

WATER DISTRIBUTION
AND HYDROMETRIC WORK
DISTRICT NO. 36
SNAKE RIVER, IDAHO

1958

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INTRODUCTION

The annual meeting of Water District No. 36 was held at Idaho Falls on March 3, 1958. Lynn Crandall was re-elected as watermaster for his 29th and final term of office. He announced that he would retire from this position on December 31, 1958 after reaching 70 years of age and having spent over 48 years in various positions dealing with water matters on Snake River and its tributaries.

The following were elected as members of the Committee of Nine:

N. V. Sharp, Chairman; Leonard Graham, Vice-Chairman; C. N. Scoresby, Secretary; David Dick; Leo Murdock; Frank Redfield; J. H. Silbaugh; R. Willis Walker and Cy Young.

Advisory members: Merle Tillery, representing the Bureau of Reclamation; Lawrence Duffin, representing Minidoka Irrigation District; and William Kerner, representing the Gooding Project.

Teton Basin users are authorized to select an advisory member of the Committee but were not present at the annual meeting.

Principal resolutions adopted at the annual meeting were as follows:

1. Approved the stored water transmission loss schedule of $2\frac{1}{2}\%$ Moran to Heise; 4.4% Heise to Lorenzo; 0.5% Lorenzo to Shelley; 6% Shelley to Blackfoot; 4.0% Henrys Lake to Island Park; 2.5% Island Park to Ashton. The Moran to Heise loss was subdivided, 1.7% Moran to Palisades and 0.8% Palisades to Heise.
2. Adopted a budget of \$51,544 to cover expenses of operating the District during the ensuing year, of which it was estimated that at least \$15,000 would be available from Federal and State stream gaging funds.

3. Approved the proposed Burns Creek Reservoir provided that the authorizing legislation include a provision for the assumption by the Palisades-Burns Creek power system of one-third of the cost of winter power losses at Minidoka dam.

4. Opposed Senate Bill S-3114 proposing to establish a Columbia River Development Corporation.

A few lingering construction difficulties at Palisades dam delayed the official announcement of completion of that project until October 1, 1958. Accordingly, the Palisades space contractors were not asked to make any payments in 1958 and no allotments of Palisades water were made that year. The Committee of Nine, at a meeting on March 2, 1958, authorized the United States to rent Palisades water at 30¢ per acre-foot to parties needing it in 1958. Under this authorization the Government rented 147,414 acre-feet of Palisades water which was of great help to the purchasers as otherwise they would have been seriously short of water during the latter part of the season. It is expected that Palisades reservoir will be in full operation on a normal basis in 1959.

The year of 1958 was one of moderate water shortage on Snake River, more noticeable by contrast with the abundant supply that has prevailed during recent years. The so-called "floodwater" rights were cut off on June 12, 1958, compared to July 8 in 1957 and it was necessary to draw heavily on the reservoirs, but even so there still remained 1,390,000 acre-feet in the reservoir system on September 30, 1958, or 34% of capacity.

All reservoir rights were filled to capacity except Palisades which stored 1,216,000 acre-feet under its priority right, of which

200,000 acre-feet was dead storage. Sufficient water could have been retained there during the preceding winter and early spring to have filled it to capacity but owing to work being done on the discharge tunnel the Chief Engineer of the Bureau of Reclamation ordered a conservatively high amount of vacant space be kept for flood control because the tunnel work curtailed the normal outlet capacity. The flood run-off was less than expected and it then proved impossible to fill the reservoir to capacity. About 810,000 acre-feet, in excess of Idaho Power Company rights, spilled to waste past Milner during the year ending September 30, 1958. The bulk of this occurred January thru April.

Flow passing Minidoka dam was curtailed for upstream storage from October 8 to December 13, but was maintained at 2,700 second-feet or more during the balance of the year.

The Committee of Nine, at a meeting on March 2, 1958, approved a list of proposed floodwater rights with a uniform priority of April 1, 1939, which is just ahead of the Palisades priority of July 28, 1939. These are mostly rights established by use and it is expected that they will be awarded by some kind of mutual agreement court decree.

At a subsequent meeting on July 2, 1958, the Committee approved continuation of its cooperative agreement with the U. S. Geological Survey for operation of the Idaho Falls office on a year to year basis and selected Henry C. Eagle as successor to Lynn Crandall to be in charge of the work. This arrangement was later approved by the Geological Survey and State Reclamation Engineer.

Mark Kulp, who had served as Idaho State Reclamation Engineer for over 15 years was killed in an automobile accident near King Hill early

in June 1958 and was succeeded July 1 by Geo. N. Carter under an appointment by Governor Robert E. Smylie.

The Burns Creek authorization bill was approved by the Senate but failed to get out of the House irrigation sub-committee as it did not come up for consideration until late in the session when it proved impossible to secure a quorum of the sub-committee present at a meeting for its consideration. H. T. Nelson and the Watermaster appeared as witnesses before the House sub-committee in support of the legislation while the Utah Power and Light Company appeared in opposition.

PERSONNEL

The persons engaged in water distribution during 1958 were as follows:

Lynn Crandall	Watermaster and Deputy Com. of Reclamation
H. C. Eagle	Hydraulic Engineer and Deputy Watermaster
O. P. Mortensen	Deputy Watermaster and Hydrographer at St. Anthony
Oleen Dummer	Hydrographer
A. H. Bush	Hydrographer
R. H. Seymour	Hydrographer and Deputy Watermaster, Milner Dam
Charlotte E. Wood	Clerk
C. Drue Cooper	Deputy Watermaster and Hydrographer, Teton Basin
Seth Hansen	Deputy Watermaster, Teton Basin
Joe Bohi	Deputy Watermaster, Lower Teton River
S. B. Garrett	Deputy Watermaster, Henrys Fork
Elmer Lenz	Deputy Watermaster, Upper Fall River
D. R. Anthony	Deputy Watermaster, Heise Division
J. M. Brown	Deputy Watermaster, Rigby Division
J. A. Balmforth	Deputy Watermaster, Idaho Falls Division
Carl J. Anderson	Deputy Watermaster, Blackfoot Division
David Peterson	Deputy Watermaster, Swan Valley Division
M. L. Tillery	Supt. Minidoka Project, Bureau of Reclamation
A. W. Heath and	
C. R. Finley	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

Gage Readers: Foster B. Randall, F. S. Cowley, D. R. Anthony, Mrs. Irvin Siepert, Darrell Washam, T. E. Culley, Oscar Green, B. J. Morton, L. A. Myngaard, C. R. Simmons, R. E. Wagner, John Telisak, LaMarr McCloy, A. K. Draper, Scott M. Butler.

SNOW SURVEYS

The results of snow surveys for the past ten years are shown in the following tabulations. The figures for earlier years are shown in previous annual reports of the District.

Depth in Inches (S = Snow, W = Water)

<u>Year</u>	<u>Jan. 1</u>		<u>Feb. 1</u>		<u>Mar. 1</u>		<u>April 1</u>	
	<u>S</u>	<u>W</u>	<u>S</u>	<u>W</u>	<u>S</u>	<u>W</u>	<u>S</u>	<u>W</u>
<u>Moran (Snake River)</u>								
1949							40	14.5
1950							45	13.1
1951	30	6.1	40	9.8	41	12.7	37	12.4
1952	34	7.4	39	10.4	45	12.8	44	14.4
1953	19	4.1	38	10.6	42	12.4	35	12.7
1954	19	4.6	37	10.4	42	13.0	46	14.5
1955	20	2.7	24	4.7	34	7.8	36	10.7
1956	35	9.6	50	14.0	54	16.6	47	18.5
1957	24	5.1	41	8.2	41	12.1	42	13.6
1958	31	6.4	43	8.7	40	11.5	35	11.5
Normal	23	4.6	32	8.0	37	10.5	34	11.8

<u>Moran Canyon (Snake River)</u>								
1949							65	23.9
1950							67	21.9
1951	-	-	53	15.8	64	21.8	68	25.7
1952	-	-	59	16.4	62	20.3	70	24.1
1953	-	-	57	16.7	73	22.8	61	24.2
1954	-	-	51	14.5	61	19.4	72	23.1
1955	-	-	31	7.3	50	12.6	54	17.3
1956	-	-	76	22.8	84	27.9	75	30.4
1957	-	-	63	14.9	65	20.1	70	24.6
1958	-	-	53	14.1	66	21.5	65	23.9
Normal	35	7.2	48	13.0	58	17.9	61	21.4

<u>Arizona Station (Snake River)</u>								
1949							60	22.1
1950							62	20.5
1951	27	6.3	47	11.9	51	16.2	48	16.3
1952	48	11.2	55	15.8	64	20.0	68	24.3
1953	25	5.4	50	13.8	62	18.7	51	19.8
1954	23	5.7	46	12.9	57	17.5	65	20.9
1955	20	3.5	29	7.3	51	12.5	52	17.1
1956	48	14.2	69	21.8	74	26.1	68	27.8
1957	29	7.3	53	12.3	62	18.8	63	22.1
1958	37	8.4	39	10.1	50	14.8	50	17.2
Normal	32	6.7	43	11.5	52	15.7	52	18.0

Depth in Inches (S = Snow, W = Water)

Year	Jan. 1		Feb. 1		Mar. 1		April 1	
	S	W	S	W	S	W	S	W
<u>Huckleberry Divide (Snake River)</u>								
1949							70	24.7
1950							77	24.0
1951	30	7.1	50	13.0	58	17.2	58	20.2
1952	48	11.0	59	16.7	65	21.0	73	24.8
1953	27	6.2	52	15.1	65	19.5	53	20.0
1954	26	6.5	48	12.6	55	17.0	69	21.0
1955	23	4.0	34	8.5	54	13.2	56	17.9
1956	55	15.4	73	22.9	77	26.2	69	28.0
1957	31	7.9	52	12.9	64	18.1	63	21.2
1958	40	9.5	43	11.6	55	17.1	55	18.8
Normal	35	7.5	46	12.6	57	17.0	61	19.8

<u>Snake River Station (Snake River)</u>								
1949							77	26.8
1950							74	23.5
1951	32	7.7	54	14.3	63	19.5	63	23.2
1952	50	11.9	60	16.4	65	20.3	75	24.7
1953	30	5.9	52	14.7	66	20.0	54	21.1
1954	29	7.0	51	14.4	60	18.9	77	24.1
1955	25	4.6	34	8.9	55	13.8	59	19.3
1956	53	15.0	77	23.9	80	28.2	72	30.0
1957	32	8.8	58	14.3	67	20.7	69	24.4
1958	42	10.3	45	12.3	58	18.1	56	20.1
Normal	35	7.5	48	12.8	58	17.5	61	20.4

<u>Lewis Lake Divide (Snake River)</u>								
1949							130	52.1
1950							143	53.0
1951	70	21.2	99	32.3	116	42.2	117	50.4
1952	88	25.2	112	36.2	122	45.8	129	52.8
1953	53	12.1	103	31.2	110	39.8	106	45.1
1954	53	14.9	106	31.9	116	41.2	143	52.3
1955	41	9.7	53	16.6	97	26.9	106	38.7
1956	105	35.8	139	50.5	164	61.3	143	65.8
1957	53	17.6	88	27.3	119	41.1	123	48.0
1958	74	20.4	72	23.6	101	34.1	99	38.0
Normal	63	16.1	83	26.9	104	35.9	113	43.8

<u>Aster Creek (Snake River)</u>								
1949							109	41.5
1950							116	43.6
1951	-	-	76	24.5	94	31.9	97	39.9
1952	74	19.4	97	29.9	99	34.5	102	41.3
1953	41	9.1	84	24.5	85	30.7	80	33.0
1954	35	9.3	81	23.4	90	31.0	112	38.0
1955	31	6.4	40	10.7	82	20.1	92	30.6
1956	85	27.3	106	36.8	125	44.5	113	48.7
1957	40	12.3	69	19.0	97	29.9	96	35.3
1958	59	14.8	53	16.4	69	21.8	70	24.8
Normal	47	11.5	63	19.2	77	26.0	85	32.1

Depth in Inches (S = Snow, W = Water)

Year	Jan. 1		Feb. 1		Mar. 1		April 1	
	S	W	S	W	S	W	S	W
<u>Colter Creek (Snake River)</u>								
1949							-	-
1950							75	27.3
1951	38	8.6	56	16.0	67	21.8	70	25.6
1952	58	14.0	63	18.2	66	23.8	80	26.3
1953	30	5.9	60	17.5	65	22.0	60	23.9
1954	36	9.0	59	16.8	73	25.2	83	28.5
1955	24	4.8	37	10.1	64	12.4	64	20.7
1956	61	17.2	85	24.0	94	28.0	80	33.1
1957	39	10.4	59	15.7	76	25.4	81	29.0
1958	-	-	46	13.0	64	18.9	57	20.8
Normal	39	8.4	52	14.3	64	19.3	64	22.9

Glade Creek (Snake River)

1949							80	29.0
1950							74	25.3
1951	40	9.4	51	15.1	68	21.1	68	24.8
1952	52	12.8	65	18.1	71	23.5	84	28.2
1953	34	6.8	56	16.8	61	20.6	61	22.4
1954	30	7.3	54	15.2	62	19.9	75	24.8
1955	26	4.9	36	9.3	60	14.9	64	20.3
1956	55	15.8	80	25.8	89	29.9	80	33.1
1957	33	9.5	59	14.9	72	22.1	74	26.4
1958	43	11.1	49	14.1	60	19.5	60	21.8
Normal	40	8.9	53	15.0	65	19.8	67	23.6

Year	Feb. 1-6		Mar. 1		Mar. 23-29	
	S	W	S	W	S	W
<u>Turpin Meadows (Buffalo River)</u>						
1949	36	9.2	-	-	37	12.3
1950	32	7.1	-	-	51	13.0
1951	36	8.6	44	12.4	44	13.4
1952	34	8.5	40	10.2	48	13.5
1953	34	8.4	36	11.1	48	13.5
1954	32	7.9	39	10.8	46	12.6
1955	21	3.9	28	6.1	32	7.9
1956	44	12.0	54	14.1	42	14.9
1957	39	8.3	39	10.1	41	11.0
1958	34	6.8	37	10.1	35	10.0
Normal	30	6.9	34	8.6	38	10.8

Four Mile Meadows (Buffalo River)

1949	40	10.0	-	-	50	15.1
1950	46	11.1	-	-	63	16.8
1951	41	10.3	49	14.5	52	16.4
1952	42	10.4	50	13.4	59	15.9
1953	36	8.8	38	11.2	40	12.5
1954	37	9.6	42	11.4	52	14.6
1955	26	5.3	34	7.0	42	10.6
1956	49	13.4	59	16.9	53	18.4
1957	39	8.4	44	10.4	48	13.1
1958	36	7.5	39	10.1	43	12.6
Normal	35	8.3	41	10.7	46	13.4

Year	Feb. 1-6		Mar. 1		Mar. 23-29	
	S	W	S	W	S	W
<u>Black Rock (Buffalo River)</u>						
1949	52	15.7	-	-	72	23.6
1950	67	18.4	-	-	89	28.9
1951	64	18.5	72	25.8	79	30.2
1952	58	16.0	65	19.8	78	24.7
1953	53	14.2	53	18.1	56	20.2
1954	55	15.7	64	19.3	76	24.4
1955	36	7.8	54	12.5	61	18.2
1956	69	21.9	85	27.5	78	31.9
1957	53	12.6	57	16.1	65	20.5
1958	52	11.8	59	16.3	60	19.5
Normal	47	12.6	56	17.0	67	22.3

<u>Twogwotee Pass (Buffalo River)</u>						
1949	64	20.9	-	-	90	32.1
1950	88	26.4	92	31.7	116	38.4
1951	79	23.9	92	32.4	100	39.9
1952	72	20.8	78	25.9	94	32.2
1953	67	18.7	69	24.4	71	27.3
1954	70	21.1	84	26.3	103	34.7
1955	47	11.6	75	19.4	83	27.7
1956	86	29.4	108	36.2	99	41.5
1957	67	16.9	73	22.6	81	27.9
1958	64	15.1	70	21.5	73	26.2
Normal	62	18.7	73	23.1	82	29.4

Year	Jan. 1		Feb. 1		Mar. 1		April 1	
	S	W	S	W	S	W	S	W
<u>Valley View Ranch (Henrys Fork)</u>								
1949	33	8.0	42	10.7	60	17.3	56	18.8
1950	32	6.2	45	12.0	52	15.3	62	19.5
1951	17	3.4	31	7.4	45	10.3	48	14.9
1952	49	11.6	67	19.5	70	23.8	81	30.0
1953	31	5.4	38	9.7	46	12.9	44	15.6
1954	19	2.4	46	8.2	45	12.4	47	15.4
1955	12	1.2	32	5.7	43	8.3	44	13.3
1956	40	9.7	54	13.9	57	17.1	46	15.9
1957	30	6.7	44	10.5	51	13.6	59	18.1
1958	28	5.2	31	6.5	38	9.2	42	12.5
Normal	26	5.1	40	9.7	48	13.0	49	15.4

<u>Big Springs (Henrys Fork)</u>								
1949	43	11.3	53	15.1	77	26.4	75	27.8
1950	37	7.1	55	14.9	65	20.4	74	25.9
1951	27	6.1	45	13.0	68	18.8	62	22.4
1952	57	12.5	79	24.0	86	31.0	91	34.7
1953	39	7.0	52	14.5	60	18.9	55	21.7
1954	32	6.1	59	14.1	62	20.8	64	24.7
1955	22	3.3	39	9.1	62	16.1	61	21.9
1956	44	11.8	70	20.5	80	23.8	58	22.7
1957	37	9.5	58	14.5	63	22.0	71	26.6
1958	43	9.2	42	10.9	49	14.4	53	18.0
Normal	34	7.3	50	13.1	61	18.7	61	21.7

Depth in Inches (S = Snow, W = Water)

Year	Jan. 1		Feb. 1		Mar. 1		April 1	
	S	W	S	W	S	W	S	W
<u>Island Park (Henrys Fork)</u>								
1949	37	8.4	43	11.6	66	21.8	66	22.5
1950	31	5.9	49	12.8	52	17.3	65	21.6
1951	20	4.0	35	9.1	57	12.9	53	17.6
1952	52	11.1	68	19.7	75	26.4	82	30.6
1953	34	6.2	44	11.1	50	15.1	41	16.2
1954	26	4.5	48	12.4	51	15.5	50	16.8
1955	16	2.4	34	7.8	60	12.4	52	16.2
1956	36	9.0	58	17.8	64	19.8	48	17.0
1957	31	7.2	48	10.4	52	15.4	58	19.4
1958	37	7.1	41	9.7	42	11.8	44	14.4
Normal	29	5.7	43	10.4	52	14.7	50	16.4

<u>Grassy Lake (Fall River)</u>								
1949	71	20.7	70	25.0	102	37.2	112	44.3
1950	44	11.2	68	19.8	89	29.0	101	37.7
1951	64	16.0	72	22.6	96	32.0	91	36.0
1952	73	19.3	90	28.0	103	35.5	121	45.6
1953	50	11.1	79	25.6	87	32.2	84	35.8
1954	48	11.5	75	22.4	82	29.2	100	35.6
1955	56	11.8	59	16.4	93	25.2	91	34.9
1956	72	22.4	107	36.8	122	42.6	103	46.0
1957	49	15.5	92	24.0	100	35.8	103	40.5
1958	58	15.0	71	21.1	81	28.0	83	32.3
Normal	56	15.0	73	22.8	88	30.5	90	35.1

<u>Teton Pass (Teton River)</u>								
1949	70	22.9	78	28.1	106	42.4	128	49.9
1950	43	13.5	76	23.7	101	33.1	130	43.6
1951	44	12.9	92	29.1	96	34.9	100	40.4
1952	80	21.0	92	31.2	104	38.9	122	45.9
1953	44	11.6	78	24.9	83	30.2	91	36.9
1954	48	11.9	79	20.7	82	28.6	111	37.4
1955	32	7.9	52	15.6	80	18.8	91	34.0
1956	86	26.5	113	35.6	121	42.4	116	51.2
1957	45	13.8	64	19.4	91	28.4	98	35.1
1958	76	16.1	86	22.4	97	30.1	101	37.4
Normal	53	14.7	74	22.9	91	30.9	103	38.2

<u>State Line (Teton River)</u>								
1949	38	10.3	44	12.8	55	19.4	60	21.7
1950	17	4.6	36	9.2	43	12.2	59	18.3
1951	22	4.9	51	13.2	48	14.4	49	17.3
1952	42	9.7	49	14.6	56	18.3	60	20.0
1953	24	5.3	42	11.1	45	14.2	42	16.1
1954	26	4.6	43	7.9	42	13.0	61	18.9
1955	17	2.0	25	5.6	40	8.4	43	12.4
1956	33	9.6	51	13.6	58	17.9	49	18.9
1957	29	6.2	40	9.3	46	12.9	49	16.6
1958	45	7.9	54	11.6	48	14.4	46	15.8
Normal	27	5.9	40	9.9	46	13.5	47	16.1

Depth in Inches (S = Snow, W = Water)

Year	Jan. 1		Feb. 1		Mar. 1		April 1	
	S	W	S	W	S	W	S	W
<u>East Rim (Hoback River)</u>								
1949	-	-	-	-	41	11.4	42	12.5
1950	-	-	-	-	46	15.8	54	17.4
1951	-	-	-	-	55	14.7	49	17.1
1952	-	-	-	-	38	12.0	43	15.3
1953	-	-	-	-	34	11.4	33	10.4
1954	-	-	-	-	36	8.9	47	13.4
1955	9	1.2	17	3.5	26	6.1	33	9.1
1956	32	7.8	45	10.7	46	12.8	51	15.9
1957	21	5.2	28	6.7	33	9.3	36	11.1
1958	28	5.9	27	6.5	33	8.9	36	9.9
Normal	20	4.2	29	6.9	36	10.1	40	12.0

<u>Bryan Flat (Hoback River)</u>								
1949	30	6.9	38	9.3	46	14.5	46	15.9
1950	13	2.0	28	7.9	31	9.9	33	11.4
1951	26	4.4	34	7.7	43	10.0	42	14.8
1952	36	7.3	36	10.4	43	13.4	45	16.3
1953	17	3.5	25	8.0	27	9.6	29	12.5
1954	12	2.4	31	7.7	35	9.4	44	14.5
1955	9	1.1	15	3.0	29	5.0	30	8.1
1956	24	6.5	39	8.1	41	11.1	35	11.5
1957	21	4.5	28	5.8	27	8.3	31	9.2
1958	32	6.5	32	7.6	35	8.9	33	10.3
Normal	20	4.0	28	6.6	34	9.2	33	10.8

<u>Yellowjacket Flat (Gros Ventre River)</u>								
1949	-	-	27	4.8	30	6.9	30	8.2
1950	-	-	-	-	25	6.0	26	8.3
1951	-	-	35	7.3	38	8.0	38	9.8
1952	-	-	-	-	27	5.6	30	7.1
1953	-	-	20	4.6	23	5.4	16	3.2
1954	-	-	-	-	28	6.5	31	7.9
1955	-	-	-	-	19	3.5	22	4.9
1956	-	-	32	7.3	39	9.2	29	9.4
1957	-	-	-	-	21	4.5	24	6.1
1958	-	-	24	3.0	27	4.7	27	7.7
Normal	11	1.9	22	4.2	27	5.8	27	6.8

<u>Grover Park Divide (Salt River)</u>								
1949	29	6.8	35	8.9	42	12.6	42	13.4
1950	18	3.9	36	9.8	40	12.2	51	16.6
1951	14	3.8	39	8.2	35	10.1	36	12.5
1952	35	7.6	39	10.7	46	14.0	53	15.9
1953	18	3.7	36	8.8	32	10.2	31	10.6
1954	18	3.9	25	6.6	29	7.9	46	13.4
1955	12	2.0	21	4.9	30	6.9	33	9.3
1956	27	7.1	38	9.8	50	13.1	53	12.1
1957	24	5.4	34	7.5	33	9.9	42	13.6
1958	26	6.0	41	8.4	45	13.0	43	14.9
Normal	22	4.6	32	7.6	36	10.2	39	11.8

inches (S = Snow, W = Water)

Year	Jan. 1		Feb. 1		Mar. 1		Apr. 1
	S	W	S	W	S	W	
<u>CCC Camp FF12 (Salt River)</u>							
1949	27	6.4					
1950	16	3.4	34	8.5	42	12.0	38
1951	19	4.4	45	11.3	41	12.8	47
1952	35	7.8	33	8.0	39	10.9	42
1953	16	3.4	40	11.2	45	13.5	49
1954	21	4.7	36	8.8	31	9.4	31
1955	18	3.0	30	7.9	32	9.5	46
1956	27	7.2	24	5.0	40	7.6	40
1957	29	6.5	46	10.5	51	13.2	39
1958	26	6.0	33	7.8	40	11.4	46
Normal	22	4.7	37	7.9	35	10.7	37
			32	7.7	37	10.2	38
<u>Salt River Summit (Salt River)</u>							
1949							

<u>Salt River Summit (Salt River)</u>							
1949	34	8.3					
1950	24	5.5	42	11.1	54	16.0	50
1951	26	6.4	59	14.0	53	17.1	62
1952	39	8.2	44	11.3	50	15.1	52
1953	21	4.5	45	13.1	54	15.9	59
1954	25	5.7	42	10.8	38	12.2	37
1955	21	3.1	39	10.5	39	11.8	58
1956	37	10.1	25	5.2	45	7.9	44
1957	36	7.3	59	14.8	66	18.2	50
1958	35	7.8	39	10.0	50	14.6	54
Normal	30	6.7	44	9.9	51	16.1	49
			44	11.1	49	14.6	51

<u>Greys Boundary (Greys River)</u>							
1949	33	8.1					
1950	21	3.1	39	10.7	51	16.6	39
1951	24	5.5	28	6.1	32	9.3	40
1952	42	8.1	39	7.8	35	10.6	37
1953	23	4.9	43	13.2	48	16.1	49
1954	18	3.9	33	9.9	37	10.6	24
1955	20	1.9	30	9.1	33	10.2	40
1956	19	4.5	24	5.5	38	7.9	35
1957	22	4.2	38	7.8	44	11.5	30
1958	36	6.9	30	6.3	28	8.5	32
Normal	23	4.8	45	10.2	41	13.5	35
			32	7.6	36	10.7	32

On April 1, 1958 the snow (water content) was the following average percent of normal: above Jackson Lake 94%, Moran to Heise 99%, Island Park 84%, Fall River 92%, Teton River 98%.

Comparable figures for run-off during the year ending September 30, 1958 as percent of normal were: Snake River at Moran 97%,

Depth in Inches (S = Snow, W = Water)

Year	Jan. 1		Feb. 1		Mar. 1		April 1	
	S	W	S	W	S	W	S	W
<u>CCC Camp FF12 (Salt River)</u>								
1949	27	6.4	34	8.5	42	12.0	38	12.5
1950	16	3.4	45	11.3	41	12.8	47	16.1
1951	19	4.4	33	8.0	39	10.9	42	13.7
1952	35	7.8	40	11.2	45	13.5	49	16.0
1953	16	3.4	36	8.8	31	9.4	31	10.9
1954	21	4.7	30	7.9	32	9.5	46	12.9
1955	18	3.0	24	5.0	40	7.6	40	10.8
1956	27	7.2	46	10.5	51	13.2	39	12.1
1957	29	6.5	33	7.8	40	11.4	46	15.8
1958	26	6.0	37	7.9	35	10.7	37	12.4
Normal	22	4.7	32	7.7	37	10.2	38	12.0

<u>Salt River Summit (Salt River)</u>								
1949	34	8.3	42	11.1	54	16.0	50	17.3
1950	24	5.5	59	14.0	53	17.1	62	22.3
1951	26	6.4	44	11.3	50	15.1	52	18.1
1952	39	8.2	45	13.1	54	15.9	59	19.5
1953	21	4.5	42	10.8	38	12.2	37	13.0
1954	25	5.7	39	10.5	39	11.8	58	16.3
1955	21	3.1	25	5.2	45	7.9	44	12.1
1956	37	10.1	59	14.8	66	18.2	50	18.5
1957	36	7.3	39	10.0	50	14.6	54	18.6
1958	35	7.8	44	9.9	51	16.1	49	16.1
Normal	30	6.7	44	11.1	49	14.6	51	16.7

<u>Greys Boundary (Greys River)</u>								
1949	33	8.1	39	10.7	51	16.6	39	16.5
1950	21	3.1	28	6.1	32	9.3	40	13.9
1951	24	5.5	39	7.8	35	10.6	37	13.2
1952	42	8.1	43	13.2	48	16.1	49	16.9
1953	23	4.9	33	9.9	37	10.6	24	9.3
1954	18	3.9	30	9.1	33	10.2	40	12.1
1955	20	1.9	24	5.5	38	7.9	35	11.1
1956	19	4.5	38	7.8	44	11.5	30	10.8
1957	22	4.2	30	6.3	28	8.5	32	12.4
1958	36	6.9	45	10.2	41	13.5	35	12.2
Normal	23	4.8	32	7.6	36	10.7	32	11.4

On April 1, 1958 the snow (water content) was the following
average percent of normal: above Jackson Lake 94%, Moran to Heise 99%,
Island Park 84%, Fall River 92%, Teton River 98%.

Comparable figures for run-off during the year ending September
30, 1958 as percent of normal were: Snake River at Moran 97%,

Snake River at Heise 87%, Henrys Fork near Ashton 101%, Fall River near Squirrel 92%, Teton River near St. Anthony, 95%.

May precipitation was far below normal everywhere and in the Moran-Heise area was less than one-fourth of normal. It has been observed for years on Snake River that May precipitation has an important bearing on subsequent run-off as that is the snow melting month and most of the precipitation appears as run-off. June to September precipitation was also well below normal in 1958. The shortage of water in the 1958 irrigation season was considerably greater than would be indicated by the above run-off figures during the year ending September 30, 1958. The run-off for that year includes six months from October thru March when the run-off was well above normal due to high groundwater levels on September 30, 1957, and six months from April thru September 1958 of well below normal run-off.

1958 REGULATION SCHEDULE

June 12	Cut off 1915 priority rights
" 20	Cut off 1913 rights
" 22	Cut off 1908 rights
" 23	Filled 60% October 7, 1905
" 25	Filled 30% October 7, 1905
" 26	Filled 80% March 26, 1903 right
" 27	Filled 60% March 26, 1903 right
" 28	Filled 30% March 26, 1903 right on Snake and Teton Rivers
" 28	Cut off 1898 rights on Henrys Fork
" 30	Filled 10% March 26, 1903 right
July 1	Cut off rights later than October 11, 1900 above American Falls
" 2	Cut off all 1897 rights above Blackfoot
" 3	Cut off November 5, 1895 rights
" 4	Cut off March 22, 1895 rights
" 5	Filled 70% February 6, 1895 right
" 6	Filled 20% February 6, 1895 right
" 7	Cut off all 1895 rights
" 10	Filled 75% August 18, 1894 right
" 12	Cut off August 18, 1894 right
" 15	Cut off June 1, 1892 rights
" 16	Cut off rights later than 1889 on Teton River

Regulation schedule - continued

July 16	Filled 50% December 14, 1891 right on Snake River and Henrys Fork
" 17	Cut off December 14, 1891 right
" 19	Cut off June 1, 1891 rights
" 22	Filled 75% January 24, 1891 right
" 23	Filled 25% January 24, 1891 right
" 26	Filled 50% January 24, 1891 right
Aug. 1	Filled 75% January 24, 1891 right
" 4	Filled 50% June 1, 1891 right
" 8	Filled 75% January 24, 1891 right
" 9	Filled 60% of June 1, 1885 rights on Teton River
" 9	Filled 50% of January 24, 1891 right on Snake River and Henrys Fork
" 14	Filled 25% January 24, 1891 right
" 15	<u>Cut off all 1891 rights</u>
" 16	Filled 70% June 1, 1885 rights on Teton River
" 16	Filled 50% October 16, 1890 rights on Snake River and Henrys Fork
" 17	Cut off October 16, 1890 rights
" 21	Filled 50% July 12, 1890 right
" 31	Cut off July 12, 1890 right
Sept. 1	Cut off June 10, 1890 right
" 3	<u>Cut off all 1890 rights</u>
" 5	Cut off 1885 rights on Teton River
" 9	Filled 50% July 10, 1889 rights
" 12	Restored June 1, 1890 rights
" 13	Restored July 12, 1890 rights
" 14	Restored all 1890 rights
" 15	Filled 50% December 14, 1891 rights
" 16	Filled 50% August 18, 1894 rights
" 17	Filled March 22, 1895 rights
" 19	Cut off March 22, 1895 right
" 20	Filled 50% February 6, 1895 right
" 23	Filled 30% February 6, 1895 right
" 26	Filled 50% February 6, 1895 right
" 27	Discontinued upper valley regulation.

Storage use charges started May 23 on the Michaud and Minidoka North Side Pump projects. These projects have no presently established natural flow rights and their diversions were charged as stored water beginning on the date that American Falls reservoir dropped below capacity. Storage diversions at Milner started June 9 and storage use in the upper valley started June 12 when the 1916 priority rights were cut. There was some inter-exchange of storage in Jackson Lake, Palisades and American Falls reservoirs

which is discussed later on in this report under storage allotments.

Storage releases from Island Park reservoir started June 20, from Henrys Lake July 5, and from Grassy Lake July 14.

WATER SUPPLY

Run-off at various gaging stations during the year ending September 30, 1958 was as follows:

<u>Station</u>	<u>1958 Run-off (acre-feet)</u>	<u>Average run-off past years (acre-feet)</u>	<u>Years of Record</u>	<u>1958 % of Average</u>
Snake River at Moran	1,023,000	1,051,000	54	97
Snake River near Heise	4,343,000	4,990,000	48	87
Snake River at Neeley	4,615,000	4,950,000	32	93
Fall River near Squirrel	505,000	548,000	44	92
Teton River near St. Anthony	520,700	546,000	25	95
Henrys Fork near Ashton	1,000,000	987,000	38	101
Henrys Fork near Rexburg	1,276,000	1,391,000	49	92

The run-off at Moran has been corrected for Jackson Lake holdovers; at Heise for Jackson Lake and Palisades holdovers; at Neeley for Palisades and American Falls holdovers; at Squirrel for Grassy Lake holdovers; at Ashton for Island Park and Henrys Lake holdovers; at Rexburg for Grassy Lake, Island Park and Henrys Lake holdovers; and at St. Anthony for Cross Cut Canal discharge into Teton River.

The run-off, slightly above normal, at the Ashton station was likely due to groundwater storage from 1957 appearing as stream flow in 1958. A large proportion of each year's precipitation sinks into the ground on the Henrys Fork drainage area above Ashton and only gradually drains to the river later on.

The run-off at all stations was above normal during the fall and winter months following high ground water levels at the close of the 1957 season. During the summer and fall of 1958 the run-off was a considerably less percent of past averages than indicated by the

above annual totals. This resulted in depleted natural flow during the 1958 irrigation season which had to be made up by heavy storage draft.

Peak daily discharges were as follows:

Snake River at Moran	4,380 second-feet on May 22
Snake River near Heise	18,800 second-feet on May 29
Snake River near Blackfoot	12,700 second-feet on May 13
Henrys Fork near Rexburg	5,180 second-feet on May 27
Teton River near St. Anthony	3,580 second-feet on May 24
Blackfoot River near Blackfoot	1,010 second-feet on May 1
Snake River at Milner	6,320 second-feet on April 8

None of these discharges resulted in any substantial floodwater damage. On Blackfoot River the peak flow was due to spilling water from Blackfoot Reservoir and only lasted a day or two.

Annual reservoir holdovers on September 30 during the past ten years are shown in the following tabulation:

Holdovers on September 30 in thousands of acre-feet

<u>Year</u>	<u>Jackson Lake</u>	<u>Pali-sades</u>	<u>American Falls</u>	<u>Lake Walcott</u>	<u>Henrys Lake</u>	<u>Island Park</u>	<u>Grassy Lake</u>	<u>Total Total</u>
1949	273.1		535.0	95.3	52.1	29.1	11.9	996.5
1950	570.4		925.6	93.2	69.1	87.7	12.2	1,758.2
1951	622.7		1,021.3	94.0	71.4	86.2	12.1	1,907.7
1952	281.7		583.0	91.9	62.7	62.5	12.2	1,094.0
1953	232.4		488.0	91.2	65.0	34.0	11.3	921.9
1954	316.6		627.0	89.1	67.7	45.4	11.6	1,157.4
1955	192.8		264.0	93.6	50.4	27.1	11.2	639.1
1956	369.7		623.0	94.5	68.9	80.0	13.1	1,249.2
1957	615.8	422.7	293.0	92.2	68.8	50.1	11.9	1,554.5
1958	497.3	535.0	256.0	21.3	54.7	17.2	9.3	1,390.8
Av.	397.2	95.8	561.1	85.6	63.1	51.9	11.7	1,266.4

Palisades figures are after deducting 200,000 acre-feet dead storage.

The capacity of the above reservoirs is 4,072,000 acre-feet, excluding 200,000 acre-feet dead storage in Palisades.

TRANSFERS AND CHANGES IN POINT OF DIVERSION

Certificate of Transfer No. 911:

George W. Nedrow: 1.2 second-feet June 1, 1890 priority of waters of Fall River, previously diverted thru the Silkey Ditch and now transferred to diversion from Henrys Fork thru a movable sprinkler system whose pumps shall have a capacity not exceeding 1.2 second-feet.

Certificate of Transfer No. 912:

Oscar J. Nord: 0.2 second-feet June 1, 1890 priority of waters of Snake River, diverted therefrom by the Kite and Nord ditch. Point of diversion remains unchanged but water is to be moved to a nearby tract of land from that to which it was formerly appurtenant.

Change in Point of Diversion. Order No. 244:

Della C. Moore: owner of Water License 2914, for 0.8 second-feet July 5, 1907 priority of the waters of Spring Creek near Menan, changes from gravity ditch diversion to pumping from an unnamed slough.

LITIGATION

None.

COMMUNITY LATERAL MANAGERS

The following appointments were made for the 1958 season:

A. M. Hatch, Augustine lateral from the Danskin Canal.

Kenneth Bradley, Desert Ditch from South Leigh Creek.

CANAL DELIVERIES

Daily diversions from Snake River by canals above American Falls reservoir during the 1958 irrigation season are shown on Plates 6-10. Daily diversions thruout the year for canals below American Falls are shown on Plates 58 to 69. Miscellaneous measurements of various canals and streams in the headwater areas are shown on Plate 24.

Total diversions during the 1958 irrigation season by all canals in the District, including headwater areas, as tabulated in the annual

watermaster bill, amounted to 7,870,000 acre-feet or about 2.5% more than in 1957.

Diversions during 1958 irrigation season by Snake River
Canals (downstream order from Heise)

(May to Sept. incl. for upper valley canals, April 15 to Sept. 30
for lower valley canals)

Canal	Diversions (acre-feet)	Acres Irrigated	Acre-feet per acre
Riley	4,800	870	5.5
Progressive Irr. Dist.	236,000 (a)	31,923	7.4
Farmers Friend	97,400	11,000	8.8
Enterprise Canal	41,800	5,000	8.4
Nelson	400	62	6.4
Mattson & Arnsberger	3,840	500	7.7
Ross & Rand	250	30	8.3
Butler Island	12,200	1,200	10.2
Steele	1,750	220	7.9
Harrison	123,000	13,000	9.5
Cheney	1,450	180	8.0
Rudy Irr. Co.	52,500	5,000	10.5
Kite & Nord	1,430	200	7.1
Burgess	222,000	22,000	10.1
Clark & Edwards	21,800	1,800	12.1
Lowder	10,100	1,000	10.1
East Labelle	32,800	2,700	12.1
Sunnydell	35,600	3,800	9.4
Lenroot	37,800	4,000	9.5
Reid	47,900	5,500	8.7
Texas Feeder	68,000	9,200	7.4
Nelson Corey	1,780	400	4.4
Hill Pettinger	1,100	200	5.5
Rigby	45,000	4,000	11.2
Dilts	5,870	600	9.8
Island	38,900	3,800	10.2
W. Labelle-Long Island	129,000	11,500	11.2
Parks & Lewisville	92,000	7,500	12.3
North Rigby	13,900	1,400	9.9
White	920	100	9.2
Ellis	1,040	100	10.4
Bramwell	1,160	240	4.8
Butte & Market Lake	87,300	20,000	4.4
Osgood	32,000	6,500	4.9
Bear Island & Smith	830	240	3.5
Idaho	276,000 (a)	35,926	7.7
Kennedy	11,600	2,700	4.3
Great Western & Porter	214,000	31,500	6.8
Coy & Kellar	410	70	5.8
Woodville	25,300	3,000	8.4
Snake River Valley	160,000 (a)	21,386	7.5
Reservation	71,700 (b)	32,000	2.2

Canal	Diversions (acre-feet)	Acres Irrigated	Acre-feet per acre
Blackfoot	93,900	15,000	6.3
New Lava Side	41,000	6,200	6.6
Peoples	133,000	16,000	8.3
Aberdeen	338,000	63,000	5.4
Corbett	46,300	6,500	7.1
Nielsen-Hansen	2,960	400	7.4
Riverside	35,600	4,000	8.9
Danskin	55,500	6,000	9.2
Trego	18,600	1,800	10.3
Wearyrick	16,600	1,600	10.4
Watson	31,200	3,000	10.4
Parsons	9,200	900	10.2
Michaud (B. of R.)	8,840	1,676	5.3
Minidoka Irr. Dist.	493,460	70,250	7.0
Burley Irrigation District	295,600	44,558	6.6
Minidoka North Side Pump	58,400	13,619	4.3
Twin Falls Canal Co.	1,054,000	202,667	5.2
North Side Canal Co.	1,116,000	159,500	7.0
Milner Low Lift	64,100	12,335	5.2
Gooding	462,000	61,313	7.5
Total	6,636,890	992,665	6.7

(a) Received additional water from Willow and Sand Creeks

(b) Received additional water from Sand Creek and Blackfoot R.

These main river canals diverted about 3.5% more water than in 1957. Their diversions would have been still greater except for the short water year which restricted the usual upper valley flood water diversions and caused some of them, who ran out of storage late in the season, to reduce their normal use after early August.

The Michaud Canal diverted water for the first time in 1958.

Of the 3,543,560 acre-feet diverted by lower valley canals (below Neeley) 1,669,000 acre-feet or 47% was stored water. Upper valley main river canals diverted 3,093,300 acre-feet of which 584,400 acre-feet or 19% was stored water.

The following tabulation shows the monthly diversions in various sections of the District during the past ten 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>
1949	459	646	766	622	466	2959
1950	417	550	746	699	426	2833
1951	386	700	804	540	491	2921
1952	443	637	782	669	520	3051
1953	399	573	811	669	522	2974
1954	597	656	789	676	534	3252
1955	337	645	770	646	468	2866
1956	544	748	841	680	543	3356
1957	172	665	854	727	551	2969
1958	509	733	811	597	435	3085
Average	426	655	797	652	496	3026

Henrys Fork and Tributaries
(excluding headwater areas)

1949	201	218	216	174	116	925
1950	181	225	240	205	103	954
1951	160	246	237	136	92	871
1952	210	225	223	181	118	957
1953	180	227	233	189	138	967
1954	224	236	225	185	133	1003
1955	153	249	229	177	128	936
1956	202	259	239	187	128	1015
1957	152	248	262	212	134	1008
1958	209	247	231	177	114	978
Average	187	238	234	182	120	961

Figures are after deduction for water spilled from Cross Cut Canal into Teton River.

Minidoka Project

<u>Year</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
1949	53	139	144	175	153	96	760
1950	34	150	136	184	161	97	762
1951	67	119	154	180	142	111	773
1952	20	164	149	181	171	108	793
1953	37	128	108	189	168	103	733
1954	51	161	116	174	168	107	777
1955	14	142	142	176	157	107	738
1956	70	149	148	183	159	91	800
1957	25	117	155	185	162	109	753
1958	22	174	149	181	167	96	789
Average	39	144	140	181	161	102	767

North Side Canal Co. Project

<u>Year</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Season</u>
1949	65	215	204	231	232	142	1089
1950	73	195	206	233	225	171	1103
1951	84	179	213	234	221	170	1101
1952	42	202	225	234	232	174	1109
1953	76	195	190	239	233	176	1109
1954	88	217	196	230	228	177	1136
1955	33	187	227	233	233	183	1096
1956	83	208	211	236	225	169	1132
1957	58	194	213	240	232	176	1113
1958	61	208	214	243	230	168	1124
Average	66	200	210	235	229	171	1111

Twin Falls Project

1949	86	211	193	219	217	145	1071
1950	68	194	201	222	219	164	1068
1951	86	189	200	222	211	168	1076
1952	59	215	212	227	230	173	1116
1953	104	204	184	227	224	167	1110
1954	108	218	187	219	221	164	1117
1955	40	187	203	220	225	170	1045
1956	104	207	198	225	213	154	1101
1957	61	192	196	225	218	157	1049
1958	85	209	196	225	215	144	1074
Average	80	203	197	223	219	161	1083

Gooding Project

1949	25	76	84	93	84	65	427
1950	21	79	89	96	90	73	448
1951	23	73	93	97	91	73	450
1952	0	65	84	92	95	72	408
1953	33	80	79	98	94	74	458
1954	32	88	86	95	94	81	476
1955	14	80	94	97	96	79	460
1956	22	83	85	99	90	72	451
1957	11	74	88	99	91	75	438
1958	23	78	91	99	94	76	461
Average	20	78	87	96	92	74	447

Weather conditions resulted in a heavy demand for water thruout the season, a few occasional showers not being heavy enough to greatly reduce the irrigation demand. There was some curtailment of use in the upper valley during August and September when a number of canals reduced their usual demand on account of running out of storage and

rather than spend too much money to rent storage they got along on the least amount they could and still mature their crops. Other canals that had an ample storage supply continued to divert their usual amounts.

The ground water rose to unusual levels late in the season in the area from Rigby westward to Snake River, appearing in some basements and potato cellars. The canals in the immediate vicinity reduced their diversions and some even shut dry for a few days at a time late in August and during September, which had a beneficial effect on the situation, causing a drop in the water table.

The canals having Palisades contracts started fulfilling their obligations for winter water savings, mostly on November 15, 1958. This should result in a greater drop than usual in the groundwater levels in the area from Rigby west before the beginning of the 1959 irrigation season.

RIVER DATA

The usual methods of segregating stored water and normal flow at the reservoir outlets was continued in use during 1958. Pending a full study of reservoir inflow and outflow at Palisades, after say another year or so of operation, that reservoir was operated on the same basis as Jackson Lake, namely convert the daily drop in Lake level to second-feet and call it storage released from Palisades. Owing to occasional wind effect on the Lake levels and only reading that level to the nearest 0.1 foot it was necessary to adjust the computed quantities over short periods to avoid unwarranted fluctuations in the computed normal flow at reservoir outlet. For some time after storage draft started a lag of several days was maintained in

making normal flow cuts to avoid any possible natural flow losses at the near maximum lake levels existing at Palisades and Jackson Lake. This was continued until about 30,000 acre-feet of stored water was used in maintaining natural flow rights. Later on in the season when dropping Lake and river levels resulted in bank storage return this water was gradually recovered for credit as stored water so that it balanced out by the end of the irrigation season.

Daily figures showing segregation of flow at the various river gaging stations and storage diversions by the canals are shown on Plates 12 and 13 for Snake River and Plate 21 for Henrys Fork.

The net seasonal total of stored water passing the Blackfoot gaging station during 1958 was 158,600 acre-feet in excess of repayment of previous storage in Jackson Lake and Palisades adverse to prior natural flow rights below American Falls. The natural flow at Blackfoot shown on Plates 12 and 13 during such periods is computed as it would have been if the adverse storage had not occurred and such computed natural flow, rather than the actual flow, is credited, plus downstream inflow, to the canals at Minidoka and Milner dams according to their priority rights.

The storage spill past Blackfoot was greater than it would otherwise have been due to inability to utilize the regular discharge tunnel at Palisades. All the water had to be carried thru the power tunnel and either not spill any water at all into the discharge channel above the power plant or spill a substantial amount to lessen concrete erosion that was taking place. As a result most of the time more water was discharged from Palisades than was absolutely necessary

to fill demands above Blackfoot. It was not a matter of great consequence, however, as the North Side Canal Company was obliged to draw heavily on its Jackson Lake supply in 1958.

A number of upper valley canals appeared to have been bothered more with moss growth in 1958 than in previous years. This reduced carrying capacities and increased the percentage of loss in the canal systems. The Aberdeen canal reported that their losses ran about 38% thru May, June and part of July but in August and September were 50% or more at times, making an average transmission loss of 43½% for the 1958 season compared to 40½% in 1957 and an average of 34% from 1939-1956. They attribute the increased loss principally to silt retention in Palisades reservoir. However, due to running out of stored water and a desire to rent as little additional storage as possible they only diverted about 75% as much water in August and September 1958 as during those months in 1957. With this reduced flow added to moss in the canals the percentage loss would probably be greater and may account, in part at least, for the large 1958 losses late in the season reported by them.

STORED WATER DELIVERIES

Storage allotments of Jackson Lake and American Falls owned rights were the same in 1958 as 1957. It is expected that they will be adjusted in 1959 to conform to the terms of the Minidoka Irrigation District contract by which that District retains its Jackson Lake rights. The total American Falls lease space was reduced in 1958 by allotment of 23,300 acre-feet to the Michaud project but there were several former lease holders who did not rent any lease water in 1958 so those who participated in the 1958 lease actually each received a greater amount than in 1957.

Reservoir Allotments

American Falls

On June 8 American Falls reservoir held 1,671,000 acre-feet. This date corresponds to June 9 at Milner when storage draft started by the Milner canals. Prior to June 8 (American Falls date) there was 11,900 acre-feet of storage used by Michaud Canal, Minidoka North Side Pump and Idaho Power Company which have no established natural flow rights and were charged with storage use after American Falls dropped below capacity on May 22. Adding this 11,900 acre-feet to the 1,671,000 acre-feet gives 1,682,900 acre-feet which is 17,100 acre-feet short of capacity for 1958 storage allotment. This has to be supplied from American Falls water previously retained in Palisades and allowing for transmission loss is equivalent to 19,300 acre-feet in Palisades.

Jackson Lake

The last date for storage under the Jackson Lake priority was June 15, on which date the Lake contained 796,010 acre-feet of which 13,700 acre-feet was retained natural flow, later spilled to prior downstream rights. This leaves 782,310 acre-feet of Jackson Lake water on June 15 which is 64,690 acre-feet short of capacity. This has to be made up from Jackson Lake water spilled to Palisades during the previous winter and allowing for transmission loss is equivalent to 63,600 acre-feet in Palisades.

Palisades

The last date for storage under the Palisades priority was June 5, corresponding to June 8 at American Falls. On June 5 Palisades contained 1,299,000 acre-feet of which 19,300 acre-feet was American Falls water and 63,600 acre-feet was Jackson Lake water. Subtracting

these two items leaves 1,216,100 acre-feet of Palisades water including 200,000 acre-feet of dead storage for minimum power head.

1958 Storage Allotments in Acre-feet
(Downstream order from Heise)

<u>Canal</u>	<u>American Falls</u>		<u>Jackson Lake</u>	<u>Total</u>
	<u>Owned</u>	<u>Lease</u>		
Poplar Irr. Dist.	190	49	2,072	2,311
Progressive Irr. Dist.	3,531	610	16,163	20,304
Farmers Friend	0	0	2,000	2,000
Enterprise Canal Co.	2,524	732	17,651	20,907
Harrison	3,401	0	20,567	23,968
Rudy	749	922	5,430	7,101
Burgess	2,686	1,672	17,413	21,771
Lowder	0	0	1,040	1,040
Sunnydell	0	0	4,000	4,000
Lenroot	1,094	357	8,008	9,459
Reid	721	178	3,300	4,199
Dilts	250	41	1,147	1,438
Enterprise Irr. Dist.	2,882	0	13,189	16,071
Butte & Market Lake	1,320	4,032	6,041	11,393
Osgood (U.I.S.Co.)	3,807	1,912	17,423	23,142
Bear Island	54	20	247	321
Smith	20	0	92	112
Kennedy	0	0	355	355
Idaho Irr. Dist.	6,480	449	29,661	36,590
Martin	567	205	4,098	4,870
New Sweden Irr. Dist.	7,277	1,151	38,311	46,739
Woodville	1,710	120	7,828	9,658
Snake River Valley	7,457	0	49,135	56,592
Blackfoot	3,610	890	16,523	21,023
Peoples	6,057	2,047	35,723	43,827
Aberdeen	15,921	12,754	114,296	142,971
Corbett	961	109	4,396	5,466
Trego	371	0	1,701	2,072
Michaud	23,300	0	0	23,300
Minidoka Irr. Dist.	236,030	19,357	0	255,387
Burley Irr. Dist.	157,942	3,463	0	161,405
Minidoka N. S. Pump	47,593	0	0	47,593
Milner Low Lift	45,687	0	0	45,687
Twin Falls Canal	151,185	0	97,183	248,368
Hillsdale Irr. Dist.	41,146	0	0	41,146
N. S. Canal Co.	413,814	0	312,007	725,821
Gooding	400,000	0	0	400,000
Idaho Power Co.	45,000	0	0	45,000
U. S. for sub-lease		13,593	0	13,593
Total	1,635,337	64,663	847,000	2,547,000

The United States rented 13,593 acre-feet of American Falls lease water and 147,414 acre-feet of Palisades water to the following users:

Island Park	305 acre-feet
Upper Valley Main River	153,236
Swan Valley	1,875
Lower Valley	<u>5,591</u>
Total	161,007 acre-feet

The Twin Falls Canal Company rented 2,580 acre-feet as follows:

Upper Valley	1,200 acre-feet
Milner Low Lift	<u>1,380</u>
Total	2,580 acre-feet

All of these rentals were at the rate of 30¢ per acre-foot reservoir measurement.

Allotments of Lake Walcott storage and gain Neeley to Milner are shown on Plate 14.

Supply and disposal of stored water, 1958
(acre-feet)

Supply

Jackson Lake	June 14	847,000
Palisades	June 5	1,216,100
American Falls	June 8	1,700,000
Lake Walcott	June 9	95,430
Henrys Lake	July 5	83,300
Island Park	June 20	134,800
Grassy Lake	July 14	15,180
Indian and Bergman Lakes yield		445
Sheridan Creek right		2,094*
Gain Neeley to Milner, Minidoka Project		81,700*
Gain Neeley to Milner, unallotted		<u>13,711*</u>
Total		4,189,760

*special natural flow rights considered as storage for convenience in tabulation.

Disposal

Used by Snake River rights	2,311,402
Used by Henrys Fork rights	192,101
Storage transmission loss Snake River	62,478
Storage transmission loss Henrys Fork	4,747
Storage transmission loss Cross Cut Canal	3,036
Henrys Lake loss	1,188
American Falls Reservoir loss	23,060
River operation storage waste past Milner	5,088

Holdovers:

Jackson Lake	Sept. 27	505,160
Palisades	Sept. 27	723,000
American Falls	Sept. 30	256,000
Lake Walcott	Sept. 30	21,270
Island Park	Sept. 27	17,240
Henrys Lake	Sept. 27	54,700
Grassy Lake	Sept. 27	9,290
Total		4,189,760

The river operation waste past Milner amounting to 5,088 acre-feet and American Falls reservoir loss of 23,060 acre-feet were not prorated among the users as these charges as well as 4,587 acre-feet advance use of its 1959 storage allotment by the Idaho Power Company will be extinguished if American Falls fills in 1959. The advance use by the Idaho Power Company of this portion of its 1959 supply was made in response to a suggestion by the Bureau of Reclamation designed to facilitate river operation at Milner lake in September after the Idaho Power Company had exhausted its 1958 allotment.

Michaud Project Use of Stored Water

There is a complicated ground water situation beneath this project. Most of the land northeast of American Falls has a water table tributary to American Falls Reservoir, while the balance of the project has a water table tributary to the river at points downstream from the Ruegar (Neeley) gaging station. A portion of the latter

ground water may reappear as ground water inflow to the upper end of Lake Walcott but the greater portion may escape and join the ground water flow beneath the plains north of Snake River and eventually reappear in Hagerman Valley. Any of it reappearing as Lake Walcott inflow would be a special credit to the Minidoka project under the plan of river operation that has been followed for many years, but as far as other river waterusers are concerned they would only receive any return flow entering American Falls reservoir.

Accordingly, the irrigated area beneath this project has been divided into two categories, No. 1 with ground water tributary to American Falls Reservoir, and No. 2 tributary below the Ruegar (Neeley) gage.

In category No. 1 according to Bureau of Reclamation records there were 2,391 acres irrigated in 1958 from wells which pumped 5,213 acre-feet.

If we assume a net consumptive use of water pumped from wells of 1.8 acre-feet per acre the total amount consumed would be about 4,300 acre-feet, the balance of the pumped water percolating back to the ground water.

In category No. 1 there were also 922 acres served with water pumped from the river below American Falls dam. The East branch canal for about $1\frac{1}{2}$ miles from the pumping plant traverses an area where the ground water is not tributary to American Falls reservoir. Applying an estimated 4% canal loss in this section to the 4,794 acre-feet diverted by the East Branch canal at the pumping plant for lands in category No. 1 leaves about 4,600 acre-feet of river water entering the area in category No. 1. The 922 acres irrigated therefrom would

consume about 1,650 acre-feet leaving 2,950 acre-feet contributed from river water to the ground water beneath the lands in category No. 1. This is 1,350 acre-feet less than the amount consumed in the area served by ground water pumping in category No. 1 and according to these assumptions would be the measure of depletion of stream flow at American Falls dam, over and above the amount pumped directly from the river, due to operation of the Michaud project in 1958.

The use of water on lands in category No. 2 has no adverse effect on the supply for prior irrigation rights below American Falls. In this category 407 acres were irrigated from wells which pumped 1,291 acre-feet. The net water consumption under these wells was about 740 acre-feet, the balance of the pumped water either percolating back to the ground water or as surface waste back to the river.

There were 507 acres irrigated in category 2 from 3,838 acre-feet pumped from the river. About 918 acre-feet of this was consumed by the 507 acres leaving 2,920 acre-feet contributed to the water table or as surface waste back to the river. There was also contributed about 190 acre-feet represented by the estimated 4% loss in the first $1\frac{1}{2}$ miles of the East Branch canal making a total contribution from Category No. 2 lands of 3,110 acre-feet which is 2,370 acre-feet in excess of the 740 acre-feet consumed by land under wells in category No. 2.

This contribution in the form of return flow below American Falls, however, is not available to the Snake River canals except perhaps a minor percentage of it as a bonus to the Minidoka project if some of the water enters Lake Walcott or as surface waste into the river between American Falls and Lake Walcott.

In the tabulations appearing in this report the Michaud Project was only charged with the water actually pumped from the river but from the foregoing discussion it would appear that an additional charge of 1,350 acre-feet should be made against their 1958 holdover if American Falls should not fill in 1959.

In effect the calculated American Falls reservoir losses in 1958 would be reduced by 1,350 acre-feet if this much additional use was charged to the Michaud project.

GROUND WATER PUMPING

The great increase in ground water pumping in the Snake River Valley during recent years has been a matter of much interest and perhaps some concern to the old established Snake River Canal companies and Irrigation Districts on account of its possible effect on ground water inflow to the river. This ground water inflow to Snake River and Henrys Fork after they leave the foothills is an important part of the River's water supply and aggregates close to 5,000 second-feet during the late summer months in the area from Ashton to Milner.

The following tabulation is based on information furnished by Idaho Power Company, Utah Power & Light Company and U. S. Bureau of Reclamation:

New acres of land irrigated by ground water pumping added
annually in Snake River Valley above King Hill

<u>Year</u>	<u>Idaho Power Co.</u>		<u>Utah</u>	<u>B. of R.</u>	<u>Total</u>
	<u>Southern District</u> (Rupert to Gooding)	<u>Eastern District</u> (Am. Falls to Aberdeen)	<u>P. & L. Co.</u> (Rexburg Division)	<u>Burley</u>	
1949	8,100	4,800	No report	-	12,900
1950	12,300	7,400	No report	-	19,700
1951	14,800	6,500	No report	-	21,300
1952	15,000	7,500	3,100	-	25,600
1953	19,000	2,100	8,500	-	29,600
1954	9,400	10,600	5,400	7,300	32,700
1955	21,700	11,800	7,200	8,900	49,600
1956	25,300	11,000	9,200	10,400	55,900
1957	13,400	9,500	11,300	10,500	44,700
Total for period	139,000	71,200	44,700	37,100	292,000

The Idaho Power Company reports pumping for supplemental use in addition to above new land figures as follows (figures in acres):

<u>Year</u>	<u>Southern District</u>	<u>Eastern District</u>	<u>Total</u>
1949	3,100	1,400	4,500
1950	3,300	1,000	4,300
1951	1,100	900	2,000
1952	4,300	1,100	5,400
1953	5,700	200	5,900
1954	2,300	900	3,200
1955	5,500	700	6,200
1956	2,100	0	2,100
1957	2,600	500	3,100
Total for period	30,000	6,700	36,700

The most feasible projects with moderate pumping lifts have been constructed first and probably before long there will be a decreasing rate of annual increase. The 1957 figures show some evidence of such a trend. However, the increase in values of irrigated land, accompanied by Government support of farm crop prices, that has occurred during the past decade or so acts as a stimulus to new land development and areas continue to go into cultivation with greater pumping

lifts than were considered feasible under former land values. On the other hand there are some local areas, particularly in the Raft River section and south of Burley-Murtaugh where the local ground water supply may not be adequate to irrigate all the available land. There is a vast underground water supply of many millions of acre-feet accumulated in past years in the Snake River Valley and it will probably be some years before the full effect of all this ground water pumping becomes apparent.

The best chance for Snake River irrigators to overcome any adverse effect of such pumping is to support all feasible projects for storage of surplus waters of Snake River above Milner. If the water which over a period of years now runs to waste down Snake River past Milner can be retained in reservoirs upstream and later spread out over the land, or diverted directly for underground storage, it will largely replace the water consumed by the ground water pumping projects.

Under the provisions of the old contracts that were entered into between the United States and upper valley storage owners, the latter agreed to all stand the transmission loss on stored water from Jackson Lake to Shelley gaging station. For many years past this has been 7.26% and this loss has been charged to all upper valley storage allotments to get the headgate equivalent which they could divert. Now Palisades is in operation and the loss from Jackson Lake to Palisades dam has been fixed at 1.7%, so that the loss on Palisades water alone has been reduced to 5.56%.

There will be variable drafts on these reservoirs in the future with inter-exchange of water between them. It will cause much

confusion if an attempt is made each year to calculate separate losses from upper valley water in each reservoir. The necessity will exist in the future as it has in the past to adopt some uniform loss figure which can be charged to main river upper valley storage allotments to determine how much they can divert at their headgates.

Considering the relative capacities of and probable annual drafts from Jackson Lake and Palisades it is recommended that in the future a uniform transmission loss charge of $6\frac{1}{4}\%$ be applied to all upper valley storage allotments, whether in Jackson Lake or Palisades, to determine the amount that can be diverted at the canal headgates. If a loss of 7.26% is applied to 847,000 acre-feet in Jackson Lake and a loss of 5.56% is applied to 1,200,000 acre-feet in Palisades the total loss in acre-feet is the same as $6\frac{1}{4}\%$ loss on the combined capacities of 2,047,000 acre-feet.

Storage Loss

RIVER LOSSES AND GAINS

Gains and losses between river stations are shown in the following tabulations for the months May thru September, using time intervals shown on Plate 15.

Gain in Snake River, Moran to Heise, 1958
(Heise dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Total
Moran	28,860	8,325	78,060	69,480	83,930	268,655
Palisades release	-108,900	20,167	152,258	92,767	7,563	163,855
Total supply	- 80,040	28,492	230,318	162,247	91,493	432,510
Heise	418,310	380,300	384,700	265,360	179,920	1,628,590
Riley	226	669	799	559	168	2,421
Tot. acct. for	418,536	380,969	385,499	265,919	180,088	1,631,011
Tot. gain s.f.	498,576	352,477	155,181	103,672	88,595	1,198,501
Mean gain s.f.	16,080	11,750	5,006	3,344	2,953	7,833
Tot. gain a.f.	988,911	699,128	307,797	205,631	175,725	2,377,192

In 1958 the bulk of the snow melt run-off came in May and the gain during that month was greater than it was in May 1957. During

the other months, however, the gain was substantially less than in the previous year reflecting precipitation deficiency from May thru September, inclusive.

Gain in Snake River, Heise to Shelley, 1958
(Heise dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Total
Heise & Riley	418,536	380,969	385,499	265,919	180,088	1,631,011
Rexburg	123,640	66,797	31,886	37,030	44,680	304,033
Total Supply	542,176	447,766	417,385	302,949	224,768	1,935,044
Diversions	164,187	260,874	294,382	222,553	163,301	1,105,297
Shelley	383,880	220,960	148,300	116,440	95,010	964,590
Tot.acct.for	548,067	481,834	442,682	338,993	258,311	2,069,887
Tot.gain s.f.	5,891	34,068	25,297	36,044	33,543	134,843
Mean gain s.f.	190	1,136	816	1,163	1,118	881
Tot. gain a.f.	11,684	67,573	50,176	71,492	66,532	267,457

The gain in this section was more uniform thruout the months June to September than was the case in 1957. It was higher during May to July but lower in August and September than during the previous year. On an average for the five months' period the mean daily gain was 173 second-feet greater than in 1957.

Loss and Gain in Snake River, Shelley to Blackfoot, 1958
(Shelley dates and 24-hr. sec.-ft. except as noted)
- is loss

Station	May	June	July	Aug.	Sept.	Total
Shelley	378,680	225,860	148,500	117,770	96,090	966,900
Blackfoot River	9,438	1,992	803	619	1,497	14,349
Total supply	388,118	227,852	149,303	118,389	97,587	981,249
Diversions	92,631	108,524	114,697	78,538	55,924	450,314
Blackfoot	286,520	124,646	34,764	39,910	47,291	533,131
Tot. acct. for	379,151	233,170	149,461	118,448	103,215	983,445
Tot. diff. s.f.	-8,967	5,318	158	59	5,628	2,196
Mean diff. s.f.	- 289	177	5	2	188	14
Tot. diff. a.f.	-17,786	10,548	313	117	11,163	4,355

There was an average daily gain of 14 second-feet for the five months' period compared to an average daily loss of 142 second-feet in 1957. The larger loss in 1957 was mostly due to heavy losses during the floodwater period in May of that year when the monthly run-off was

about 40% greater than in May 1958.

There is a ground water inflow of about 200 second-feet that enters Snake River in the mile or two above the Blackfoot station. If this is considered as part of the supply to the river it means that there would actually be an average loss of 186 second-feet in the above section instead of the overall 14 second-feet gain.

Gain or loss in Snake River, Blackfoot to Neeley, 1958
(Neeley dates and 24-hr. sec.-ft. except as noted)
- is loss

Station	May	June	July	Aug.	Sept.	Total
Blackfoot	283,385	131,676	34,254	41,031	47,428	537,774
Inflow	93,710	81,249	80,381	83,109	83,754	422,203
Res. draft	13,613	129,571	282,333	237,462	73,609	736,588
Total supply	390,708	342,496	396,968	361,602	204,791	1,696,565
Diversions	532	932	1,180	1,072	796	4,512
Neeley	376,870	338,480	389,400	363,900	197,751	1,666,401
Total use	377,402	339,412	390,580	364,972	198,547	1,670,913
Tot.diff. s.f.	-13,306	- 3,084	- 6,388	3,370	- 6,244	-25,652
Mean diff.s.f.	- 429	- 103	- 206	109	- 208	- 168
Tot. diff.a.f.	-26,392	- 6,117	-12,671	6,684	-12,385	-50,881

During the period of storage draft June 8 to September 30 the loss amounted to 23,060 acre-feet or 1.4% of reservoir capacity or 1.6% of reservoir drawdown. No attempt was made to distribute this loss among the storage owners as the reservoir will likely fill in 1959, making such action unnecessary. The indicated loss may be due to reservoir silting, to ground water pumping or to small errors in measuring the river flow, or perhaps to a combination of all three of these items.

The heavy drawdown at American Falls in 1958 should have resulted in bank storage return sufficient to offset the evaporation losses during the drawdown period. That this did not occur is probably due to some of the factors above mentioned.

Gain and Loss in Snake River, Neeley to Minidoka, 1958
(Minidoka dates and 24-hr. sec.-ft. except as noted)
- is loss

Station	May	June	July	Aug.	Sept.	Total
Neeley	375,530	338,680	389,600	364,170	200,040	1,668,020
Walcott release	- 480	830	-1,310	2,960	35,000	37,000
Total supply	375,050	339,510	388,290	367,130	235,040	1,705,020
N. Minidoka	51,160	40,758	51,550	45,980	26,684	216,132
S. Minidoka	36,346	34,467	39,700	38,180	21,816	170,509
Minidoka	287,520	265,350	296,350	280,650	191,120	1,320,990
Total use	375,026	340,575	387,600	364,810	239,620	1,707,631
Tot. diff.s.f.	- 24	1,065	- 690	-2,320	4,580	2,611
Mean diff.s.f.	- 1	35	- 22	- 75	153	17
Tot. diff.a.f.	- 48	2,112	-1,369	-4,602	9,084	5,177

The heavy drawdown of Lake Walcott in September resulted in bank storage return sufficient to offset earlier losses, leaving an average daily gain of 17 second-feet for the season, compared to an average loss of 68 second-feet in 1957.

Gain in Snake River, Minidoka to Milner, 1958
(Milner dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Total
Minidoka	286,480	265,540	296,600	280,680	194,120	1,323,420
Misc. diver.	20	30	34	26	10	120
Min. N. S. Pump	4,037	6,477	8,187	6,641	3,566	28,908
P. A.	1,777	1,973	2,180	2,017	1,333	9,280
Milner Low Lift	6,683	6,331	7,766	7,241	4,041	32,062
Gooding	65,070	74,710	79,520	76,050	64,370	359,720
No. Side	77,200	76,990	90,970	85,220	57,500	387,880
So. Side	105,240	99,060	113,420	108,350	72,450	498,520
Milner	28,922	8,743	6,808	6,531	6,224	57,228
Total use	288,949	274,314	308,885	292,076	209,494	1,373,718
Tot. gain s.f.	2,469	8,774	12,285	11,396	15,374	50,298
Mean gain s.f.	80	292	396	368	512	328
Tot. gain a.f.	4,897	17,403	24,367	22,603	30,493	90,763

Total gain in this section for the five months' period was about 9,000 acre-feet less than in 1957. The overall gain Neeley to Milner during the period of storage use by the Minidoka project (June 19 to September 25) amounted to 81,700 acre-feet which was credited as storage supply to the Minidoka project. This is much greater than

the usual credit from that source due to longer time period and the drawdown of Lake Walcott during September to low levels which permitted ground water inflow into the upper reaches of that Lake. The gain June 9-18 and September 26-30 when the Minidoka project was not using stored water amounted to 13,711 acre-feet and was not allotted to any specific users.

DISTRIBUTION ON HENRYS FORK

Mr. O. P. Mortensen continued his position as Deputy Watermaster at St. Anthony in charge of water distribution on Henrys Fork, Fall River and lower Teton River. He was assisted by S. B. Garrett on Henrys Fork and Fall River and by Joseph Bohi on Teton River. Mr. Bohi, who had filled the position of river rider and hydrographer on lower Teton River with ability for the past 18 years died during November 1958.

Elmer Lenz, river rider on upper Fall River, continued his special work dividing water between the Boom Creek and Squirrel Creek Canals; one-half, or \$120.50 of the cost of this special work was charged to the two canal companies and one-half as a general District No. 36 charge. Results of the observations on Squirrel Creek are shown on Plate 23B.

Owing to deficient run-off a heavy draft was made on all three reservoirs serving the Henrys Fork area. The river was so operated as to leave most of the holdover in Henrys Lake, as it takes about $2\frac{1}{2}$ years average run-off to completely fill Henrys Lake if no water at all was discharged from it during such a time period.

The usual methods, described in previous reports, of segregating stored water and normal flow at the outlets of Henrys Lake and Island Park reservoirs were continued in 1958.

Figures showing the operation of the Cross Cut Canal in 1958 are shown on Plate 23A. It delivered 30,000 acre-feet to the Fall River Canal and 29,080 acre-feet to Teton River with an average transmission loss of 9.5%.

The following miscellaneous measurements were made by H. C. Eagle while regulating water in the Island Park area:

July 7, 1958

Sauer & Moedl from Hope Creek	3.0	second-feet	
Magleby sprinkler (Rock Cr.)	2.7	"	"
Lyon diversion from Rock Cr.	1.5	"	"
Rock Creek at mouth	3.0	"	"
Duck Creek at highway Gage 2.05	13.4	"	"
Webster & Magleby from Duck Cr.	6.0	"	"
Magleby drain	2.0	"	"
Duck Creek into Henrys Lake	8.0	"	"
Howard Creek into Henrys Lake	0.5	"	"
Targhee Creek into Henrys Lake	10.0	"	"
Timber Creek into Henrys Lake	3.0	"	"
Springs into Henrys Lake	2.0	"	"
Webster springs into Henrys Lake	4.0	"	"
Sheridan Creek above diversions	35.7	"	"
Morain Creek	3.0	"	"
Sheridan Creek at hiway 22 Gage 0.77	11.4	"	"
Upper Railroad diversion	5.8	"	"
Sheridan Creek spill to Island Park Res.	5.0	"	"
Icehouse Creek at forest road	12.0	"	"
Icehouse Creek at hiway 22	15.0	"	"
Willow Creek at hiway 22	0.1	"	"
Grub diversion from Icehouse Cr.	1.5	"	"

July 23, 24, 1958

Ab. Laird diversion So. Twin Cr.	1.0	"	"
No. Twin Cr.	1.5	"	"
Salisbury diversion from Targhee & Howard	9.0	"	"
Lyon diversion from Rock Cr. Cut from 0.8 to 0.4		"	"
Magleby diversions Pipe line 2.7,			
Rock Cr. 2.0, Duck 2.5, Total	7.2	"	"
Duck Creek at Bootjack hiway	7.5	"	"
Webster drain	2.0	"	"
Duck Creek into Henrys Lake	3.0	"	"
Howard Creek into Henrys Lake	0.5	"	"
Targhee Creek into Henrys Lake	5.0	"	"
Timber Creek into Henrys Lake	1.5	"	"
Sheridan Creek at hiway 26 Gage 0.91	4.5	"	"
Upper Railroad diversion (lower dry)	4.3	"	"
Grubb diversion from Icehouse Creek	2.0	"	"

August 11, 12, 1958

Sheridan Creek above diversions		25.6	second-feet
Sheridan Creek at hiway 22	Gage 1.38	12.7	" "
Upper Railroad diversion		8.4	" "
Sheridan Creek at mouth		0	
Icehouse Creek at forest road		8.0	" "
Icehouse Creek at hiway 22		10.0	" "
Grub diversion from Icehouse Cr.		2.5	" "
Laird Diversion So. Twin 1.5,			
No. Twin 1.5 - Total		3.0	" "
Richard diversion from No. Twin			
(closed on Aug. 10)		0	
Phillip Findlay Targhee Cr. sprinkler		1.5	" "
Salisbury - Howard Cr. 3.0, Targhee 5.0		8.0	" "
Duck Cr. at Bootjack hiway		4.0	" "
Magleby-Webster 2 diversions		2.5	" "
Webster Drain		1.0	" "
Magleby pipe line		2.5	" "
Magleby from Rock Creek		1.5	" "
Lyon from Rock Creek		0.5	" "
Magleby total		6.5	" "
Webster total		1.0	" "
Hope Creek		1.5	" "

There were frequent moderate rains in the Henrys Lake area during the late summer of 1958 reducing irrigation demands.

Henrys Lake Allotment, 1958

Contents July 5	83,300 acre-feet
Estimated dead storage and loss	<u>3,000</u> " "
Available for allotment	80,300 acre-feet

<u>Canal</u>	<u>Allotted</u>	
	<u>Percent</u>	<u>Acre-feet</u>
Dewey	1.43	1,150 ac
Last Chance	13.87	11,140
St. Anthony Union	6.8	5,460
Salem Union	24.2	19,430
Egin	6.8	5,460
Independent	26.8	21,520
Consolidated Farmers	<u>20.1</u>	<u>16,140</u>
Total	100	80,300

During the period of storage draft July 5 to September 14 the Lake contents dropped 29,300 acre-feet. During the same period the

storage released, based on estimated inflow, amounted to 28,112 acre-feet, giving an indicated net loss in the Lake of 1,188 acre-feet.

Fremont-Madison Irrigation District Allotment

Island Park	June 20	134,800 acre-feet
Grassy Lake	July 14	15,180 " "
Sheridan Cr. right		2,094 " "
Total		152,074 acre-feet

The District allotted 132,244 acre-feet to its members and rented them an additional 17,838 acre-feet for a total of 150,082 acre-feet.

As shown on Plate 21, there was 21,727 second-feet or 43,095 acre-feet (Rexburg measurement) of Snake River water retained on Henrys Fork during 1958. The Enterprise Irrigation District held 16,071 acre-feet of Snake River storage rights and the United States rented 305 acre-feet to Island Park users. Allowing for 7.26% Snake River transmission loss this is equivalent to 15,190 acre-feet at Rexburg. The actual retention was 27,905 acre-feet in excess of this figure so that amount (Rexburg measurement) of Snake River storage water remained in Island Park and Henrys Lake at the close of the 1958 season.

Snake River water retained on H.F.

Diversions during the 1958 irrigation season, May to September, from Fall River, Henrys Fork and lower Teton River

Canal	Diversions (acre-feet)	Area Irrigated (acres)	Acre-feet per acre
<u>Fall River Canals</u>			
Yellowstone	1,850	1,150	1.6
Marysville	36,400	15,000	2.4
Farmers Own	14,100	4,800	2.9
Almy	400	80	5.0
Enterprise	35,500	5,900	6.0
Bell	1,690	320	5.3
Fall River	95,000 (a)	9,000	10.5
McBee	530	70	7.6

Diversions during 1958 irrigation season - continued

	Diversions (acre-feet)	Area Irrigated (acres)	Acre-feet per acre
<u>Fall River Canals - continued</u>			
Chester	11,900		
Silkey	3,340	1,400	10.4
Cur	9,030	680	4.9
Total Fall River	209,740	1,300	6.9
		39,700	5.3

(a) Includes 30,000 diverted thru Cross Cut.

<u>Henrys Fork Canals</u>			
Dewey	4,130		
Last Chance	23,400	1,000	4.1
St. Anthony Union	136,000	1,850	12.6
Farmers Friend	28,100	9,700	14.0
Twin Groves	29,500	2,500	11.2
Salem Union	57,100	2,300	12.8
Egin	81,500	5,500	10.4
St. Anthony U. Feeder	27,900	6,000	13.6
Independent	74,600	2,300	12.1
Consolidated Farmers	58,000	7,000	10.6
Total Henrys Fork	520,230	6,000	9.7
		44,150	11.8

<u>Lower Teton Canals</u>			
Siddoway	3,610	500	7.2
Wilford	23,900	2,500	9.6
Teton Irrigation	23,600	2,000	11.8
Good Luck	3,970	400	9.9
Pioneer	2,140	300	7.1
Stewart	2,810	400	7.0
Pincock-Byington	3,750	400	9.4
Pincock-Garner	4,140	480	8.6
Teton Island Feeder	102,000	10,400	9.8
Roxana	3,220	720	4.5
Island Ward	6,430 (b)	3,300	1.9
North Salem	1,780 (c)	450	4.0
Woodmansee-Johnson	4,030 (d)	1,320	3.1
City of Rexburg	6,140	720	8.5
Rexburg Irrigation	48,200	5,280	9.1
McCormick Rowe	760	160	4.7
Saurey Sommers	4,330	400	10.8
Gardner	170	200	0.8
Eames Thompson	220	160	1.4
Total Lower Teton	245,200	30,090	8.1

Total Fall River, Henrys Fork and Lower Teton	975,170	113,940	8.6
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- (b) Used additional water from Henrys Fork thru Consolidated Farmers
(c) Used additional water from Henrys Fork thru Salem Union
(d) Used additional water from Moody Cr. & Teton Irr. Canal waste.

The diversions in this area were about 2.5% less than during the past several years, due to early date of cutting off the flood-water rights and curtailment of use late in the season on account of dwindling storage supply for many canals.

Even the Egin bench canal diversions were 2,700 acre-feet less than in 1957, the first time for some years past that such diversions haven't increased each year.

Of the total diversions of 975,170 acre-feet, 179,000 acre-feet or 18.4% was stored water.

Diversions by some of the principal canals in the headwater areas for the 1958 irrigation season (May 15-September 30) are shown below:

Canal	Diversions (acre-feet)	Area Irrigated (acres)	Acre-feet per acre
String Canal	15,000	2,200	6.8
Trail Creek Irr. Co.	31,600	5,500	5.7
Fox Creek Canals	12,400	3,800	3.3
Darby Creek canals	17,200	4,800	3.6
Grand Teton Canal	30,300	6,000	5.0
Canyon Creek Canal	5,470	2,200	2.5
Conant Creek Canal	5,140	2,000	2.6
Squirrel Creek Canal	1,440	900	1.6
Boom Creek Canal	1,200	500	2.4
	119,750		

Due to weather conditions most of these canals diverted considerably more water during May and early June than in 1957 but experienced a substantial shortage during July to September 1958 from their usual supply.

River gains in Henrys Fork Basin, 1958

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

Lake to Island Park	20 hrs.
Island Park to Ashton	19 hrs.
Ashton to St. Anthony	5 hrs.
St. Anthony to Rexburg	12 hrs.
Squirrel to Chester	8 hrs.
Tetonia to St. Anthony	10 hrs.

Gain in Henrys Fork, Lake to Island Park, 1958

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

Station	May	June	July	Aug.	Sept.	Total
Lake	2,398	4,624	7,130	8,657	1,032	23,841
I. P. release	-1,427	5,365	27,961	15,622	11,230	58,751
Total supply	971	9,989	35,091	24,279	12,262	82,592
Island Park	30,599	28,104	49,380	38,990	27,573	174,646
Tot. gain s.f.	29,628	18,115	14,289	14,711	15,311	92,054
Mean gain s.f.	956	604	461	475	510	602
Tot. gain a.f.	58,767	35,930	28,342	29,179	30,369	182,587

Due to lesser precipitation the 1958 gain from May thru July was considerably less than in 1957. The August and September gains, however, were practically the same as a year ago. Probably increased bank storage return flow resulting from heavy drawdown of Island Park reservoir during these two months in 1958 was sufficient to overcome the effect of deficient precipitation and run-off.

Gain in Henrys Fork, Island Park to Ashton, 1958

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

Station	May	June	July	Aug.	Sept.	Total
Island Park	30,246	27,699	49,513	39,142	28,067	174,667
Ashton	76,010	52,850	69,860	58,060	50,140	306,920
Tot. gain s.f.	45,764	25,151	20,347	18,918	22,073	132,253
Mean gain s.f.	1,476	838	656	610	736	864
Tot. gain a.f.	90,771	49,887	40,357	37,523	43,781	262,319

The gain was substantially less each month than a year ago, except September when it was about the same as in 1957. Probably

there was some river bank storage draining back to the stream that month in 1958 due to large reduction in stream flow after mid-September. The gain may also have been affected by changes in water level at the Ashton power dam due to grouting operations there.

Gain in Henrys Fork, Ashton to St. Anthony, 1958

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

Station	May	June	July	Aug.	Sept.	Total
Ashton	75,877	52,863	69,868	58,108	50,283	306,999
Chester	69,225	30,299	1,298	3,284	7,374	111,480
Total Supply	145,102	83,162	71,166	61,392	57,657	418,479
Diversions	35,755	36,497	43,994	32,828	22,561	171,635
St. Anthony	113,680	51,373	34,847	36,952	37,960	274,812
Total use	149,435	87,870	78,841	69,780	60,521	446,447
Tot. gain s.f.	4,333	4,708	7,675	8,388	2,864	27,968
Mean gain s.f.	140	157	248	271	95	183
Tot. gain a.f.	8,594	9,338	15,223	16,638	5,681	55,474

The mean average gain was 39 second-feet greater than in 1957 probably due to well sustained ground water levels in the adjacent irrigated area. The May diversions were considerably greater than in 1957 which gave a good initial build-up to the ground water.

Gain in Fall River, Squirrel to Chester, 1958

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

Station	May	June	July	Aug.	Sept.	Total
Squirrel	69,581	45,953	14,970	13,376	13,181	157,061
Diversions	11,897	22,211	15,859	12,433	8,920	71,320
Chester	69,611	29,814	1,305	3,302	7,419	111,451
Tot. use s.f.	81,508	52,025	17,164	15,735	16,339	182,771
Tot. gain s.f.	11,927	6,072	2,194	2,359	3,158	25,710
Mean gain s.f.	385	202	71	76	105	168
Tot. gain a.f.	23,657	12,044	4,352	4,679	6,263	50,995

The average daily gain was 88 second-feet less than in 1957, being less each month, reflecting decreased run-off from the intervening drainage area.

Gain in Henrys Fork and Teton River, St. Anthony to Rexburg, 1958

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

Station	May	June	July	Aug.	Sept.	Total
Teton River	61,167	42,798	29,203	21,092	17,851	172,111
Henrys Fork	113,680	51,373	34,847	36,952	37,960	274,812
Total Supply	174,847	94,171	64,050	58,044	55,811	446,923
Teton Diversion	23,516	33,985	29,377	21,698	15,073	123,649
H. Fk. Diver.	34,189	26,379	26,259	21,665	13,667	122,159
Rexburg	124,805	65,285	32,118	36,945	44,900	304,053
Total use	182,510	125,649	87,754	80,308	73,640	549,861
Tot. gain s.f.	7,663	31,478	23,704	22,264	17,829	102,938
Mean gain s.f.	247	1,049	765	718	594	673
Tot. gain a.f.	15,199	62,436	47,016	44,160	35,363	204,174

The average daily gain of 673 second-feet was 102 second-feet less than the corresponding figure in 1957. This gain is mostly produced by return flow from upstream irrigation use and the 204,174 acre-feet total gain for the five months' period is equal to 21% of the 975,000 acre-feet diverted by canals above Rexburg during the same period. Substantial additional amounts of return flow from upstream irrigation move underground westward towards Mud Lake and Market Lake and there is also some drain-off to Henrys Fork during the non-irrigation season.

The gaging station on Teton River near Tetonia was discontinued September 30, 1957, so no direct measurements of the gain in Teton River between Tetonia and St. Anthony gaging stations is available for 1958. This gain, however, has been well established by records of previous years covering a wide range of streamflow conditions so that it was felt that the Tetonia gaging station could be discontinued as an economy measure.

TETON BASIN

C. D. Cooper, with summer office at Driggs, continued in 1958 as Deputy Watermaster in Teton Basin. Water supplies were quite short after the snow melt was over and some crop losses resulted from the shortage. The precipitation at Driggs, May to August 1958, inclusive, amounted to only 1.56" compared to a normal of 6.52".

The discharge of various streams and canals and storage used in Teton Basin thru exchange for natural flow is shown on Plates 23, 24, 46, 47.

Water distribution on Teton Creek between Wyoming and Idaho users was on the basis of the 1940 Wyoming Federal Court decree. Stored water diversions by Teton Basin users, thru exchange for natural flow belonging to prior downstream rights, was on the basis of diverting 1.625 times the amount of replacement storage delivered to lower Teton River at the St. Anthony gaging station, in accordance with an agreement reached by upper and lower users on Teton River in 1949.

The Fremont-Madison District allotted 6,907 acre-feet to Teton Basin users and rented them an additional 3,729 acre-feet for a total of 10,636 acre-feet, reservoir measurement, equivalent to 15,013¹⁰³ acre-feet headgate diversion allocation.

Mr. Seth Hansen of Tetonia continued to serve as special deputy on the Leigh and Spring Creeks on an hourly basis for time actually spent. Considerable time is required to keep the headgates on these creeks regulated and it is impossible for one man to look after the other streams in Teton Basin and still give the necessary attention to the streams in the vicinity of Tetonia. One-half of the cost of Mr. Hansen's services, amounting to \$254.00, was charged as a

special item to the local users and a similar amount was charged as general District 36 expense.

Mr. Cooper had to return at the end of August to his position as teacher in the Rexburg High School, but continued to look after water matters in the Basin during several weekends thereafter. There was so little water left in the Teton Basin streams during September that there wasn't much trouble in distributing it.

SWAN VALLEY

David Peterson again served as Deputy Watermaster in the Swan Valley area and also as deputy watermaster on several canals. The local users were charged \$5.00 a day, or \$505.00 total, as a special charge and the balance of the cost of his services amounting to \$909.00 was charged as general expense of District 36.

Priority cuts were to earlier dates than in recent years and the local users had to rent 1,875 acre-feet of storage compared to 802 acre-feet a year ago.

PRECIPITATION IN INCHES

(Actual and normal for year ending September 30, 1958)

<u>Month</u>	<u>Alta</u>		<u>Moran</u>		<u>Jackson</u>		<u>Bedford</u>		<u>Irwin</u>	
	<u>Act.</u>	<u>Nor.</u>	<u>Act.</u>	<u>Nor.</u>	<u>Act.</u>	<u>Nor.</u>	<u>Act.</u>	<u>Nor.</u>	<u>Act.</u>	<u>Nor.</u>
Oct.	1.28	1.53	.94	1.43	.18	1.09	1.10	1.58	.49	1.26
Nov.	1.45	1.37	1.24	1.80	.74	1.10	1.73	1.73	1.37	1.15
Dec.	2.33	1.56	4.14	2.40	1.59	1.67	2.97	2.24	1.60	1.25
Jan.	2.01	1.51	2.63	2.24	1.00	1.47	1.69	2.14	1.34	1.42
Feb.	1.65	1.43	2.31	2.18	.78	1.41	3.51	1.87	1.47	1.15
Mar.	1.46	1.41	1.34	2.05	.86	1.28	1.99	2.00	1.20	1.14
Apr.	1.89	1.37	2.00	1.69	1.69	1.16	1.95	1.56	2.18	1.06
May	.42	2.07	.87	1.89	.23	1.51	.59	2.00	.30	1.67
June	1.25	2.34	1.09	1.86	.80	1.59	1.89	2.17	.95	1.53
July	.72	1.04	1.16	1.02	.67	.78	1.82	.93	.42	.97
Aug.	.37	1.19	.85	1.33	.28	1.19	.42	1.05	.25	.87
Sept.	1.71	1.29	1.03	1.32	.80	1.08	1.16	1.25	1.63	1.18
Year	16.54	18.11	19.60	21.21	9.62	15.33	20.82	20.52	13.20	14.65

Month	Ashton		Idaho Falls		Pocatello		Twin Falls		Av. 9 Stas.	
	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.	Act.	Nor.
Oct.	1.35	1.28	.45	.98	.57	1.04	.81	.91	.80	1.23
Nov.	1.81	1.30	.56	.79	.79	1.06	1.04	1.08	1.19	1.26
Dec.	2.23	1.64	.90	1.06	.74	1.14	1.06	.90	1.95	1.54
Jan.	2.12	1.88	.57	1.31	1.06	1.21	1.05	1.10	1.50	1.59
Feb.	2.30	1.52	1.04	.97	1.23	.93	1.06	.88	1.71	1.37
Mar.	.83	1.21	.64	1.08	.74	1.13	.75	.85	1.09	1.35
Apr.	1.74	1.16	.54	.94	1.04	1.32	.66	1.11	1.52	1.24
May	.84	1.71	.69	1.24	.40	1.21	.81	1.03	.57	1.57
June	.66	1.66	.86	1.21	1.07	1.02	.62	.81	1.02	1.53
July	.84	.94	.75	.62	.56	.76	.04	.35	.78	.82
Aug.	.63	.79	.30	.59	0	.72	.15	.22	.36	.85
Sept.	1.34	1.12	.55	.82	.33	.90	.04	.57	.95	1.06
Year	16.69	16.21	7.85	11.61	8.53	12.44	8.09	9.81	13.44	15.50

On an average at the nine stations the precipitation for the water year ending September 30, 1958 was 87% of normal. It was above normal during December, February and April and below normal during the other months. Average temperatures were above normal. The average temperature in May at Idaho Falls, for example, was 60° compared to 53° normal. In only one previous year, May 1934, was the average temperature as great at Idaho Falls as in May 1958.

EXPENDITURES DURING YEAR ENDING DECEMBER 31, 1958

Engineers and Hydrographers:

Lynn Crandall	Salary 1 year	\$11,251.76
H. C. Eagle	Salary 1 year	8,241.63
O. P. Mortensen	Salary 5 months @ \$375 mo.	1,875.00
C. D. Cooper	Salary 3.41 mos. @ \$375 mo.	1,279.30
A. H. Bush	Salary 2.96 mos. @ \$375 mo.	1,110.00
Oleen Dummer	Salary 5.26 mos. @ \$375 mo.	1,971.50
R. H. Seymour	Salary 1 day @ \$17 day	17.00

Clerk

Charlotte E. Wood	Salary 1 year	4,553.45
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River Riders;

D. R. Anthony	108 days @ \$10.00 incl. mileage	1,050.00*
J. M. Brown	108 days @ \$10.00 incl. mileage	1,080.00
J. A. Balmforth	43 days @ \$10.50 incl. mileage	451.50
C. J. Anderson	108 days @ \$10.00 incl. mileage	1,080.00
David Peterson	101 days @ \$14.00 incl. mileage	1,414.00
Joseph Bohi	104 days @ \$14.00 incl. mileage	1,456.00
S. B. Garrett	104 days @ \$14.00 incl. mileage	1,456.00
Elmer Lenz	120½ hrs. @ \$2.00 incl. mileage	241.00
Elmer Lenz	3.4 mos. @ \$75.00 incl. mileage	255.00
Seth L. Hansen	254 hrs. @ \$ 2.00 incl. mileage	508.00

* Does not include \$30.00 paid from Federal funds and listed under "Gage Readers".

Miscellaneous

Transportation (car), 44,108 miles @ 8¢ a mile	3,528.64
Transportation (other)	494.85
Telephone and telegraph	420.91
Supplies and Equipment	1,233.13
Gage Readers	654.47
Bond Premium and Insurance	150.24
Interest	146.20
Social Security	280.13
Miscellaneous (subsistence)	530.80
Groundwater Investigations	1,500.00
Postage	385.76
Retirement Fund (Federal)	1,501.69

Total

\$50,117.96

Expenditures from various funds

Waterusers Funds	
State of Idaho Stream Gaging Fund	\$30,561.67
U. S. Geological Survey	3,556.84
U. S. Bureau of Reclamation	11,977.06
	<u>4,022.39</u>
Total	\$50,117.96

In addition to the foregoing, upper valley members of the Committee of Nine were paid \$607.40 for services at \$10.00 per day, and expenses, which was pro-rated among upper valley canals.

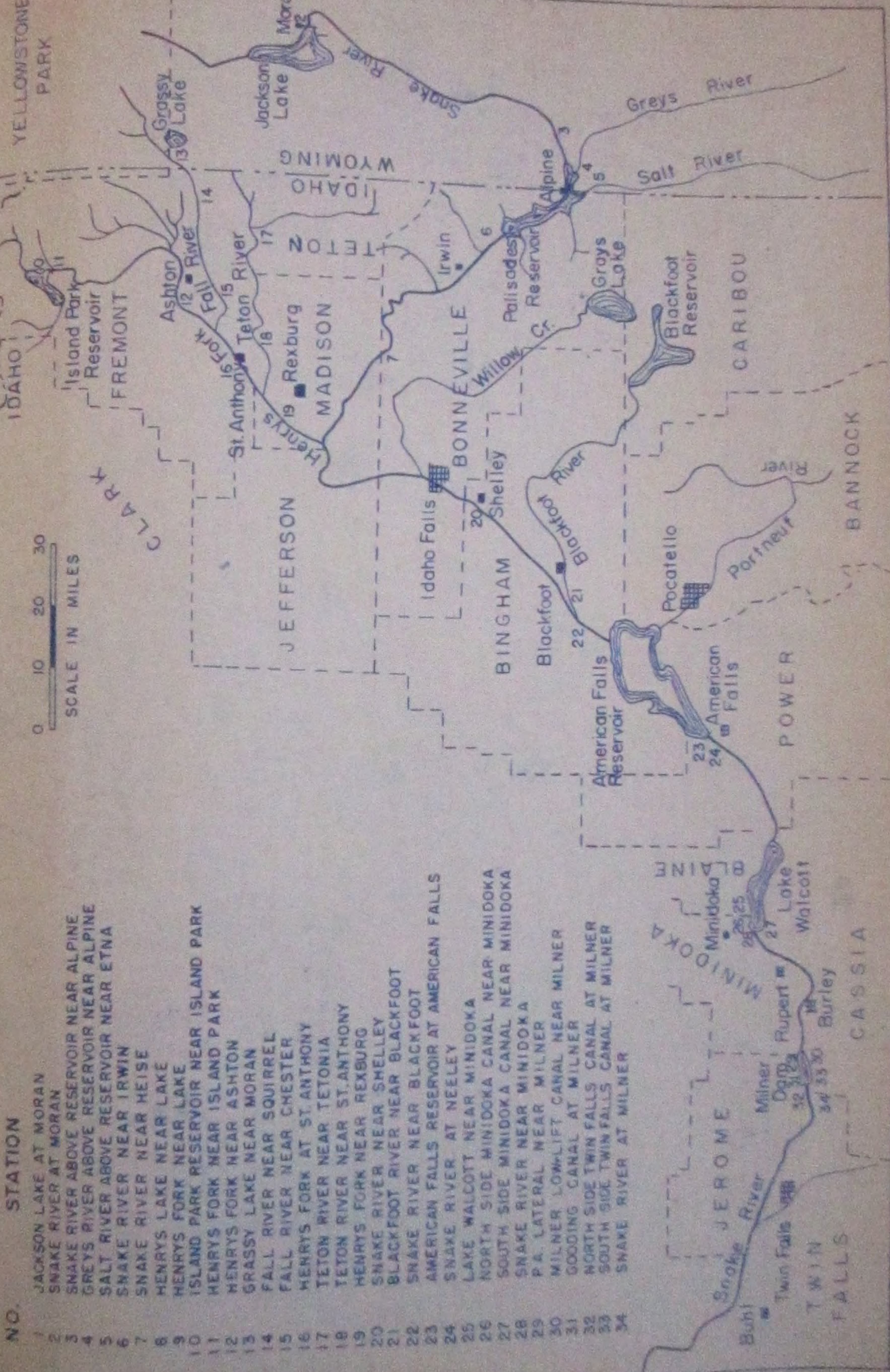
Funds on Hand January 1, 1959

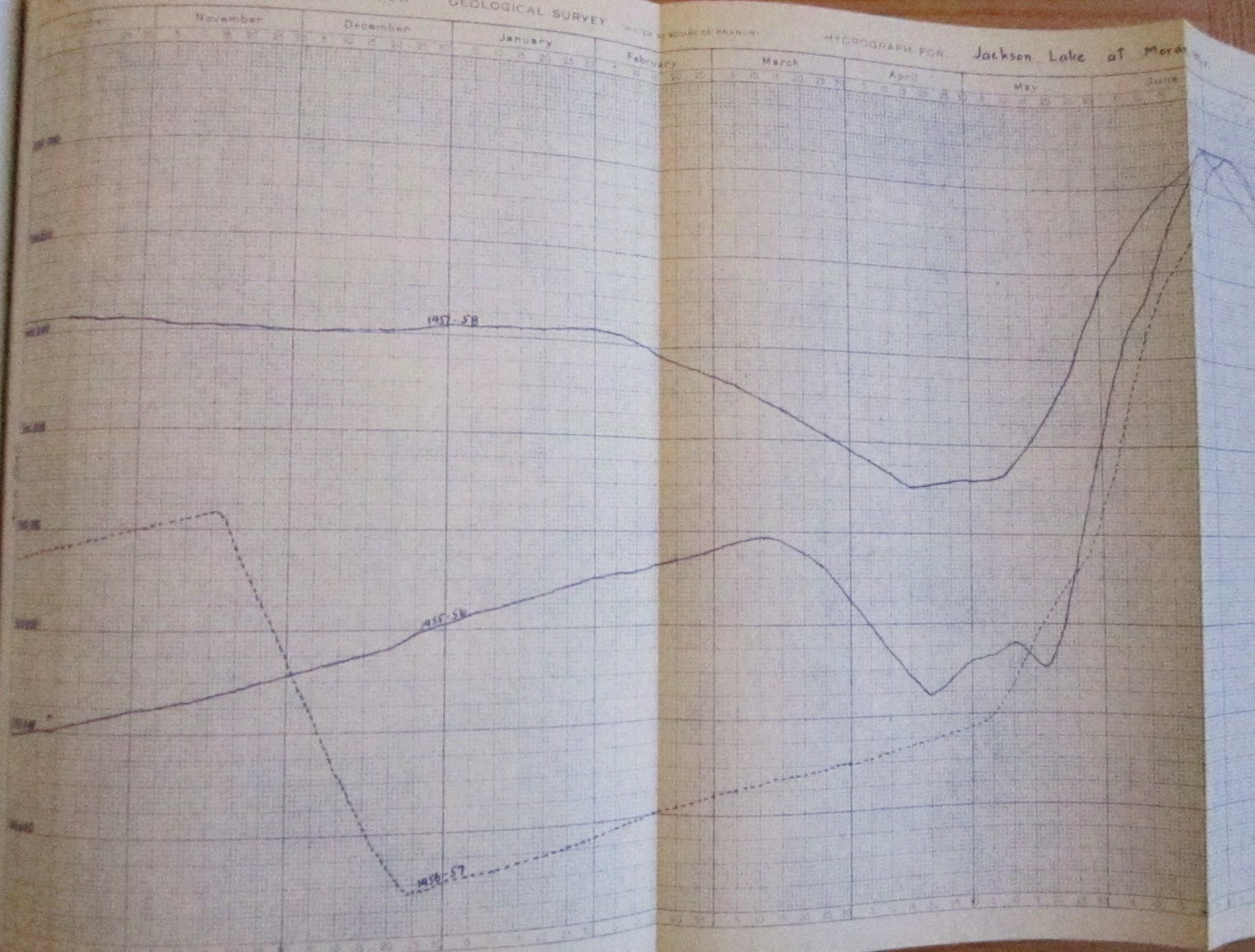
District 36 Waterusers Fund	\$ 8,516.97
State of Idaho Stream Gaging Fund	1,938.21
U. S. Geological Survey regular funds	6,353.53
U. S. Bureau of Reclamation funds	<u>2,177.80</u>
Total	\$18,986.51

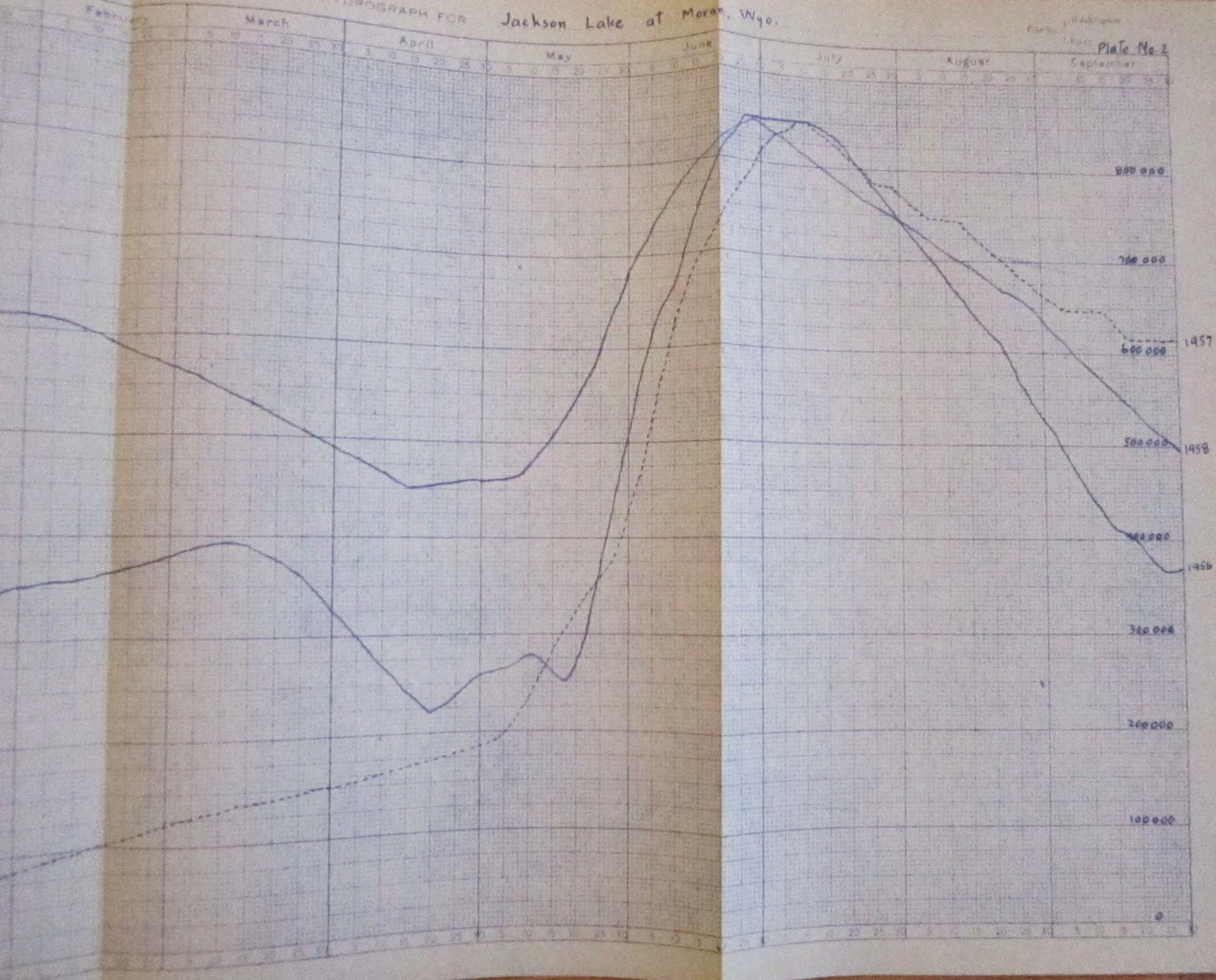
PRINCIPAL STREAMS AND GAGING STATIONS WATER DISTRICT NO. 36

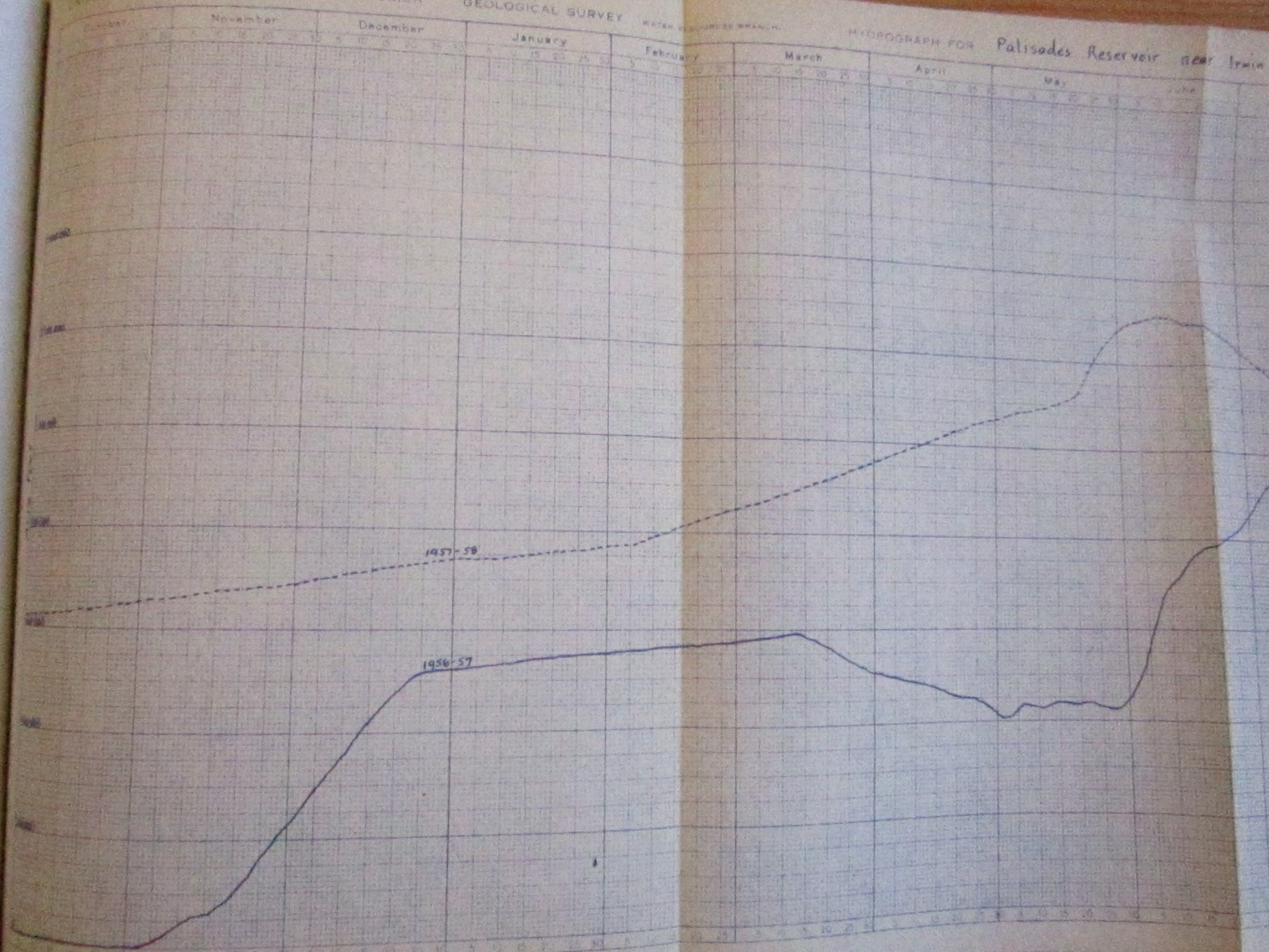
NO.	STATION
1	JACKSON LAKE AT MORAN
2	Snake River at MORAN
3	Snake River ABOVE RESERVOIR NEAR ALPINE
4	GREYS RIVER ABOVE RESERVOIR NEAR ALPINE
5	SALT RIVER ABOVE RESERVOIR NEAR ETNA
6	Snake River NEAR IRWIN
7	Snake River NEAR HEISE
8	HENRYS LAKE NEAR LAKE
9	HENRYS FORK NEAR LAKE
10	ISLAND PARK RESERVOIR NEAR ISLAND PARK
11	HENRYS FORK NEAR ASHTON
12	HENRYS FORK NEAR MORAN
13	GRASSY LAKE NEAR SQUIRREL
14	FALL RIVER NEAR CHESTER
15	HENRYS FORK AT ST. ANTHONY
16	TETON RIVER NEAR TETONIA
17	TETON RIVER NEAR ST. ANTHONY
18	HENRYS FORK NEAR REXBURG
19	Snake River NEAR SHELLEY
20	BLACKFOOT RIVER NEAR BLACKFOOT
21	Snake River NEAR BLACKFOOT
22	AMERICAN FALLS RESERVOIR AT AMERICAN FALLS
23	Snake River AT NEELEY
24	LAKE WALCOTT NEAR MINIDOKA
25	NORTH SIDE MINIDOKA CANAL NEAR MINIDOKA
26	SOUTH SIDE MINIDOKA CANAL NEAR MINIDOKA
27	Snake River NEAR MINIDOKA
28	P.A. LATERAL NEAR MILNER
29	MILNER LOW-LIFT CANAL NEAR MILNER
30	GOODING CANAL AT MILNER
31	NORTH SIDE TWIN FALLS CANAL AT MILNER
32	SOUTH SIDE TWIN FALLS CANAL AT MILNER
33	Snake River AT MILNER
34	

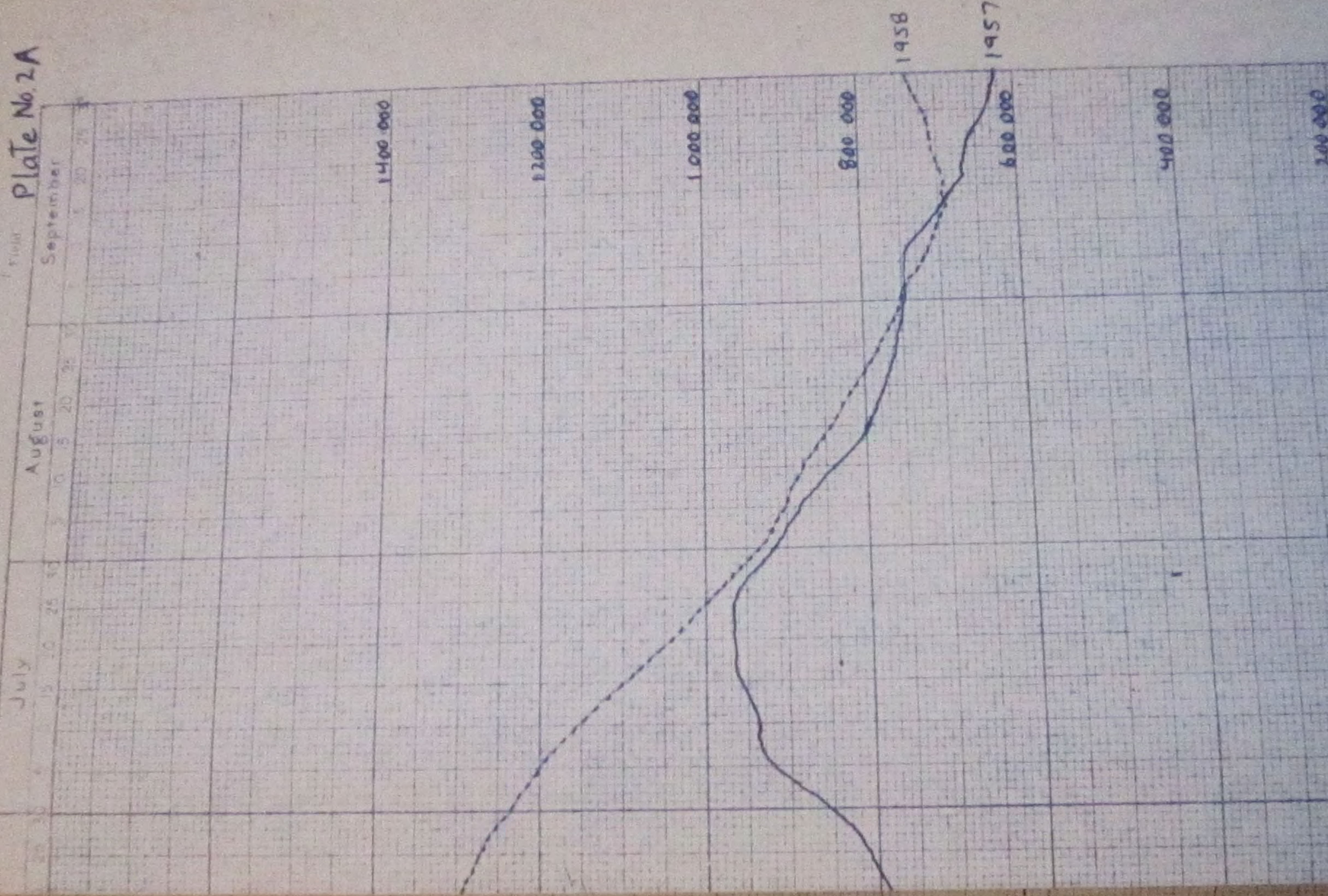
SCALE IN MILES
0 10 20 30

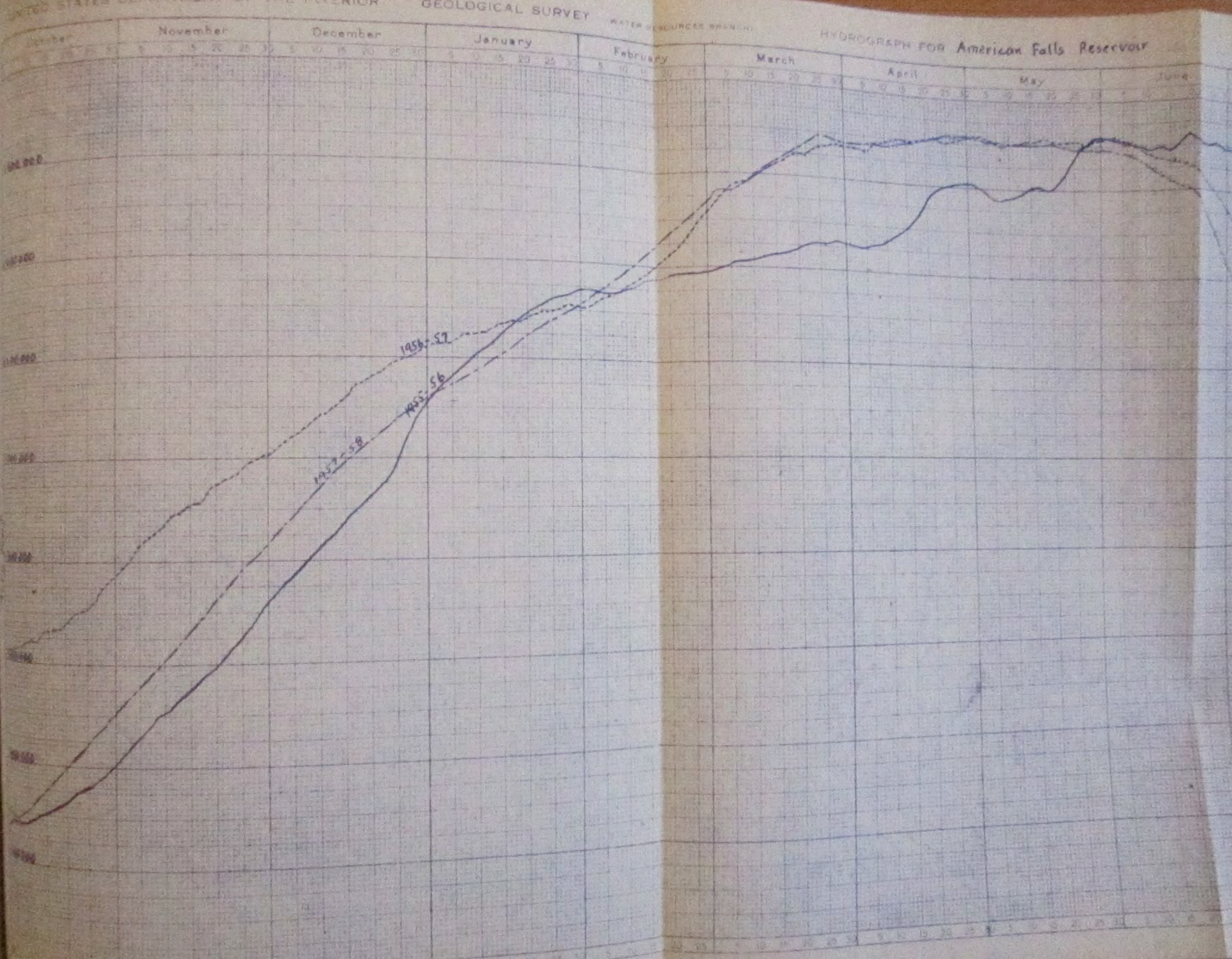






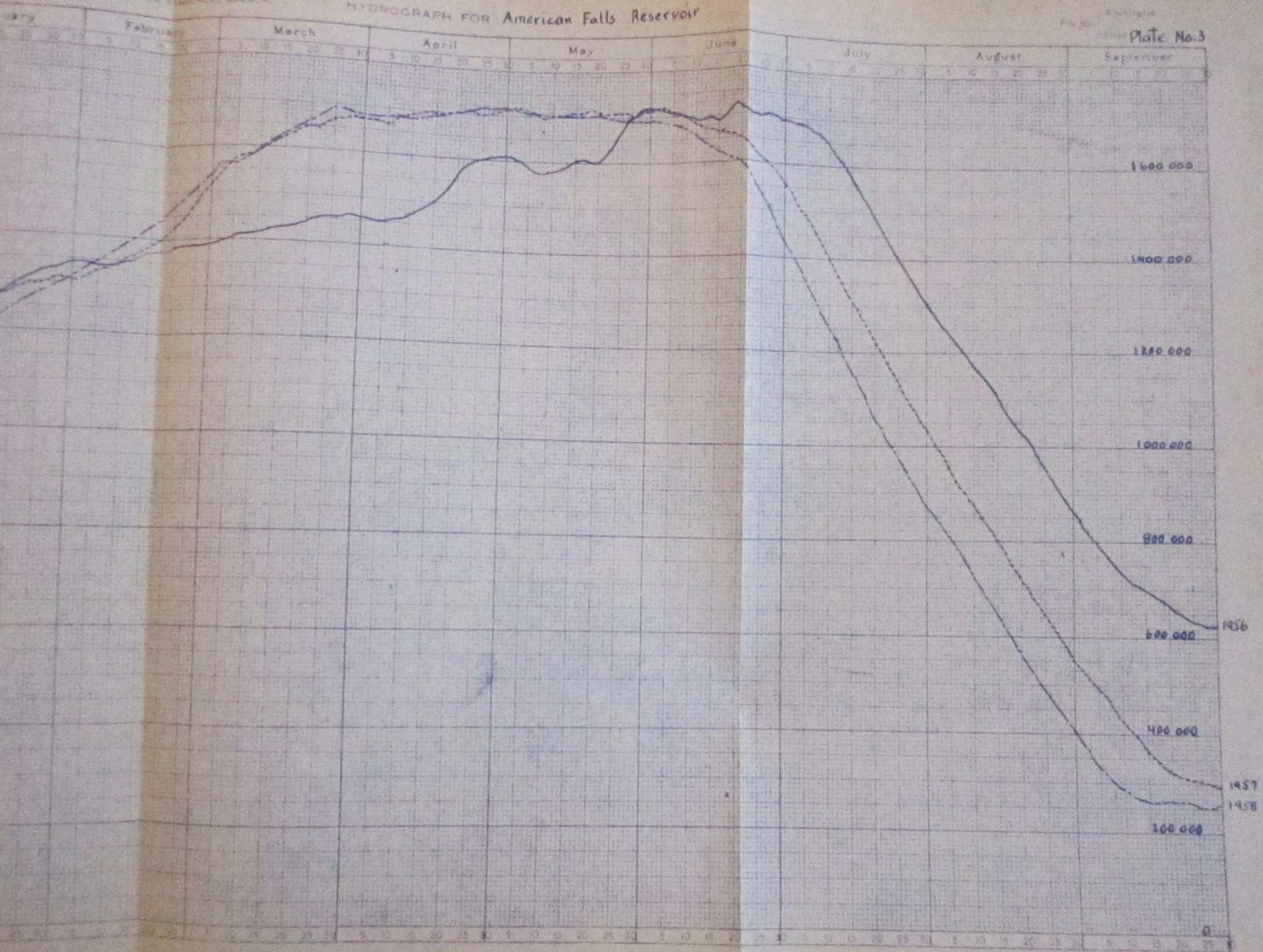




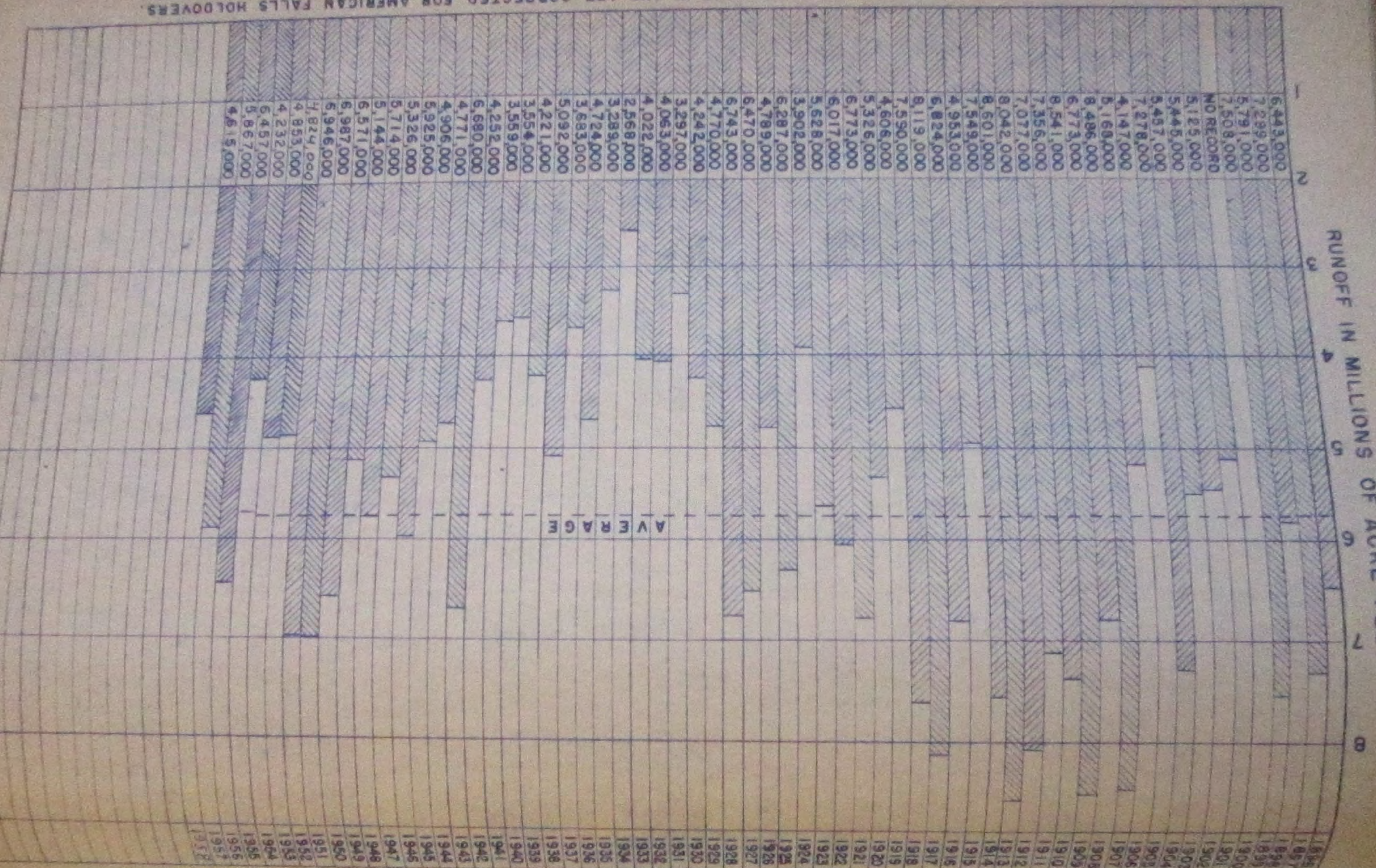


HYDROGRAPH FOR American Falls Reservoir

Plate No. 3

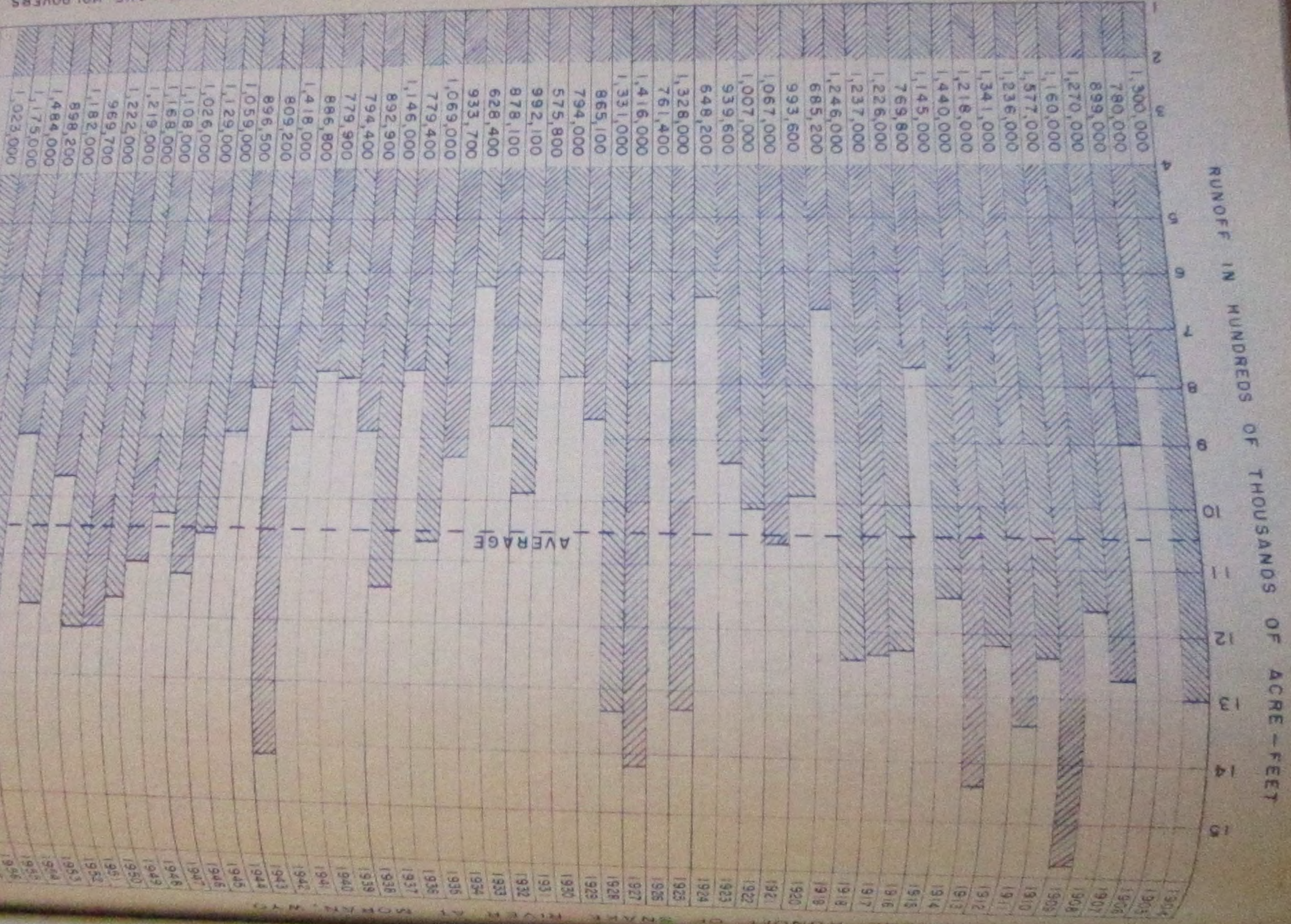


NOTE: RUNOFF TOTALS ARE FOR WATER YEAR ENDING SEPT 30 AND ARE CORRECTED FOR AMERICAN FALLS HOLDOVERS.
 RECORDS AT MONTGOMERY FERRY USED PRIOR TO 1907.



RUNOFF IN MILLIONS OF ACRE-FEET

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



[illegible]

[illegible]

TOTAL SHELLY TO BLACKFOOT
 PARSONS
 WALSON
 WEARYRICK
 TREGG
 DANSKIN
 RIVERSIDE
 NIELSEN-HANSEN
 CORBETT
 ABERDEEN
 PEOPLES
 NEW LAVA SIDE
 BLACKFOOT
 RESERVATION
 TOTAL HEISE TO SHELLY
 SNAKE RIVER VALLEY
 WOODVILLE
 COY & KELLER
 PORTER
 GREAT WESTERN
 DAHO
 KENNEDY
 EAR ISLAND & SMITH
 SGOOD
 UTTE & MARKET LAKE
 RAMWELL
 LILIS
 WHITE
 RTH RIGBY
 RKS & LEWISVILLE
 ST LABELLE & LONG ISLAND
 TS
 AND
 BY
 L PETTINGER
 SON COREY
 AS FEEDER
 FOOT
 YDELL
 LABELLE
 ER & JENNINGS
 K & EDWARDS
 ESS
 & NORD
 ER
 VEY
 RISON
 LE
 & RAND
 ER ISLAND
 SBERGER
 TSON-CRAIG
 SON
 TERPRISE
 RERS FRIEND
 OLD ROCK
 TONSON

[illegible]

[illegible]

[illegible]

INFLOW TO AMERICAN FALLS F

BETWEEN BLACKFOOT AND NEELEY STATION

24 HOUR SECOND - FEET

J U N E

JULY

[illegible]

81,249

80.381

LS RESERVOIR 1958

LEY STATIONS

EET

JULY

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1	293	293	293	293	293	293	293	293	293	294	295	296	297	298	299	300	301
2	453	453	453	452	452	452	451	451	451	452	453	454	455	456	458	459	460
3	123	123	124	124	124	124	125	125	125	125	126	127	128	129	130	130	131
4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7
5	26	26	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
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14	62	61	60	60	59	58	58	57	56	56	55	56	57	58	58	59	60
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18	35	30	25	25	25	25	25	25	25	23	24	22	25	25	20	20	20
19	14	14	14	14	14	14	14	14	15	14	14	14	15	15	15	16	16
20	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
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SEPTEMBER

SEPTEMBER																																																
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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	7	7	
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6	66	75	80	46	75	75	78	81	86	78	71	67	75	73	72	67	63	65	64	65	55	28	26	35	44	63	77	84	94	105	107	105	105	105	107	105	99	101	108	107	107	108	107	112	108	103	103	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	30	30	29	29	28	28	28	28	28	28	28	28	29	29	29	29	29	29	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	
0	40	59	59	58	58	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	4	4	4	4	5	5	6	6	6	7	7	8	8	8	9	9	9	10	10	11	11	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
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	1	
20	25	25	20	22	20	24	22	20	20	20	25	22	20	20	22	23	25	25	26	20	20	21	28	21	24	25	26	28	23	25	27	30	26	26	35	30	20	20	20	25	40	32	32	32	25	30	30	
5	14	14	13	13	12	11	12	12	13	14	14	14	14	14	14	14	15	15	15	16	16	17	17	17	18	17	18	18	17	18	18	17	19	18	17	18	17	17	17	17	17	18	19	19	17	16		
2	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	
6	5	0	0	0	1	3	0	0	0	0	2	0	6	5	2	2	2	1	0	0	0	0	2	8	2	5	16	3	0	1	11	1	0	4	15	0	0	13	12	13	13	4	4	8	23	12		
3	64	65	66	67	68	68	68	68	68	68	69	69	69	69	69	69	70	70	70	70	70	71	71	71	71	71	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	
2	2	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	
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
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	25	25	25	25	25	25	25	25	
1375	1388	1388	1357	1383	1387	1388	1391	1400	1395	1399	1393	1408	1407	1411	1409	1412	1415	1419	1418	1411	1390	1402	1413	1424	1449	1481	1480	1484	1499	1513	1503	1499	1502	1524	1503	1486	1501	1507	1512	1527	1512	1511	1521	1522	1513	1520		
1300	1300	1300	1300	1300	1300	1300	1300	1300	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1310	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	
2578	2583	2588	2657	2683	2687	2688	2701	2710	2709	2709	2703	2718	2717	2721	2719	2722	2726	2728	2728	2721	2700	2712	2723	2734	2759	2801	2800	2804	2819	2833	2823	2819	2828	2844	2923	2906	2821	2827	2838	2847	2858	2851	2841	2842	2833	2835		

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DAILY SEGREGATION OF D

DATE	JACKSON LAKE CONTENTS ACRE-FEET	SNAKE RIVER AT MORAN			STORED LOSS MORAN TO ALPINE	DATE	SNAKE RIVER NEAR ALPINE			PALISADES RESERVOIR CONTENTS ACRE-FEET	SNAKE RIVER NEAR IRWIN			IRWIN TO HEISE		HEISE & RILEY			STORED HEISE TO SHELBY		
		STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL		STORED	NORMAL	TOTAL	STORED LOSS	STORED OVERSHOTS	STORED	NORMAL	TOTAL	IN FLOW HENRY FORK	STORED LOSS	STORED OVER
JUNE 4	722,050					JUNE 5				1,299,000	0	13600	13600								
5	723,470					6				1,299,000	-1510	14510	13000	-12							
6	737,830					7				1,302,000	-2520	15020	12500	-20							
7	746,780	-507	684	177	-9	8	-498	10598	10100	1,307,000	-2008	13908	11800	-16		-1498	15525	14027		-73	
8	754,500	-769	946	177	-13	9	-756	10376	9620	1,310,000	-2266	14766	12500	-18		-2500	15828	13328		-122	
9	762,470	-2518	2695	177	-43	10	-2475	10715	8240	1,313,000	-2475	14975	12500	-20		-1992	14821	12829		-97	
10	766,940	-2729	2906	177	-47	11	-2682	9912	7230	1,313,000	-1172	13672	12500	-9		-2248	15477	13229		-109	
11	774,950	-371	548	177	-6	12	-365	7625	7260	1,310,000	1145	11255	12400	9		-2455	15684	13229		-119	
12	780,210	0	180	180	0	13	0	6890	6890	1,310,000	2020	10480	12500	16		-1163	14392	13229		-57	
13	786,480	0	180	180	0	14	0	6450	6450	1,304,000	2020	10480	12500	16		1136	12080	13216		55	73
14	791,750	-524	704	180	-9	15	-515	6685	6170	1,299,000	995	10905	11900	8		2004	11212	13216	-16	98	69
15	796,010	-2290	2470	180	-39	16	-2251	8251	6000	1,294,000	-1241	11741	10500	-10		2004	11212	13216	-40	98	13
16	800,560	-2420	2600	180	-41	17	-2379	8449	6070	1,293,000	-1875	11255	9380	-15		987	11829	12816	-40	48	12
17	805,360	-2290	2470	180	-39	18	-2251	8421	6170	1,293,000	-2251	11691	9440	-18		-1231	13048	11817	-28	-50	11
18	809,900	-2420	2603	183	-41	19	-2379	8909	6430	1,293,000	-2379	11819	9440	-19		-1860	12385	10525	-32	-91	7
19	814,700	-2304	2487	183	-39	20	-2265	8745	6480	1,293,000	-755	11355	10600	-6		-2233	12658	10425	-28	-108	9
20	819,250	-2294	2477	183	-39	21	-2255	8765	6510	1,290,000	400	11000	11400	3	5	-2360	12783	10423	-35	-115	11
21	823,820	-1921	2104	183	-33	22	-1888	8058	6170	1,287,000	500	10900	11400	4	5	-749	11572	10823	-24	-57	11
22	827,380	-1795	1978	183	-31	23	-1764	7634	5870	1,280,000	0	10800	10800	0	5	392	11737	12125	-7	19	23
23	830,680	-1795	1978	183	-31	24	-1764	7604	5840	1,277,000	-1	10701	10700	0	5	491	11639	12130	116	24	45
24	834,500	-1684	1847	183	-28	25	-1636	7236	5600	1,273,000	884	10216	11100	7	5	-5	11835	11830	194	0	47
25	838,060	-1548	1731	183	-26	26	-1522	6652	5140	1,268,000	1508	9592	11100	12	5	-6	11236	11230	151	0	51
26	841,120	-412	1598	186	-24	27	-1388	6178	4790	1,262,000	2142	8858	11000	17	5	872	10849	11721	209	43	5
27	843,920	-897	1315	418	-15	28	-882	5862	4380	1,255,000	3148	8652	11800	25	5	1491	10234	11725	352	73	8
28	845,700	-88	1228	1140	-1	29	-87	5547	5460	1,247,000	4386	8214	12600	35	5	2120	9505	11628	309	104	12
29	845,190	667	1223	1890	11	30	656	5214	5870	1,236,000	4744	7656	12400	38	5	3118	8808	11926	283	152	12
30	843,150	1032	1218	2250	18	JULY 1	1014	5006	6020	1,229,000	5053	7147	12200	40	10	4346	8680	13026	-4	213	13
JULY 1	840,610	1548	1092	2640	26	2	1522	4578	6100	1,222,000	5552	6548	12100	45	10	4701	8324	13025	105	230	13
2	837,810	1538	1092	2630	26	3	1512	4388	5900	1,214,000	4542	6958	11500	36	10	5003	7713	12716	223	245	17
3	834,760	1661	969	2630	28	4	1633	4207	5840	1,208,000	5066	6434	11500	41	10	5497	7119	12616	355	289	21
4	831,450	1664	966	2630	28	5	1636	4184	5820	1,201,000	5263	6337	11500	42	10	4496	7607	12103	529	220	2
5	828,650	1669	961	2630	28	6	1641	3979	5620	1,194,000	6300	6300	12600	50	10	5015	7095	12111	215	245	1
6	825,340	1669	961	2630	28	7	1641	3909	5550	1,183,000	6400	6200	12600	51	10	5211	6906	12117	-205	254	1
7	822,030	1669	961	2630	28	8	1641	3959	5600	1,173,000	6600	6100	12700	53	10	6240	6586	12826	-300	305	1
8	819,500	1674	946	2620	28	9	1646	3834	5480	1,165,000	6700	6000	12700	54	10	6339	6567	12926	-319	310	2
9	816,470	1674	946	2620	29	10	1645	3735	5380	1,155,000	6934	5766	12700	55	10	6537	6593	13130	-283	319	1
10	813,190	1669	941	2610	28	11	1641	3669	5310	1,145,000	7500	5500	13000	60	10	6636	6394	13030	-248	324	1
11	809,650	1674	926	2600	28	12	1646	3544	5190	1,133,000	7800	5400	13200	62	10	6869	6261	13130	-274	335	1
12	806,370	1717	883	2600	29	13	1688	3412	5100	1,124,000	7750	5350	13100	62	10	7430	6800	13230	-230	363	1
13	803,080	1739	861	2600	30	14	1709	3311	5020	1,110,000	7800	5300	13100	62	10	7728	5802	13530	-266	377	1
14	799,800	1760	830	2580	30	15	1720	3230	4950	1,097,000	7784	5216	13000	62	10	7678	5752	13430	-174	375	1
15	796,010	1770	800	2570	30	16	1740	3140	4880	1,085,000	7500	5200	12700	60	10	7728	5702	13430	-108	377	1
16	792,750	1770	800	2570	30	17	1740	3080	4820	1,074,000	7100	5100	12200	57	10	7712	5718	13430	-32	376	1
17	789,240	1790	780	2570	31	18	1760	3010	4770	1,064,000	7080	5020	12100	57	10	7430	5899	13329	-339	363	1
18	785,230	1790	780	2570	31	19	1759	2991	4750	1,052,000	7060	4940	12000	57	10	7033	5694	12727	-812	343	1
19	781,720	1790	770	2560	30	20	1760	2960	4720	1,041,000	6739	4861	11600	54	10	7013	5717	12730	-615	343	1
20	778,210	1800	760	2560	31	21	1769	2951	4720	1,032,000	7100	4800	11900	57	10	6993	5536	12529	-507	341	1
21	774,700	1800	760	2560	31	22	1769	2951	4720	1,022,000	6650	4750	11400	53	10	6675	5554	12229	-456	326	1
22	771,180	1810	750	2560	31	23	1779	2851	4630	1,012,000	6500	4700	11200	52	10	7033	5493	12526	-486	343	1
23	767,450	1800	750	2550	31	24	1769	2841	4610	1,000,000	6650	4650	11300	53	10	6587	5639	12226	-411	322	1
24	763,950	1710	750	2460	29	25	1681	2839	4520	991,000	6700	4600	11300	53	10	6438	5488	11928	-401	315	1
25	760,980	1540	740	2280	26	26	1514	3006	4520	981,000	6660	4540	11200	49	10	6587	5539	12126	-428	322	1
26	757,990	1496	784	2280	25	27	1471	3119	4590	972,000	6120	4480	10600	49	10	6597	5333	11930	-506	322	1
27	755,506	1500	780	2280	25	28	1475	2955	4430	963,000	6270	4430	10700	48	10	6061	5368	11429	-555	296	1
28	752,610	1490	780	2270	25	29	1465	2875	4360	953,000	6020	4380	10400	48	10	6210	5219	11429	-595	303	1
29	748,280	1450	800	2260	25	30	1435	2925	4360	944,000	5951	4349	10300	48	10	8962	5168	11128	-675	281	1
30	746,040	1510	750	2260	26	31	1484	3056	4540	934,000	5460	4300	9760	44	10	5893	5135	11028	-584	288	1
AUG 1	743,320	1610	650	2260	27	AUG 1	1583	2777	4360	928,000	4770	4200	8970	38	15	5406	5120	10526	-451	264	1
2	739,660	1650	600	2250	28	2	1622	2638	4260	922,000	4600	4100	8700	37	15	4717	5176	9853	-412	230	1
3	736,890	1700	550	2250	29	3	1671	2519	4190	917,000	4610	4000	8610	37	15	4548	4731	9279	-448	222	1

OF DATA AT AND BETWEEN SNAKE RIVER GAGING

24 HOUR SECOND-FOOT EXCEPT AS NOTED

NEAR SHELLEY				SHELLEY TO BLACKFOOT				SNAKE RIVER NEAR BLACKFOOT				BLACKFOOT TO WEELEY				AMERICAN FALLS RESERVOIR CONTENTS			
DATE	STORAGE	LOSS	DIVERSIONS	DATE	STORAGE	LOSS	DIVERSIONS	DATE	STORAGE	LOSS	DIVERSIONS	DATE	STORAGE	LOSS	DIVERSIONS	DATE	STORAGE	LOSS	DIVERSIONS
JUNE 5								JUNE 7								JUNE 8			
7	-1425	10895	9470	-85				79	0	6500	6500	2673	28			1,671,000	1327	317	1556
8	-2378	10858	8480	-143				57	-1340	6500	5160	2664	27			1,664,000	1138	916	1556
9	-1895	9825	7730	-114				33	-2235	6735	4500	2658	27			1,659,000	1196	843	1556
10	-2139	9529	7390	-128				34	-1781	5661	3880	2679	27			1,651,000	2360	816	1556
11	-2336	9236	6900	-140				41	-2011	5461	3450	2659	27			1,642,000	2590	790	1556
12	-1106	7946	6440	-66	186			49	-2196	5156	2960	2744	27			1,632,000	2400	758	1556
13	349	6581	6930	21	121			64	-1226	4816	3590	2773	27			1,624,000	2021	757	1556
14	1171	7039	8210	70	100			96	207	4753	4960	2820	27			1,620,000	1657	743	1556
15	1729	7561	9290	104	9			138	1001	5589	6580	2862	27			1,619,000	729	843	1556
16	779	8371	9150	47	0			152	1616	5664	7280	2859	27			1,617,000	1237	852	1556
17	-1310	9080	7770	-79	0			174	732	5578	6310	2862	27			1,615,000	2460	844	1556
18	-1876	8316	6440	-112	0			133	-1231	5751	4520	2843	27			1,610,000	2908	859	1556
19	-2241	7911	5670	-134	5			99	-1764	5034	3270	2816	27			1,600,000	3750	785	1556
20	-2392	7582	5190	-148	81			82	-2112	4302	2190	2786	27			1,588,000	4612	708	1556
21	-853	6483	5630	-59	133			69	-2325	3945	1620	2716	29			1,573,000	5539	666	1556
22	70	6270	6340	-12	269			82	-927	3127	2200	2690	30			1,558,000	6583	581	1556
23	91	6149	6240	-11	269			81	-167	2717	2530	2666	32			1,540,000	7017	538	1556
24	-290	5760	5470	-39	362			80	-167	2227	2060	2648	33			1,525,000	7725	483	1556
25	-372	5462	5090	-45	383			32	-613	1933	1320	2655	34			1,510,000	8412	458	1556
26	401	5039	5440	-2	436			23	-710	1940	1230	2656	35			1,492,000	8604	459	1556
27	898	4322	5220	29	455			20	-33	1423	1390	2633	41			1,470,000	9138	406	1556
28	1087	3623	4710	39	435			20	414	646	1060	2580	42			1,452,000	9374	323	1556
29	1957	2923	4880	93	408			26	610	226	836	2579	42			1,433,000	9355	280	1556
30	2767	2613	5380	141	419			43	1107	243	1350	2578	41			1,417,000	9379	282	1556
JULY 1	3216	1934	5150	167	427			40	1190	240	1430	2583	40			1,400,000	9577	282	1556
2	3382	1378	4760	180	376			28	792	226	1020	2582	40			1,381,000	9890	280	1556
3	3523	1357	4880	190	352			42	634	242	876	2579	40			1,364,000	9979	282	1556
4	2615	2505	5120	134	385			51	919	251	1170	2587	40			1,346,000	9962	283	1556
5	3021	2199	5220	137	730			49	991	249	1240	2594	40			1,327,000	9857	284	1556
6	2850	2400	5250	89	1367			48	1042	248	1290	2617	40			1,310,000	9835	286	1556
7	3688	1432	5120	125	1599			33	1137	233	1370	2612	41			1,292,000	9855	284	1556
8	2890	1930	4820	73	1675			18	502	218	1020	2617	41			1,273,000	9865	285	1556
9	2796	2024	4820	64	1726			20	600	220	820	2601	38			1,253,000	9879	282	1556
10	3008	1672	4680	70	1837			22	542	222	764	2596	37			1,235,000	9880	2820	1556
11	3048	1472	4520	73	1837			19	427	219	646	2596	37			1,215,000	9785	2813	1556
12	3522	1028	4550	81	2171			16	306	216	522	2604	36			1,191,000	9780	2620	1556
13	3739	1081	4820	95	2153			19	333	219	552	2590	40			1,174,000	9991	2803	1556
14	4039	1151	5190	100	2179			20	811	220	1030	2593	36			1,158,000	9987	2815	1556
15	4120	850	4970	108	2148			10	810	210	1020	2593	36			1,139,000	9997	2800	1556
16	3937	913	4850	81	2594			5	695	205	900	2593	36			1,120,000	10402	2792	1556
17	3375	1505	4880	49	2564			4	600	204	804	2593	37			1,098,000	11103	2791	1556
18	2851	1699	4550	32	2308			16	794	216	1010	2575	38			1,078,000	10209	279	1556
19	2976	1494	4470	43	2264			41	799	241	1040	2571	40			1,059,000	9488	2812	1556
20	3066	1694	4760	52	2193			46	874	246	1120	2553	40			1,042,000	9401	2794	1556
21	3406	1884	5060	71	2220			40	1310	240	1550	2580	36			1,025,000	9280	2820	1556
22	3226	1454	4680	62	2185			14	1166	214	1400	2575	36			1,007,000	9411	2786	1556
23	2541	1819	4360	21	2189			20	900	220	1120	2575	36			990,000	9505	279	1556
24	2136	2174	4310	-1	2149			18	602	218	820	2589	36			973,000	9593	280	1556
25	2376	2094	4470	16	2115			25	775	225	1000	2568	37			955,000	9607	279	1556
26	2348	2222	4570	20	2008			23	877	223	1100	2592	40			939,000	9685	2810	1556
27	2867	2253	5120	56	1937			30	1290	230	1520	2594	40			922,000	9576	282	1556
28	3192	1898	5090	78	1883			29	1771	229	2000	2610	38			904,000	9361	282	1556
29	2598	1664	4260	43	1882			29	1331	229	1560	2601	37			888,000	9170	283	1556
30	2258	2004	4260	24	1865			15	875	215	1090	2614	37			873,000	9771	283	1556
AUG 1	2410	2530	4940	39	1766			23	1317	223	1540	2652	35			859,000	9325	282	1556
2	2218	2572	4790	32	1679			55	1805	255	2060	2658	32			846,000	8187	287	1556
3	2187	2233	4420	32	1657			26	1604	228	1830	2652	32			832,000	8522	287	1556
4	2604	1946	4550	69	1455			16	1472	218	1690	2668	32			818,000	8814	288	1556
5	3024	1496	4520	101	1337			26	2054	226	2280	2673	30			805,000	8801	289	1556
								23	1597	223	1820	2667	30			791,000	9110	289	1556

NG STATIONS

1958

RIVER KEY	LAKES WALCOTT CONTENTS ACRE-FOOT	MINIDOKA CANALS				SNAKE RIVER NEAR MINIDOKA				DATE	MILNER LAKE GAGE FEET	MINIDOKA NORTH SIDE PUMP STORED	MINOR DIVERSIONS MINIDOKA TO MILNER STORED	GOODING PROJECT			NORTH SIDE CANAL COMPT					
		NORTH	SOUTH	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL					STORED	NORMAL	TOTAL	P. A.	GOODING	MAIN	TOTAL	STORED	
1	10500	95,670	1060	1060	2120	0	2120	1437	7053	8490	JUNE 9	10.92	179		1282	229	1510	70	990	2460	3520	
2	10300	95,430	1130	1060	2190	0	2190	1466	6974	8440	10	10.99	189		1324	176	1500	63	990	2450	3503	
3	10600	95,310	1210	1060	2270	0	2270	1276	7134	8410	11	10.92	204	2	1204	286	1490	63	970	2510	3543	
4	10700	95,430	1280	1060	2340	0	2340	2490	6000	8490	12	11.02	204	2	1530	0	1530	63	990	2380	3433	43
5	10700	95,180	1260	1010	2270	0	2270	2490	5890	8380	13	11.04	204	2	1540	0	1540	63	980	2260	3303	30
6	10300	95,670	1090	970	2060	0	2060	2230	5840	8070	14	11.02	204		1540	0	1540	63	970	2270	3303	30
7	9610	96,390	868	871	1739	0	1739	2050	5850	7900	15	11.00	204		1540	0	1540	63	970	2290	3312	30
8	9230	95,910	965	758	1723	0	1723	1990	5850	7840	16	10.96	204		1540	0	1540	52	970	2280	3302	30
9	9180	95,550	1040	802	1842	0	1842	1181	6609	7790	17	10.83	211		1314	216	1530	58	950	2270	3278	
10	9760	94,490	1250	886	2136	0	2136	1573	6387	7960	18	10.78	228		1530	0	1530	68	950	2290	3308	8
11	10900	94,280	1420	1020	2440	0	2440	2460	6000	8460	19	10.98	228		1550	0	1550	68	930	2510	3528	528
12	11500	94,250	1450	1200	2650	56	2594	2930	6000	8930	20	11.04	215	2	1560	0	1560	68	940	2640	3648	648
13	11600	94,020	1610	1300	2910	1060	1850	2960	6000	8960	21	11.04	215	2	1560	0	1560	68	940	2640	3648	648
14	11700	93,320	1740	1340	3080	1354	1726	3508	5362	8870	22	10.95	242	2	1550	0	1550	68	930	2650	3648	1288
15	12200	93,320	1760	1340	3100	1374	1726	3965	4935	8900	23	10.90	247	2	1550	0	1550	61	930	2650	3641	1701
16	12400	94,250	1760	1320	3080	1354	1726	5079	4091	9170	24	10.90	257		1560	0	1560	61	930	2680	3671	2580
17	12400	92,860	1760	1310	3070	1344	1726	6043	3657	9700	25	11.01	262		1590	0	1590	61	970	2720	3751	3094
18	12600	92,390	1750	1300	3050	1575	1475	8560	3400	9960	26	11.06	267		1590	0	1590	63	980	2740	3783	3383
19	13000	92,970	1750	1300	3050	1862	1188	6370	3400	9770	27	10.98	267		1570	0	1570	66	950	2760	3776	3376
20	13200	93,200	1760	1310	3070	1874	1196	6140	3400	9540	28	11.02	267	2	1570	0	1570	70	960	2820	3850	3490
21	12600	93,900	1760	1310	3070	3070	0	6444	3226	9670	29	10.98	267	2	1560	0	1560	70	970	2800	3840	3440
22	12200	94,020	1760	1290	3050	3050	0	6645	2805	9450	30	10.98	267	2	1590	0	1590	70	960	2800	3830	3430
23	12200	93,790	1760	1280	3040	3040	0	6539	2821	9360	JULY 1	10.91	267		1600	0	1600	70	960	2800	3830	3430
24	12400	92,390	1750	1260	3010	3010	0	6787	2823	9610	2	10.78	267		1600	0	1600	70	960	2820	3850	3510
25	12700	92,160	1750	1240	2990	2990	0	6760	2810	9570	3	10.83	267		1600	0	1600	70	960	2820	3850	3510
26	12800	92,860	1760	1250	3010	3010	0	6689	2821	9510	4	10.96	267	2	1620	0	1620	70	960	2840	3870	3530
27	12800	93,790	1730	1240	2970	2970	0	6522	2838	9360	5	11.04	267	2	1620	0	1620	70	970	2830	3870	3530
28	12700	94,490	1710	1230	2940	2940	0	6447	2843	9290	6	11.01	267	2	1600	0	1600	70	960	2860	3890	3550
29	12700	94,720	1710	1220	2930	2930	0	6585	2865	9450	7	10.95	267	2	1590	0	1590	70	960	2890	3920	3580
30	12700	95,430	1750	1230	2980	2980	0	6795	2845	9640	8	10.98	267	2	1580	0	1580	70	960	2900	3930	3590
31	12700	95,790	1760	1150	2910	2910	0	6895	2835	9730	9	11.00	267		1600	0	1600	70	970	2930	3970	3630
32	12700	95,670	1760	1350	3110	3110	0	6659	2821	9480	10	11.04	267		1600	0	1600	71	960	2980	4011	3670
33	12700	95,550	1750	1350	3100	3100	0	6880	2820	9700	11	11.00	267		1600	0	1600	71	960	2990	4021	3680
34	12600	94,250	1750	1350	3100	3100	0	6955	2815	9770	12	11.00	267		1600	0	1600	70	930	2980	3980	3640
35	12600	92,390	1750	1350	3100	3100	0	7110	2820	9930	13	10.91	267	2	1600	0	1600	71	920	2960	3951	3610
36	12800	9																				

DATE	MILNER LAKE GAGE FEET	MINIDOKA NORTH SIDE PUMP STORED	MINOR DIVERSIONS MINIDOKA TO MILNER STORED	GOODING PROJECT			NORTH SIDE CANAL COMPANY				TWIN FALLS CANAL COMPANY			MILNER LOW LIFT			SNAKE RIVER AT MILNER				
				STORED	NORMAL	TOTAL	P. A.	GOODING	MAIN	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL		
1490	JUNE 10 92	179		1282	228	1510	70	990	2460	3520	0	3520	0	3170	3170	99	135	234	88	0	188
1440	10 99	189	2	1324	176	1500	63	990	2450	3503	0	3503	0	3160	3160	72	135	207	194	0	194
1410	11 02	204	2	1204	286	1490	63	970	2510	3543	433	3000	0	3170	3170	72	135	207	198	0	198
1490	11 02	204	2	1530	0	1530	63	990	2380	3433	303	3000	80	3000	3080	207	0	207	274	0	274
1380	11 04	204	2	1540	0	1540	63	980	2260	3303	303	3000	0	2890	2890	181	0	181	554	0	554
1070	11 02	204		1540	0	1540	63	970	2270	3303	312	3000	0	2840	2840	184	0	184	442	0	442
900	11 09	204		1540	0	1540	52	970	2290	3312	302	3000	0	2850	2850	184	0	184	214	0	214
840	10 96	204		1540	0	1540	52	970	2280	3302	0	3000	0	2850	2850	183	0	183	202	0	202
790	10 93	211		1314	216	1530	58	950	2270	3278	81	3227	0	2980	2980	48	135	183	200	0	200
650	10 78	228		1530	0	1530	68	950	2290	3308	528	3000	340	3160	3160	183	0	183	200	0	200
600	10 98	228		1550	0	1550	68	950	2510	3528	648	3000	370	3000	3340	183	0	183	212	0	212
930	11 04	215	2	1560	0	1560	68	940	2640	3648	648	3000	340	3000	3370	183	0	183	251	0	251
960	11 04	215	2	1560	0	1560	68	940	2640	3648	1286	2362	400	3000	3340	183	0	183	228	0	228
870	10 95	242	2	1550	0	1550	61	930	2650	3641	1706	1935	440	3000	3440	206	0	206	209	0	209
900	10 90	247	2	1550	0	1550	61	930	2650	3641	2580	1091	540	3000	3540	213	0	213	196	0	196
170	11 01	257		1560	0	1560	61	930	2680	3671	3094	657	590	3000	3540	213	0	213	214	0	214
700	11 01	262		1590	0	1590	61	970	2720	3751	3383	400	560	3000	3590	213	0	213	269	0	269
960	11 06	267		1590	0	1590	63	980	2740	3783	3376	400	540	3000	3560	213	0	213	588	0	588
770	10 98	267		1570	0	1570	66	950	2760	3776	3450	400	540	3000	3540	213	0	213	327	0	327
540	11 02	267	2	1570	0	1570	70	960	2820	3850	3440	400	580	3000	3580	213	0	213	212	0	212
860	10 96	267	2	1560	0	1560	70	970	2800	3840	3440	400	560	3000	3580	231	0	231	221	0	221
670	10 98	267	2	1590	0	1590	70	960	2800	3830	3450	380	714	2846	3560	223	0	223	209	0	209
450	JULY 10 91	267		1600	0	1600	70	960	2800	3830	3500	330	1095	2475	3570	225	0	225	205	0	205
360	10 79	267		1600	0	1600	70	960	2820	3850	3518	332	1091	2489	3580	225	0	225	202	0	202
510	10 83	267		1600	0	1600	70	960	2830	3860	3523	332	1089	2491	3580	225	0	225	207	0	207
570	10 96	267	2	1620	0	1620	70	960	2840	3870	3539	331	1101	2479	3580	225	0	225	218	0	218
510	11 04	267	2	1620	0	1620	70	970	2830	3870	3538	332	1091	2489	3580	225	0	225	253	0	253
160	11 01	267	2	1600	0	1600	70	960	2860	3890	3556	334	1096	2504	3600	233	0	233	226	0	226
190	10 95	267	2	1590	0	1590	70	960	2890	3920	3585	335	1142	2508	3650	233	0	233	207	0	207
150	10 98	267	2	1580	0	1580	70	960	2900	3930	3593	337	1162	2528	3690	233	0	233	207	0	207
540	11 00	267		1600	0	1600	70	970	2930	3970	3635	335	1210	2510	3720	251	0	251	228	0	228
730	11 04	267		1600	0	1600	71	960	2980	4011	3677	334	1209	2501	3710	251	0	251	251	0	251
180	11 00	267		1600	0	1600	71	960	2990	4021	3689	332	1221	2489	3710	251	0	251	218	0	218
700	11 00	267		1600	0	1600	70	930	2980	3980	3648	332	1222	2488	3710	251	0	251	212	0	212
790	10 91	267	2	1600	0	1600	71	920	2960	3951	3619	332	1227	2483	3710	251	0	251	205	0	205
1930	11 02	267	2	1610	0	1610	71	940	2980	3991	3659	332	1232	2488	3720	264	0	264	218	0	218
1570	11 02	267	2	1610	0	1610	71	960	2970	4001	3670	331	1232	2478	3710	264	0	264	223	0	223
1510	11 01	267	2	1610	0	1610	71	960	2960	3991	3660	331	1218	2482	3700	264	0	264	214	0	214
1540	11 01	267	2	1620	0	1620	71	960	2960	3991	3661	330	1217	2473	3690	264	0	264	216	0	216
130	10 97	267	2	1610	0	1610	71	960	2960	3991	3662	329	1281	2469	3750	264	0	264	212	0	212
130	11 00	267		1620	0	1620	71	970	2980	4021	3692	329	1262	2488	3730	264	0	264	214	0	214
1560	11 03	267		1620	0	1620	71	970	2980	4021	3693	328	1237	2463	3700	264	0	264	223	0	223
1570	11 04	267		1620	0	1620	71	960	2970	4001	3670	331	1219	2481	3700	264	0	264	226	0	226
1480	11 01	267		1610	0	1610	71	950	2960	3981	3651	3									

DAILY SEGREGATION 0

JACKSON LAKE					SNAKE RIVER AT MORAN					SNAKE RIVER NEAR ALPINE					PALISADES RESERVOIR					SNAKE RIVER NEAR IRWIN					IRWIN TO HEISE					HEISE & RILEY					STORIED LOSS				
DATE	CONTENTS	ACRE-FOOT	STORIED	NORMAL	TOTAL	STORIED MORAN TO ALPINE	DATE	STORIED	NORMAL	TOTAL	ACRE-FOOT	STORIED	NORMAL	TOTAL	STORIED	NORMAL	TOTAL	STORIED LOSS	STORIED DIVERSIONS	STORIED	NORMAL	TOTAL	STORIED	NORMAL	TOTAL	STORIED	NORMAL	TOTAL	STORIED	NORMAL	TOTAL								
AUG 3	733,680	1710	540	2250	29	AUG 4	1681	2429	4110	911,000	4030	3900	7930	32	15	3963	4704	8667	-407																				
4	729,970	1720	520	2240	29	5	1691	2339	4030	904,000	3848	3802	7650	31	15	3802	4433	8235	-850																				
5	726,750	1740	500	2240	30	6	1710	2250	3960	901,000	3684	3786	7680	31	15	3638	4405	8243	-684																				
6	723,230	1730	500	2230	29	7	1701	2219	3920	898,000	4550	3700	8250	36	15	4499	3954	8453	-761																				
7	719,840	1730	500	2230	29	8	1701	2179	3880	891,000	5050	3650	8700	36	15	4995	4388	9383	-637																				
8	716,650	1720	500	2220	29	9	1691	2149	3840	884,000	4140	3600	7740	40	15	4995	4388	9383	-529																				
9	713,210	1720	490	2210	29	10	1691	2109	3800	879,000	4450	3500	7950	33	15	4092	4385	8457	-463																				
10	709,770	1720	480	2200	29	11	1691	2089	3780	874,000	5290	3450	8740	36	15	4409	3888	8297	-353																				
11	706,580	1720	480	2200	29	12	1691	2069	3760	866,000	4880	3400	8280	42	15	5233	3788	9021	-401																				
12	703,390	1720	480	2200	29	13	1691	2029	3720	861,000	5000	3350	8350	39	15	4826	4164	8990	-437																				
13	699,210	1710	480	2190	29	14	1681	1999	3680	853,000	5500	3300	8800	40	15	4945	3582	8527	-389																				
14	696,270	1710	480	2190	29	15	1681	1959	3640	845,000	5395	3245	8640	46	15	5440	3680	9120	-191																				
15	693,100	1700	480	2180	29	16	1671	1949	3620	839,000	4200	3200	7400	43	15	5337	3843	9180	-321																				
16	689,440	1690	480	2170	29	17	1661	1979	3640	834,000	4360	3170	7530	34	15	4151	3981	8132	-230																				
17	686,030	1690	480	2170	29	18	1661	1979	3640	828,000	5470	3140	8610	35	15	4310	3668	7978	-274																				
18	683,350	1690	480	2170	29	19	1661	1959	3620	820,000	5330	3110	8440	44	15	5411	3580	8991	-235																				
19	679,940	1690	480	2170	29	20	1661	1939	3600	814,000	5105	3085	8190	43	15	5272	3809	9081	-237																				
20	675,280	1680	480	2160	29	21	1651	1949	3600	807,000	5190	3090	8280	41	15	5049	3640	8689	-301																				
21	672,860	1680	480	2160	29	22	1651	1969	3620	800,000	5160	3090	8250	42	15	5133	3626	8759	-259																				
22	670,440	1680	480	2160	28	23	1651	1929	3580	793,000	4130	3090	7220	41	15	5104	3816	8920	-268																				
23	667,050	1670	480	2150	28	24	1642	1918	3560	788,000	4290	3080	7370	33	15	4082	3925	8007	-31																				
24	664,390	1670	480	2150	28	25	1642	1858	3500	784,000	5150	3070	8220	34	15	4241	3582	7823	-99																				
25	661,000	1660	480	2140	28	26	1632	1828	3460	776,000	4763	3047	7810	41	15	5094	3462	8556	-179																				
26	657,360	1650	480	2130	26	27	1622	1798	3420	770,000	4820	3020	7840	38	15	4710	3714	8424	-119																				
27	653,970	1540	480	2020	34	28	1514	1706	3220	764,000	4800	3010	7810	39	15	4766	3560	8326	-115																				
28	651,310	2010	480	2490	44	29	1976	1944	3920	757,000	4670	3010	7680	38	15	4747	3549	8296	-202																				
29	646,240	2560	480	3040	44	30	2516	1744	4260	753,000	3620	3010	6630	37	15	4618	3680	8298	-261																				
30	640,470	2560	480	3040	43	31	2516	1744	4240	750,000	3680	3010	6690	29	15	3576	3806	7382	-216																				
SEPT 1	635,660	2540	480	3020	43	2	2487	1683	4170	747,000	4405	3065	7470	29	15	3636	3566	7202	-251																				
2	630,370	2530	480	3010	43	3	2467	1683	4150	743,000	5505	3065	8570	35	10	4360	3376	7756	-156																				
3	625,080	2510	480	2990	42	4	2458	1692																															

OF DATA AT AND BETWEEN SNAKE RIVER GAGING

24 HOUR SECOND-FOOT EXCEPT AS NOTED

WEISE TO SHELLEY			SNAKE RIVER NEAR SHELLEY			SHELLEY TO BLACKFOOT		THEORETICAL BALANCE OF STORAGE AT BLACKFOOT	DATE	BLACKFOOT RIVER	SNAKE RIVER NEAR BLACKFOOT			BLACKFOOT TO NEELEY		DATE	AMERICAN FALLS RESERVOIR CONTENTS ACRE-FOOT	SNAKE RIVER AT NEELEY	
STORING LOSS	STORING DIVERSIONS	DATE	STORING	NORMAL	TOTAL	STORING LOSS	STORING DIVERSIONS				STORING	NORMAL	TOTAL	CALCULATED INFLOW	STORING DIVERSIONS			STORING	NORMAL
105	1885	AUG 5	1721	1709	3430	25	1239	397	AUG 6	12	776	212	988	2675	32	AUG 7	776,000	9313	2887
186	1562	6	1504	1406	2910	13	1294	197	7	7	369	207	576	2682	32	8	759,000	9311	2889
187	1503	7	1464	1076	2540	5	1373	86	7	7	130	207	337	2680	34	9	741,000	9313	2887
220	1494	8	2024	646	2670	35	1448	541	8	7	130	207	337	2674	36	10	725,000	9319	2881
220	1586	9	2552	1008	3560	64	1491	997	9	7	929	211	1140	2672	37	11	708,000	9317	2883
200	754	10	2613	1177	3790	74	1385	1154	10	11	1400	220	1620	2676	38	12	692,000	9304	2898
215	324	11	3407	1033	4440	121	1394	1892	11	12	1588	212	1800	2637	36	13	676,000	9351	2848
255	1543	12	3082	1028	4110	99	1430	1553	13	10	1170	210	1380	2637	36	14	660,000	9355	2847
236	1694	13	2495	1225	3720	59	1504	932	14	15	670	214	884	2633	39	15	644,000	9353	2847
241	1657	14	2610	730	3340	64	1538	1008	15	40	620	240	860	2654	38	16	627,000	9106	2911
266	1873	15	2912	748	3660	84	1507	1321	16	48	932	248	1180	2676	36	17	610,000	8976	2924
260	1752	16	3134	706	3840	96	1541	1497	17	47	1123	247	1370	2689	35	18	593,000	9064	2936
203	747	17	2880	1080	3960	80	1549	1251	18	36	1284	236	1520	2688	35	19	578,000	9078	2924
211	597	18	3272	988	4260	99	1626	1547	19	18	1212	218	1430	2657	36	20	563,000	9025	2875
264	2104	19	2769	1191	3960	65	1683	1021	20	8	992	208	1200	2683	36	21	547,000	8909	2891
257	2229	20	2551	1269	3820	53	1662	836	21	10	830	210	1040	2687	39	22	532,000	8803	2897
247	2191	21	2374	1286	3660	47	1599	728	22	10	890	210	1100	2688	39	23	516,000	8702	2898
251	2346	22	2235	1635	3870	42	1536	657	23	18	1262	218	1480	2701	37	24	501,000	8581	2919
250	2116	23	2479	1631	4110	58	1516	905	24	26	1504	226	1730	2710	35	25	487,000	8464	2936
199	815	24	2802	1638	4440	77	1519	1206	25	22	1918	222	2140	2709	34	26	473,000	8373	2927
207	678	25	3225	1485	4710	104	1496	1625	26	15	1825	215	2040	2709	32	27	460,000	8376	2924
249	1512	26	3234	1185	4420	101	1552	1581	27	13	1437	213	1650	2703	32	28	445,000	8284	2918
230	2049	27	2252	1448	3700	50	1415	787	28	10	850	210	1060	2718	32	29	430,000	8072	2928
233	2315	28	2099	1181	3280	40	1425	634	29	12	520	212	732	2717	32	30	417,000	7971	2929
232	2399	29	2011	1099	3110	34	1440	537	30	15	443	215	658	2721	35	31	402,000	7864	2936
226	2135	30	2055	1095	3150	43	1337	675	31	22	436	222	658	2719	35	SEPT 1	388,000	7569	2941
175	1075	31	2065	965	3030	46	1297	722	SEPT 1	29	511	229	740	2722	34	2	372,000	7549	2951
178	1043	SEPT 1	2199	931	3130	50	1359	790	2	13	512	213	725	2726	33	3	358,000	7361	2939
213	2115	2	1781	1109	2890	28	1322	431	3	8	326	208	534	2728	34	4	345,000	6924	2934
266	2799	3	2230	740	2970	53	1348	829	4	9	411	209	620	2728	34	5	332,000	6723	2937
282	3041	4	2218	912	3130	45	1411	758	5	15	597	215	812	2721	35	6	320,000	6344	2936
297	3139	5	2345	1215	3560	53	1455	837	6	21	1099	221	1320	2700	35	7	309,000	6079	2921
249	2945	6	2659	1231	3890	84	1253	1322	7	24	1726	224	1950	2712	35	8	300,000	5834	2936
230	1466	7	2779	1161	3940	119	796	1864	8	26	2014	226	2240	2723	35	9	292,000	5411	2949
161	820	8	1954	1656	3610	72	758	1124	9	23	1667	223	1890	2734	34	10	266,000	4603	2957
165	662	9	2772	658	3430	124	711	1937	10	27	1813	227	2040	2759	34	11	260,000	4164	2986
216	1615	10	2422	1028	3450	89	941	1392	11	34	1506	234	1740	2801	35	12	274,000	3525	3035
237	2516	11	1916	1444	3360	51	1081	804	12	48	1442	248	1690	2800	34	13	269,000	3022	3048
242	2495	12	2011	1489	3500	85	934	992	13	129	2011	329	2340	2804	31	14	268,000	2957	3171
173	2086	13	1051	2839	3890	11	861	179	14	129	2311	329	2640	2819	29	15	264,000	2942	3118
81	-435	14	1765	2295	4060	57	819	889	15	131	2579	331	2910	2833	26	16	264,000	2696	3188
81	-794	15	2170	2140	4310	87	721	1362	16	272	2748	472	3220	2623	24	17	264,000	2215	3229
78	-562	16	2285	2315	4600	109	469	1707	17	109	2991	309	3300	2819	24	18	264,000	2812	3121
60	-353	17	2090	2120	4210	125	0	1965	18	57	2353	257	2610	2822	24	19	265,000	2851	3071
70	33	18	1678	1932	3610	100	0	1578	19	48	1652	248	1900	2844	24	20	263,000	1858	3081
55	4	19	1052	2078	3130	63	0	989	20	37	1203	237	1440	2823	24	21	263,000	-2447	3081
55	111	20	954	2016	2970	55	42	857	21	43	1057	243	1300	2806	24	22	267,000	1711	3081
45	221	21	526	2154	2680	31	16	479	22	37	903	237	1140	2821	23	23	266,000	2762	3081
49	258	22	509	2130	2630	20	166	314	23	25	515	225	740	2827	19	24	263,000	3148	3081
83	161	23	897	1573	2470	26	467	404	24	36	81	779							

VG STATIONS

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SER NO	LAKE WALCOTT CONTENTS	MINIDOKA CANALS					SNAKE RIVER NEAR MINIDOKA			DATE	MILNER LAKE GAGE FEET	MINIDOKA NORTH SIDE PUMP STORED	MINOR DIVERSIONS MINIDOKA TO MILNER STORED	GOODING PROJECT			NORTH SIDE CANAL COMPANY					
		NORTH	SOUTH	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL					STORED	NORMAL	TOTAL	P. A.	GOODING	MAIN	TOTAL	STORED	NORMAL
12200	92,970	1660	1270	2930	2930	0	5893	2887	8780	AUG	8 10.99	228		1550	0	1550	72	900	2730	3702	3362	340
2200	92,860	1680	1270	2950	2950	0	6071	2889	8960		9 10.90	216		1580	0	1580	72	910	2750	3732	3362	340
2200	92,860	1680	1280	2940	2940	0	6283	2887	9170		10 10.92	216		1550	0	1550	72	910	2770	3752	3412	340
12200	92,620	1660	1280	2940	2940	0	6349	2881	9230		11 10.98	216		1580	0	1580	72	910	2780	3762	3423	339
12200	92,860	1610	1270	2880	2880	0	6287	2883	9170		12 10.99	216	2	1530	0	1530	72	910	2780	3762	3423	339
12500	92,860	1580	1260	2840	2840	0	6304	2896	9200		13 11.00	216	2	1510	0	1510	72	910	2780	3762	3423	339
12500	92,860	1580	1260	2840	2840	0	6351	2849	9200		14 11.02	216	2	1510	0	1510	71	900	2780	3762	3423	341
12600	93,550	1580	1280	2860	2860	0	6323	2847	9170		15 11.01	216	2	1510	0	1510	70	910	2780	3762	3423	341
12800	94,370	1550	1300	2850	2850	0	6293	2847	9140		16 11.02	216		1490	0	1490	65	920	2780	3765	3435	338
12000	93,900	1530	1270	2800	2800	0	6246	2894	9140		17 11.02	216		1470	0	1470	65	920	2780	3765	3435	338
11900	93,790	1530	1260	2790	2790	0	6216	2924	9140	18 11.02	207		1470	0	1470	65	920	2730	3775	3431	344	
12000	93,550	1520	1230	2750	2750	0	6084	2936	9020	19 11.01	207		1460	0	1460	65	920	2780	3765	3418	346	
12000	94,250	1580	1220	2780	2780	0	5946	2924	8870	20 10.98	207		1450	0	1450	63	920	2770	3753	3408	344	
11800	94,950	1550	1230	2780	2780	0	5965	2875	8840	21 10.89	207		1460	0	1460	63	910	2780	3753	3415	338	
11800	95,180	1530	1230	2760	2760	0	6039	2891	8930	22 10.91	207	2	1480	0	1480	63	910	2780	3753	3415	338	
11700	95,070	1500	1220	2720	2720	0	6123	2897	9020	23 10.94	207	2	1510	0	1510	62	930	2780	3772	3431	341	
11600	94,840	1420	1200	2620	2620	0	6122	2898	9020	24 10.98	207	2	1520	0	1520	62	950	2780	3792	3451	341	
11500	94,720	1400	1170	2570	2570	0	6101	2919	9020	25 11.00	207	2	1520	0	1520	57	950	2780	3787	3444	343	
11400	94,600	1350	1200	2550	2550	0	5964	2936	8900	26 10.82	207		1510	0	1510	57	940	2700	3697	3351	346	
11300	94,490	1380	1200	2580	2580	0	5973	2927	8900	27 10.74	196		1510	0	1510	57	940	2680	3677	3332	344	
11300	94,490	1400	1210	2610	2610	0	6006	2924	8930	28 10.62	196		1510	0	1510	57	940	2680	3677	3332	344	
11200	92,620	1360	1210	2570	2570	0	6164	2916	9080	29 10.58	194		1510	0	1510	57	940	2630	3627	3286	343	
11000	90,990	1300	1200	2500	2500	0	6242	2928	9170	30 10.70	179		1520	0	1520	57	950	2610	3617	3272	345	
10900	91,230	1280	1150	2430	2430	0	6121	2929	9050	31 10.80	179		1530	0	1530	57	960	2620	3637	3292	345	
10800	90,760	1230	1080	2310	2310	0	5964	2936	8900	SEPT 1 10.80	179		1510	0	1510	56	950	2620	3628	3280	343	
10600	90,290	1210	1040	2250	2250	0	5729	2941	8670	2 10.55	166		1490	0	1490	56	920	2620	3696	3250	341	
10500	88,780	1210	1050	2260	2260	0	5659	2951	8610	3 10.70	164		1490	0	1490	61	910	2550	3521	3174	347	
10300	88,250	1170	1030	2200	2200	0	5471	2939	8410	4 10.68	164	2	1480	0	1480	60	900	2520	3480	3134	346	
8660	88,200	1120	977	2097	2097	0	5444	2936	8380	5 10.80	164	2	1460	0	1460	60	920	2530	3510	3165	345	
9660	87,270	1050	934	1984	1984	0	5243	2937	8180	6 10.87	164	1	1460	0	1460	56	930	2390	3378	3031	348	
9260	86,680	1020	848	1868	1868	0	4934	2936	7870	7 11.01	164		1460	0	1460	56	950	2320	3326	2981	348	
9090	85,870	1010	782	1792	1792	0	4669	2921	7590	8 10.98	164		1460	0	1460	55	940	2330	3325	2981	344	
8770	84,940	1000	779	1779	1779	0	4384	2936	7320	9 10.86	147		1420	0	1420	51	930	2310	3291	2946	345	
8360	84,470	1000	793	1793	1793	0	4021	2949	6970	10 10.72	135		1400	0	1400	48	900	2250	3198	2851	347	
7560	84,350	928	715	1643	1643	0	3843	2957	6800	11 10.47	135		1380	0	1380	43	870	2230	3143	2795	347	
7170	81,280	826	676	1502	1502	0	3794	2986	6780	12 10.28	135		1390	0	1390	42	870	2140	3052	2666	348	
6580	78,800	772	627	1399	1264	135	4040	2900	6940	13 10.28	126		1370	0	1370	42	870	2040	2952	2552	40	
6179	74,070	738	584	1322	1184	138	4380	2910	7290	14 10.44	126		1360	0	1360	43	860	1940	2863	2463	40	
6090	70,400	722	574	1296	1083	213	4340	2920	7260	15 10.77	111		1370	0	1370	43	900	1940	2863	2463	40	
6090	66,330	714	554	1268	940	328	4170	2820	6450	16 10.90	111		1360	0	1360	43	910	1830	27883</			

DATE	TIME	NORTH SIDE PUMP	MINOR DIVERSIONS TO MILNER STORED	GOODING PROJECT			NORTH SIDE CANAL COMPANY						TWIN FALLS CANAL COMPANY			MILNER LOW LIFT			SNAKE RIVER AT MILNER		
				STORED	NORMAL	TOTAL	P. A.	GOODING	MAIN	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL
AUG 1	0.45	228		1550	0	1550	72	900	2730	3702	3362	340	943	2547	3490	235	0	235	207	0	207
2	0.50	216		1550	0	1550	72	910	2750	3732	3392	340	911	2549	3560	235	0	235	202	0	202
3	0.52	216		1550	0	1550	72	910	2770	3752	3412	340	1053	2547	3600	235	0	235	202	0	202
4	0.58	216		1550	0	1550	72	910	2780	3762	3423	339	1068	2542	3610	235	0	235	202	0	202
5	0.59	216	2	1530	0	1530	72	910	2780	3762	3423	339	1076	2544	3620	230	0	230	205	0	205
6	1.00	216	2	1510	0	1510	72	910	2780	3762	3421	341	1075	2555	3630	230	0	230	207	0	207
7	1.02	216	2	1510	0	1510	71	900	2780	3751	3416	335	1096	2514	3610	235	0	235	205	0	205
8	1.03	216	2	1510	0	1510	70	910	2780	3760	3425	335	1088	2512	3600	235	0	235	207	0	207
9	1.02	216		1490	0	1490	65	920	2780	3765	3430	335	1088	2512	3600	245	0	245	207	0	207
10	1.02	207		1470	0	1470	65	920	2780	3765	3424	341	1047	2553	3600	245	0	245	207	0	207
11	1.07	207		1470	0	1470	65	920	2790	3775	3431	344	990	2580	3570	255	0	255	207	0	207
12	0.58	207		1460	0	1460	65	920	2780	3765	3419	346	870	2590	3460	255	0	255	209	0	209
13	0.58	207		1450	0	1450	63	920	2770	3753	3409	344	840	2580	3420	255	0	255	207	0	207
14	0.59	207		1460	0	1460	63	910	2780	3753	3415	338	840	2580	3420	255	0	255	205	0	205
15	0.51	207	2	1480	0	1480	63	910	2780	3753	3415	338	883	2537	3420	255	0	255	202	0	202
16	0.54	207	2	1510	0	1510	62	930	2780	3772	3431	340	869	2551	3420	235	0	235	202	0	202
17	0.58	207	2	1520	0	1520	62	950	2780	3792	3451	341	874	2556	3430	235	0	235	202	0	202
18	1.00	207	2	1520	0	1520	67	950	2780	3787	3444	343	863	2557	3420	228	0	228	205	0	205
19	1.02	207		1510	0	1510	57	940	2700	3697	3351	346	834	2576	3410	228	0	228	205	0	205
20	0.74	196		1510	0	1510	57	940	2680	3677	3335	344	780	2590	3370	228	0	228	205	0	205
21	1.02	196		1510	0	1510	57	940	2680	3677	3335	344	797	2583	3380	228	0	228	209	0	209
22	0.58	194		1510	0	1510	57	940	2630	3627	3284	343	800	2580	3380	228	0	228	207	0	207
23	0.70	179		1520	0	1520	57	950	2610	3617	3272	345	747	2583	3330	228	0	228	207	0	207
24	0.80	179		1530	0	1530	57	960	2620	3637	3292	345	726	2584	3310	228	0	228	209	0	209
25	0.80	179		1510	0	1510	56	950	2620	3626	3280	346	690	2550	3280	186	0	186	212	0	212
26	0.65	166		1490	0	1490	56	920	2620	3596	3250	346	635	2595	3230	186	0	186	214	0	214
27	0.75	164		1490	0	1490	61	910	2550	3521	3174	347	646	2604	3250	186	0	186	209	0	209
28	0.58	164	2	1480	0	1480	60	900	2520	3480	3134	346	587	2593	3180	177	0	177	209	0	209
29	0.80	164	2	1460	0	1460	60	920	2530	3510	3165	345	519	2591	3110	177	0	177	209	0	209
30	0.87	164	1	1460	0	1460	56	930	2390	3376	3031	345	388	2592	2980	160	0	160	212	0	212
31	1.01	164		1460	0	1460	56	950	2320	3326	2981	345	349	2581	2940	160	0	160	214	0	214
32	0.98	164		1460	0	1460	55	940	2330	3325	2981	344	313	2577	2890	160	0	160	218	0	218
33	0.86	147		1420	0	1420	51	930	2310	3291	2946	345	269	2591	2860	160	0	160	216	0	216
34	0.72	135		1400	0	1400	48	900	2250	3198	2851	347	268	2602	2870	160	0	160	216	0	216
35	0.47	135		1380	0	1380	43	870	2230	3143	2795	348	141	2609	2750	152	0	152	209	0	209
36	0.28	135		1390	0	1390	42	870	2140	3052	2666	386	0	2600	2600	152	0	152	205	0	205
37	0.28	126		1370	0	1370	42	870	2040	2952	2552	400	0	2500	2500	144	0	144	198	0	198
38	0.44	126		1360	0	1360	43	880	1940	2863	2463	400	0	2510	2510	144	0	144	200	0	200
39	0.77	111		1370	0	1370	43	900	1940	2883	2483	400	0	2520	2520	135	0	135	202	0	202
40	0.90	111		1360	0	1360	43	910	1830	2783	2383	400	0	2420	2420	128	0	128	209	0	209
41	0.79	111		1350	0	1350	44	900	1780	2724	2324	400	0	2240	2240	122	0	122	214	0	214
42	0.70	111		1310	0	1310	44	880	1670	2594	2194	400	0	2180	2180	122	0	122	212	0	212
43	0.58	92		1290	0	1290	43	860	1640	2543	2143	400	0	2180	2180	112	0	112	209	0	209
44	0.20	92		1280	0	1280	43	830	1540	2413	2013	400	0	2130	2130	112	0	112	207	0	207
45	0.47	92		1290	0	1290	43	840	1530	2413	2013	400	0	2140	2140	112	0	112	205	0	205
46	0.58	92		1260	0	1260	43	820	1520	2383	1983	400	0	2110	2110	106	0	106	205	0	205
47	0.75	87		1240	0	1240	44	790	1490	2324	1924	400	0	1980	1980	106	0	106	202	0	202
48	0.75	87		1250	0	1250	44	800	1530	2374	1974	400	0	1790	1790	106	0	106	202	0	202
49	0.64	87		1200	0	1200	43	800	1430	2273	1873	400	0	1760	1760	96	0	96	207	0	207
50	0.79	82		1140	0	1140	43	790	1400	2233	1833	400	0	1700	1700	96	0	96	209	0	209
51	0.77	67		1130	0	1130	28	780	1390	2198	1100	1098	0	1620	1620	96	0	96	209	0	209
52	0.56	67		1120	0	1120	28	760	1390	2178	922	1256	0	1							

DAILY

[illegible]

STORAGE DIVERSIONS — MAIN RIVER

1958

24 HOUR SECOND-FOET EXCEPT AS NOTED

AUGUST

20	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	10	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				
26	26	23	19	20	17	15	23	23	23	17	17	21	20	17	20	20	12	18	21	21	19	19	20	17	13	16	14	16	16	18	12	12	16	19	20	0	16	12	11	10	15	15	15	15	15	
84	270	227	36	157	122	112	112	112	124	112	115	106	109	79	55	76	48	54	60	56	36	34	40	34	34	30	5	75	78	76	117	120	107	170	171	171	171	137	245	439	20	15	15	15	15	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34	129	124	108	111	105	98	125	124	125	10	20	15	135	130	129	128	20	20	10	131	118	124	124	18	10	10	110	135	136	15	10	10	10	10	110	112	113	145	16	14	12	15	15	15	15	15
4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
47	247	238	185	185	207	234	251	251	265	194	196	88	88	117	170	179	193	193	188	249	245	365	360	95	105	106	343	352	409	404	0	0	0	491	500	500	500	0	0	0	477	477	477	477	477	
89	111	95	78	10	25	49	48	78	54	72	5	24	48	47	47	47	82	6	31	42	40	52	6	0	11	24	22	29	73	75	85	36	35	70	49	53	37	39	0	13	0	0	0	0		
247	229	225	200	173	200	191	191	217	226	470	485	217	217	224	270	244	477	477	257	248	248	248	231	470	470	252	244	235	235	235	480	480	497	502	502	480	475	310	310	310	310	310	310	310	310	
2	2	2	2	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	19	26	26	26	26	19	19	19	19	19	19	26	26	26	26	19	19	19	19	26	26	26	26	19	19	19	19	26	26	26	26	17	19	19	19	4	50	50	50	52	4	4	4	4		
31	54	50	39	22	64	77	70	67	66	69	47	54	65	64	33	31	49	54	54	40	69	64	10	51	14	0	8	53	34	10	34	65	41	26	32	71	71	40	22	57	82	82	82	82		
61	73	66	57	69	68	57	62	74	90	57	56	38	49	64	64	67	67	67	50	0	0	0	0	3	5	9	11	13	13	13	5	11	13	15	17	17	19	21	21	23	23	23	23	23	23	
2	2	11	0	17	15	2	5	0	18	18	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	5	5	5	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	15	17	24	-40	0	3	3	0	9	0	0	5	6	5	5	5	2	2	2	-2	-2	-2	-2	-2	-2	-2	-2	5	4	3	2	-2	-2	2	-2	-2	2	2	1	-2	-2	9	9	9	9	
85	80	-82	-82	-82	32	26	26	23	-82	-82	-82	60	82	82	85	-82	-82	-82	88	82	80	80	-82	-82	-82	-82	54	67	54	51	-82	-82	-82	57	70	74	75	-82	-82	-92	66	68	68	68	68	
32	32	0	0	0	29	30	29	29	0	0	0	22	23	24	25	0	0	0	24	24	23	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	2	-2	-2	-2	1	1	1	2	3	3	-2	-2	-2	2	3	4	4	4	5	-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	
24	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	13	92	93	93	93	93	93	92	95	95	104	104	105	88	88	89	95	105	107	105	104	104	104	105	105	105	104	103	103	103	105	118	118	119	118	117	119	119	119	119	119	119	119	119	119	
4	4	5	3	0	0	2	2	2	4	3	0	3	2	3	4	4	3	0	2	2	2	2	3	2	0	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
12	12	11	9	9	6	6	6	1	7	5	0	0	0	1	2	3	5	6	7	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
483	275	279	276	176	152	94	56	195	290	276	283	273	258	357	463	499	516	531	506	502	506	502	494	484	472	473	510	517	516	533	540	541	530	521	532	538	524	467	384	398	398	398	398	398	398	
34	34	34	34	34	34	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
100	0	0	0	0	87	80	73	62	51	89	89	89	76	78	82	87	98	78	89	75	73	71	81	85	85	91	82	75	77	81	81	81	80	79	73	65	54	87	87	90	88	88	88	88		
516	493	413	397	388	350	311	271	262	273	224	300	341	324	304	319	355	357	359	366	330	315	337	394	392	348	355	352	311	304	282	269	258	284	291	313	333	344	355	355	319	246	246	246	246		
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		
61	2467	1668	1274	1007	1665	1562	1503	1494	1586	754	324	1543	1694	1657	1873	1752	747	597	2104	2229	2191	2346	2116	815	678	1512	2049	2315	2399	2135	1075	1043	2115	2799	3041	3133	2946	1466	820	662	16	16	16	16		
6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
542	531	518	518	408	358	344	344	363	431	436	411	425	416	414	401	401	399	394	396	396	400	382	380	387	360	368	370	344	346	358	365	358	366	380	380	380	394	297	-20	-20	-20	-20	-20	-20	-20	
260	210	1080	1070	1010	936	919	933	975	1010	1010	954	954	996	1060	1070	1020	1000	1040	1110	1140	1120	1100	1030	993	1010	1030	1080	1020	1010	1000	891	890	874	846	832	868	870	846	781	171	735	735	735	735		
44	45	58	60	35	21	32	17	35	7	45	20	12	15	28	63	83	62	36	42	72	73	60	69	80	71	72	74	33	19	37	34	23	66	36	35	45	63	32	42	24	9	9	9	9		
5	15	9	7	0	7	0	0	0	0	0	0	3	3	2	14	3	6	9	10	8	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7	9	6	4	4</																																										

SEPTEMBER

10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	NO	SECOND- FEET	ACRE- FEET	JACKSON LAKE EQUIVALENT ACRE-FEET	AMERICAN FALLS RIGHT OWNED ACRE-FEET	AMERICAN FALLS RIGHT LEASED ACRE-FEET	JACKSON LAKE RIGHT ACRE-FEET	PALISADES RIGHT ACRE-FEET	RENTALS ACRE-FEET	OTHER RIGHT ACRE-FEET
16	16	15	0																		1	877	1,733	1,875					1,875	
54	128	91	11	0																	2	1,549	3,072	3,311					1,000	7,200
13	120	115	118	14	10	10	-98	-98	10	120	116	11									3	16,065	31,865	34,345	190	49	2,072		1,600	2,800
0																					4	1,948	3,863	4,165	3,531	610	16,163		2,755	2,800
0																					5	7,626	15,126	16,307		2,824	732	17,551		3,000
493	522	443	-232	-232	-232																6	132	262	282					827	720
42	22	0																			7	238	472	509					300	5,580
455	446	449	-522	-522	-522	-522	13	18	18	22	69	74	69	69	18	21	4				8	20	40	43					3,990	6,695
0	2	2	0																		9	337	668	720					260	260
4	4	-19	-19	-19	-19	0															10	140	278	300					5,300	400
50	45	40	0																		11	14,309	28,382	30,522	3,401		20,567		4,000	
23	21	21	12	0																	12	5,186	10,286	11,091		922	5,430		850	
																					13	11,459	22,728	24,508		1,672	17,413		435	1,171
																					14	122	241	260					380	1,020
																					15	359	712	768					800	180
																					16	4,293	8,515	9,182					200	200
																					17	4,610	9,144	9,859	1,094	357	8,008		5,805	
																					18	1,559	3,092	3,334		178	3,300		19	
																					19	397	788	850					1,171	
																					20	6	12	13					380	1,020
																					21	203	403	435					800	180
																					22	392	778	839					200	200
																					23	0	0	0					1,171	
																					24	846	1,678	1,808	250	41	1,147		380	1,020
																					25	210	417	450					800	180
																					26	374	742	800					200	200
																					27	83	165	178					1,171	
																					28	0	0	0					380	1,020
																					29	9,083	16,031	17,287	1,320	4,032	6,041		5,805	
																					30	9,108	18,065	19,477	3,807	1,912	17,423		250	
																					31	209	415	448		20	247		200	200
																					32	46	91	98					1,171	
																					33	647	1,283	1,384					380	1,020
																					34	10,010	19,855	21,405	6,480	449	29,661		23,375	
																					35	32,779	65,016	70,106	7,277	1,151	38,311		1,200	
																					36	2,774	5,502	5,934		205	4,098		50	
																					37	28	56	60					3,000	4,500
																					38	5,909	11,720	12,638	1,710	120	7,828		1,284	
																					39	28,557	56,642	61,082	7,457		49,135		1,284	
																					40	600	1,191	1,284					89,303	
																					41	171,213	339,596	366,181	43,838	12,450	251,982		1,200	
																					42	861	1,713	1,800					4,000	
																					43	1,332	2,662	2,849	3,610	890	16,523		20,700	
																					44	1,867	3,700	4,000					36,200	
																					45	30,170	59,841	64,526	6,057	2,047	35,723		900	
																					46	83,729	166,074	179,074	15,921	12,754	114,296		1,800	
																					47	2,963	5,880	6,350		109	4,396		333	
																					48	841	1,669	1,800						
																					49	903	1,791	1,931		371	1,701			
																					50	156	309	333						
																					51	122,522	243,019	262,063	26,920	15,800	172,639		65,133	
																					52	4,234	8,398	8,883					168	
																					53	229,337	454,883	488					5,454	
																					54	85	168	188					1,380	
																					55	26,729	53,018	56,887					2,580	
																					56	22,941	45,502	48,185						
																					57	76,300	151,339	161,960						
																					58	317,161	629,079	674,960						
																					59	168,934	333,076	353,076						
																					60	25,000	49,587	52,000						
																					61				1,832,455	64,663	833,811	147,109	180,702	
																					GRAND TOTALS	1,165,333	2,317,402	2,462,063					0	

NOTES

TOTAL SECOND- FEET	ACRE- FEET	JACKSON LAKE EQUIVALENT ACRE-FEET	AMERICAN FALLS RIGHT OWNED ACRE-FEET	LEASED ACRE-FEET	JACKSON LAKE RIGHT ACRE-FEET	PALISADES RIGHT ACRE-FEET	RENTALS ACRE-FEET	OTHER RIGHTS ACRE-FEET	TOTAL SUPPLY ACRE-FEET
877	1,739	1,875					1,875		1,875
549	3,072	3,311					① 1,000		3,311
16,065	31,865	34,345	190	49	2,072		11,600	② 7,200	39,104
1,948	3,863	4,165	3,531	610	16,163		2,165		4,165
7,626	15,126	16,307	2,524	732	17,651		2,800	② 7,200	16,307
132	262	262					300		300
238	472	509					827		827
20	40	43					43		43
337	668	720					720		720
140	278	300					300		300
14,309	28,382	30,622	3,401		20,567		6,680		30,648
5,186	10,286	11,091	749	922	5,430		3,990		11,091
1,459	22,728	24,508	2,686	1,672	17,413		6,695		28,466
122	241	260					260		260
359	712	768			1,040				1,040
4,293	8,513	9,182			4,000		5,300		9,300
4,610	9,144	9,859	1,094	357	8,008		400		9,859
1,559	3,092	3,334	721	178	3,300				4,199
397	768	850					850		850
6	12	13					13		13
203	403	435					435		435
392	778	839					1,171		1,171
0	0	0							0
846	1,678	1,809	250	41	1,147		380		1,818
210	417	450					1,020		1,020
374	742	800					③ 800		800
63	165	178					180		180
0	0	0					200		200
3,083	16,031	17,287	1,320	4,032	6,041		5,805		17,198
3,108	18,065	19,477	3,807	1,912	17,423				23,142
209	415	448	54	20	247		250		571
46	91	98	20		92				112
647	1,283	1,384			355		2,100		2,455
1,070	19,855	21,405	6,480	449	29,661				36,590
779	65,016	70,106	7,277	1,151	58,311		23,375		70,114
774	5,502	5,934	567	205	4,099		④ 1,200		6,070
28	56	60					60		60
909	11,720	12,638	1,710	120	7,828		⑤ 3,000		12,658
557	56,642	61,082	7,457		49,135		4,500		61,092
800	1,191	1,284					1,284		1,284
213	339,596	366,181	43,838	12,450	251,982		89,303		397,573
561	1,113	1,200					1,200		1,200
332	2,642	2,849	3,610	890	18,523				21,023
867	3,700	4,000					4,000		4,000
170	59,841	64,525	6,057	2,047	35,723		20,700		64,527
725	166,074	179,074	15,921	12,754	114,296		⑥ 36,200	⑦ - 55	179,116
963	5,880	6,350	961	109	4,396		⑧ 900		6,366
841	1,669	1,800					1,800		1,800
903	1,791	1,931	371		1,701				2,072
156	309	333					333		333
522	243,019	262,063	26,920	15,800	172,639		65,133	- 55	280,437
234	⑧ 6,396		23,300					⑨ 55	23,355
327	454,883		393,972	22,820				⑩ 177,130	593,922
85	168		47,593				168		168
729	53,016		45,687				5,423		53,016

- ① RENTED 1,300 A.F. FROM U.S.; RESOLD 300 TO ABERDEEN
- ② TRANSFER FROM ENTERPRISE TO PROGRESSIVE IRR DIST
- ③ RENTED 1,700 A.F. FROM U.S.; RESOLD 900 TO CORBETT
- ④ RENTED FROM TWIN FALLS CANAL CO
- ⑤ 800 A.F. FROM ABERDEEN CANAL; 2,200 FROM U.S.
- ⑥ 36,700 A.F. FROM U.S.; 300 FROM POPLAR IRR DIST (RILEY); SOLD 800 TO WOODVILLE
- ⑦ TRANSFER TO AM. FALLS PUMP FROM ABERDEEN
- ⑧ FROM PARKS & LEWISVILLE
- ⑨ 8,343 A.F. TO MICHAUD PUMP; 55 TO ABERDEEN
- ⑩ ADVANCE USE OF 1959 STORAGE
- ⑪ RENTED FROM PALISADES RESERVOIR. SEE PLATE NO 22 FOR ADDITIONAL PALISADES RENTAL
- ⑫ LAKE WALCOTT 95,430 A.F. JUNE 9 PLUS 81,700 A.F. GAIN NEELEY TO MILNER

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File _____ Washington
Number _____ District _____
TIME INTERVAL BETWEEN GAGING STATIONS ON SNAKE RIVER

Plate No. 15

TIME CLOUGH TO RUEGAR = 12 HRS
RUEGAR TO MINIDOKA = 8 HRS
MINIDOKA TO MILNER = 12 HRS

Moran to Heise Disch. at Heise

Heise to Shelley Disch. at Shelley

Shelley to Cloughs Disch. at Shelley

TIME INTERVAL IN HOURS
10 20 30 40 50

Disch. at _____
Checked by _____ Date _____
Prepared by _____
Checked by _____ Date _____

[illegible]

[illegible]

FALL RIVER CANALS
TOTAL SQUIREL TO CHESTER
CHESTER
SILKEY
CURR
BELL
FALL RIVER
MCCREE
CHESTER
SILKEY
CURR
TOTAL ABOVE SQUIREL
FARMERS OWN
DAILY
ENTERPRISE
BELL
FALL RIVER
MCCREE
CHESTER
SILKEY
CURR
HENRY'S FORK CANALS
DEWEY
LAST CHANCE
GROSS CUT
STANTHONY UNION
FARMERS FRIEND
TWIN GROVES
SALEM UNION
TOTAL ASHTON TO ST ANTHONY
EGIN
ST ANTHONY UNION FEEDER
INDEPENDENT
CONSOLIDATED FARMERS
TOTAL STANTHONY TO REXBURG
TETON RIVER CANALS
WILFORD
TETON IRRIGATION
GOOD LUCK
PIONEER
STEWARD
PINCOK-BYINGTON
PINCOK-GARNER
GARDNER
TETON ISLAND FEEDER
NORTH SALEM
ROXANA
ISLAND WARD
WOODMANSEE-JOHNSON
JAMES-THOMPSON
MC CONNICK-ROME
CITY OF REXBURG
REXBURG BRIGADION
SAURY-SOMMERS
TOTAL TETON RIVER

HENRYS FORK - DAILY SEGREGATION OF FLOW

24 HOUR SECOND- FEET EXCEPT AS NOTED

FORK N.T.O.N.	GRASSY LAKE STORAGE RELEASE ①	STORED DIVERSIONS ASHTON TO ST. ANTHONY	HENRYS FORK AT ST. ANTHONY			STORED DIVERSIONS STANTHONY TO REXBURG		DATE	HENRYS FORK NEAR REXBURG		
TOTAL			STORED	NORMAL	TOTAL	HENRYS FORK	TETON RIVER		STORED	NORMAL	TOTAL
1860		36	-36	1586	1550			JUNE 13	-36	2176	2140
1810		38	-40	1700	1660			14	-40	2330	2290
1580		38	-40	1620	1580			15	-40	2300	2260
1560		42	-28	1498	1470			16	-28	2198	2170
1520		38	-32	1412	1380			17	-32	1992	1960
1500		45	-28	1288	1260			18	-28	1688	1660
1520		34	-35	1315	1280			19	-35	1645	1610
1450		16	-24	1224	1200			20	-24	1574	1550
1600		14	-7	1127	1120			21	-7	1497	1490
1580		10	119	961	1080		3	22	116	1304	1420
1520		2	197	823	1020		3	23	194	1206	1400
1770		9	199	911	1110		8	24	191	1249	1440
1830		2	358	812	1170		149	25	209	1261	1470
2000		2	464	686	1150		112	26	352	1198	1550
1940		140	443	807	1250		134	27	309	1141	1450
1730		352	404	646	1050		121	28	283	827	1110
1880		336	114	766	880		118	29	-4	882	878
2060		354	218	672	890		83	30	135	684	819
2420		413	307	656	963		84	JULY 1	223	643	866
2550		436	502	668	1170		136	2	366	774	1140
2550		664	781	519	1300		252	3	529	631	1160
2490		699	562	718	1280		347	4	215	995	1210
2340		742	518	722	1240	319	404	5	-205	1405	1200
2320		725	397	743	1140	314	383	6	-300	1380	1060
2280		705	355	745	1100	332	342	7	-319	1369	1050
2260		661	385	725	1110	324	344	8	-283	1373	1090
2260		740	413	741	1160	324	363	9	-268	1348	1080
2200		742	340	810	1150	303	311	10	-274	1294	1020
2160		761	289	801	1090	232	287	11	-230	1138	908
2300		707	270	728	996	268	268	12	-266	1102	836
2340		666	351	729	1080	278	247	13	-174	1034	860
2280		680	453	687	1120	293	266	14	-105	995	890
2420	30	940	439	681	1120	310	191	15	-62	1018	956
2470	100	1266	229	931	1160	397	231	16	-398	1373	974
2360	90	1100	51	1189	1240	430	233	17	-612	1568	956
2320	90	1068	168	1002	1170	410	276	18	-518	1468	950
2320	100	1095	163	997	1160	370	300	19	-507	1439	932
2340	100	1107	134	976	1110	337	293	20	-496	1452	956
2320	100	1046	122	998	1120	340	268	21	-486	1566	1080
2240	100	1026	173	997	1170	319	265	22	-411	1591	1180
2120	100	1007	126	1025	1150	282	244	23	-401	1561	1160
1860	100	1009	46	1064	1110	260	214	24	-428	1548	1120
1980	100	1023	-43	1103	1060	236	204	25	-483	1533	1050
2000	100	1059	-106	1126	1020	238	162	26	-506	1526	1020
1960	100	1082	-142	1152	1010	282	131	27	-555	1523	968
1840	100	1078	-175	1171	996	278	142	28	-595	1551	956
2090	100	1088	-171	1156	985	255	149	29	-575	1483	908
2220	100	1014	-142	1162	1020	298	144	30	-584	1514	1030
2020	110	1011	-19	1209	1190	324	114	31	-457	1777	1320
2000	110	1023	-64	1184	1120	263	105	AUG. 1	-432	1762	1330
2000	110	845	-116	1236	1120	234	98	2	-448	1748	1300
1900	110	884	93	1117	1170	239	119	3	-305	1605	1300
1810	110	978	-45	1215	1170	252	95	4	-402	1682	1280
1720	110	986	-198	1278	1080	263	89	5	-550	1630	1080
1700	110	943	-255	1208	952	344	84	6	-684	1604	920
2090	50	882	-250	1120	870	368	143	7	-761	1569	808
2020	50	882	-122	1152	1030	394	121	8	-637	1593	956
		882	4	1106	1110	419	110	9	-525	1511	986

DATE	HENRYS LAKE CONTENTS	HENRYS FORK NEAR LAKE		STORED ST LOSS DIVER LAKE TO AB
	ACRE- FEET	STORED	NORMAL	TOTAL
AUG. 7		339	25	364
8		339	25	364
9	64,400	337	25	362
10		334	26	359
11	64,200	333	24	357
12		333	24	357
13		331	24	355
14		329	23	352
15		329	23	352
16		329	23	352
17		330	22	352
18	58,900	263	22	285
19		199	20	219
20		203	18	221
21		209	15	224
22		209	15	224
23		209	15	224
24		211	15	226
25	55,600	150	15	165
26		61	15	76
27		61	15	76
28		61	15	76
29		59	15	74
30	55,900	56	15	71
31		57	15	72
SEPT. 1		57	15	72
2		57	15	72
3		57	15	72
4		57	15	72
5		57	15	72
6		57	15	72
7		57	15	72
8		42	15	57
9	54,200	25	15	40
10		25	15	40
11		25	15	40
12		25	15	40
13		10	15	25
14	54,000	0	12	12
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
TOTAL		14,173		565

D F.M. DIST ON SHERIDAN INFLOW TO CREEK ISLAND PARK PARK RIGHT RESERVOIR	STORED ISLAND PARK RESERVOIR	DATE	ISLAND PARK RESERVOIR CONTENTS ACRE-Feet	HENRYS FORK NEAR ISLAND PARK			ISLAND PARK TO ASHTON		DATE	HENRYS FORK NEAR ASHTON			GRASSY LAKE STORAGE RELEASE ①	STORED DIVERSIONS ASHTON TO STANTHONY	HENRYS FORK AT STANTHONY			STORED DIVERSION STANTHONY TO HENRYS FORK RIVER
				STORED	NORMAL	TOTAL	STORED LOSS	STORED DIVERSION		STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL	
8	318	AUG. 8	63,140	950	520	1470												
8	318	9	61,640	970	520	1490	24	2	AUG. 9	924	1376	2300	50	898	75	1145	1220	358
8	317	10	60,625	970	520	1490	24	2	10	944	1275	2220	50	863	131	1119	1250	368
8	314	11	59,275	900	520	1420	24	2	11	944	1216	2160	50	861	113	1097	1210	367
8	313	12	58,300	860	520	1380	21	2	12	876	1084	1960	50	856	58	1042	1110	368
8	313	13	57,250	850	520	1370	21	2	13	837	1163	2000	50	819	68	1082	1150	363
8	311	14	56,055	790	520	1310	20	2	14	827	1173	1900	50	811	268	954	1220	368
8	309	15	55,175	800	520	1320	20	2	15	768	1072	1840	50	738	80	1110	1190	358
8	309	16	54,055	860	520	1380	21	2	16	778	1142	1920	50	628	200	970	1170	340
8	309	17	52,925	860	520	1380	21	2	17	837	1143	1980	50	712	175	1115	1290	350
8	310	18	51,890	820	520	1340	21	2	18	837	1083	1920	50	707	180	1120	1300	315
8	245	19	50,960	780	520	1300	20	2	19	797	1043	1840	50	650	197	1023	1220	328
8	184	20	49,810	710	520	1230	18	2	20	758	1162	1920	50	672	135	1214	1360	329
8	188	21	48,950	670	520	1190	17	2	21	690	1140	1830	45	625	110	1130	1240	265
10	201	22	47,995	750	520	1270	19	2	22	651	1029	1680	10	609	52	1098	1145	222
10	201	23	46,810	720	520	1240	18	2	23	729	1251	1980		572	157	1193	1350	226
10	201	24	46,180	620	520	1140	15	2	24	700	1050	1750		611	89	1291	1390	219
10	203	25	45,040	610	520	1130	15	2	25	603	1147	1750		599	4	1286	1290	174
10	144	26	44,130	610	520	1130	15	2	26	593	1067	1660		543	50	1230	1280	114
10	59	27	43,170	540	520	1060	14	2	27	593	1157	1750		539	54	1226	1280	113
10	59	28	42,270	500	520	1020	13	2	28	524	1076	1600		541	-17	1257	1240	133
10	58	29	41,450	490	520	1010	12	2	29	485	1095	1580		536	-51	1221	1170	154
10	57	30	40,495	530	520	1050	13	2	30	476	1104	1580		487	-11	1201	1190	154
10	54	31	39,495	630	520	1150	16	2	31	615	1275	1790		557	-52	1262	1210	153
10	55	SEPT. 1	38,330	630	520	1150	16	2	1	612	1248	1860		565	47	1233	1280	158
12	62	2	37,310	650	520	1170	16	2	2	612	1178	1790		601	11	1159	1170	212
12	61	3	36,040	850	520	1370	21	2	3	632	1328	1960		587	45	1175	1220	280
12	62	4	34,350	780	520	1300	20	2	4	827	1593	2420		439	388	1112	1500	296
12	62	5	33,255	530	520	1050	13	2	5	758	1182	1940		525	233	987	1320	250
12	62	6	32,180	880	520	1380	21	2	6	515	1365	1880		447	68	982	1050	246
12	67	7	30,535	950	520	1370	21	2	7	837	1403	2240		528	309	961	1230	270
12	66	8	28,995	830	520	1350	21	1	8	827	1413	2240		535	292	998	1290	259
12	52	9	27,440	820	520	1340	20	0	9	808	1532	2340		525	283	1017	1300	265
12	36	10	26,115	810	520	1330	20		10	800	1420	2240		534	266	994	1260	254
12	36	11	24,470	790	520	1310	20		11	790	1410	2200		544	246	1014	1260	238
12	36	12	22,665	770	520	1290	19		12	770	1570	2340		533	237	1143	1380	237
12	36	13	21,765	760	520	1280	19		13	751	1609	2360		516	235	1425	1650	212
12	22	14	20,395	740	520	1260	18		14	741	1519	2260		436	305	1275	1530	85
12	12	15	19,055	630	520	1150	16		15	722	1378	2100		425	297	1283	1530	85
12	12	16	18,035	252	520	772	6		16	614	1216	1830		203	411	1189	1600	47
12	12	17	17,610	236	520	756	6		17	246	1144	1390		198	48	1162	1210	45
12	12	18	17,260	101	520	621	3		18	230	1190	1420		194	36	1254	1290	30
12	12	19	17,245	27	520	547	1		19	58	1042	1140		194	-95	1206	1110	28
12	12	20	17,235	27	520	527	1		20	25	1074	1100		183	-157	1217	1060	24
12	12	21	17,180	21	510	531	1		21	26	1064	1090		171	-145	1175	1030	23
12	12	22	17,180	12	509	521	0		22	20	1040	1060		168	-148	1188	1040	24
12	12	23	17,170	12	509	521	0		23	11	1149	1160		141	-130	1220	1090	23
12	12	24	17,220	12	509	521	0		24	12	1088	1100		154	-122	1332	1130	23
12	12	25	17,235	12	509	521	0		25	12	1088	1100		154	-142	1332	1130	23
12	12	26	17,245	12	509	521	0		26	12	1048	1060		154	-142	1332	1130	23
12	12								27	12	1148	1160						
							1,828	177										
										21,126			3,035	61,387	12,752			20,831
																		13

① LISTED HERE ONE DAY LATER THAN AT RESERVOIR

HENRYS FORK ISLAND PARK		ISLAND PARK TO ASHTON		DATE	HENRYS FORK NEAR ASHTON			GRASSY LAKE STORAGE RELEASE ①	STORED DIVERSIONS ASHTON TO ST. ANTHONY	HENRYS FORK AT ST. ANTHONY			STORED DIVERSIONS ST. ANTHONY TO REXBURG		DATE	HENRYS FORK NEAR REXBURG		
NORMAL	TOTAL	STORED LOSS	STORED DIVERSION		STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL	HENRYS FORK	TETON RIVER		STORED	NORMAL	TOTAL
520	1470	24	2	AUG. 8	924	1376	2300	50	899	75	1145	1220	398	140	AUG. 10	-463	1623	1160
520	1490	24	2	10	944	1276	2220	50	863	131	1119	1250	368	116	11	-353	1533	1180
520	1490	24	2	11	944	1216	2160	50	881	113	1097	1210	367	147	12	-401	1521	1120
520	1420	22	2	12	876	1084	1960	50	858	68	1042	1110	368	137	13	-437	1517	1080
520	1380	21	2	13	837	1163	2000	50	819	68	1082	1150	363	94	14	-389	1519	1130
520	1370	21	2	14	827	1173	1900	50	811	266	954	1220	368	59	15	-191	1381	1190
520	1310	20	2	15	788	1072	1840	50	738	80	1110	1190	339	62	16	-321	1441	1120
520	1320	20	2	16	778	1142	1920	50	628	200	970	1170	340	90	17	-230	1390	1160
520	1380	21	2	17	837	1143	1980	50	712	175	1115	1290	350	99	18	-274	1514	1240
520	1380	21	2	18	837	1083	1920	50	707	180	1120	1300	315	100	19	-235	1405	1170
520	1340	21	2	19	797	1043	1840	50	650	197	1023	1220	326	108	20	-237	1487	1250
520	1300	20	2	20	758	1162	1920	50	672	136	1214	1350	329	108	21	-301	1621	1320
520	1230	18	2	21	690	1140	1830	45	625	110	1130	1240	269	100	22	-259	1539	1280
520	1190	17	2	22	651	1029	1680	10	609	52	1088	1140	222	98	23	-266	1576	1310
520	1270	19	2	23	729	1251	1980		572	157	1193	1250	226	62	24	-131	1701	1870
520	1240	18	2	24	700	1050	1750		611	89	1291	1380	119	68	25	-99	1539	1440
520	1140	15	2	25	603	1147	1750		599	4	1286	1290	114	69	26	-179	1679	1400
520	1130	15	2	26	593	1067	1660		543	50	1230	1280	114	55	27	-119	1429	1310
520	1130	15	2	27	593	1157	1750		539	54	1226	1280	113	56	28	-115	1425	1310
520	1060	14	2	28	524	1076	1600		541	-17	1257	1240	133	52	29	-202	1362	1160
520	1020	13	2	29	485	1095	1580		536	-51	1221	1170	154	56	30	-261	1361	1100
520	1010	12	2	30	476	1104	1580		487	-11	1201	1190	154	51	31	-216	1286	1070
520	1050	13	2	31	515	1275	1790		567	-52	1262	1210	153	46	SEPT. 1	-251	1411	1180
520	1150	16	2	1	612	1248	1860		565	47	1233	1280	158	45	2	-156	1266	1110
520	1150	16	2	2	612	1178	1790		601	11	1159	1170	212	36	3	-237	1307	1070
520	1170	16	2	3	632	1328	1960		587	45	1175	1220	290	55	4	-300	1510	1210
520	1370	21	2	4	827	1593	2420		439	388	1112	1500	296	121	5	-29	1449	1420
520	1300	20	2	5	758	1182	1940		525	233	987	1220	260	200	6	-227	1337	1110
520	1050	13	2	6	515	1365	1880		447	68	982	1050	248	178	7	-358	1426	1070
520	1380	21	2	7	837	1403	2240		528	309	981	1290	270	202	8	-163	1343	1180
520	1370	21	2	8	827	1413	2240		535	292	998	1290	269	199	9	-176	1336	1160
520	1350	21	1	9	808	1532	2340		525	283	1017	1300	266	204	10	-187	1427	1240
520	1340	20	0	10	800	1420	2240		534	266	994	1260	254	219	11	-207	1467	1260
520	1330	20		11	790	1410	2200		544	246	1014	1260	235	237	12	-226	1536	1310
520	1310	20		12	770	1570	2340		533	237	1143	1380	237	251	13	-251	1951	1700
520	1290	19		13	751	1609	2360		516	235	1425	1660	212	228	14	-205	2196	1990
520	1280	19		14	741	1519	2260		436	305	1275	1580	85	21	15	-199	1661	2060
520	1260	18		15	722	1378	2100		425	297	1283	1580	86	26	16	-185	1368	2150
520	1150	16		16	614	1216	1830		203	411	1189	1600	47	26	17	-338	1542	1880
520	772	6		17	246	1144	1390		198	48	1162	1210	43	20	18	-15	1755	1740
520	756	6		18	230	1190	1420		194	36	1254	1290	30	12	19	-6	1706	1700
520	621	3		19	98	1042	1140		194	-96	1206	1110	28	14	20	-136	1656	1520
520	547	1		20	26	1074	1100		183	-157	1217	1060	24	14	21	-195	1685	1490
520	527	1		21	26	1064	1090		171	-145	1175	1030	23	11	22	-179	1639	1460
520	531	1		22	20	1040	1060		168	-148	1188	1040	24	11	23	-183	1653	1470
509	521	0		23	11	1149	1160		141	-130	1220	1090	23	11	24	-164	1744	1580
509	521	0		24	12	1088	1100		154	-142	1332	1190	23	8	25	-177	1787	1810
509	521	0		25	12	1088	1100		154	-142	1332	1190	23	8	26	-173	1783	1610
509	521	0		26	12	1048	1060		154	-142	1332	1190	23	8	27	-173	1783	1610
509	521	0		27	12	1148	1160											
		1,828	177		71,126			3,035	61,387	12,762			20,831	13,658		-21,727		

① LISTED HERE ONE DAY LATER THAN AT RESERVOIR

STORAGE DIVERSIONS ON HENRYS

JULY

24 HOUR SECOND-FEET EXCEPT

AUGUST

- ① FROM U.S.
- ② FROM FREMONT MADISON
- ③ AFTER TRANSFER OF 85 A.F. TO MARTIN
- ④ AFTER TRANSFER OF 120 A.F. TO MARTIN

XCEPT AS NOTED

SEPTEMBER

⑤	INCLUDES 392 A.F. FROM FARMERS OWN, 100 FROM ST. ANTHONY UNION, 120 FROM CONANT CREEK, 89 FROM YELLOWSTONE, 210 FROM INDEPENDENT	⑨	AFTER TRANSFER OF 30 A.F. TO ALMY, 1,333 TO TWIN GROVES, 15 TO CHESTER, 8 TO FARMERS FRIEND	⑬	AFTER TRANSFER OF 117 A.F. FROM
⑥	AFTER TRANSFER OF 392 A.F. TO MARYSVILLE	⑩	AFTER TRANSFER 80 FROM SILKEY, 10 FROM CURR, 15 FROM F.R. CANAL	⑭	AFTER TRANSFER OF 117 TO DEW
⑦	INCLUDES 30 A.F. FROM FALL RIVER CANAL	⑪	AFTER TRANSFER OF 15 A.F. TO CUR	⑮	AFTER TRANSFER 6 FROM F.R. CANAL
⑧	AMERICAN FALLS 2,582 A.F., JACKSON LAKE 13,189 A.F.	⑫	AFTER TRANSFER 15 A.F. FROM SILKEY, 10 TO CHESTER	⑯	AFTER TRANSFER 1,333 A.F. FROM 50 TO SALEM UNION

1958

PLATE NO. 22

SEPTEMBER

13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30												
18	12	12	12	8	6	6	6	6	4	4	4	4	4	4	0														
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0														
7	6	6	5	5	5	5	5	5	5	5	6	6	6																
47	47	46	0																										
21	11	11	6	6	4	4	4	4	4	4	4	4	4																
35	91	87	97	97	97	97	95	93	83	63	75	75	75																
7	8	8	7	7	7	7	7	7	7	7	7	7	7																
9	11	10	10	9	9	9																							
54	54	54	54	54	54	54	54	54	54	54	54	54	54																
32	11	8	8	8	8	8	8	8	7	0																			
27	22	22																											
155	159	157	0																										
516	436	426	203	198	194	194	183	171	168	141	154	154	154																
70	48	48	47	43	30	28	24	23	24	23	24	23	23																
142	37	38																											
212	85	86	47	43	30	28	24	23	24	23	24	23	23																

NO.	TOTAL		RESERVOIR ALLOTMENTS IN ACRE-FEET					
	SECOND- FEET	ACRE- FEET	FREMONT MADISON	HENRYS LAKE	OTHER RESERVOIRS	RENTALS	TOTAL	HEADGATE EQUIVALENT
1	800	1,587	1,410			① 305	1,715	1,693
2	177	351	360				360	351
3	297	589	614				614	599
4	63	125	135				135	132
5	1,624	3,221	④ 1,756			② 1,548	3,304	3,221
6	404	801	⑨ 130			② 692	822	801
7	526	1,043	⑨ 170		② 445	② 443	1,058	1,043
8	705	1,398	③ 1,558				1,558	1,519
9	12,360	24,516	⑤ 19,978			② 5,168	25,146	24,516
10	4,049	8,031	⑥ 8,057			② 180	8,237	8,031
11	84	167	⑦ 110			② 61	171	167
12	12,684	25,159	10,135		⑧ 16,071	② 383	26,589	25,159
13	140	278	140			② 145	285	278
14	514	1,020	⑨ 6,522				6,522	6,359
15	1,270	2,519	⑩ 1,632			② 952	2,584	2,519
16	85	169	⑪ 569				569	555
17	32	63	⑫ 65				65	63
18	1,165	2,310	⑬ 736	1,150	X	② 527	2,413	2,310
19	6,109	12,117	1,847	11,140	X		12,987	12,228
20	1,042	2,066	⑭ 3,201	5,460	X	② -812	7,849	7,440
21	3,496	6,934	⑮ 5,772			② 1,340	7,112	6,934
22	4,357	8,642	⑮ 7,148			② 1,716	8,864	8,642
23	10,381	20,591	⑰ 7,804	19,430	X		27,234	25,796
24	61,387	121,759	78,079	37,180	16,516	12,343	144,118	138,312
25	26	52	2,397	5,460	X		7,857	7,448
26	15,018	29,788	9,079	21,520	X	② 812	31,411	29,788
27	5,773	11,450	4,960	16,140	X		21,100	19,953
28	14	27	28				28	27
29	20,831	41,317	16,464	43,120		812	60,396	57,216

TRANSFER OF 30 A.F. TO ALMY, 1,333 TO TWIN GROVES.

⑬ AFTER TRANSFER OF 117 A.F. FROM ST. ANTHONY UNION

⑰ AFTER TRANSFER OF 50 A.F. FROM TWIN GROVES.

TO FARMERS FRIEND

⑭ AFTER TRANSFER OF 117 TO DENVER, 100 TO MARYSVILLE

⑱ BELOW REXBURG STATION

CANAL	NO	JUNE										JULY																				
		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	
TRAIL CREEK IRRIGATION CO.	1																															
STRING CANAL	2				61	61	56	58	58	41	41	41	33	53	86	86	92	92	92	92	80	74	68	68	58	67	82	83	79	79	79	
FOX CREEK	3				44	44	39	39	39	27	27	27	24	24	26	26	20	20	20	20	20	17	17	14	14	14	19	37	37	37	34	
GARDEN WATER CO.	4				24	19	19																					3	3	3		
TETON CREEK CANALS	5																											6	6	5		
SOUTH LEIGH	6				78	30	63	47	47	19	13	13																45	44	44	38	
NORTH LEIGH	7				10	10	20	20	30	30	35	35	35	35	33	20	20	20	20	20	20	15	15	15	15	15	15	15	15	10	14	
SPRING CREEK	8				2	2	2	16	2	2	2	2	2	7	7	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
HORSESHOE & SWAMPS	9				10	10	10	10	10	10	10	10	7	16	19	19	17	17	14	7	7	7	7	3	1	1	1	7	7	7	12	
																								2	3	3	3	3	3	3	3	
TOTAL IN TETON BASIN	10				229	176	209	190	186	129	130	128	101	135	173	171	151	151	148	141	129	120	109	104	103	102	122	201	196	190	180	
EQUIVALENT AT STANTHONY GAGE (3)	11				141	108	129	117	114	79	80	80	79	62	83	106	105	93	93	91	87	79	74	67	64	63	63	75	124	121	117	
CANYON CREEK CANAL	12												9	24	24	22	22	22	21	21	18	18	17	15	16	16	16	16	16	15	15	
TOTAL ABOVE STANTHONY GAGE	13				141	108	129	117	114	79	80	80	88	86	107	128	127	115	114	112	105	97	91	82	80	79	79	91	140	136	132	
CROSS CUT INFLOW	14												38	216	205	239	239	239	245	243	213	219	213	205	251	13	213	227	269	272	275	
TETON RIVER BELOW DIVERSIONS	15 (4)													60	65	60	90	90	90	90	60	40	30	25	25	30	35	25	30	20	35	
SIDOWAY	16																										7	7	8	6	5	
WILFORD	17													78	54	56	43	41	43	52	43	41	38	41	45	0	40	31	16	12	14	
TETON IRRIGATION	18																										14	14	21	22	7	
GOOD LUCK	19												18	13	6	4	5	6	6	9	7	9	7	7	8	6	6	7	10	6	6	
PIONEER	20												2	3	0						0	2	0			0	4	0	2	2	1	
STEWART	21													0	1	0	0	0	3	1	0	5	1	0	6	6	4	3	5	6	6	
PINCOCK - BYINGTON	22													8	7	6	12	12	12	7	7	4	9	3	0	2	2	2	1	1	1	
PINCOCK - GARNER	23													4	4	3	0	0	0	6	5	4	1	0	0	0	2	6	7	6	10	
GARDNER	24																												5	3	4	
EAMES - THOMPSON	25																0	6	6	6	3	0					0	2	0			
TETON ISLAND FEEDER	26													9	56	64	62	58	58	47	43	39	23	21	25	0					0	
ROXANA	27													11	9	14	16	12	8	9	8	4	2	3	5	2	0	2	0			
WOODMANSEE - JOHNSON	28															3	3	4	7	4	0	2	0									
ISLAND WARD	29												24	0	0	0	1	0	0	9	9	9	31	42	42	33	39	37	27	39	39	
REXBURG IRRIGATION	30													34	96	117	107	81	80	85	73	64	59	41	48	56	27	24	27	34	61	
MC CORMICK - ROWE	31													2	3	3	3	3	3	4	4	3	3	3	3	3	3	3	3	3	3	
BIGLER	32		3	3	4	4	0	1					4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
MISCELLANEOUS	33				4	4	4	4	4	4																						
TOTAL BELOW STANTHONY GAGE	34		3	3	8	8	4	5	4	4			4	48	166	240	276	256	227	230	251	206	190	177	165	186	112	152	142	136	154	
TOTAL TETON RIVER	35		3	3	8	149	112	134	121	118			84	136	252	347	404	383	342	344	363	311	287	268	247	266	191	231	233	276	300	

STORAGE DIVERSIONS FROM TETON RIVER

24 HOUR SECOND-FEET EXCEPT AS NOTED

AUGUST																																											
78	79	78	78	77	68	65	62	62	60	60	60	58	36	36	36	36	36	35	35	37	37	37	35	35	35	35	33	33	33	33	33	33	33	21	21	21	21	21	21	21			
34	34	34	34	20	30	27	27	27	27	26	25	25	25	25	23	23	21	21	27	27	27	26	26	26	26	26	26	26	26	26	26	26	24	24	24	24	24	24	24	10			
38	38	36	36	34	4	2	2																																				
14	13	13	13																																								
2	12	12	12	12																																							
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			
80	79	176	176	146	105	97	94	92	90	89	88	87	65	65	65	63	63	60	60	63	68	68	65	65	65	63	63	63	63	63	63	63	49	49	49	49	49	49	49	49	35	25	
11	11	110	108	108	90	65	60	58	57	55	55	54	54	40	40	40	39	39	37	37	42	42	42	40	40	40	40	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
5	15	15	14	14	14	13	13	13	12	12	12	13	13	13	12	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
126	125	122	122	104	78	73	71	69	67	67	67	67	67	53	52	50	49	49	47	47	52	52	52	50	50	49	49	48	48	48	48	48	48	48	48	39	39	39	39	39	39	39	39
281	269	219	216	227	230	224	216	216	219	198	202	192	188	172	146	152	145	140	140	140	140	145	140	133	136	143	148	148	152	158	168	158	156	139	114	114	107	101	78	77	73	73	75
80	90	90	90	70	70	90	90	90	80	90	80	80	80	80	75	75	70	60	50	40	40	50	50	50	70	110	80	80	90	90	100	100	100	130	140	140	140	130	110	90	100	100	100
2	4	4	4	4	1	2	0	2	6	3	4	5	4	7	7	7	7	5	0	0	3	4	3	3	1	1	1	2	1	5	4	4	3	4	6	0							
10	10	11	11	11	21	21	21	23	23	21	16	20	9	2	0																												
4	21	20	24	0	4	4	0																																				
0																																											
7	6	3	3	3	3	5	5	4	4	4	4	3	0																														
2	1	1	1	1	2	1	2	1	0																																		
9	7	7	7	1	2	2	3	4	5	4	1	1	1	1	0	0	0	0	1	0	0	2	0																				
4	3	3	2	2	2	2	3	2	2	0																																	
0	2	2	2	4	4	0																																					
13	9	5	0	0	0	3	7	7	0																																		
0	4	0																																									
34	0	0	0	0	15	21	26	1	0	0	18	18	17	22	31	33	36	34	33	24	22	27	24	0	0	10	12	21	5	0	0	0	11	11	8	8	8	11	5	12	15	2	
51	46	25	21	25	8	8	9	0																																			
3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	0																												
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	4	4	4	4	4	4	4	4	4	4		
132	119	92	82	68	53	69	78	75	47	38	31	52	42	37	34	94	72	63	93	64	95	85	44	39	13	41	51	52	60	60	52	49	14	30	30	16	17	13	17	12	16	22	
265	244	214	204	162	131	142	149	144	114	105	98	119	95	89	84	143	121	110	140	116	147	137	94	89	62	90	99	100	108	108	100	95	82	69	69	55	56	52	56	51	46	45	

① FROM F
② RESERV
③ LINE 10

CEPT AS NOTED

- ① FROM FREMONT MADISON DISTRICT
- ② RESERVOIR RIGHT X 1.42
- ③ LINE IS DIVIDED BY 1.625 AND 1 DAY LATER

⑤ AFTER TRANSFER OF BOA F. TO FARMERS FRIEND

SEPTEMBER

SEPTEMBER																											TOTAL		RESERVOIR ALLOTMENT-ACRE-FEET																										
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	NO.	SECOND- FEET	ACRE- FEET	FREMONT MADISON	RENTALS	TOTAL	HEADGATE EQUIVALENT																										

- ④ ESTIMATED BY DEPUTY WATERMASTER
 ⑤ AFTER TRANSFER OF 50 A.P. TO FARMERS FRIEND

SON DISTRICT

X 142

1685 AND 1 DAY LATER

J U N E

TOTAL

JULY

TOTA

AUGUST

TOTAL

SEPTEMBER

101

TOTAL INTO TETON RIVER = 14,661 S.F. = 29,080 A.F.

MISCELLANEOUS RECORDS ON SQUIRREL CREEK

PLATE NO 238

1958

24 HOUR SECOND- FEET EXCEPT AS NOTED

24 HOUR SECOND- FEET EXCEPT AS NOTED																																	
LOCATION	JUNE																														TOTAL		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
NORTH SQUIRREL CREEK BELOW SOBOONE DIV.																																	
NORTH SQUIRREL CREEK AT RANGER STATION																																	
INDIAN LAKE (ACRE- FEET)																	10													15			
BERGMAN RESERVOIR (ACRE- FEET)																	11																
BERGMAN OUTLET																	961													905			
BOOM CREEK CANAL																	266													265			
SQUIRREL CREEK BELOW BOOM CANAL																	0													0			
SQUIRREL CREEK CANAL													0	12	9	9	8	9	9	10	11	12	12	13	13	13	13	12	12	12	189		
																	17													12	9	8	6
													0	5	5	5	5	5	8	7	10	16	17	17	17	17	13	11	10	9	177		

LOCATION	JULY																															TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
NORTH SQUIRREL CREEK BELOW SO. BOONE DIV.																																
NORTH SQUIRREL CREEK AT RANGER STATION										14					9			9		8			6		6							6
INDIAN LAKE (ACRE- FEET)									14						11			9		10			8		8							
BERGMAN RESERVOIR (ACRE- FEET)														836				816		810			800		795						781	
BERGMAN OUTLET														261				237		211			180		152						136	
BOOM CREEK CANAL														0	3					4		6		5		6					2	
SQUIRREL CREEK BELOW BOOM CANAL	12	11	11	9	8	8	12	8	8	8	8	8	8	8	7	8	9	8	8	8	8	8	8	8	8	8	8	7	6	6	7	257
SQUIRREL CREEK CANAL	7						9			10	8		7	5	2	2	6	7	7		9	9	8	6	6		6	4	2			
	9	10	10	10	10	10	10	10	11	10	10	9	8	8	6	5	6	8	8	7	10	9	9	8	8	8	8	8	6	6	8	263

LOCATION	AUGUST																															TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
NORTH SQUIRREL CREEK BELOW SO. BOONE DIV	6					6					4			5			4			5				4							4	
NORTH SQUIRREL CREEK AT RANGER STATION	7																															
INDIAN LAKE (ACRE- FEET)						752					738			723			709							503							464	
BERGMAN RESERVOIR (ACRE- FEET)						111					88			66										123							126	
BERGMAN OUTLET	2					3					4			4			1			1				5							3	
BOOM CREEK CANAL	6	6	6	6	6	6	5	5	5	5	4	4	3	3	6	5	4	6	4	5	5	5	5	5	4	0	0	0	0	0	0	124
SQUIRREL CREEK BELOW BOOM CANAL	5	5	4			4	5			4	5	4	6	7		6	6	5	1	2	2	3	8	7	8	7	6			7	9	
SQUIRREL CREEK CANAL	7	6	8	6	6	6	6	6	6	6	6	6	8	7	5	6	6	4	3	3	2	5	7	7	7	7	5	5	5	5	5	175

LOCATION	SEPTEMBER																															TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
NORTH SQUIRREL CREEK BELOW SO. BOONE DIV						3								8																		
INDIAN LAKE (ACRE- FEET)						446								455																		
BERGMAN RESERVOIR (ACRE- FEET)						98								70																		
BERGMAN OUTLET						2								0																		
BOOM CREEK CANAL	0	5	5	5	5	5	5	5	0																						35	
SQUIRREL CREEK BELOW BOOM CANAL	8	1	1	1	2	2			10	10				15																		
SQUIRREL CREEK CANAL	5	4	3	3	3	2	2	3	3	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	

HEAVY IRRIGATION ON SQUIRREL MEADOWS DURING MOST OF SEASON

RELEASES FROM BERGMAN RESERVOIR STARTED JULY 15; RELEASES FROM INDIAN LAKE ABOUT AUG. 20-31

TOTAL DIVERSIONS FOR SEASON: BOOM CANAL 605 S.F.; SQUIRREL CANAL 725 S.F.

[illegible][illegible]

S E P T E M B E R

STATE OF NEW YORK
IN SENATE
January 1, 1900

YEAR
1899
MEAN
1.250
ACRE-FOOT
904,940

498	540	380	399	1,474	1,801	1,140	912	317	2,518	2,278	2,728
30,620	32,100	23,350	21,560	81,860	110,700	67,840	56,070	20,640	154,800	140,100	162,300

1	440	381	387	390	376	376	391	393	394	376	1600	1910	1810	530	530	177	2630	2210	2950
2	440	378	376	376	376	376	376	376	376	376	1600	1910	1810	530	530	177	2630	2210	2950
3	440	376	376	376	376	376	376	376	376	376	1600	1910	1810	530	530	177	2630	2210	2950
4	440	376	376	376	376	376	376	376	376	376	1600	1910	1810	530	530	177	2630	2210	2950
5	440	376	376	376	376	376	376	376	376	376	1600	1910	1810	530	530	177	2630	2210	2950
6	440	376	376	376	376	376	376	376	376	376	1600	1910	1810	530	530	177	2630	2210	2950
7	440	376	376	376	376	376	376	376	376	376	1600	1910	1810	530	530	177	2630	2210	2950
8	440	376	376	376	376	376	376	376	376	376	1600	1910	1810	530	530	177	2630	2210	2950
9	435	378	378	398	378	378	398	398	398	378	1600	1900	1810	540	540	177	2620	2220	2900
10	435	380	380	399	380	380	399	399	399	380	1600	1900	1810	545	545	177	2620	2220	2900
11	435	381	381	399	381	381	399	399	399	381	1590	1900	1800	545	545	177	2610	2200	2890
12	435	381	381	399	381	381	399	399	399	381	1590	1900	1800	535	535	177	2600	2200	2880
13	435	381	381	399	381	381	399	399	399	381	1590	1900	1800	525	525	180	2600	2200	2870
14	435	381	381	399	381	381	399	399	399	381	1580	1880	1800	525	525	180	2600	2190	2860
15	468	381	381	399	381	381	399	399	399	381	1580	1880	1800	530	530	180	2570	2180	2920
16	560	381	381	400	381	381	400	400	400	381	1580	1880	1800	530	530	180	2570	2180	2920
17	560	381	381	402	381	381	402	402	402	381	1570	1870	1800	515	515	180	2570	2170	2950
18	560	381	381	404	381	381	404	404	404	381	1570	1870	1800	505	505	180	2570	2170	2940
19	560	381	381	404	381	381	404	404	404	381	1570	1860	1830	515	515	183	2570	2170	2920
20	555	381	381	404	381	381	404	404	404	381	1570	1860	1830	510	510	183	2560	2160	2900
21	555	381	381	404	381	381	404	404	404	381	1560	1860	1830	510	510	183	2560	2160	2900
22	555	381	381	404	381	381	404	404	404	381	1560	1860	1830	515	515	183	2560	2160	2890
23	555	381	381	404	381	381	404	404	404	381	1560	1860	1830	515	515	183	2550	2150	2880
24	550	381	381	404	381	381	404	404	404	381	1550	1860	1830	515	515	183	2460	2150	2870
25	550	381	381	404	381	381	404	404	404	381	1550	1850	1830	515	515	183	2280	2140	2860
26	550	381	381	404	381	381	404	404	404	381	1550	1850	1830	515	515	183	2280	2130	2840
27	550	381	381	404	381	381	404	404	404	381	1540	1840	1830	520	520	418	2280	2020	2140
28	545	381	381	404	381	381	404	404	404	381	1540	1840	1830	520	520	418	2270	2020	2140
29	545	381	381	404	381	381	404	404	404	381	1540	1830	1830	520	520	418	2260	2040	1780
30	545	381	381	404	381	381	404	404	404	381	1540	1830	1830	520	520	418	2260	3040	1060
31	545	381	381	404	381	381	404	404	404	381	1540	1830	1830	520	520	418	2260	3020	806

2,121	1,899	1,623	1,535	2,564	2,820	2,820	167,800	594,800	438,000	311,000	233,000	244,500	4,108
130,400	113,000	99,770	94,410	112,400	173,400	173,400	167,800	594,800	438,000	311,000	233,000	244,500	4,108
2,121	1,899	1,623	1,535	2,564	2,820	2,820	167,800	594,800	438,000	311,000	233,000	244,500	4,108
2,121	1,899	1,623	1,535	2,564	2,820	2,820	167,800	594,800	438,000	311,000	233,000	244,500	4,108

MEAN 3,788
AGREEMENT 2,742,480

YEAR
1950

1	2090	1600	1560	1590	2570	2920	2130	2660	3150	11790	6020	1250	1250
2	2080	1600	1540	1830	2600	2940	3150	2660	3150	11790	6020	1250	1250
3	2180	2030	1600	2030	2570	2940	3660	2940	3660	10200	5900	1250	1250
4	2180	2030	1600	2030	2570	2940	3660	2940	3660	10200	5900	1250	1250
5	2150	2020	1600	2020	2740	2870	4240	2870	4240	9230	5820	1130	1130
6	2110	2000	1600	2000	2740	2870	4930	2870	4930	9420	5620	1030	1030
7	2090	2000	1600	2000	2640	2920	5380	2920	5380	10100	5550	3920	4070
8	2110	1980	1640	1980	2660	2920	5530	2920	5530	10100	5550	3920	4070
9	2090	1940	1610	1940	2670	2940	6170	2940	6170	9620	5480	3840	4070
10	2120	1920	1610	1920	2710	3030	6830	3030	6830	8240	5380	3800	4110
11	2120	1920	1600	1920	2660	2980	7560	2980	7560	7230	5310	3780	4130
12	2110	1950	1580	1950	2670	3030	8620	3030	8620	7260	5190	3760	4220
13	2110	1990	1580	1990	2690	3110	8240	3110	8240	6890	5100	3720	4390
14	2090	2070	1600	2070	2670	3200	7380	3200	7380	6450	5020	3680	4320
15	2080	1980	1620	1980	2690	3400	7030	3400	7030	6170	4950	3640	4280
16	2110	1940	1650	1940	2760	3130	7030	3130	7030	6000	4880	3620	4320
17	2180	1890	1680	1890	2780	2690	7870	2690	7870	6070	4820	3640	4320
18	2160	1850	1680	1850	2790	3020	6170	3020	6170	4770	4750	3640	4320
19	2180	1910	1650	1910	2720	3070	6430	3070	6430	4750	4720	3600	4260
20	2180	1880	1670	1880	2710	2920	6480	2920	6480	4720	4720	3600	4260
21	2180	1850	1650	1850	2690	2940	6510	2940	6510	4720	4720	3600	4260
22	2150	1800	1650	1800	2670	3030	6170	3030	6170	4720	4720	3620	4240
23	2150	1750	1570	1750	2690	2880	5870	2880	5870	4630	4630	3580	4260
24	2130	1750	1570	1750	2690	2900	5840	2900	5840	4610	4610	3560	4260
25	2150	1750	1570	1750	2720	2900	5600	2900	5600	4520	4520	3500	4240
26	2130	1800	1580	1800	2670	2920	5140	2920	5140	4520	4520	3460	4220
27	2120	1800	1600	1800	2640	2900	4790	2900	4790	4590	4590	3420	4190
28	2150	1700	1680	1700	2600	2900	4980	2900	4980	4430	4430	3220	3780
29	2120	1660	1650	1660	2920	2200	5460	2200	5460	4340	4340	3920	3150
30	2080	1670	1670	1670	2960	2260	5870	2260	5870	4360	4360	4260	2520

19,880	16,660	16,610	14,220	11,540	12,110	20,370	14,3,000	111,600	40,480	23,120	19,130
323	280	270	231	208	197	342	2,326	1,875	658	376	322

Year	Mean	Above-First	Below-Last
620			720

[illegible]

NAME	AGE	HEIGHT	WEIGHT	HAIR	COMPLEXION	RELIGION	EDUCATION	PROFESSION	STATUS	DATE
703	656	585	502	485	473	787	1,960	1,029	708	637
642	637	708	502	485	473	787	1,960	1,029	708	637
38,230	39,160	43,540	35,970	26,950	29,100	46,830	120,500	61,230	43,540	39,160
13,210	39,010	35,970	30,850	26,950	29,100	46,830	120,500	61,230	43,540	39,160

[illegible]

1,210	1,010	1,020	922	899	1,110	8,630	41,020	8,960	2,900	1,350	1,000
19.6	16.9	16.6	15.0	16.2	18.0	14.5	667	151	47.2	21.9	16.9

Year
Mean
70,031

Agave-Plant

Plant

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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
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[illegible]

31	132	122	0
30	142	130	0
29	158	133	0
28	170	129	1
27	159	143	3
26	142	150	9
25	133	154	11
24	118	137	12
23	112	112	13
22	107	19	14
21	97	14	15
20	81	10	16
19	65	9	17
18	44	3	18
17	31	1	19
16	26	0	20
15	22	0	21
14	20	0	22
13	21	0	24
12	26	0	26
11	23	0	29
10	19	0	32
9	14	0	
8	10	0	
7	9	0	
6	3	0	
5	1	0	
4	0	0	
3	0	0	
2	0	0	
1	0	0	
0	0	0	

2,060	1,910	1,700	1,330	1,180	1,500	5,700	26,420	9,090	3,940	2,450	1,850
33.6	32.1	27.6	21.6	21.3	24.4	95.8	430	153	64.0	39.9	31.0

[illegible]

[illegible][illegible]

Year	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Revenue	5,997	8,560	12,410	12,680	13,490	3,200	2,304	2,346	2,809	2,247	2,300
Expenses	356,900	526,300	763,000	754,300	829,700	190,400	141,700	130,300	167,100	138,200	141,400
Net Income	3,405	2,809	2,247	2,300	2,346	2,304	2,304	2,346	2,809	2,247	2,300

[illegible]

Year	Mean	Area	Perimeter
1950	1,500	24.3	33.4
1951	1,160	20.8	80.1
1952	1,170	Est. 19	153
1953	861	Est. 16	238
1954	595	10	271
1955	567	Est. 12	32.7

[illegible]

[illegible][illegible]

132	163	376	23,110	15,000	13,870	23,810	26,620	60,690	55,740	97,940	77,340	54,690
919	937	1,593	1,258	987	447	987	937	1,593	1,258	987	447	919

YEAR	MEAN	ACRES PER	YIELD
1965	466.610		

31	21.1	25.2	4.38	55.2	104.0	99.8	15.10	134.0	11.50	52.6
30	21.1	25.2	4.38	55.8	106.0	104.0	12.60	138.0	10.50	52.6
29	21.1	25.2	4.33	56.8	108.0	106.0	11.50	144.0	10.10	52.1
28	21.1	25.2	4.33	57.9	110.0	108.0	10.70	135.0	10.60	52.1
27	21.1	25.6	4.32	54.7	111.0	110.0	11.60	135.0	11.30	52.1
26	21.1	25.6	4.27	53.6	109.0	109.0	12.00	136.0	11.30	52.1
25	21.1	25.6	4.27	52.6	102.0	102.0	10.90	136.0	11.40	52.1
24	21.1	25.6	4.27	53.1	99.8	99.8	9.98	141.0	12.40	52.1
23	21.1	25.6	4.27	45.7	96.8	84.8	8.48	150.0	12.70	52.1
22	21.1	25.2	4.27	41.4	94.4	84.4	8.44	161.0	11.90	53.1
21	21.1	25.2	4.27	32.9	93.2	81.8	8.18	168.0	12.30	54.7
20	21.1	25.2	4.27	27.2	92.6	72.8	7.28	169.0	13.00	54.7
19	21.1	25.2	4.22	20.8	95.0	75.0	7.50	169.0	13.40	62.1
18	21.1	24.8	4.22	11.8	98.6	77.2	7.72	170.0	13.80	75.6
17	21.1	24.8	4.09	23.5	105.0	77.8	7.78	174.0	13.80	77.2
16	21.1	24.8	4.09	44.3	111.0	78.9	7.89	178.0	13.20	11.50
15	21.1	24.8	4.32	44.3	116.0	78.9	7.89	170.0	13.10	12.60
14	21.1	24.8	4.32	45.2	125.0	80.6	8.06	168.0	13.70	12.80
13	21.1	24.8	4.32	46.7	126.0	81.2	8.12	168.0	13.80	12.90
12	21.1	24.8	4.32	46.7	121.0	81.2	8.12	162.0	14.20	13.10
11	21.1	24.8	4.32	47.1	123.0	82.4	8.24	159.0	14.90	13.30
10	21.1	24.8	4.32	47.1	118.0	83.6	8.36	159.0	14.90	13.40
9	21.1	24.8	3.63	47.6	109.0	86.0	8.60	164.0	14.70	13.50
8	21.1	24.8	2.56	47.6	98.0	88.4	8.84	164.0	13.80	13.70
7	21.1	24.4	2.56	47.6	81.8	89.6	8.96	165.0	12.50	13.80
6	21.1	24.4	2.56	47.6	71.2	91.4	9.14	165.0	11.20	13.90
5	21.1	24.4	2.56	47.1	64.2	96.2	9.62	172.0	11.60	13.70
4	21.1	24.4	2.56	47.1	59.5	96.8	9.68	182.0	12.10	13.70
3	21.1	24.4	2.56	4.62	54.7	97.4	9.74	182.0	12.70	13.50
2	21.1	24.4	2.56	2.56	2.56	2.56	2.56	182.0	12.70	13.50
1	21.1	24.4	2.56	2.56	2.56	2.56	2.56	182.0	12.70	13.50

868	839	1,118	960	987	1,151	1,370	2,452	1,762	2,254	1,873	1,671
53,390	49,950	68,760	59,010	54,810	70,780	81,500	150,800	104,800	138,600	115,200	99,450

[illegible]

Year	Mean	Acres Feet
1910	1.5	1.5
1911	1.5	1.5
1912	1.5	1.5
1913	1.5	1.5
1914	1.5	1.5
1915	1.5	1.5
1916	1.5	1.5
1917	1.5	1.5
1918	1.5	1.5
1919	1.5	1.5
1920	1.5	1.5
1921	1.5	1.5
1922	1.5	1.5
1923	1.5	1.5
1924	1.5	1.5
1925	1.5	1.5
1926	1.5	1.5
1927	1.5	1.5
1928	1.5	1.5
1929	1.5	1.5
1930	1.5	1.5
1931	1.5	1.5
1932	1.5	1.5
1933	1.5	1.5
1934	1.5	1.5
1935	1.5	1.5
1936	1.5	1.5
1937	1.5	1.5
1938	1.5	1.5
1939	1.5	1.5
1940	1.5	1.5
1941	1.5	1.5
1942	1.5	1.5
1943	1.5	1.5
1944	1.5	1.5
1945	1.5	1.5
1946	1.5	1.5
1947	1.5	1.5
1948	1.5	1.5
1949	1.5	1.5
1950	1.5	1.5
1951	1.5	1.5
1952	1.5	1.5
1953	1.5	1.5
1954	1.5	1.5
1955	1.5	1.5
1956	1.5	1.5
1957	1.5	1.5
1958	1.5	1.5
1959	1.5	1.5
1960	1.5	1.5
1961	1.5	1.5
1962	1.5	1.5
1963	1.5	1.5
1964	1.5	1.5
1965	1.5	1.5
1966	1.5	1.5
1967	1.5	1.5
1968	1.5	1.5
1969	1.5	1.5
1970	1.5	1.5
1971	1.5	1.5
1972	1.5	1.5
1973	1.5	1.5
1974	1.5	1.5
1975	1.5	1.5
1976	1.5	1.5
1977	1.5	1.5
1978	1.5	1.5
1979	1.5	1.5
1980	1.5	1.5
1981	1.5	1.5
1982	1.5	1.5
1983	1.5	1.5
1984	1.5	1.5
1985	1.5	1.5
1986	1.5	1.5
1987	1.5	1.5
1988	1.5	1.5
1989	1.5	1.5
1990	1.5	1.5
1991	1.5	1.5
1992	1.5	1.5
1993	1.5	1.5
1994	1.5	1.5
1995	1.5	1.5
1996	1.5	1.5
1997	1.5	1.5
1998	1.5	1.5
1999	1.5	1.5
2000	1.5	1.5
2001	1.5	1.5
2002	1.5	1.5
2003	1.5	1.5
2004	1.5	1.5
2005	1.5	1.5
2006	1.5	1.5
2007	1.5	1.5
2008	1.5	1.5
2009	1.5	1.5
2010	1.5	1.5
2011	1.5	1.5
2012	1.5	1.5
2013	1.5	1.5
2014	1.5	1.5
2015	1.5	1.5
2016	1.5	1.5
2017	1.5	1.5
2018	1.5	1.5
2019	1.5	1.5
2020	1.5	1.5
2021	1.5	1.5
2022	1.5	1.5
2023	1.5	1.5
2024	1.5	1.5
2025	1.5	1

[illegible]

* Interpolated

[illegible]

Year	Mean	Acres-Feet	701
1901	4.50	1,507	4.83
1902	4.36	2,269	4.83
1903	4.02	139,500	4.83
1904	4.36	28,730	4.83
1905	4.19	27,630	4.79
1906	4.36	24,210	4.79
1907	4.36	24,730	4.79
1908	4.36	21,730	4.79
1909	4.36	27,630	4.79
1910	4.36	24,210	4.79
1911	4.36	24,730	4.79
1912	4.36	21,730	4.79
1913	4.36	27,630	4.79
1914	4.36	24,210	4.79
1915	4.36	24,730	4.79
1916	4.36	21,730	4.79
1917	4.36	27,630	4.79
1918	4.36	24,210	4.79
1919	4.36	24,730	4.79
1920	4.36	21,730	4.79
1921	4.36	27,630	4.79
1922	4.36	24,210	4.79
1923	4.36	24,730	4.79
1924	4.36	21,730	4.79
1925	4.36	27,630	4.79
1926	4.36	24,210	4.79
1927	4.36	24,730	4.79
1928	4.36	21,730	4.79
1929	4.36	27,630	4.79
1930	4.36	24,210	4.79
1931	4.36	24,730	4.79
1932	4.36	21,730	4.79
1933	4.36	27,630	4.79
1934	4.36	24,210	4.79
1935	4.36	24,730	4.79
1936	4.36	21,730	4.79
1937	4.36	27,630	4.79
1938	4.36	24,210	4.79
1939	4.36	24,730	4.79
1940	4.36	21,730	4.79
1941	4.36	27,630	4.79
1942	4.36	24,210	4.79
1943	4.36	24,730	4.79
1944	4.36	21,730	4.79
1945	4.36	27,630	4.79
1946	4.36	24,210	4.79
1947	4.36	24,730	4.79
1948	4.36	21,730	4.79
1949	4.36	27,630	4.79
1950	4.36	24,210	4.79
1951	4.36	24,730	4.79
1952	4.36	21,730	4.79
1953	4.36	27,630	4.79
1954	4.36	24,210	4.79
1955	4.36	24,730	4.79
1956	4.36	21,730	4.79
1957	4.36	27,630	4.79
1958	4.36	24,210	4.79
1959	4.36	24,730	4.79
1960	4.36	21,730	4.79
1961	4.36	27,630	4.79
1962	4.36	24,210	4.79
1963	4.36	24,730	4.79
1964	4.36	21,730	4.79
1965	4.36	27,630	4.79
1966	4.36	24,210	4.79
1967	4.36	24,730	4.79
1968	4.36	21,730	4.79
1969	4.36	27,630	4.79
1970	4.36	24,210	4.79
1971	4.36	24,730	4.79
1972	4.36	21,730	4.79
1973	4.36	27,630	4.79
1974	4.36	24,210	4.79
1975	4.36	24,730	4.79
1976	4.36	21,730	4.79
1977	4.36	27,630	4.79
1978	4.36	24,210	4.79
1979	4.36	24,730	4.79
1980	4.36	21,730	4.79
1981	4.36	27,630	4.79
1982	4.36	24,210	4.79
1983	4.36	24,730	4.79
1984	4.36	21,730	4.79
1985	4.36	27,630	4.79
1986	4.36	24,210	4.79
1987	4.36	24,730	4.79
1988	4.36	21,730	4.79
1989	4.36	27,630	4.79
1990	4.36	24,210	4.79
1991	4.36	24,730	4.79
1992	4.36	21,730	4.79
1993	4.36	27,630	4.79
1994	4.36	24,210	4.79
1995	4.36	24,730	4.79
1996	4.36	21,730	4.79
1997	4.36	27,630	4.79
1998	4.36	24,210	4.79
1999	4.36	24,730	4.79
2000	4.36	21,730	4.79
2001	4.36	27,630	4.79
2002	4.36	24,210	4.79
2003	4.36	24,730	4.79
2004	4.36	21,730	4.79
2005	4.36	27,630	4.79
2006	4.36	24,210	4.79
2007	4.36	24,730	4.79
2008	4.36	21,730	4.79
2009	4.36	27,630	4.79
2010	4.36	24,210	4.79
2011	4.36	24,730	4.79
2012	4.36	21,730	4.79
2013	4.36	27,630	4.79
2014	4.36	24,210	4.79
2015	4.36	24,730	4.79
2016	4.36	21,730	4.79
2017	4.36	27,630	4.79
2018	4.36	24,210	4.79
2019	4.36	24,730	4.79
2020	4.36	21,730	4.79
2021	4.36	27,630	4.79
2022	4.36	24,210	4.79
2023	4.36	24,730	4.79
2024	4.36	21,730	4.79
2025	4.36	27,630	4.79
2026	4.36	24,210	4.79
2027	4.36	24,730	4.79
2028	4.36	21,730	4.79
2029	4.36	27,630	4.79
2030	4.36	24,210	4.79
2031	4.36	24,730	4.79
2032	4.36	21,730	4.79
2033	4.36	27,630	4.79
2034	4.36	24,210	4.79
2035	4.36	24,730	4.79
2036	4.36	21,730	4.79
2037	4.36	27,630	4.79
2038	4.36	24,210	4.79
2039	4.36	24,730	4.79
2040	4.36	21,730	4.79
2041	4.36	27,630	4.79
2042	4.36	24,210	4.79
2043	4.36	24,730	4.79
2044	4.36	21,730	4.79
2045	4.36	27,630	4.79
2046	4.36	24,210	4.79
2047	4.36	24,730	4.79
2048	4.36	21,730	4.79
2049	4.36	27,630	4.79
2050	4.36	24,210	4.79
2051	4.36	24,730	4.79
2052	4.36	21,730	4.79
2053	4.36	27,630	4.79
2054	4.36	24,210	4.79
2055	4.36	24,730	4.79
2056	4.36	21,730	4.79
2057	4.36	27,630	4.79
2058	4.36	24,210	4.79
2059	4.36	24,730	4.79
2060	4.36	21,730	4.79
2061	4.36	27,630	4.79
2062	4.36	24,210	4.79
2063	4.36	24,730	4.79
2064	4.36	21,730	4.79
2065	4.36	27,630	4.79
2066	4.36	24,210	4.79
2067	4.36	24,730	4.79
2068	4.36	21,730	4.79
2069	4.36	27,630	4.79
2070	4.36	24,210	4.79
2071	4.36	24,730	4.79
2072	4.36	21,730	4.79
2073	4.36	27,630	4.79
2074	4.36	24,210	4.79
2075	4.36	24,730	4.79
2076	4.36	21,730	4.79
2077	4.36	27,630	4.79
2078	4.36	24,210	4.79
2079	4.36	24,730	4.79
2080	4.36	21,730	4.79
2081	4.36	27,630	4.79
2082	4.36	24,210	4.79
2083	4.36	24,730	4.79
2084	4.36	21,730	4.79
2085	4.36	27,630	4.79
2086	4.36	24,210	4.79
2087	4.36	24,730	4.79
2088	4.36	21,730	4.79
2089	4.36	27,630	4.79
2090	4.36	24,210	4.79
2091	4.36	24,730	4.79
2092	4.36	21,730	4.79
2093	4.36	27,630	4.79
2094	4.36	24,210	4.79
2095	4.36	24,730	4.79
2096	4.36	21,730	4.79
2097	4.36	27,630	4.79
2098	4.36	24,210	4.79
2099	4.36	24,730	4.79
2100	4.36	21,730	4.79

507,560

Acres-Feet

Year

701

Mean

221,100

[illegible][illegible]

Mean	Stdev	Est. 55.0	Est. 15.3	Est. 10.0
164	257	10,110	15,290	3,380
				942
				595

[illegible]

Year	Mean	Acres-Feet	Acres-Feet	Year
1925	592	517	445	27,370
1926	431	630	37,480	26,490
1927	1,973	1,427	84,890	57,920
1928	942	680	41,840	35,410
1929	595			

Year
Mean
Acres-Feet
Acres-Feet
549,770
759

Year	Mean	Acres-Feet	Acres-Feet	Year
1925	592	517	445	27,370
1926	431	630	37,480	26,490
1927	1,973	1,427	84,890	57,920
1928	942	680	41,840	35,410
1929	595			

93,220	98,660	119,300	101,000	99,070	103,700	107,700	245,200	132,500	63,240	73,450	88,620
1,516	1,658	1,940	1,643	1,784	1,687	1,810	3,988	2,227	1,029	1,195	1,489

[illegible]

2,904	3,655	3,761	3,318	3,665	3,688	4,327	12,220	7,529	4,790	3,799	3,203
178,600	217,500	230,000	204,000	203,500	214,500	257,500	751,100	448,000	294,500	233,600	190,600

[illegible]

9.700	158	9.700	2.970
15.980	269	9.660	1.230
4.700	157	8.030	25.9
7.460	121	25.250	30.0
18.720	306	3.950	66.4
1.590	25.9		

[illegible]

166	262	291	279	425	433	554	663	86.2	41.4	69.3	85.4
8,850	15,600	17,870	17,170	23,610	26,650	32,960	28,480	5,130	2,540	4,260	5,080
MEAN	ALONG-TERM	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN

YEAR
or
PERIOD
MEAN
ACROSS-SECTION
188,200
260

96	215	271	218	316	508	519	515	519	110	20	78
98	228	271	271	271	415	401	527	576	114	21	84
107	236	274	274	274	523	386	668	107	107	31	81
118	264	277	296	289	504	379	717	103	103	56	75
116	250	289	280	299	485	394	751	88	88	54	77
118	242	309	280	309	478	401	734	78	78	56	77
131	242	309	302	299	394	374	704	80	80	44	72
135	239	299	309	309	372	372	672	80	80	41	71
133	239	286	319	322	365	444	652	88	88	42	67
140	245	280	330	322	368	467	648	99	99	51	39
137	256	280	322	319	459	648	648	92	92	41	39
135	286	277	326	302	470	632	632	101	101	41	35
137	322	274	316	296	511	568	568	120	120	40	46
137	312	309	280	358	561	493	437	112	112	47	56
140	293	376	256	470	596	437	105	105	105	52	75
157	283	372	256	365	624	390	372	98	98	33	80
146	280	330	259	368	672	372	354	94	94	15	75
135	283	302	242	368	680	354	330	92	92	42	75
155	271	299	256	404	684	704	322	81	81	37	78
155	259	286	262	557	692	286	286	74	74	37	81
164	277	268	274	549	668	309	280	72	72	53	86
166	265	274	274	576	620	280	262	77	77	42	71
169	277	280	259	565	588	262	236	61	61	43	67
173	277	277	256	530	572	236	218	18	18	52	75
188	274	280	268	489	523	183	129	18	18	46	73
205	274	277	293	500	508	129	105	21	21	54	72
210	274	259	330	519	519	105	105	72	72	72	67

[illegible][illegible]

1,931	1,005	1,922	2,960	2,548	3,545	6,659	12,160	11,280	12,560	11,740	6,592
118,800	59,830	118,100	182,000	141,500	217,900	396,200	747,500	671,400	772,400	721,800	392,200

[illegible]

Year	Mean	Median	Mode	Range	Standard Deviation	Variance	Kurtosis	Skewness	Normality Test
2019	1.650	1.359	1.663	1.483	1.200	52.930	889		
2020	1.790	1.500	1.870	1.200	91.200	52.930	889		

[illegible]

12,810	0	0	0	0	0	72,090	68,360	78,740	75,730	43,270
208	0	0	0	0	125	1,172	1,149	1,281	1,232	727

[illegible]

111,400	1,811	1,324	2,151	2,897	2,935	3,405	6,217	9,275	8,845	526,300	587,800	556,700	379,100	6,371
78,780	132,200	178,100	163,000	209,400	369,900	570,300	526,300	587,800	556,700	379,100	6,371	5,336		

1	2020	1270	1270	1330	2700	3690	2870	2800	7790	9360	9360	8670	8670
2	9670	1280	1360	1330	2700	2870	2870	2780	7630	9570	9610	8710	8710
3	3350	1320	1320	1330	2700	2840	2840	2780	7290	9510	9360	8380	8380
4	3410	1330	1330	1280	2770	2930	2930	2780	7650	9360	9050	8180	8180
5	2860	1260	1260	1320	2780	3330	2980	2980	8010	9290	9200	7870	7870
6	2840	1340	1340	1330	2770	3650	2960	2960	8010	9290	9200	7870	7870
7	2840	1340	1340	1330	2770	3650	2960	2960	8010	9290	9200	7870	7870
8	1790	1350	1270	2780	3110	6430	5790	3160	8180	9640	8960	7320	7320
9	1660	1360	1280	2770	3160	5790	5790	3160	8440	9730	9170	6970	6970
10	1370	1390	1290	2750	3830	5770	5770	3830	8410	9480	9230	6800	6800
11	1360	1310	1310	2780	3830	5440	11300	8490	8490	9700	9170	6780	6780
12	1360	1310	1300	2730	3880	5310	12200	8380	8380	9770	9200	6940	6940
13	1360	1320	1350	2780	3670	5290	12500	8070	8070	9930	9200	7290	7290
14	1360	1340	2680	2780	3630	5260	11400	7900	7900	9670	9170	7260	7260
15	1330	1340	2690	2800	3710	5190	10500	7840	7840	9610	9140	6990	6990
16	1290	1320	2730	2800	3610	5190	10300	7790	7790	9640	9140	6450	6450
17	1290	1320	2770	2820	3450	5190	10100	7960	7960	9730	9140	6130	6130
18	1290	1310	2780	2860	3410	5290	9640	8460	8460	9930	9020	5870	5870
19	1290	1290	2780	2800	3410	5260	9080	8930	8930	9860	8870	5820	5820
20	1290	1270	2820	2710	3410	4580	8550	8960	8960	9670	8840	5870	5870
21	1290	1290	2820	2780	3470	8700	8700	8870	8870	9480	8930	5710	5710
22	1310	1300	2770	2800	3450	7180	8990	8900	8900	9320	9020	5690	5690
23	1290	1400	2730	2800	3350	7080	9200	9170	9170	9570	9020	5870	5870
24	1290	1380	2730	2890	3370	7130	9290	9700	9700	9540	9020	5580	5580
25	1290	1370	2750	2980	3410	7510	9260	9960	9960	9540	8900	5220	5220
26	1290	1350	2750	2910	3370	8070	9170	9770	9770	9570	8900	4630	4630
27	1300	1340	2760	3020	3350	7900	9170	9540	9540	9510	9080	4090	4090
28	1290	1340	2770	3040	4490	7790	9360	9860	9860	9510	9170	3040	3040
29	1260	1340	2770	3450	4580	8010	9360	9670	9670	9640	9050	2890	2890
30	1260	1340	2770	3830	2940	2940	2940	2940	9570	9200	8900		
31	1270	1270	2750	4160	3610	3610	3610	3610	9830	8960	8900		

728	0	0	0	0	0	357	8,010	12,850	16,240	13,170	7,070
11.8	0	0	0	0	0	6.0	130	216	264	214	119

Year	Mean	Threat
80.7	58.425	Agua-Fert

[illegible]

[illegible][illegible]

Year	OR	Mean	Acres-Fert	Acres-Fert
25.4			18.00	04.024

[illegible]

Year	Mean	Acme-Test
88.5	64,054	

[illegible]

[illegible][illegible]

[illegible][illegible]

Year	Mean	Sum	Area-Feet	965,620
207	207	211	220	211
208	208	212	221	212
209	209	213	222	213
210	210	214	223	214
211	211	215	224	215
212	212	216	225	216
213	213	217	226	217
214	214	218	227	218
215	215	219	228	219
216	216	220	229	220
217	217	221	230	221
218	218	222	231	222
219	219	223	232	223
220	220	224	233	224
221	221	225	234	225
222	222	226	235	226
223	223	227	236	227
224	224	228	237	228
225	225	229	238	229
226	226	230	239	230
227	227	231	240	231
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229	229	233	242	233
230	230	234	243	234
231	231	235	244	235
232	232	236	245	236
233	233	237	246	237
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235	235	239	248	239
236	236	240	249	240
237	237	241	250	241
238	238	242	251	242
239	239	243	252	243
240	240	244	253	244
241	241	245	254	245
242	242	246	255	246
243	243	247	256	247
244	244	248	257	248
245	245	249	258	249
246	246	250	259	250
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251	251	255	264	255
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