76	746	670
281	-83	742	659		21	12	-104	734	630
280	45	761	806		19	13	26	544	570
402	-15	671	656		193	14	-208	868	660
403	-26	872	846		203	15	-229	889	660
603	-187	1033	846	278	145	16	-510	1275	765
539	-118	1037	919	312	157	17	-587	1242	655
578	-30	1002	972	302	158	18	-490	1120	630
579	-31	971	940	285	176	19	-482	1157	675
532	54	1046	1100	281	229	20	-456	1311	855
539	349	901	1250	316	202	21	-169	1106	937
592	463	917	1380	296	181	22	-14	1084	1070
611	512	868	1380	272	173	23	67	1003	1070
563	560	780	1340	251	304	24	5	1155	1160
622	492	866	1360	216	235	25	41	1119	1160
633	481	849	1330	193	219	26	69	1101	1170
603	481	939	1480	204	216	27	61	1279	1340
590	358	1082	1440	174	165	28	19	1231	1250
590	358	942	1300	170	126	29	52	1048	1100
595	353	967	1220	167	154	30	32	1048	1080
590	319	831	1150	178	166	31	-25	1075	1050
596	215	905	1120	186	154	AUG. 1	-125	1145	1020
566	236	864	1100	195	158	2	-117	1137	1020
552	262	838	1100	195	149	3	-82	1078	996
528	286	794	1080	208	135	4	-57	1046	989
540	274	796	1070	218	144	5	-88	1032	944
558	256	814	1070	234	151	6	-129	1021	892
554	260	800	1060	228	102	7	-70	955	885
805	9	1041	1050	335	100	8	-426	1287	861
818	45	1005	1050	336	76	9	-367	1259	892
761	20	1050	1070	331	86	10	-397	1288	892
782	114	1076	1190	353	108	11	-347	1317	970
745	269	921	1190	343	106	12	-182	1164	982
794	216	964	1200	332	113	13	-229	1279	1050
772	236	954	1190	259	110	14	-133	1243	1110
753	263	957	1220	259	112	15	-108	1248	1200
690	318	962	1280	258	100	16	-40	1173	1180
655	353	927	1280	248	98	17	7	1173	1180
701	306	944	1250	240	97	18	-31	1211	1170
708	284	956	1240	241	97	19	-54	1224	1160
706	295	965	1260	255	111	20	-71	1231	1150
696	291	949	1240	255	104	21	-68	1218	1200
657	321	929	1250	223	117	22	-19	1239	1290
664	314	946	1260	225	125	23	-36	1466	1430
608	265	1075	1340	188	113	24	-36	1601	1520
656	197	1183	1380	174	104	25	-81	1260	1270
390	463	917	1380	104	69	26	290		

DATE	HENRYS LAKE CONTENTS ACRE-FOOT	HENRYS FORK NEAR LAKE			STORED LOSS LAKE TO ISLAND PARK	STORAGE DIVERSIONS ABOVE ISLAND PARK	FADIST DIVISION CREEK RIGHT	STORAGE INFLUX TO ISLAND PARK RESERVOIR	DATE	ISLAND PARK CONT MORE
		STORED	NORMAL	TOTAL						
AUG. 24	66,740	156	21	177	6	5	10	135	AUG. 25	6
25		156	21	177	6	5	10	135	26	6
26		157	20	177	6	5	10	135	27	6
27		157	20	177	6	5	10	135	28	6
28		151	25	176	6	4	10	131	29	6
29		143	25	168	6	0	10	147	30	6
30		140	25	165	6	0	10	142	31	6
31	63,642	139	22	161	6	0	10	143	SEPT. 1	6
SEPT. 1		139	20	159	6	0	10	143	2	6
2		71	20	91	3	0	8	76	3	6
3		23	20	43	1	0	8	30	4	6
4		19	25	44	1	0	8	28	5	6
5		20	25	45	1	0	8	27	6	6
6		20	25	45	1	0	8	27	7	6
7	63,702	18	25	43	1	0	8	23	8	6
8		18	25	43	1	0	8	23	9	6
9		18	25	43	0	0	8	25	10	6
10		18	25	43	1	0	8	25	11	6
11		18	25	43	1	0	8	25	12	6
12		23	20	43	1	0	8	30	13	6
13		24	20	44	1	0	8	31	14	6
14	63,581	24	20	44	1	0	8	31	15	6
15		24	20	44	1	0	8	31	16	6
16		22	22	44	1	0	8	29	17	6
17		19	25	44	1	0	8	26	18	6
18		18	25	43	0	0	8	18	19	6
19		18	25	43	1	0	8	17	20	6
20		18	25	43	1	0	8	17	21	6
21	63,338	18	25	43	1	0	8	17	22	6
22		18	25	43	1	0	8	17	23	6
23		21	22	43	1	0	8	20	24	6
24		22	20	42	1	0	8	21	25	6
25		22	20	42	1	0	8	20	26	6
26		21	20	41	1	0	8	20	27	6
27		21	20	41	1	0	8	18	28	6
28	62,973	19	20	39	1	0	8	18	29	6
29		19	20	39	1	0	8	18	30	6
30		19	20	39	1	0	8	18	OCT. 1	6
TOTAL		8753			350	444	808	8767		

- (5) LISTED HERE ONE DAY LATER THAN AT DAM.
(6) INCLUDES STORAGE DIVERSIONS FROM FALL RIVER.

1946

STORAGE DIVERS

NAME OF CANAL	NO.	JULY																																				
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	
USERS ABOVE ISLAND PARK	1			5	5	5	5	5	5	5	5	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	
CONANT CREEK	2																																					
SQUIRREL CREEK	3								20	20	19	18	18	18	17	17	16	15	17	17	17	17	16	16	16	15	13	13	13	13	13	13	13	13	13	13	13	13
YELLOWSTONE	4								6	6	6	6	6	6	6	5	5	5	4	4	4	4	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2
MARYSVILLE	5													4	5	6	7	7	7	7	9	9	10	12	13	12	13	13	13	13	14	13	12	11	10	10	10	10
FARMERS OWN	6													194	200	197	195	190	189	190	186	187	194	193	194	194	189	187	189	194	189	184	179	174	174	172	170	
ENTERPRISE	7		151	150	152	154	156	156	156	154	154	154	154	154	150	152	150	148	153	152	151	83	157	157	155	157	156	155	155	157	157	155	149	153	157	157	15	
BELL	8																																					
FALL RIVER & CHESTER	9										0	50	48	45	0						0	34	41	30	33	11	0	0	0	0	5	1	8	1	0			
MCBEE	10																																					
SILKEY	11																																					
CURR	12																							5	4	3	2	0	0	2								
DEWEY	13								21	19	21	21	20	16	16	18	18	16	17	18	18	18	18	18	18	18	18	18	17	18	6	6	6	9	10	9		
LAST CHANCE	14											55	54	54	54	52	52	54	54	54	54	54	54	54	54	58	58	58	58	58	58	56	56	54	54	53	53	
ST ANTHONY UNION	15																																					
FARMERS FRIEND	16			30	34	0	0	56	74	72	57	62	66	45	79	90	97	90	80	69	81	70	75	66	63	73	83	83	73	72	63	62	73	66	84	0		
TWIN GROVES	17																																				0	
SALEM UNION	18																																				0	
TOTAL ASHTON TO ST. ANTHONY	19		151	150	182	188	156	169	267	281	280	402	403	603	539	578	579	592	599	592	611	563	622	633	603	590	590	595	590	596	566	552	528	540	558	554		
EGIN	20													278	300	291	273	269	291	270	245	224	216	193	204	174	170	167	175	167	173	173	183	218	234	228		
INDEPENDENT	21													12	11	12	12	25	26	27	27	0					0	3	19	22	22	25	0	0	0	0		
CONSOLIDATED FARMERS	22																																					
TOTAL ST. ANTHONY TO REXBURG	23													278	312	302	285	281	316	296	272	251	216	193	204	174	170	167	178	186	195	195	208	218	234	228		

AGE DIVERSIONS ON HENRYS FORK AND FALL RIVER

24 HOUR SECOND-FEET EXCEPT AS NOTED

24 HOUR SECOND-FEET EXCEPT AS NOTED																																																	
AUGUST																															SEPTEMBER																		
31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11							
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	5	5	5	5	5	5	5	5	5	5	5	5	5	4																				
13	13	13	13	14	15	16	16	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	15	15	15	15	15	0	0	0	0	0	13	13	13	13	13	13	13	13	13	13	13	13	13	13			
3	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	0	0	0	1	0	0	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
14	13	12	11	10	10	10	10	10	10	10	14	10	10	10	10	10	10	10	10	10	10	10	9	8	7	7	7	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
194	189	184	179	174	174	172	170	173	158	156	123	134	134	124	126	97	123	124	122	122	116	114	86	89	82	81	80	79	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
59	57	53	51	51	51	51	58	53	52	52	52	49	40	39	41	38	38	34	34	34	30	30	30	30	23	15	15	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
157	157	155	149	153	157	157	157	160	156	154	150	146	158	156	156	158	156	156	156	154	156	157	157	159	159	159	160	160	159	153	140	141	140	140	139	120	115	116	117	118	119	120	120	120	120	120	120		
5	1	8	1	0			0	4	5	21	17	17	18	25	0																																		
																	0	4	3	3	2	2	1	0																									
2																																																	
18	6	6	6	9	10	9	12	12	12	12	12	12	9	10	10	10	10	10	10	10	16	16	16	16	16	16	15	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
58	56	56	54	54	53	53	52	52	51	50	50	49	48	48	46	47	46	45	42	38	38	38	38	38	38	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
											7	4																																					
73	72	63	62	73	86	84	77	78	72	60	64	70	70	59	26	26	50	50	57	57	26	36	0	0	25	25	20	0																					
						0	111	111	72	75	75	123	105	96	89	88	89	90	90	91	81	75	79	87	0	0	0																						
						0	140	148	156	168	168	168	164	170	170	166	164	166	166	163	168	171	177	177	0	0																							
596	566	552	528	540	558	554	805	818	761	782	745	794	772	753	690	655	701	704	706	696	657	664	608	656	390	354	334	310	311	154	141	155	154	456	458	236	222	218	217	216	222	173	173	173	173	173			
											13	9	5						15	15																													
167	173	173	183	218	234	228	228	228	216	224	214	206	187	187	185	193	185	185	185	184	167	169	129	109	104	100	96	100	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
19	22	22	25	0	0	0	107	108	115	116	120	121	72	72	73	55	55	56	55	56	56	56	59	65	0																								
186	195	195	208	218	234	228	335	336	331	353	343	332	259	259	258	248	240	241	255	255	223	225	188	174	104	100	96	100	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

① INCLUDE
② AFTER
③ AFTER
④ AFTER

ALL RIVER 1946

PLATE NO 22

SEPTEMBER

SEPTEMBER																			RESERVOIR RIGHTS IN ACRE FEET													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	NO	TOTAL	REGULAR	ADDITIONAL	REGULAR	ADDITIONAL	REGULAR	ADDITIONAL	REGULAR	ADDITIONAL	REGULAR	ADDITIONAL	REGULAR	ADDITIONAL
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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	
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	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
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	
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	
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
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	
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	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	18	18	18	18	18	18	18	18	
19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
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	
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	
26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
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	
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	
29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	

- (1) INCLUDES PETERSON UNIT OF 90 ACRE FEET
- (2) AFTER TRANSFER OF 65 A.F. TO FARMERS OWN CANAL
- (3) AFTER TRANSFER OF 65 A.F. FROM BARTSVILLE, 100 A.F. FROM 30 A.F.
- (4) AFTER TRANSFER OF 100 A.F. TO FARMERS OWN CANAL

- (5) AFTER TRANSFER OF 100 A.F. FROM SALEM UNION, 90 A.F. FROM FALL RIVER CANAL, 90 A.F. FROM FARMERS OWN CANAL
- (6) AFTER TRANSFER OF 100 A.F. TO FARMERS OWN CANAL
- (7) AFTER TRANSFER OF 100 A.F. TO FARMERS OWN CANAL
- (8) AFTER TRANSFER OF 100 A.F. TO FARMERS OWN CANAL
- (9) AFTER TRANSFER OF 100 A.F. TO FARMERS OWN CANAL

OPERATION OF CROSS CUT CANAL DURING 1946

PLATE 22A

LOCATION	24 HOUR SECOND-FEET																																							
	3	4	5	6	7	8	9	10	11	12	JULY																				AUGUST									
												14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	1	2	3	4	5	6	7	8	9	10
INVERTED AT HEAD	130	130	130	130	130	130	130	129	131	131	132	132	132	132	132	132	132	132	132	270	280	280	280	140	35	35	140	180	220	4348	230	220	217	215	215	220	215	215	215	280
INFLOW FROM FALL RIVER CANAL	59	59	59	59	59	57	57	55	55	55	58	51	50	50	50	50	51	58	53	55	53	51	51	55	50	55	53	55	1564	52	47	48	45	42	39	38	40	40	39	
TOTAL SUPPLY	189	189	189	189	189	187	187	184	186	186	184	183	182	182	182	182	183	184	323	335	333	331	191	90	85	195	235	275	5912	272	267	265	260	257	259	258	255	265	312	
MIDDLE BRANCH DIVERSION	103	103	103	103	101	103	102	102	106	110	113	117	93	101	101	98	96	98	99	102	102	103	103	0	71	71	72	91	2777	91	87	86	86	86	92	93	93	92	104	
NORTH BRANCH DIVERSION	112	110	108	107	107	107	105	105	105	107	106	108	105	107	107	107	107	110	112	105	105	105	83	91	0	48	85	91	2861	89	91	90	87	83	84	86	86	87	92	
CROSS CUT BELOW FALL RIVER CANAL DIVERSIONS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	145	144	145	20	11	20	94	95	104	506	94	106	104	104	102	100	91	91	91	131	
TOTAL ACCOUNTED FOR	215	213	211	210	208	210	207	207	211	217	219	225	199	208	208	205	203	206	344	350	351	353	208	102	91	213	248	246	6544	276	264	262	277	271	274	270	269	270	327	
CROSS CUT AT END	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	120	119	116	12	14	14	92	74	81	751	79	88	85	85	84	76	74	75	85	104	

LOCATION	AUGUST																															SEPTEMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
INVERTED AT HEAD	280	280	280	280	250	240	240	240	250	250	250	250	250	270	160	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	6762	130	128	128	128	128	128	129	129	129	129	129	129	129	129	129	129	0	1802																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
INFLOW FROM FALL RIVER CANAL	36	29	28	28	28	28	27	28	29	29	29	29	29	29	29	29	27	27	27	27	27	27	27	27	27	27	27	27	27	27	997	16	16	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

LOSS IN CROSS CUT CANAL FOR JULY AND AUGUST, FROM STATION BELOW FALL RIVER CANAL DIVERSIONS TO END, = 3755 - 3055 = 704 SECOND- FEET = 18.7 %

DAILY ST

19

RIVER 1946

SEPTEMBER

OCTOBER															NO.	TOTAL		FREMONT MADISON RIGHTS			AMERICAN FALLS RENTALS ACRE - FEET	HENRYSLAND RENTALS ACRE - FEET	CREDIT FOR USE FROM UPPER TETON RIVER ACRE - FEET	TOTAL IN RESERVOIR ACRE - FEET	HEADGATE EQUIVALENT ACRE - FEET					
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		SECOND FEET	ACRE - FEET	REGULAR ACRE - FEET	SUPPLEMENT ACRE - FEET	RENT ACRE - FEET										
48	47	0																												
																1	2,296	4,554	5,101	620										
																2	349	699	1,277									5,721	6,102	
																3	172	341	680									1,277	8,090	
0																4	699	1,398	867	171	374							860	1,460	
																5	161	300	402									1,402	2,104	
48	47	0														6	16	32	145									402	500	
																												145	338	
27	27	27	0													7	5,483	7,305	6,662	791	374							7,827	12,644	
7	7	7	7	7	4	0										8	2,105	4,175	6,662	791	374							7,827	7,109	
																9	961	1,113				③ 1,200						1,200	2,103	
																10	2,055	6,059												
8	10	10	0													11	26	52	487									487	588	
																12	504	1,158	④ 2,082									2,082	1,040	
																13	100	214	337									337	304	
																14	5	0	1,587									1,587	1,402	
0	4	3	3	3	0											15	15	30	⑤ 310									310	374	
				0	2	2	2	2	0							16	75	349	452									452	388	
				0	3	3	3	3	3	3	3	0				17	29	117	120	24								144	129	
																18	63	165	152	30								162	165	
																19	0	0	⑥ 150									150	136	
																20	150	298	⑦ 322	64								322	341	
																21	410	613	9,091									1,026	10,117	9,023
																22	24	48	699									100	799	704
8	8	8	8	8	8	8	9	9	8	8	8	0				23	1,047	3,068	5,710									5,710	3,780	
																24	223	442	⑧ 1,320									1,320	1,220	
																25	111	220	70									370	321	
																26	1,400	2,776	2,609	502								5,011	2,261	
																27	0	0	103									103	91	
16	22	21	11	11	10	13	14	14	11	11	11	0	0	0	28	6,815	9,750	23,501	620								500	1,283	25,264	22,400
50	56	55	18	18	14	13	14	14	11	11	11	0	0	0	29	7,070	14,023	30,163	1,411	374	1,200	500	1,283							

① OVERSIA
② ONE DAY
③ RENTED
④ AFTER
⑤ AFTER
⑥ AFTER
⑦ AFTER
⑧ EXCLUDED
⑨ WHICH

PLATE NO. 23

NO	TOTAL	FREMONT MADISON RIGHTS				AMERICAN FALLS RIGHTS	HARRISBURG RIGHTS	RIGHT FOR THE FIRM	TOTAL W. RIGHTS	REMARKS
		REGULAR TEST	REGULAR SUPPLEMENT	FEAT	FEAT					
1	1,200	400	5,100	900					3,700	6,100
2	1,200	400	1,200						1,200	2,400
3	1,200	400	800						800	1,600
4	1,200	400	800	10	910				1,400	2,400
5	1,200	400	800						800	1,600
6	1,200	400	800						800	1,600
7	1,200	400	800	10	910				1,400	2,400
8	1,200	400	800	10	910				1,400	2,400
9	1,200	400	800	10	910				1,400	2,400
10	1,200	400	800	10	910				1,400	2,400
11	1,200	400	800	10	910				1,400	2,400
12	1,200	400	800	10	910				1,400	2,400
13	1,200	400	800	10	910				1,400	2,400
14	1,200	400	800	10	910				1,400	2,400
15	1,200	400	800	10	910				1,400	2,400
16	1,200	400	800	10	910				1,400	2,400
17	1,200	400	800	10	910				1,400	2,400
18	1,200	400	800	10	910				1,400	2,400
19	1,200	400	800	10	910				1,400	2,400
20	1,200	400	800	10	910				1,400	2,400
21	1,200	400	800	10	910				1,400	2,400
22	1,200	400	800	10	910				1,400	2,400
23	1,200	400	800	10	910				1,400	2,400
24	1,200	400	800	10	910				1,400	2,400
25	1,200	400	800	10	910				1,400	2,400
26	1,200	400	800	10	910				1,400	2,400
27	1,200	400	800	10	910				1,400	2,400
28	1,200	400	800	10	910				1,400	2,400
29	1,200	400	800	10	910				1,400	2,400
30	1,200	400	800	10	910				1,400	2,400

- ① DIVIDING DIVIDED BY 175
- ② ONE DAY LATER THAN ACTUAL DIVIDING
- ③ RIGHTS FROM BUREAU OF RECLAMATION
- ④ AFTER TRANSFER OF 100 A.F. FROM FARMERS TRAIL
- ⑤ AFTER TRANSFER OF 100 A.F. FROM FARM TRAIL
- ⑥ AFTER TRANSFER OF 80 A.F. TO FARMERS TRAIL
- ⑦ AFTER TRANSFER OF 40 A.F. TO FARMERS TRAIL
- ⑧ AFTER TRANSFER OF 10 A.F. TO CITY OF READING
- ⑨ EXCLUDES DIVIDING ABOVE ST ANTHONY AUG 8-22, INCLUSIVE, WHICH WERE CREDITED TO CANALS BELOW ST ANTHONY

MISCELLANEOUS ST

STREAM

MAY

JUNE

UPPER TETON RIVER

TRAIL CREEK ABOVE STRING CANAL
 DAME CREEK AT MOUTH
 STRING CANAL
 KIMBALL CANAL
 RICKS-KIRKLEY CANAL
 TOWN CANAL
 SPENDER CANAL
 HUMBLE CANAL
 TONKS CANAL
 FOX CREEK ABOVE DIVERSIONS
 NORTH CANAL
 DARBY CREEK ABOVE DIVERSIONS
 HILL CANAL
 TODD CANAL
 CANNON CANAL
 CHERRY GROVE CANAL
 GRAND TETON CANAL
 TETON CREEK BELOW GRAND TETON CANAL
 CENTRAL TETON CANAL
 SOUTH LEIGH CREEK AT STATE LINE
 BIG HOGG CANAL
 LITTLE HOGG CANAL
 KILPACK CANAL
 DESERT CANAL
 NORTH LEIGH CREEK AT FOREST BOUNDARY
 SPRING CREEK AT HIGHWAY
 TETONIA CANAL
 BADGER CREEK 2 MILES EAST OF HONEYDALE SCHOOL
 CANYON CREEK CANAL

SWAN VALLEY

NORTH FORK INDIAN CREEK
 SOUTH FORK INDIAN CREEK
 PALISADE CANAL
 PALISADE CREEK BELOW PALISADE CANAL
 RAINEY CREEK ABOVE DIVERSIONS

UPPER FALL RIVER

BOON CREEK CANAL
 SQUIRREL CREEK CANAL
 CONANT CREEK CANAL

UPPER HENRYS FORK

SHERIDAN CREEK ABOVE DIVERSIONS
 MORAIN CREEK

(1) INCLUDES DIVERSION FROM WARM CREEK.

EOUS STREAMFLOW RECORDS 1946
 24 HOUR SECOND-FEET

AUGUST

1997

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	568740	592880	620770	652760	663660	630130	581490	622140	847000	850050	656640	458280
2	569450	595250	621490	653250	663420	629160	579120	628680	847230	850050	648650	453960
3	570150	597860	621970	654220	662690	627960	577220	634700	848250	850300	641190	453960
4	570860	598340	622920	655430	662450	626760	574390	642630	848250	850300	641190	453960
5	571330	598570	624120	656640	661240	625800	571570	642630	850820	850050	633010	439630
6	571800	599280	625080	658090	660270	624840	568740	661000	850820	849530	624600	434430
7	572270	599520	626280	659540	659540	624120	565440	670200	851580	849530	615520	428790
8	572740	600230	626760	660750	658820	623400	562140	680180	849280	847230	700710	425860
9	573450	600950	627240	661720	658090	622440	560260	690660	850560	844680	595960	423830
10	574160	601660	627720	662930	657610	621730	558370	700690	850560	839590	587900	421800
11	574860	603100	628200	663900	657360	620290	555780	708300	850050	833230	579120	422480
12	575570	603810	628680	664630	656150	619100	553660	715180	850050	827890	569920	422250
13	576280	604770	629890	665600	654940	618620	551080	722300	848760	820260	561910	422030
14	576990	605480	630850	666080	653730	618380	548740	729220	850050	811930	554600	420220
15	577700	606200	631570	667290	652520	617910	547110	735650	851070	804350	546870	416160
16	578410	607160	632050	667870	651310	617190	545700	741590	852100	796520	539380	412350
17	579120	608350	633010	668480	649860	616230	547340	748030	851580	788740	531430	408330
18	580310	609550	633490	66870	648400	615280	550620	756240	848760	780460	525140	403630
19	581490	610500	634220	667630	647440	614080	554600	763720	847480	771690	517470	401170
20	583870	611930	635180	664390	646240	612410	559080	773190	848000	761970	510040	399160
21	585050	612650	635900	664390	645520	611460	564500	781720	848760	752260	502400	397600
22	585530	612890	637340	664390	644800	610020	569210	790240	851070	743070	495010	397600
23	586430	613370	639020	664630	644080	608350	569210	798790	852870	733180	487390	398040
24	586950	614080	640470	665110	642870	607160	569680	808140	852870	724770	481860	398710
25	587660	615040	641910	665360	642150	605960	569920	816720	851580	717880	475910	399380
26	588140	616230	642870	665110	641190	602380	577940	826610	850300	706580	470180	400060
27	588850	617670	643840	665600	638060	598570	587900	835520	850050	697740	463990	400500
28	589320	618620	644800	665840	633980	595010	596670	84				
29	590030	619310	645620	665360	633060	595010	596670	84				
30	590980	620060	651070	664630	633990	583350	583350	847130	850050	672620	460780	402740
31	592170		651800			583350	583350	847130	850050	672620	460780	402740

DAY	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	4020	3550	3180	3160	3230	4910	6430	18100	15600	12100	10900
2	4000	3570	3080	3100	3250	3720	6350	15800	14400	12200	10400
3	3980	3550	2800	3050	3250	3460	6220	15100	15600	12000	8040
4	3930	3530	2710	3070	3300	3380	6430	16300	15600	11800	9710
5	3910	3530	2840	3010	3430	3380	6690	17600	19000	11800	10100
6	3890	3530	3070	2900	3430	3360	6710	17600	22800	11100	7580
7	3840	3570	3070	2900	3430	3360	6790	17400	25800	9150	6770
8	3820	3510	3030	2900	3430	3300	6930	18000	23700	8290	5860
9	3780	3300	2840	2800	3430	3300	6740	18000	21000	8480	5730
10	3740	3200	2690	2640	3430	3320	6740	17300	21600	8580	5860
11	3720	3260	2600	2530	3430	3360	6510	15500	23600	9110	5100
12	3670	3320	2580	2200	3430	3380	7700	13900	22400	9110	4620
13	3650	3360	2570	2100	3430	3510	9110	13300	20200	8910	4340
14	3610	3280	2550	2100	3430	3700	12900	12900	20200	8770	5200
15	3590	3260	2450	2150	3450	3570	12100	12100	19000	8770	5990
16	3590	3340	2250	2150	3460	3480	11600	11600	19800	8250	7010
17	3590	3360	2200	2600	3480	3420	11500	11500	20600	8160	7010
18	3670	3300	2200	2630	3480	3400	12100	11500	20700	7850	7010
19	3740	3260	2100	2670	3480	3460	13200	12200	19000	7970	6660
20	3720	3280	2300	2700	3480	3700	13100	12700	15900	8250	5420
21	3700	3240	2600	2750	3470	4340	18100	12700	14800	8040	5180
22	3670	3050	3000	2750	3470	4360	16200	13100	14400	8040	5010
23	3610	2950	3260	2750	3460	4340	16000	12700	14600	8220	4550
24	3570	2950	3070	2750	3420	4360	17800	12700	15400	8100	4180
25	3510	2950	2930	2750	3550	4340	19300	12400	15000	7700	4020
26	3480	3120	2910	2750	3510	4340	20300	12400	13700	7610	3780
27	3480	3160	2910	2750	3400	5280	20300	13300	12800	7460	3650
28	3460	3160	3070	2750	3400	5800	19800	14600	12500	6250	3590
29	3420	3100	3550	2780	4650	6170	19200	17000	12700	6060	3570
30	3420	3120	3740	2840	—	6350	19200	19200	12600	5600	3530
31	3550					6380		17700		5060	

MEAN	3,688	3,289	2,824	2,718	3,466	4,132	12,310	14,670	17,900	11,780	8,344	5,372
ACRES	226,800	195,700	173,600	167,100	192,500	254,000	732,200	902,100	1,065,000	724,200	513,000	319,700

MEAN
YEAR
ACRE-FT.
7,550
5,465,900

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7,639,300

DATE	AMOUNT	DESCRIPTION
24,200	3,972	
24,300	4,089	
185,400	3,015	
203,500	3,309	
232,400	4,184	
334,200	5,435	
838,900	14,100	
805,900	13,110	
857,000	14,400	
299,700	4,874	
214,700	3,491	
180,100	3,027	

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4800	4110	3970	4970	2620	4970	7300	21800	18800	5110	880	737
2	4560	4280	4030	4780	3290	5690	7360	19900	16600	4710	912	460
3	4350	4320	3970	4420	3600	6010	7180	16600	15000	4610	904	395
4	4150	4410	3600	4330	3810	5770	7260	13700	14000	4030	681	390
5	4080	4390	3560	4300	3440	5260	7160	12100	13100	3760	588	1010
6	3990	4320	3560	4210	3870	5030	7130	12300	13300	2960	522	2110
7	3780	4390	3920	4210	3630	7560	7400	12600	15500	2120	440	2390
8	3720	4520	3440	4210	3690	4460	7660	12100	18000	1220	576	2540
9	3510	4560	3440	3670	3970	4350	7820	13400	14400	702	681	2280
10	3410	4420	2760	3160	3850	4210	7770	13500	12300	765	714	2120
11	3360	4500	3090	3120	3580	4370	7480	12200	12900	674	1130	1850
12	3360	4610	2640	3720	3720	4610	7560	10200	13800	552	1040	1200
13	3360	4710	2020	3720	4710	8260	8780	13200	13200	612	872	618
14	3290	4670	2350	3700	4860	9510	8110	11500	10300	1310	779	380
15	3200	4570	2110	3760	4860	11300	7030	10300	10300	1490	702	226
16	3190	4500	2090	3780	4610	13300	5990	11100	10300	1030	758	516
17	3080	4650	2620	3780	4540	15200	5300	12400	12400	630	486	1420
18	3220	4520	2250	3810	4370	16100	5390	13600	13600	504	440	2120
19	3290	4370	2050	4050	4370	17200	6400	13000	9750	410	405	2640
20	3120	4210	1980	4170	4610	18900	6630	9750	9750	420	3200	3200
21	3650	4110	2280	2980	4170	20400	6180	7720	7720	570	2250	2500
22	3650	4030	2540	2900	4320	20600	6370	7610	7610	624	2250	2250
23	3790	3760	3250	3300	4520	20200	6900	8180	8180	944	1620	1620
24	3830	3650	3920	3140	4610	21000	7260	9460	9460	1780	1620	1620
25	3870	3870	3710	2930	4610	21800	7560	10100	10100	1930	1700	1700
26	3780	3960	3710	2930	4610	22700	7870	1110	1110	1730	1450	1450
27	3710	4150	3900	3490	4840	23100	9150	7280	7280	2370	1020	1020
28	3710	4100	4170	3480	4820	23500	11700	5930	5930	1670	872	872
29	3780	4060	4330	2820	—	22700	15100	5430	5430	1260	872	872
30	3870	4010	4630	2570	—	7000	18500	—	—	—	—	—

227,100	3,694	198,200	3,223	218,500	3,934	312,600	5,084	798,200	13,410	660,700	10,750	715,200	12,020	95,460	1,553	58,870	957	91,860	1,514
255,500	4,293	196,400	3,195																

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	939370	1140910	1203100	1219780	1176260	1232250	1371550	1567790	1680360	1700560	1216640
2	950560	1145990	1205450	1223110	1176260	1271810	1372560	1595510	1702210	1691400	1231290
3	961410	1151520	1206400	1223620	1176260	1271810	1372560	1616160	1703360	1688230	1217380
4	970590	1155670	1204980	1220740	1176730	1250950	1371580	1622780	1700560	1679260	1203100
5	978940	1157510	1202160	1218820	1179080	1260610	1375080	1619460	1702210	1669210	1186150
6	989110	1164010	1197920	1215460	1180500	1276680	1376590	1622220	1706160	1659810	1169190
7	1000700	1164010	1197920	1215460	1180500	1276680	1376590	1622220	1716890	1646550	1150600
8	1012290	1165900	1205450	1212590	1181910	1284470	1377100	1624990	1715750	1631620	1136770
9	1020440	1175320	1204980	1211630	1182850	1292260	1376090	1632730	1715130	1614530	1121550
10	1028650	1178140	1205450	1208750	1183790	1299570	1378110	1642120	1712900	1603120	1105190
11	1037010	1184730	1204980	1206870	1184260	1303950	1382650	1641570	1707260	1585120	1088510
12	1044940	1186620	1204040	1204040	1184260	1310850	1384160	1644890	1707840	1568880	1074080
13	1052860	1191800	1199800	1195090	1185200	1330160	1385670	1646550	1711200	1534680	1044060
14	1061230	1199330	1199800	1191330	1185680	1339560	1388190	1645440	1711760	1517630	1030410
15	1068270	1201220	1196040	1188030	1185680	1347980	1400300	1642680	1708400	1502840	1015290
16	1073630	1203100	1194620	1185200	1186150	1358940	1417170	1638810	1704480	1486610	999840
17	1076780	1204040	1195090	1182380	1186620	1365000	1437220	1634940	1709520	1471940	985680
18	1079940	1204040	1195090	1180970	1187090	1366000	1451100	1632170	1715750	1454700	970590
19	1085800	1201690	1195090	1179550	1187090	1370040	1466180	1622220	1719740	1438250	954320
20	1085800	1203100	1196040	1178310	1188030	1373060	1482420	1617800	1716320	1420770	938160
21	1092560	1204510	1196040	1178310	1188030	1373060	1482420	1617800	1706720	1403830	923200
22	1095270	1205450	1197450	1176730	1189910	1373570	1501270	1613980	1704480	1387190	908640
23	1101580	1202160	1200740	1177200	1198860	1377100	1515510	1608550	1700560	1372060	892730
24	1104740	1200740	1198390	1177670	1198860	1376090	1522960	1607460	1705040	1355920	880570
25	1111050	1196040	1203100	1177670	1226020	1381640	1525620	1606380	1708960	1339070	869590
26	1119250	1196980	1203100	1178140	1226020	1381640	1525620	1606380	1708960	1339070	869590
27	1124780	1198860	1202220	1178140	1226500	1377100	1512850	1601480	1710640	1322240	860230
28	1130310	1201220	1202220	1178140	1225060	1373060	1510180	1602570	1712900	1307980	850710
29	1136770	1202160	1202160	1178610	1225060	1369030	1510720	1613440	1706160	1291770	841180
30	1139070	1201690	1201690	1178610	1213550	1368020	1530520	1630520	1706160	1276190	829750
31	1142300	1201690	1201690	1177670	1217380	1368020	153180	1653180	1706160	1258170	818470

Year on
Pension

Mean
Age-Three

[illegible]

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	1730	5050	6360	6830	5820	7220	10100	10300	8100	10500	11100
2	2400	5160	6490	7090	5820	4220	10100	10300	14600	10400	11000
3	2420	5390	6530	8230	5820	3820	10100	13500	19800	10700	11000
4	2420	5540	6440	8820	5900	3850	10100	16000	17200	11300	11000
5	2420	5660	6280	8680	5940	3880	10100	16000	12900	11200	11200
6	2190	4980	6280	8500	6070	3910	10100	16000	11200	10900	11300
7	432	4530	6030	8320	6070	3940	10100	14000	15700	10900	11600
8	1770	4630	6530	8140	6110	3940	10100	12800	19600	11400	11600
9	2440	5050	6490	8100	6190	3970	10100	12800	19600	11400	11400
10	2440	5130	6530	7870	6190	4000	10100	12900	19500	11300	11200
11	2460	5350	6490	7690	6190	4000	10100	12900	16400	11500	11200
12	2480	5390	6400	7470	6230	4000	10100	12900	14700	11600	11200
13	2480	5470	6280	7220	6280	4000	10100	12900	14700	11600	10900
14	2480	5430	6230	6910	6280	4000	10100	12900	14700	11600	10800
15	2890	5390	6070	6660	6320	9000	12200	11300	14800	11700	10800
16	3790	6280	6030	6440	6320	4000	11300	11300	14800	11800	11000
17	4190	7470	5390	6280	6360	4030	11300	11300	13400	11800	11300
18	4190	7470	5130	6110	6400	5780	11300	11300	12700	11800	11400
19	3910	7390	5130	5990	6400	7170	11300	11300	12900	11700	11400
20	3760	7470	5130	5860	6360	7170	11300	11300	15600	11600	11300
21	3790	7610	5130	5860	6280	7170	11300	11300	17100	11500	11300
22	3790	7610	5200	5860	5500	7170	11300	11300	13000	11500	11200
23	3790	7430	5240	5860	80	7220	11300	11300	11200	11900	11100
24	3790	7300	5310	5860	78	7260	11300	11300	11200	11900	11100
25	3670	7000	5510	5820	5570	8360	11300	11300	11000	12000	10800
26	3620	6440	5660	5860	8100	26900	11000	11000	11000	12000	10200
27	3620	6110	5860	5900	8100	26900	11000	11000	10900	12000	10000
28	3620	6190	5990	5900	8050	26800	10900	10900	10700	12000	10000
29	4440	6280	6070	5900	—	18900	10700	10600	10600	11800	9980
30	5130	6230	6320	5900	—	11000	10000	10000	10000	11500	9750
31	5240	—	—	5860	—	10000	—	—	—	—	—

Year 8,469
 Month 6,131,300
 Aggr. Total 6,131,300

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	88080	52030	72380	72160	71390	65450	69190	81620	97590	96870	97470
2	87500	53540	72260	72720	71610	62930	68970	79930	96390	96270	97350
3	85520	56980	72160	73170	71610	60420	68420	79930	95670	93790	97230
4	83540	59880	71940	74740	71610	59770	66440	83660	95430	95910	96870
5	81510	62380	71610	75200	71830	59130	66110	83540	95430	95910	96390
6	79370	65230	72050	75420	71940	58700	65890	84940	94840	96390	95910
7	75420	65230	71390	75200	71830	59240	66000	84700	95430	96870	95670
8	70070	64580	72050	74860	72050	59020	65890	81620	96150	96870	94250
9	66660	67210	72160	74970	72050	59450	65450	82860	95910	97590	96150
10	63810	68090	72260	74520	71720	59240	66000	84470	95910	96630	97720
11	60960	68970	72160	74410	72160	58700	66110	86330	95550	96750	97350
12	58050	69520	72050	74070	72380	59450	65890	87030	95910	96390	97470
13	55150	70290	71830	73730	72260	60200	65450	87270	95670	96630	96390
14	52570	70730	71720	73170	72490	59450	65670	88200	94950	97110	95910
15	49890	70070	71610	72720	72490	59770	65890	88430	95180	96150	95910
16	48620	70180	71170	72380	71500	59340	63480	88430	94950	96390	95180
17	48940	72380	71170	72050	72050	59560	64900	88080	95430	96870	94840
18	49150	73390	70070	71720	71390	59560	64800	87850	97590	97230	96150
19	50210	73620	69740	71610	71390	62820	68970	87960	97590	96870	96390
20	49260	73620	69520	71390	71170	64360	71940	87130	97230	96870	96390
21	49890	74070	69630	71390	71170	64360	72050	87150	97840	96390	96630
22	48410	73840	69740	71940	71060	64250	73620	87500	96750	96270	96870
23	49260	73390	69960	72050	71060	64360	85400	87960	95910	95430	96270
24	49790	72940	70070	71610	71500	64580	91340	90060	98560	95550	96630
25	49790	72940	70070	71610	71500	64580	91340	90060	98560	95550	96630
26	49890	71290	70400	71280	71280	67430	92970	93790	99040	96630	97110
27	49790	71070	70510	71280	71170	68530	93320	95910	98320	97590	95910
28	49680	71520	71170	71280	71170	69080	93200	96630	98320	99160	96630
29	49890	71290	71060	71170	71170	68090	92390	97840	98440	99160	96870
30	49890	72380	71720	71170	71170	68970	84010	99400	98560	98440	97590

YEAR
OR
PERIOD
MEAN
AGREEMENT



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Partial discharge to second feet, if

GNARLS RIVER NEAR HINDOKAL, IDAHO

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1690	4630	6960	6630	5950	8210	10500	9830	7680	8240	8480	7380
2	2200	4650	6930	6880	5980	6230	10400	8540	13000	8090	8390	7330
3	2770	4590	6960	7180	6020	4590	11300	8870	18300	8150	8510	7530
4	2750	4540	6740	8330	6120	4280	10900	11800	15800	8300	8570	7560
5	2750	4560	6540	8660	6230	4280	10500	12800	11500	8390	8630	7270
6	2720	4590	6650	8900	6280	4210	10500	13300	8690	8210	8630	6760
7	2700	4610	6610	8780	6380	4210	10400	12800	12200	8150	8660	6460
8	2960	4650	6650	8450	6410	4230	10400	10400	16800	8570	8390	5950
9	3170	4670	6760	8330	6460	4230	10600	8930	16900	8450	8390	5560
10	3170	4940	6790				10600	9080	14900	8600	8450	5540
11	3150	5210	6760	8120	6490	4190	10600	9080	14900	8600	8450	5540
12	3150	5470	6710	7940	6540	4280	10500	9670	12100	8600	8510	5560
13	3070	5680	6650	7700	6540	4520	10400	10000	12000	8480	8420	5560
14	3090	5920	6520	7410	6540	4370	10500	10300	11900	8570	8270	5920
15	3110	5710	6440	7130	6740	4480	10500	9800	12000	8690	8420	6310
16	3130	5730	6310	6850	6900	4320	8780	8780	12100	8570	8450	6490
17	3130	6850	6200	6600	6100	4500	8600	8600	11000	8510	8450	6230
18	3150	7620	5640	6440	7020	4520	8660	8660	9980	8630	8450	5560
19	3110	7620	5400	6280	6790	6020	8690	8660	10500	8600	8450	4890
20	3250	7790	5730	6180	6680	7210	8390	8420	12700	8570	8450	4520
21	3110	8120	5680	5900	6630	7470	11600	8390	14800	8570	8420	4040
22	3150	8120	5490	5920	6630	7410	9670	8330	12000	8600	8360	3390
23	3130	7700	5540	6180	3800	7500	11800	8300	8480	8510	8390	3110
24	3090	7650	5520	6310	1060	7270	17200	8150	8870	8600	8420	2920
25	3130	7360	5560	6250	4770	7910	21800	8030	8870	8480	8420	2920
26	3130	6330	5830	6200	8420	9270	24500	8030	8930	8780	8360	2900
27	3130	6330	5900	6050	8180	9980	25100	8060	8780	8690	7940	2680
28	3150	6360	6180	6050	7700	10300	25000	8960	8690	8810	7700	2070
29	3660	6820	6330	6120	—	10400	21000	8960	8510	8630	7650	2070
30	4520	7070	6490	6150		10400	13100	7790	8300	8660	7530	

190,300	3,095	6,063	6,286	7,048	6,278	388,100	6,313	12,620	9,323	11,760	8,490	513,400	304,900
190,300	3,095	360,800	386,500	433,400	348,600	751,000	388,100	751,000	573,200	699,900	522,000	513,400	304,900

MEAN
YEAR
ACRE-Feet
7,559
5,472,100

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.52	8.63	8.47	8.62	8.36	8.14	8.42	10.26	10.76	10.94	10.93	10.98
2	9.37	8.35	8.44	8.58	8.28	7.93	8.44	10.40	10.84	10.88	10.84	10.77
3	9.16	8.36	8.43	8.59	8.26	8.11	8.64	10.56	10.76	10.85	10.84	10.79
4	8.86	8.40	8.43	8.50	8.33	8.09	8.50	10.60	10.90	10.95	10.86	11.12
5	8.77	8.26	8.40	8.61	8.50	7.80	8.47	10.81	10.92	10.98	10.84	10.98
6	8.77	8.44	8.47	8.61	8.50	8.22	8.50	10.67	10.89	10.95	10.78	10.96
7	8.74	8.37	8.35	8.50	8.25	8.42	8.46	10.92	10.94	10.80	10.88	10.96
8	8.72	8.36	8.44	8.44	8.36	8.10	8.40	10.83	10.94	10.66	10.91	11.03
9	8.87	8.67	8.52	8.37	8.32	8.12	8.49	10.87	10.94	10.73	10.90	10.95
10	8.94	8.62	8.50	8.36	8.30	7.91	8.58	10.78	10.89	10.72	10.82	10.77
11	8.85	8.65	8.52	8.36	8.25	8.20	8.56	10.86	10.96	10.78	10.86	10.63
12	8.77	8.55	8.44	8.36	8.38	8.38	8.45	10.87	10.92	10.81	10.86	10.58
13	8.80	8.60	8.44	8.36	8.40	8.30	8.54	10.88	10.92	10.83	10.87	10.45
14	8.80	8.68	8.43	8.36	8.40	8.30	8.64	10.92	10.97	10.84	10.84	10.30
15	8.78	8.46	8.48	8.41	8.34	8.33	8.64	10.93	10.94	10.91	10.82	10.49
16	8.78	8.44	8.42	8.41	8.40	8.40	8.76	10.86	10.89	10.92	10.80	10.80
17	8.84	8.46	8.44	8.36	8.36	8.40	8.90	10.78	10.98	10.86	10.83	10.98
18	8.82	8.50	8.40	8.32	8.64	8.38	8.82	10.98	10.96	10.96	10.91	10.98
19	8.93	8.43	8.48	8.42	8.38	8.32	8.99	10.86	10.96	11.02	10.93	10.83
20	8.71	8.42	8.29	8.30	8.25	8.32	8.99	10.86	10.96	11.05	10.97	10.58
21	9.05	8.50	8.57	8.36	8.32	8.40	9.01	10.84	10.92	11.09	11.01	10.72
22	8.84	8.54	8.50	8.33	8.29	8.32	9.13	10.80	10.91	11.06	10.95	10.65
23	9.06	8.43	8.46	8.44	8.32	8.34	9.20	10.86	10.90	11.04	11.00	10.54
24	9.11	8.35	8.44	8.40	8.26	8.18	9.51	11.00	10.96	11.04	11.04	10.38
25	9.16	8.36	8.46	8.35	7.81	8.32	9.84	11.06	10.96	11.08	11.18	10.10
26	9.18	8.41	8.47	8.26	8.46	8.46	10.14	11.06	10.96	11.08	11.13	9.90
27	8.92	8.48	8.46	8.37	8.40	8.40	10.48	11.09	10.94	11.13	11.13	9.86
28	8.67	8.48	8.50	8.34	8.34	8.44	10.46	11.06	10.95	11.09	11.09	9.61
29	8.70	8.53	8.49	8.24	8.03	8.43	10.41	11.12	10.96	11.02	11.02	9.42
30	8.51	8.47	8.46	8.17	—	8.43	10.33	11.02	10.92	11.02	11.02	9.42
31	8.60	8.49	8.50	8.36	8.36	8.44	10.74	11.02	10.92	11.02	11.02	9.42

Year
or
Period
NIRAN
Agree-ment

6-7149

The image shows a blue, spiral-bound notebook with a grid pattern. The notebook is open, showing two pages. The left page has a vertical spiral binding on the left edge. The right page has a vertical spiral binding on the right edge. The grid pattern consists of horizontal and vertical lines forming a series of squares. The notebook is placed on a wooden surface.

MINER LOW LIFT CANAL NEAR MINER, IDAHO

Daily discharge, in second-feet, of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	178	178	175	175	175	175	175	175	175	175	175	178
2	166	166	175	175	175	175	175	175	175	175	175	166
3	166	195	175	175	175	175	175	175	175	175	175	166
4	153	194	175	175	175	175	175	175	175	175	175	153
5	153	194	180	175	175	175	175	175	175	175	175	153
6	147	196	196	175	175	175	175	175	175	175	175	147
7	141	197	196	196	196	196	196	196	196	196	196	141
8	141	198	196	196	196	196	196	196	196	196	196	141
9	140	198	196	196	196	196	196	196	196	196	196	140
10	138	199	196	196	196	196	196	196	196	196	196	138
11	136	199	196	196	196	196	196	196	196	196	196	136
12	134	199	196	196	196	196	196	196	196	196	196	134
13	134	192	196	196	196	196	196	196	196	196	196	134
14	134	192	196	196	196	196	196	196	196	196	196	134
15	134	192	196	196	196	196	196	196	196	196	196	134
16	127	194	196	196	196	196	196	196	196	196	196	127
17	127	194	196	196	196	196	196	196	196	196	196	127
18	102	194	196	196	196	196	196	196	196	196	196	102
19	102	194	196	196	196	196	196	196	196	196	196	102
20	80	194	196	196	196	196	196	196	196	196	196	80
21	80	194	196	196	196	196	196	196	196	196	196	80
22	80	194	196	196	196	196	196	196	196	196	196	80
23	80	194	196	196	196	196	196	196	196	196	196	80
24	80	194	196	196	196	196	196	196	196	196	196	80
25	80	194	196	196	196	196	196	196	196	196	196	80
26	80	180	196	196	196	196	196	196	196	196	196	80
27	80	180	196	196	196	196	196	196	196	196	196	80
28	80	180	196	196	196	196	196	196	196	196	196	80
29	80	180	196	196	196	196	196	196	196	196	196	80
30	80	180	196	196	196	196	196	196	196	196	196	80
31	80	180	196	196	196	196	196	196	196	196	196	80

Year	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
Mean	123	193	192	184	173	170	170	170	170	170	170	170
Acres	7,310	11,850	11,820	11,320	10,310	11,010	11,320	11,320	11,320	11,320	11,320	11,320

MEAN 74.1
ACRE-FEET 53,620

[illegible]

9

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	940	1237	1378	1437	1117
2	0	0	0	0	0	0	0	1048	1211	1375	1416	1113
3	0	0	0	0	0	0	0	1134	1259	1371	1412	1104
4	0	0	0	0	0	0	0	1140	1327	1405	1396	1081
5	0	0	0	0	0	0	0	1177	1364	1428	1369	1071
6	0	0	0	0	0	0	0	1228	1362	1423	1367	1069
7	0	0	0	0	0	0	0	1248	1364	1412	1369	1071
8	0	0	0	0	0	0	0	1239	1371	1407	1367	1071
9	0	0	0	0	0	0	0	1243	1373	1423	1364	1048
10	0	0	0	0	0	0	0	1237	1373	1430	1360	1029
11	0	0	0	0	0	0	0	1237	1375	1437	1360	966
12	0	0	0	0	0	0	0	1243	1378	1440	1254	947
13	0	0	0	0	0	0	0	1263	1380	1440	1186	955
14	0	0	0	0	0	0	0	1353	1414	1442	1184	972
15	0	0	0	0	0	0	0	1426	1449	1446	1182	991
16	0	0	0	0	0	0	0	1435	1456	1444	1180	995
17	0	0	0	0	0	0	0	1435	1460	1428	1180	974
18	332	561	516	592	317	0	225	1437	1456	1435	1182	955
19	0	0	0	0	0	0	685	1433	1440	1440	1184	955
20	0	0	0	0	0	0	792	1435	1430	1442	1193	949
21	0	0	0	0	0	0	798	1433	1430	1444	1193	953
22	0	0	0	0	0	0	796	1405	1430	1440	1188	903
23	0	0	0	0	0	0	798	1373	1428	1435	1186	871
24	0	0	0	0	0	0	802	1367	1430	1430	1193	869
25	0	0	0	0	0	0	802	1367	1430	1426	1191	861
26	0	0	0	0	0	0	800	1312	1403	1423	1182	859
27	0	0	0	0	0	0	796	1241	1378	1423	1182	856
28	0	0	0	0	0	0	882	1263	1378	1430	1147	318
29	0	0	0	0	0	0	934	1254	1373	1437	1106	0
30	0	0	0	0	0	0		1237		1440	1121	
31	0	0	0	0	0	0						

[illegible]

8512-1-01 2010年12月31日 2011年12月31日

—MO—
HVERX

Agne-Fert

558

403,870



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	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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YEAR
1950

MEAN

ACRE-LENT

909,990

1,257

MEAN	ACRE-LENT	FEET
495	30,440	30,440
530	31,520	31,520
494	30,350	30,350
465	28,570	28,570
452	25,080	25,080
456	28,060	28,060
477	28,380	28,380
2,525	155,200	155,200
2,491	148,200	148,200
2,622	161,200	161,200
2,654	163,200	163,200
1,341	79,790	79,790

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	893	108	515	478	478	400	415	2080	2140	2150	2280
2	860	550	515	460	478	391	268	2250	2100	2160	2280
3	853	767	518	457	472	400	72	2370	2390	2460	2280
4	875	665	515	460	472	400	0	2450	2390	2470	2210
5	897	611	518	478	478	400	0	2520	2460	2510	2050
6	897	591	518	454	472	388	0	2540	2510	2530	1920
7	897	572	518	478	472	406	0	2510	2510	2570	1890
8	897	553	518	475	472	403	0	2520	2500	2570	1870
9	900	543	525	475	469	424	0	2510	2540	2580	1830
10	893	531	534	460	466	412	0	2520	2550	2610	1730
11	882	525	534	469	469	451	0	2540	2550	2610	1640
12	878	515	525	469	472	478	0	2550	2550	2640	1620
13	882	518	528	469	472	475	0	2570	2540	2690	1650
14	878	518	528	490	469	472	0	2600	2550	2700	1650
15	878	512	528	503	475	469	0	2610	2530	2690	1680
16	878	518	512	487	457	497	30	2580	2530	2670	1550
17	882	522	484	475	445	503	66	2580	2520	2650	1380
18	329	522	481	481	442	503	125	2610	2490	2660	1260
19	0	534	472	469	433	503	238	2580	2470	2650	1150
20	0	537	481	466	430	503	503	2600	2460	2660	856
21	0	537	478	463	424	500	738	2610	2450	2650	537
22	0	531	475	460	415	490	912	2610	2520	2630	463
23	0	525	457	448	406	472	1070	2650	2560	2630	373
24	0	525	448	439	394	475	1240	2620	2560	2670	268
25	0	509	448	457	418	481	1460	2610	2500	2670	220
26	0	503	448	472	415	478	1670	2580	2490	2570	178
27	0	506	448	469	475	475	1740	2500	2400	2510	160
28	0	509	442	469	472	472	1810	2510	2410	2420	686
29	0	509	451	469	475	469	1950	2490	2420	2420	964
30	0	515	454	475	475	469	2470	2470	2420	2360	

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1070	1170	592	592	577	491	65	3360	3190	3270	3510	3300
2	1010	1410	598	595	574	486	65	3530	3200	3290	3520	3280
3	985	800	598	598	574	491	686	3250	3270	3320	3520	3170
4	1040	794	598	595	577	497	968	3200	3270	3360	3530	2950
5	1010	797	598	598	577	497	848	3200	3270	3360	3540	2720
6	1020	794	598	598	577	505	604	3240	3270	3340	3560	2720
7	1040	762	595	592	577	500	529	3280	3290	3350	3540	2770
8	1040	701	595	592	577	497	571	3270	3290	3460	3500	2620
9	1050	637	598	592	577	497	613	3270	3290	3480	3510	2460
10	1050	637	595	589	568	472	673	3290	3280	3520	3520	2630
11	1040	637	595	586	568	466	730	3290	3270	3500	3540	2360
12	1040	634	596	583	571	488	790	3280	3270	3480	3540	2420
13	1040	631	596	586	562	488	848	3270	3270	3480	3560	2520
14	1030	631	596	583	550	488	882	3290	3270	3460	3540	2520
15	1020	631	596	583	556	488	988	3290	3220	3480	3540	2440
16	1030	634	596	586	556	480	1060	3280	3240	3490	3560	2350
17	1040	634	596	583	553	474	1160	3290	3260	3520	3570	2070
18	1030	634	596	589	532	474	1300	3310	3250	3520	3540	1780
19	971	628	596	583	526	463	1390	3310	3260	3480	3550	1740
20	954	628	596	583	517	460	1400	3310	3250	3480	3560	1650
21	940	628	596	583	508	452	1490	3290	3240	3510	3560	1600
22	933	625	596	589	508	466	1820	3310	3200	3540	3530	1470
23	902	622	596	574	508	474	2130	3280	3240	3540	3550	1400
24	842	616	596	556	500	472	2440	3250	3200	3580	3570	1400
25	787	577	596	565	508	472	2970	3270	3200	3580	3540	1480
26	60	580	596	589	505	472	2990	3300	3200	3580	3520	1530
27	145	580	598	586	505	421	3000	3270	3200	3570	3500	1600
28	60	583	598	583	491	65	3110	3290	3240	3540	3440	1610
29	60	601	592	583	-	65	3030	3220	3250	3540	3360	
30	60	610	592	583		65		3220	3240	3540		
31	137							3170	3250	3550		

MEAN	AGRE-	MEAN	AGRE-	MEAN	AGRE-	MEAN	AGRE-	MEAN	AGRE-	MEAN	AGRE-	MEAN	AGRE-
821	50,450	696	41,400	596	36,650	586	36,040	549	30,470	439	27,000	1,307	77,780
												3,286	202,100
												3,251	193,500
												3,465	213,000
												3,530	217,000
												2,239	133,200

MEAN 1,739
AGRE-FEET 1,258,590

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
1	399	3250	6180	5690	5170	7410	10400	4180	142	11	102
2	780	3230	5940	5990	5170	6510	10500	1050	10900	10	104
3	1700	3480	6130	7060	4780	3540	10900	2660	9860	10	104
4	1750	3330	5910	7610	4730	3290	9790	3760	5090	10	662
5	1430	3300	5440	8010	5500	3300	9640	5510	775	10	598
6	1360	3340	5560	7950	5300	3480	10000	5300	1910	10	95
7	1260	3330	5450	7600	5540	3540	9660	2760	8100	10	102
8	1170	3330	5570	7600	5640	3520	9330	2160	8700	10	103
9	1410	3700	5780	7370	5580	3400	9330	1500	8530	11	102
10	1850	3810	5830	7190	5430	3010	9530	414	7900	11	100
11	1910	4230	5860	6920	5220	3400	9360	1370	4390	11	100
12	1790	4400	5780	6560	5700	3630	8950	1590	3940	11	99
13	1800	4490	5510	6560	5970	3500	8930	2090	3780	14	99
14	1840	5160	4880	6090	5910	3860	8980	1920	3810	14	88
15	1850	4940	5180	6120	5910	3520	7240	476	3830	14	89
16	1860	4640	5680	5910	5590	3750	4060	325	3480	15	89
17	1850	5370	4990	5310	5870	3690	4100	255	2310	14	89
18	1910	5680	4700	5520	6180	4520	4910	579	2590	14	91
19	2050	5940	4080	5140	5690	6060	7590	252	3580	16	97
20	2080	5970	4930	5090	5890	6640	7840	268	6550	19	97
21	2130	6420	4930	4840	5780	6520	7590	242	6030	22	102
22	2120	6830	5060	5070	5240	6650	4770	209	785	18	102
23	2150	6950	4890	520	5240	6550	10900	205	599	17	100
24	2160	6610	4720	5320	1270	6640	15400	199	744	10	98
25	2270	6320	4750	5160	7120	7480	18000	199	531	10	100
26	3350	5770	4880	4740	7120	8660	19400	199	718	10	111
27	3330	5300	5110	5610	7490	9470	19600	240	322	10	98
28	3240	5560	5110	5380	6770	10000	17700	985	350	97	102
29	3530	5470	5190	5010	—	10100	55780	1140	350	97	
30	4710	6290	5670	4870				162			

Mean	2,119	4,881	5,349	6,073	5,354	5,495	10,020	1,380	3,754	20.7	64.0	171
Agree- ment	130,300	290,500	328,900	373,400	297,400	337,900	596,000	84,850	223,400	1,280	3,940	10,150
Year												
Mean												
Agree- ment												
Year												
Mean												
Agree- ment												
Year												

3,699
2,678,020

THE NEW YORK PUBLIC LIBRARY

Plat. 46

DAY	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
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1	54	54	54	54	54	54	54	54	54	54	189	159
2	54	54	54	54	54	54	54	54	79	97	129	91
3	54	54	54	54	54	54	54	54		97	168	44
4	54	54	54	54	54	54	54	54		109	188	45
5	54	54	54	54	54	54	54	54		99	189	45
6	54	54	54	54	54	54	54	54		93	189	43
7	54	54	54	54	54	54	54	54		93	190	43
8	54	54	54	54	54	54	54	54		92	194	43
9	54	54	54	54	54	54	54	54		87	194	43
10	54	54	54	54	54	54	54	54		86	196	43
11	54	54	54	54	54	54	54	54		85	195	43
12	54	54	54	54	54	54	54	54		87	194	44
13	54	54	54	54	54	54	54	54		90	190	44
14	54	54	54	54	54	54	54	54		87	190	44
15	32	10								86	189	44
16	10									136	189	44
17	10									224	188	43
18	10									216	186	43
19	10								90	216	184	43
20	10			14						218	182	43
21	10									213	180	43
22	10									207	177	43
23	10									204	177	42
24	10									198	177	42
25	10									195	177	41
26	10									192	177	41
27	10									189	176	39
28	10									189	168	39
29	10									189	165	39
30	10									191	161	

189	184	184	184	184	184	184	184	184	184	184	184	184
Est. 10	Est. 12	Est. 14	Est. 15	Est. 16	Est. 23	Est. 55	Est. 67	184	184	184	184	184
30.6	738	861	833	1,110	1,370	3,380	5,180	8,840	11,340	2,870	48.2	48.2

YMAN
Almanac
38,997

ISLAND PARK RESERVOIR NEAR ISLAND PARK, IDAHO

Contents, in feet, of

For the year ending September 30, 1918

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56775	57035	71805	97740	109655	109515	128675	133990	135610	133590	100420	60900
2	56650	57250	72610	98675	109655	109515	129220	133430	135530	133430	99075	60900
3	56605	57165	73315	99410	109370	109515	129930	133830	135285	133590	97810	60170
4	56650	57250	74135	100220	109655	109515	130405	133910	135450	133030	96485	58785
5	56650	57205	74965	101100	109440	109515	130800	134075	135450	132550	95040	57900
6	56860	57290	75800	101845	109440	109515	131115	134555	135610	131590	93675	56905
7	56950	57165	76695	102595	109440	109515	131435	134555	135285	131590	92195	56055
8	56990	57035	78230	103420	109230	110230	131750	134555	135285	131355	91110	55385
9	57075	56950	78230	104110	109230	111015	131830	134880	135125	131035	90290	54840
10	57120	56950	79035	104940	109300	111735	131910	134555	135125	130325	88590	54220
11	57120	57165	79845	105775	109370	112455	131990	134475	135045	129930	87040	53690
12	57075	57205	80665	106405	109440	113185	132150	133910	135125	129380	85565	53530
13	57075	57335	81490	107105	109300	114205	132310	133750	135125	128750	84295	53410
14	57120	57335	82255	107740	109230	115300	132470	134880	135045	127655	82615	53490
15	57250	57205	83090	108660	109230	116040	132630	135045	135045	126875	81250	52925
16	57205	58340	83870	109300	109300	116040	132870	135450	134720	126020	79790	52445
17	57165	84660	84660	109585	109230	116630	133270	135530	134555	124860	78230	51930
18	57165	85565	85565	109515	109230	117295	133750	135530	134475	123780	76805	51465
19	57165	86360	86360	109515	109230	118040	133910	135530	134475	122335	75295	51385
20	56860	62195	87040	109440	109230	119160	134555	135855	134475	120590	73860	51425
21	56860	63090	87905	109440	109230	120140	134640	135610	134395	118710	72395	51465
22	56905	63950	89030	109440	109300	120895	134720	135770	134395	118550	71115	51465
23	56950	64820	89910	109725	109300	121650	134395	135855	134155	114865	69700	51500
24	56950	65750	90795	109940	109300	122490	134960	135610	134155	112965	68460	51540
25	57035	66440	91620	109870	109300	123325	135205	135610	134155	111090	67090	51540
26	57075	67390	92515	109870	109370	123935	135450	135530	134075	109300	65700	51500
27	57120	68410	93480	109940	109440	124625	134800	135530	133990	107740	64385	51500
28	57075	69230	94650	109940	109585	125400	134075	136175	133750	106125	63615	51500
29	56950	70010	95435	109870	109585	126175	133990	136175	133670	104595	62055	51465
30	56905	70955	96225	110015	109585	126955	133750	136015	133670	103075	61360	51465

FEET
ACRES
MEAN

YEAR
OR
PERIOD

MEAN
AGREEMENT

U. S. GOVERNMENT PRINTING OFFICE
1918-27143

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	601	391	409	418	524	500	454	458	472	472	472	472
2	567	409	409	472	472	409	119	1170	1140	885	625	1320
3	524	418	409	472	472	409	166	1160	846	772	1320	1120
4	500	436	450	472	472	409	185	1200	865	758	1320	1050
5	454	450	468	472	472	409	219	1240	880	772	1320	1020
6	458	468	472	472	472	182	248	1260	831	767	1250	925
7	472	472	450	472	472	19	269	1300	826	772	1190	856
8	472	450	432	472	382	19	290	1300	821	767	1300	851
9	472	472	432	472	382	19	303	1260	802	738	1420	851
10	500	404	404	404	382	19	321	1240	802	831	1420	694
11	509	404	404	404	382	19	329	986	811	895	1410	586
12	476	396	404	404	382	19	355	743	797	885	1410	548
13	463	427	481	404	404	19	382	738	806	925	1410	694
14	463	519	170	11	11	205	418	806	787	930	1410	836
15	519	538	7	8	409	147	454	831	767	1060	1410	836
16	538	538	7	8	409	11	495	860	713	1060	1400	831
17	538	538	7	8	409	11	552	860	689	1160	1400	679
18	538	486	7	8	409	11	630	865	689	1470	1400	533
19	486	463	7	8	409	11	674	940	674	1580	1390	533
20	463	436	7	8	409	11	1010	1020	660	1650	1390	533
21	436	436	7	8	409	11	1320	1050	660	1650	1380	533
22	422	422	7	9	409	11	1520	1060	645	1640	1360	533
23	422	422	7	9	409	11	1400	1040	645	1640	1360	552
24	422	422	7	9	409	11	1590	1030	645	1610	1360	557
25	422	422	7	10	409	11	1940	1020	640	1470	1210	557
26	422	422	7	10	409	11	2400	1040	625	1470	1070	557
27	463	463	7	10	409	11	2390	1100	601	1470	1060	552
28	476	476	7	10	409	11	1980	1100	591	1430	1000	552
29	454	454	7	10	409	11	1740	1130	581	1330	1000	846
30	432	432	7	10	409	11	1480	1100	581	1320	846	
31	396	396						1100				

MEAN	477	211	8.5	201	424	106	825	1,067	754	1,122	1,308	726
AGRE-	29,320	12,540	524	12,390	23,550	6,530	49,060	65,610	44,890	69,000	80,400	43,170
FEET												

MEAN YEAR
AGRE- FEET
436,984

100

重刊

1,051

0	103,200	72
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2	1.679
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1. 0.01

1774

1680

1730

092E
0/8T1550
0291

1550

1570

1580

0191
0167

1570

0.0091
0.00710621
06ET

ROBERT

1350

1350

1320

1270

1650

1760

1880

0761

2030

1980

1970

086T

0761

006T

098T

2000

0037

0000

May

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1340	1190	738	760	1100	1090	869	3260	2100	1400	2100	1320
2	1340	1200	676	760	1230	1080	916	3040	2040	1390	2080	1440
3	1280	1230	656	760	1230	1090	940	2840	1980	1470	2060	1750
4	1260	1230	707	749	1210	1060	964	2910	1810	1610	2080	1940
5	1210	1240	792	749	1210	1100	1030	2990	1810	1580	2080	1790
6	1170	1300	760	760	1210	1100	1140	3010	1840	1600	2080	1730
7	1210	1280	760	728	1230	1090	1170	2950	1830	1580	2060	1700
8	1190	1280	707	749	1140	770	1200	2990	1790	1600	1920	1530
9	1200	1230	646	665	1140	686	1240	3010	1770	1610	1840	1530
10	1200	1270	738	696	1090	707	1280	2860	1770	1560	2160	1530
11	1230	1260	760	646	1100	707	1200	2720	1750	1560	2140	1520
12	1240	1240	676	738	1050	718	1300	2610	1840	1700	2140	1280
13	1200	1200	718	665	1120	760	1400	2320	1790	1730	2140	1210
14	1260	1230	707	707	1100	760	1580	2100	1730	1730	2140	1170
15	1100	1300	728	707	1080	738	1730	2140	1750	1730	2200	1530
16	1280	825	738	728	1100	1060	1940	2140	1660	1840	2160	1630
17	1280	760	749	847	1090	836	2100	2140	1650	1860	2160	1630
18	1320	728	656	1090	1120	707	2380	2120	1600	1880	2160	1600
19	1280	760	676	1090	1130	738	2720	2100	1580	2160	2140	1270
20	1210	696	686	1080	1160	803	3060	2060	1580	2340	2140	1200
21	1200	728	770	1100	1120	803	3720	2160	1580	2490	2120	1230
22	1170	656	803	1120	1130	781	3670	2260	1530	2490	2120	1210
23	1190	686	803	1010	1080	770	3650	2280	1560	2530	2140	1200
24	1140	738	770	1190	1120	792	3580	2220	1580	2490	2160	1200
25	1170	803	803	1120	1170	781	4000	2180	1580	2470	2180	1270
26	1170	738	781	1140	1100	696	4380	2160	1550	2360	2120	1260
27	1170	770	803	1100	1100	738	4660	2200	1520	2260	2120	1260
28	1210	749	803	1000	1100	803	4260	2300	1450	2240	1770	1280
29	1210	760	814	1040	1050	858	3810	2400	1470	2260	1770	1270
30	1230	792	770	1060	—	880	3670	2300	1420	2180	1610	1280
31	1230	770	770	1060	—	916	—	2180	—	2120	—	—

MEAN	1,222	996	742	890	1,134	852	2,319	2,482	1,697	1,930	2,062	1,426
AGRE-LEVEL	75,150	59,240	45,610	54,750	63,000	52,400	138,000	152,600	101,000	118,700	126,800	84,830

Year
MEAN 1,481
AGRE-LEVEL 1,072,080

HENRYS FORD at ST. ANTHONY, IDAHO

Daily discharge, in second-feet, of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
2	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
3	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
4	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
5	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
6	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
7	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
8	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
9	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
10	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
11	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
12	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
13	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
14	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
15	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
16	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
17	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
18	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
19	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
20	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
21	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
22	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
23	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
24	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
25	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
26	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
27	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
28	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
29	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
30	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
31	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100

MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN
1,282	1,227	1,021	1,868	2,936	1,800	111,200	62,770	75,430	76,280	1,282	1,227	1,021

MEAN 506,180
PERIOD 180,500
ACRE-Feet 111,200

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2340	2270	2080	1570	1640	1880	2050	5210	3270	1030	1020	1480
2	2210	2100	2130	1620	1620	1890	2040	4270	2990	976	996	1170
3	2140	2100	1410	1620	1620	1870	1990	3870	2750	930	989	1340
4	2170	2120	1570	1620	1970	1890	1980	3850	2570	976	944	1590
5	2090	2120	1620	1620	1980	1930	2000	3880	2950	924	892	1680
6	2020	2170	1620	1600	1980	1900	2080	3880	3430	892	885	1760
7	1970	2210	1570	1590	1920	1810	2100	3760	3330	898	861	1760
8	1960	2090	1510	1500	1900	1560	2100	4040	2950	831	892	1660
9	1930	1960	1400	1470	1850	1540	2100	4060	2910	725	892	1640
10	1900	1990	1360	1470	1850	1710	2090	3650	2980	670	970	1620
11	1890	1890	1460	1350	1850	2040	3280	3310	3370	630	982	1510
12	1900	2130	1410	1250	1810	1800	2070	3280	3370	670	1050	1360
13	1920	2070	1370	1350	1820	1790	2170	2660	3080	660	1110	1290
14	1880	1990	1380	1450	1870	1940	2350	2660	3080	660	1140	1300
15	1950	2040	1400	1450	1850	1850	2640	2360	2900	665	1200	1530
16	1850	2140	1420	1500	1870	1730	2950	2140	2810	665	1180	1700
17	2000	1770	1430	1570	1870	1900	3240	2160	2670	630	1180	1840
18	2040	1670	1350	1700	1880	1620	3530	2080	2510	665	1170	1990
19	2050	1650	1400	1870	1890	1650	4000	2270	1780	855	1160	1850
20	1940	1630	1400	1870	1900	1850	4610	2200	1590	937	1150	1810
21	2020	1570	1490	1870	1910	2160	5430	2270	1500	1070	1220	1800
22	2030	1530	1570	1880	1920	2050	6200	2470	1460	1070	1290	1820
23	2030	1480	1630	1900	1880	1920	6150	2750	1600	1160	1430	1830
24	1980	1570	1620	1970	1890	1900	5980	2800	1830	1160	1520	1800
25	1960	1670	1620	1900	1980	1850	5910	2780	1720	1170	1570	1790
26	1960	1670	1640	1900	1900	1730	6330	2990	1360	1340	1660	1750
27	1930	1640	1650	1840	1880	1620	6790	2990	1270	1250	1730	1770
28	1960	1610	1750	1770	1750	1740	7080	3320	1310	1110	1600	1760
29	1990	1580	1820	1820	1820	1970	6770	3950	1080	1080	1610	1560
30	1990	1620	1800	1840	1820	2200	4550	4430	1050	1050	1560	1560

Month	2,003	1,867	1,532	1,669	1,900	1,855	3,775	3,323	2,448	918	1,189	1,640
Year	123,200	111,100	94,210	102,600	105,500	114,100	224,600	204,300	145,700	56,430	73,140	97,570
2,006												

Y RAN
AGRICULTURE
1,452,450

U. S. DEPARTMENT OF AGRICULTURE
OFFICE OF THE ASSISTANT SECRETARY FOR AGRICULTURAL MARKETING

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	134.00	134.30	136.25	138.65	140.75	141.95	142.70	142.85	142.85	151.98	151.67	151.67
2	134.00	134.30	136.25	138.65	140.75	141.95	142.70	142.85	142.85	151.82	151.67	151.67
3	134.00	134.30	136.25	138.65	140.75	141.95	142.70	142.85	142.85	151.36	151.67	151.67
4	134.00	134.30	136.25	138.65	140.75	141.95	142.70	142.85	142.85	151.36	151.67	151.67
5	134.00	134.45	136.40	138.80	140.90	141.95	142.70	142.85	142.85	151.20	151.67	151.67
6	134.00	134.45	136.55	138.95	140.90	141.95	142.70	142.85	142.85	151.20	151.67	151.67
7	134.00	134.60	136.70	138.95	141.05	141.95	142.85	142.85	142.85	151.05	149.34	151.67
8	134.00	134.60	136.70	139.25	141.05	141.95	142.85	142.85	142.85	151.05	147.48	151.67
9	134.00	134.60	136.70	139.25	141.05	141.95	142.85	142.85	142.85	151.05	145.47	151.67
10	134.00	134.60	136.70	139.25	141.20	141.95	142.85	142.85	142.85	151.05	145.47	151.67
11	134.00	134.60	136.85	139.25	141.35	142.10	142.85	142.85	142.85	151.05	141.50	151.67
12	134.00	134.60	136.85	139.25	141.35	142.10	142.85	142.85	142.85	151.05	141.50	151.67
13	134.00	134.75	136.85	139.25	141.35	142.25	142.85	142.85	142.85	151.05	137.15	151.67
14	134.00	134.75	136.85	139.25	141.35	142.25	142.85	142.85	142.85	151.05	135.05	151.67
15	134.00	135.05	136.85	139.25	141.35	142.25	142.85	142.85	142.85	151.05	132.95	151.67
16	134.00	135.05	136.85	139.25	141.35	142.25	142.85	142.85	142.85	151.05	130.86	151.67
17	134.00	135.05	137.00	139.25	141.35	142.25	142.85	142.85	142.85	151.05	128.97	151.67
18	134.15	135.05	137.00	139.25	141.35	142.40	142.85	142.85	142.85	151.05	126.80	151.67
19	134.15	135.35	137.15	139.25	141.35	142.40	142.85	142.85	142.85	151.05	124.91	151.67
20	134.15	135.35	137.15	139.25	141.50	142.70	142.85	142.85	142.85	151.05	123.03	151.67
21	134.15	135.35	137.15	139.25	141.50	142.70	142.85	142.85	142.85	151.05	121.14	151.67
22	134.15	135.35	137.30	139.40	141.50	142.70	142.85	142.85	142.85	151.05	121.14	151.67
23	134.15	135.65	137.60	139.55	141.65	142.70	142.85	142.85	142.85	151.82	121.14	151.67
24	134.15	135.65	137.60	139.70	141.65	142.85	142.85	142.85	142.85	151.82	121.14	151.67
25	134.15	135.65	137.60	139.85	141.80	142.85	142.85	142.85	142.85	151.82	121.14	151.67
26	134.15	135.80	137.90	139.85	141.95	142.85	142.85	142.85	142.85	151.82	121.14	151.67
27	134.15	135.80	138.20	139.85	141.95	142.70	142.85	142.85	142.85	151.82	121.14	151.67
28	134.15	136.10	138.50	139.85	141.95	142.70	142.85	142.85	142.85	151.82	121.14	151.67
29	134.15	136.10	138.50	140.00	141.95	142.70	142.85	142.85	142.85	151.82	121.14	151.67
30	134.30	136.25	138.65	140.15	141.95	142.70	142.85	142.85	142.85	151.82	121.14	151.67
31	134.30	136.25	138.65	140.15	141.95	142.70	142.85	142.85	142.85	151.82	121.14	151.67

Year
or
Period
Mean
Age-Perf.

FALL RIVER near SQUIRREL, IDAHO

Daily discharge, in second-feet, of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	560	554	525	480	403	410	428	1780	1470	805	500	500
2	555	554	525	460	402	410	430	1900	1630	748	485	515
3	546	554	525	510	400	410	440	2200	1870	710	470	515
4	540	554	510	505	400	410	450	2140	2540	673	470	578
5	530	554	545	500	400	410	478	2100	2700	637	470	546
6	520	545	495	495	400	410	480	2050	2450	655	455	530
7	510	525	490	455	400	410	475	2080	2270	637	546	530
8	500	515	480	440	400	410	470	2080	2300	619	562	530
9	508	508	470	435	400	412	462	1900	2580	619	546	515
10	500	515	470	430	400	413	475	1650	2600	619	578	500
11	495	522	470	425	400	414	515	1570	2350	619	578	500
12	490	540	470	415	400	415	600	1530	2170	602	578	485
13	485	565	470	405	400	416	700	1500	2050	594	578	485
14	485	575	470	405	400	417	800	1500	2000	594	578	500
15	485	578	470	405	401	418	937	1500	1980	578	594	530
16	485	575	470	405	402	419	1100	1650	1650	562	562	619
17	515	538	460	405	403	420	1300	1810	1350	562	578	578
18	646	535	460	405	403	421	1500	1900	1190	554	546	546
19	620	535	460	410	403	422	1900	1880	1100	546	554	515
20	590	530	480	410	404	422	1670	1830	1100	530	570	515
21	546	520	510	410	405	422	1670	1780	1160	530	500	546
22	535	515	485	415	406	422	1670	1760	1340	515	530	530
23	520	520	485	427	408	422	2110	1740	1150	515	515	500
24	510	525	485	415	415	422	2400	1730	900	515	500	500
25	508	525	485	405	416	422	2610	1800	850	530	500	500
26	508	525	485	405	410	422	2650	1900	815	500	485	485
27	508	522	485	405	410	423	2400	2080	840	500	490	490
28	508	525	525	405	410	424	2150	1950	895	500	515	515
29	510	525	550	405	405	425	2000	1840	805	500	500	495
30	525	530	550	405	405	426		1650		485		

Year	Mean	Year	Mean
1917	1,190	1918	1,810
1919	1,654	1920	98,390
1920	594	1921	36,530
1921	528	1922	32,460
1922	520	1923	30,930

549,710
759

FALL RIVER near CHESTER, IOWA

For the year ending September 30, 1915

200	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
21	20	19	18	17	16	15	14	13	12	11	10	9
20	19	18	17	16	15	14	13	12	11	10	9	8
19	18	17	16	15	14	13	12	11	10	9	8	7
18	17	16	15	14	13	12	11	10	9	8	7	6
17	16	15	14	13	12	11	10	9	8	7	6	5
16	15	14	13	12	11	10	9	8	7	6	5	4
15	14	13	12	11	10	9	8	7	6	5	4	3
14	13	12	11	10	9	8	7	6	5	4	3	2
13	12	11	10	9	8	7	6	5	4	3	2	1
12	11	10	9	8	7	6	5	4	3	2	1	
11	10	9	8	7	6	5	4	3	2	1		
10	9	8	7	6	5	4	3	2	1			
9	8	7	6	5	4	3	2	1				
8	7	6	5	4	3	2	1					
7	6	5	4	3	2	1						
6	5	4	3	2	1							
5	4	3	2	1								
4	3	2	1									
3	2	1										
2	1											
1												

Year	Month	Day	Time	Place	Remarks
1915	Oct	1	10:00	Fall River	First day of season
1915	Nov	1	10:00	Fall River	Second day of season
1915	Dec	1	10:00	Fall River	Third day of season
1915	Jan	1	10:00	Fall River	Fourth day of season
1915	Feb	1	10:00	Fall River	Fifth day of season
1915	Mar	1	10:00	Fall River	Sixth day of season
1915	Apr	1	10:00	Fall River	Seventh day of season
1915	May	1	10:00	Fall River	Eighth day of season
1915	June	1	10:00	Fall River	Ninth day of season
1915	July	1	10:00	Fall River	Tenth day of season
1915	Aug	1	10:00	Fall River	Eleventh day of season
1915	Sept	1	10:00	Fall River	Twelfth day of season

for the year ending September 30, 1915
Plate 51

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	431	431	339	360	204	235	730	657	608	608	478	364
2	425	425	339	330	204	235	708	601	581	629	454	359
3	425	419	339	300	204	238	574	554	541	622	454	354
4	419	408	330	300	204	240	600	535	516	615	443	344
5	413	392	310	300	204	240	635	548	554	608	425	419
6	402	375	270	300	200	212	664	601	693	615	425	402
7	397	370	240	300	200	245	610	636	792	622	413	397
8	397	354	225	300	200	250	550	643	746	595	408	386
9	392	349	225	245	200	250	490	723	716	568	408	380
10	392	350	235	235	200	250	400	746	792	554	408	370
11	392	360	240	225	200	255	380	708	839	541	402	359
12	397	360	240	200	200	256	390	588	872	535	402	354
13	402	359	240	200	200	258	397	541	784	522	397	339
14	392	355	240	200	210	260	408	528	753	516	392	334
15	386	355	240	200	215	250	419	510	769	503	380	329
16	386	365	235	200	220	250	425	478	808	491	375	339
17	392	370	235	204	220	250	460	466	815	472	419	419
18	448	365	235	204	222	250	497	443	792	460	359	375
19	443	355	235	204	224	280	510	437	723	454	359	354
20	443	345	230	204	225	310	528	443	678	454	354	354
21	448	325	240	204	225	370	554	437	686	460	354	349
22	448	300	260	204	228	350	528	472	708	454	354	354
23	437	320	290	204	230	344	510	478	716	448	364	339
24	443	330	295	204	230	340	503	561	716	454	386	334
25	425	340	295	204	232	340	574	528	650	497	386	329
26	408	340	295	204	235	390	664	561	595	503	386	324
27	392	340	296	204	235	500	708	588	595	478	380	319
28	380	340	300	204	235	620	686	561	601	466	386	314
29	375	340	500	204	235	753	678	723	595	472	380	314
30	386	340	460	204	235	660	650	723	595	484	370	314
31	419	386	400	204	235	660	650	723	595	484	370	314

Mean River	25,260	21,380	17,550	14,390	11,900	19,940	32,350	35,120	41,550	32,060	24,240	21,240
Mean Ague-Treat	411	359	285	234	214	324	544	571	698	521	394	357
410												
296,980												

Year
Mean
Ague-Treat
296,980

TEYON RIVER near ST. ANTHONY, IDAHO

for the year ending September 30, 1916

Plate 58

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	680	672	530	500	410	426	976	1930	1250	1120	852	623
2	675	666	530	490	410	422	998	1640	1220	1180	830	618
3	670	661	520	485	410	444	932	1530	1230	1140	810	608
4	660	661	507	485	410	430	789	1680	1350	1120	796	602
5	655	661	530	485	410	430	816	1890	1600	1100	782	655
6	650	628	466	485	410	448	902	2050	1880	1070	756	683
7	640	628	489	484	400	395	976	2040	1850	1050	743	661
8	635	597	417	484	400	462	837	2060	1710	1020	737	655
9	630	516	395	430	400	440	776	2040	1670	991	743	650
10	630	582	400	410	400	458	694	1940	1790	954	756	639
11	630	592	405	400	400	494	634	1740	1850	924	756	628
12	625	578	410	390	390	498	694	1570	1900	909	756	613
13	623	578	417	390	390	535	750	1510	1690	895	750	608
14	618	568	412	400	400	558	830	1450	1610	888	750	592
15	608	573	410	400	400	512	932	1340	1620	859	731	587
16	602	597	410	420	402	484	1010	1310	1670	852	719	602
17	608	592	410	410	402	462	1120	1320	1660	823	706	683
18	655	578	430	430	402	471	1270	1460	1530	796	706	683
19	683	568	450	420	402	521	1530	1500	1290	762	706	608
20	672	554	470	410	410	737	1810	1440	1280	762	706	587
21	678	484	490	410	426	634	1560	1440	1320	837	694	587
22	666	500	490	420	412	639	1440	1450	1370	946	700	582
23	655	520	490	460	426	613	1470	1440	1340	902	683	573
24	650	530	490	470	453	563	1710	1450	1270	888	644	568
25	628	530	490	430	417	549	2080	1440	1140	888	644	554
26	613	530	490	410	417	634	2270	1460	1110	810	644	554
27	602	530	490	410	417	873	2220	1550	1120	816	639	549
28	592	530	490	410	435	1240	2100	1690	1120	844	639	539
29	602	530	870	410	-	1480	2080	1560	1110	844	628	535
30	634	530	600	410		1250		1350		852		

MEAN	639	575	490	434	409	606	1,266	1,606	1,464	924	721	609
AGRE-	39,310	34,240	30,120	26,690	22,730	37,270	75,340	98,780	87,110	56,890	44,740	36,230

YUAN
ALBAN
AGRE-PART
588,990
814