

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

1959

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INTRODUCTION

The annual meeting of Water District No. 36 was held at Idaho Falls on March 2, 1959. H. C. Eagle was elected as watermaster for the ensuing year.

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

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

Advisory members: Merle Tillery, representing the Bureau of Reclamation; Lawrence Duffin, representing the Minidoka Irrigation District; William Kerner, representing the Gooding Project; L. W. Hastings, representing Teton Basin.

Principal resolutions adopted at the annual meeting were as follows:

1. That the following transmission losses be charged on stored water: 1.7% Moran to Palisades; 0.8% Palisades to Heise; 4.4% Heise to Lorenzo; 0.5% Lorenzo to Woodville; 6% Woodville to Blackfoot; 4% Henrys Lake to Island Park; 2% Island Park to Warm River; 0.5% Warm River to Ashton.

2. Recommended that a uniform transmission loss of $6\frac{1}{4}\%$ on all upper valley storage allotments in both Jackson Lake and Palisades Reservoir replace the 7.26% loss formerly charged Jackson Lake allotments.

3. Adopted a budget of \$55,205 to cover the expense of operating the District during the coming year, of which it was estimated that \$18,000 would be available from Federal and State stream gaging funds.

4. 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 the winter power losses at Minidoka dam.

5. Expressed opposition to proposed legislation to establish a Columbia River Development Corporation.

6. Expressed appreciation for the many years of outstanding service of N. V. Sharp (former Chairman of Committee of Nine) and Lynn Crandall (Watermaster for 29 years).

The year 1959 was one of moderate water shortage on Snake River. Below normal precipitation and delayed snowmelt during April and May resulted in greater than usual canal diversions and less than usual normal flow for this early period. Withdrawal of stored water started at American Falls on April 18. Run-off during June and early July was sufficient to fill so-called "floodwater" rights with some normal flow for credit to the March 30, 1921 right of Gooding Project and American Falls Reservoir. The floodwater rights were cut off on July 8, 1959, compared to June 12, 1958. Combined storage in the reservoir system on September 30 was 1,275,000 acre-feet or 31% of capacity.

All reservoirs filled to capacity except Palisades which stored 984,000 acre-feet under its priority right (of which 200,000 acre-feet was dead storage) and Henrys Lake which failed to fill to capacity because of excessive leakage thru gates during storage season. Palisades reservoir filled for the first time on July 5 by retaining normal flow belonging to rights below American Falls reservoir. Much of this storage was released for downstream use during the irrigation season. American Falls reservoir was drawn down to

about 50,000 acre-feet on September 15 to permit obtaining aerial photographs for determination of present reservoir capacity. This was the lowest level for American Falls reservoir since 1935 and outlet tunnels were unable to furnish sufficient water for downstream canal requirements with reservoir at this level. Lake Walcott was drawn down below usual levels for about two weeks in September to compensate for the reduced discharge from American Falls. About 180,000 acre-feet, in excess of Idaho Power Company rights, spilled to waste past Milner during the year ending September 30, 1959. Most of this occurred during the period October thru March. This is the lowest annual spill past Milner since 1941.

Flow passing Minidoka dam was curtailed for upstream storage from October 11 to April 6.

The Burns Creek authorization bill was again approved by the Senate but failed to get out of the House irrigation sub-committee. H. T. Nelson and Lynn Crandall 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 1959 were as follows:

H. C. Eagle	Watermaster and Deputy Com. of Reclamation
Arthur L. Larson	Hydraulic Engineer and Deputy Watermaster
O. P. Mortensen	Deputy Watermaster and Hydrographer at St. Anthony
Oleen Dummer	Hydrographer
A. H. Bush	Hydrographer
Charlotte E. Wood	Clerk
C. Drue Cooper	Deputy Watermaster and Hydrographer, Teton Basin
Seth Hansen	Deputy Watermaster, Teton Basin

L. C. Anderson	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
Al. J. Smith	Deputy Watermaster, Blackfoot Division
David Peterson	Deputy Watermaster, Swan Valley Division
M. L. Tillery	Supt. Minidoka Project, Bureau of Reclamation
C. R. Finley	Supt. Am. Falls Res., Bureau of Reclamation
Edw. Wilske	Asst. 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
R. A. Bennion	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. Wyngaard, C. R. Simmons, R. E. Wagner, John Telisak, A. K. Draper, Scott M. Butler, W. R. Etherington, R. H. Seymour, Elio T. Perin, Frank D. Hutton.

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. Normals are those computed by Soil Conservation Service and are for period 1938-52 for snow courses in use during that time.

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>								
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
1959	21	4.9	36	7.6	43	11.3	37	11.0
Normal		5.8		7.8		10.4		10.7

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>Moran Canyon (Snake River)</u>								
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
1959	-	-	51	12.8	66	18.6	61	12.3
Normal	-	-	-	13.5	-	18.6	-	22.1

<u>Arizona Station (Snake River)</u>								
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
1959	24	5.8	43	9.2	56	14.7	62	17.8
Normal	-	7.8	-	11.7	-	15.8	-	17.9

<u>Huckleberry Divide (Snake River)</u>								
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
1959	28	6.8	47	10.4	58	15.6	62	18.5
Normal	-	8.4	-	12.5	-	16.9	-	19.9

<u>Snake River Station (Snake River)</u>								
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
1959	30	7.9	42	11.0	61	16.8	63	19.8
Normal	-	8.9	-	13.0	-	17.4	-	19.9

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>Lewis Lake Divide (Snake River)</u>								
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
1959	54	17.3	76	23.4	112	36.4	122	42.7
Normal		19.6		27.4		35.5		43.0

Aster Creek (Snake River)

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
1959	38	11.0	55	15.5	81	24.1	85	27.5
Normal		14.1		20.0		26.8		31.6

Colter Creek (Snake River)

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	10.0	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
1959	-	-	48	12.3	65	18.7	59	20.8
Normal		8.4		13.8		19.7		22.5

Glade Creek (Snake River)

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
1959	30	7.4	42	11.0	61	17.1	62	20.3
Normal		9.7		14.6		19.7		23.2

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

Year	Feb. 1		Mar. 1		April 1	
	S	W	S	W	S	W
<u>Turpin Meadows (Buffalo River)</u>						
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
1959	37	7.3	42	10.1	36	11.1
Normal		7.4		10.4		10.7

<u>Four Mile Meadows (Buffalo River)</u>						
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
1959	42	9.1	41	12.4	46	13.6
Normal		9.1		11.8		13.5

<u>Black Rock (Buffalo River)</u>						
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
1959	60	15.2	72	19.9	67	24.3
Normal		14.8		19.7		22.6

<u>Twogwotee Pass (Buffalo River)</u>						
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
1959	75	20.9	87	26.8	84	32.2
Normal		19.2		26.3		29.1

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>Valley View Ranch (Henrys Fork)</u>								
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
1959	19	2.7	32	6.2	47	11.6	44	12.8
Normal		5.2		9.7		13.0		15.3
<u>Big Springs (Henrys Fork)</u>								
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
1959	22	4.3	45	10.8	59	16.3	55	16.9
Normal		7.4		12.8		18.3		21.3
<u>Island Park (Henrys Fork)</u>								
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
1959	16	2.1	35	6.8	51	13.1	44	13.7
Normal		5.9		10.1		14.6		16.4
<u>Grassy Lake (Fall River)</u>								
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
1959	40	12.7	73	20.2	90	28.7	90	33.6
Normal		15.3		21.9		29.4		34.0

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>Teton Pass (Teton River)</u>								
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
1959	44	12.3	76	21.6	96	29.4	102	36.9
Normal		15.7		24.2		31.5		39.3
<u>State Line Teton River)</u>								
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
1959	22	4.9	37	8.3	48	12.4	48	14.2
Normal		6.1		10.0		13.1		15.2
<u>East Rim (Hoback River)</u>								
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
1959	22	5.7	31	6.9	37	10.4	36	11.4
Normal		4.2		6.9		10.3		11.4
<u>Bryan Flat (Hoback River)</u>								
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
1959	16	3.9	26	6.0	31	8.3	27	9.4
Normal		4.3		6.7		8.9		10.2

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>Yellowjacket Flat (Gros Ventre River)</u>								
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
1959	-	-	25	5.0	25	6.7	35	7.0
Normal				4.6		5.4		6.3

<u>Grover Park Divide (Salt River)</u>								
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
1959	21	5.2	24	5.5	37	9.3	32	10.2
Normal		4.6		7.5		9.8		11.1

<u>CCC Camp FF12 (Salt River)</u>								
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	14.9
1958	26	6.0	37	7.9	35	10.7	37	12.4
1959	24	5.8	24	5.9	38	9.3	33	10.7
Normal		4.5		7.9		9.7		11.4

<u>Salt River Summit (Salt River)</u>								
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
1959	27	6.7	30	7.4	45	11.6	42	14.3
Normal		6.7		11.1		14.1		16.8

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>Greys Boundary (Greys River)</u>								
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
1959	16	4.7	23	6.2	37	11.0	36	11.9
Normal		5.0		7.5		10.6		10.9

On April 1, 1959 the snow (water content) was the following average percent of normal: above Jackson Lake 90%, Moran to Heise 96%, Island Park 82%, Fall River 96%, Teton River 92%.

Comparable figures for run-off during the year ending September 30, 1959 as percent of normal were: Snake River at Moran 87%, Snake River near Heise 88%, Henrys Fork near Ashton 96%, Fall River near Squirrel 90%, Teton River near St. Anthony 88%.

Precipitation for May was above normal. For all other months from March thru August it was much below normal.

1959 REGULATION SCHEDULE

July 8	Cut off December 22, 1915 rights
" 9	Filled part of March 26, 1903 right
" 11	Filled part of 1898 rights on Teton River
" 14	Cut off rights later than October 11, 1900 above American Falls
" 22	Cut off all 1900 rights
" 22	Cut off 1895 rights on Henrys Fork and Teton River
" 24	Filled 50% July 9, 1896 right
" 25	Cut off July 9, 1896 right
" 27	Cut off rights later than March 22, 1895
" 28	Filled 50% February 6, 1895 right
" 29	Cut off February 6, 1895 right
Aug. 1	Cut off August 18, 1894 right
" 6	Cut off April 30, 1893 right
" 8	Filled 25% December 14, 1891 right
" 11	Cut off December 14, 1891 right

Regulation Schedule - continued

Aug. 12	Cut off June 1, 1891 right
" 14	Filled 25% January 24, 1891 right
" 15	Cut off January 24, 1891 right
" 21	Restored January 24, 1891 right
" 22	Restored June 1, 1891 right
" 24	Restored December 14, 1891 right
" 26	Restored June 1, 1892 right
" 28	Filled 50% December 14, 1891 right
Sept. 1	Cut off December 14, 1891 right
" 2	Filled 25% January 24, 1891 right
" 6	Filled 25% June 1, 1885 right on Teton River
" 7	Filled 25% December 14, 1891 right
" 9	Cut off December 14, 1891 right
" 10	Cut off January 24, 1891 right
" 10	Cut off all 1885 rights on Teton River
" 12	Filled 50% January 24, 1891 right
" 13	Filled 100% January 24, 1891 right
" 14	Filled 10% December 14, 1891 right
" 15	Filled all 1892 rights
" 17	Filled 50% June 1, 1885 right on Teton River
" 20	Filled August 18, 1894 right
" 20	Filled June 1, 1894 right on Teton River
" 22	Filled part of August 6, 1908 right
" 24	All rights restored.

Storage use charges started April 18 on the Michaud and Minidoka North Side Pump projects. Storage diversions at Milner started April 20 and in the upper valley on July 8 when the December 22, 1915 priority rights were cut. Two upper valley canals turned in a few days before the end of their contracted 150-day period for shut-off of winter diversions. Water diverted during these days was charged to stored water. During the period April 18 to July 6 there was 95,263 acre-feet of normal flow accruing to the American Falls storage right. See plates 12 and 12A for daily segregation of flow for this period. Details on allocation of American Falls refill and inter-exchange of storage space in the several reservoirs is discussed later in this report under storage allotments.

Storage releases from Island Park started July 9, from Henrys Lake July 11, and from Grassy Lake July 12.

WATER SUPPLY

Run-off in acre-feet at various gaging stations during the year ending September 30, 1959, was as follows:

<u>Station</u>	<u>1959 Run-off</u>	<u>Average run-off past years</u>	<u>Years of Record</u>	<u>1959 % of Average</u>
Snake River at Moran	905,900	1,045,000	56	87
Snake River near Heise	4,414,000	4,981,000	49	88
Snake River at Neeley	3,849,000	4,916,000	33	78
Fall River near Squirrel	494,000	547,000	45	90
Teton River near St. Anthony	480,700	543,300	26	88
Henrys Fork near Ashton	945,800	986,200	39	96
Henrys Fork near Rexburg	1,093,000	1,385,000	50	79

The run-off at Moran has been corrected for Jackson Lake holdovers; near 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; at St. Anthony for Cross Cut Canal discharge into Teton River.

Peak daily discharges were as follows:

Snake River at Moran	5,650 cfs on June 27
Snake River near Heise	14,700 cfs on June 7
Snake River near Blackfoot	8,620 cfs on July 1
Henrys Fork near Rexburg	4,000 cfs on June 17
Teton River near St. Anthony	2,390 cfs on June 16
Blackfoot River near Blackfoot	971 cfs on April 5
Snake River at Milner	4,100 cfs on October 16

All of these flows were below levels that would result in flood damage and nearly all are substantially less than those for 1958.

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>Palisades</u>	<u>American Falls</u>	<u>Lake Walcott</u>	<u>Henrys Lake</u>	<u>Island Park</u>	<u>Grassy Lake</u>	<u>Total</u>
1950	570.4		926	93.2	69.1	87.7	12.2	1,758.6
1951	622.7		1,021	94.0	71.4	86.2	12.1	1,907.4
1952	281.7		583	91.9	62.7	62.5	12.2	1,094.0
1953	232.4		488	91.2	65.0	34.0	11.3	921.9
1954	316.6		627	89.1	67.7	45.4	11.6	1,157.4
1955	192.8		264	93.6	50.4	27.1	11.2	639.1
1956	369.7		623	94.5	68.9	80.0	13.1	1,249.2
1957	615.8	423	293	92.2	68.8	50.1	11.9	1,554.8
1958	497.3	535	256	21.3	54.7	17.2	9.3	1,390.8
1959	551.3	449	90	95.2	63.1	19.8	6.4	1,274.8
Av.	425.5	141	517	85.6	64.2	51.0	11.1	1,294.8

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. 933:

George W. Nedrow: 1.2 cfs of June 1, 1890 of waters of Fall River formerly used on Lots 3 and 4, Sec. 7, T. 8 N., R. 42 E., through Silkey ditch, and now to be transferred to parts of $SW\frac{1}{4}NW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}$, $SW\frac{1}{4}SE\frac{1}{4}$, Lot 4, $NW\frac{1}{4}SE\frac{1}{4}$, West 13 rods of Lot 2, and $S\frac{1}{2}SW\frac{1}{4}$ Sec. 21, $N\frac{1}{2}NE\frac{1}{4}$ Sec. 28, all in T. 9 N., R. 42 E., and $SE\frac{1}{4}SE\frac{1}{4}$ Sec. 6, T. 8 N., R. 42 E., and to be pumped from Henrys Fork at various points and used through sprinkler system.

Certificate of Transfer No. 934:

C. W. Burke: 0.6 cfs of June 1, 1891 priority of waters of Snake River formerly used on $E\frac{1}{2}NE\frac{1}{4}$, $NE\frac{1}{4}SE\frac{1}{4}$ Sec. 5, and $NW\frac{1}{4}$ Sec. 10, T. 2 N., R. 37 E., and now to be transferred to $W\frac{1}{2}NE\frac{1}{4}$ Sec. 5, T. 2 N., R. 37 E. (This water now and formerly carried by Great Western Canal).

Change in Point of Diversion. Order No. 248:

Harry O. Mize: Owner of 1.5 cfs of June 1, 1900 priority of waters of Palisades Creek formerly diverted from Palisades Creek at point in the NE $\frac{1}{4}$ sec. 28, T. 1 N., R. 44 E. through Palisades Canal. Hereafter to be pumped from Rainey Creek at point in SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 6, T. 1 N., R. 44 E.

LITIGATION

The following summary decree was issued during the year in the Twelfth Judicial District, Madison County:

C. Elmer Christensen and Margurette Christensen vs. Henry Eagle, decree dated May 18, 1959:

0.8 cfs of the waters of Driggs Springs, a tributary of Teton River, in SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35, T. 5 N., R. 45 E., priority June 1, 1902.

COMMUNITY LATERAL MANAGERS

The following appointments were made for the 1959 season:

Jess Edlefsen, Central Teton canal; Kenneth Bradley, Desert Ditch; Scotty Larsen, Gale-Moffet canal; Floyd Hansen, Bell-McCracken canal; Reed Mickelsen, Cache canal; Ivan Kay, Horseshoe Creek.

CANAL DELIVERIES

Daily diversions from Snake River by canals above American Falls reservoir during the 1959 irrigation season are shown on Plates 6-10. Daily diversions for canals below American Falls are shown on Plates 59-70. Miscellaneous measurements of various canals and streams in the headwater areas are shown on Plate 24.

Total diversions during the 1959 irrigation season by all canals in the district, including headwater areas, as tabulated in the annual watermaster bill, amounted to 8,066,000 acre-feet. This is about 2.5% more than in 1958 and is greater than any previous year except 1956 when 8,150,000 acre-feet were diverted.

Diversions during 1959 irrigation season by Snake River
Canals (downstream order from Heise)

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

Canal	Diversions (acre-feet)	Acres Irrigated	Acre-feet per acre
✓ Riley	6,170	870	7.1
✓ Progressive Irr. Dist.	278,000 (a)	31,826	8.7
✓ Farmers Friend	105,000	11,500	9.1
✓ Enterprise Canal	40,800	5,000	8.2
✓ Nelson	500	62	8.1
✓ Mattson Craig & Arnsberger	4,740	560	8.5
✓ Ross & Rand	490	200	2.4
✓ Butler Island	14,000	1,200	11.7
✓ Steele	1,700	220	7.7
✓ Harrison	126,000	13,000	9.7
✓ Cheney	1,740	180	9.7
✓ Rudy Irr. Co.	43,500	5,000	8.7
✓ Kite & Nord	1,510	200	7.6
✓ Burgess	240,000	22,000	10.9
✓ Clark & Edwards	22,500	1,800	12.5
✓ Lowder	14,400	1,000	14.4
✓ East Labelle	37,200	3,000	12.4
✓ Sunnydell	38,600	3,688	10.5
✓ Lenroot	44,400	3,800	11.7
✓ Reid	53,100	5,500	9.7
✓ Texas Feeder	84,000	10,000	8.4
✓ Nelson Corey	2,300	400	5.8
✓ Hill Pettinger	600	200	3.0
✓ Rigby	44,700	4,000	11.2
✓ Dilts	7,000	555	12.6
✓ Island	48,300	4,000	12.1
✓ W. Labelle & Long Island	143,000	11,500	12.4
✓ Parks & Lewisville	94,000	7,000	13.4
✓ North Rigby	15,900	1,400	11.4
✓ White	850	110	7.7
✓ Ellis	700	100	7.0
✓ Bramwell	1,790	210	8.5
✓ Butte & Market Lake	103,000	18,000	5.7
✓ Osgood	32,900	6,450	5.1
✓ Bear Island & Smith	770	280	2.7
✓ Idaho	291,000 (a)	35,871	8.1
✓ Kennedy	12,600	2,700	4.7
✓ Great Western & Porter	233,000	31,500	7.4
✓ Coy & Kellar	0	70	0
✓ Woodville	28,700	2,500	11.5
✓ Snake River Valley	168,000 (a)	21,412	7.8
✓ Reservation	141,000 (b)	32,000	4.4
✓ Blackfoot	90,000	15,000	6.0
✓ New Lava Side	41,000	6,000	6.8

Canal	Diversions (acre-feet)	Acres Irrigated	Acre-feet per acre
Peoples	147,000	18,000	8.2
Aberdeen	352,000	63,000	5.6
Corbett	54,500	7,000	7.8
Nielsen-Hansen	3,140	460	6.8
Riverside	34,400	4,000	8.6
Danskin	55,300	6,000	9.2
Trego	18,900	1,800	10.5
Wearyrick	16,200	1,600	10.1
Watson	29,400	3,000	9.8
Parsons	8,550	920	9.3
Michaud (B. of R.)	15,600	5,943	2.6
Minidoka Irr. Dist.	483,000	72,129	6.7
Burley Irr. Dist.	286,000	46,500	6.2
Minidoka North Side Pump	52,300	13,619	3.8
Twin Falls Canal Co.	1,022,000	202,706	5.0
North Side Canal Co.	1,057,000	159,500	6.5
Milner Low Lift	63,700	12,446	5.1
Gooding	431,000	61,313	7.0
Total	6,789,450	1,001,800	6.8

(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 2% more water than in 1958. Lower valley diversions were 5% less than for 1958, while upper valley diversions were almost 10% above the 1958 diversions.

Of the 3,395,000 acre-feet diverted by lower valley canals (below Neeley) 1,678,000 acre-feet or 49% was stored water. Upper valley main canals diverted 3,394,000 acre-feet of which 535,800 acre-feet or 16% 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>
1950	417	550	746	699	426	2838
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
1959	580	788	814	690	519	3391
Average	438	670	802	659	501	3070

Henrys Fork and Tributaries
(excluding headwater areas)

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
1959	223	270	233	190	130	1046
Average	189	243	235	184	122	973

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>
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
1959	74	119	166	183	159	85	786
Average	41	142	142	182	161	101	770

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>
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
1959	106	181	201	234	223	142	1087
Average	70	197	210	236	228	171	1111

Twin Falls Project

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
1959	118	185	190	222	213	128	1056
Average	83	200	197	223	219	159	1081

Gooding Project

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
1959	27	78	82	93	85	68	433
Average	21	78	87	96	92	74	448

April diversions were near or above the highest of record for all sections of the river. Below normal temperatures and moderate precipitation during May reduced irrigation demand. For period June 1 through middle of August diversions remained at a high level.

Precipitation during last ten days of August and during September reduced irrigation demand, particularly in the lower valley.

Ground water in the area from Rigby westward to Snake River again reached high levels late in the season. A section near head of the island between Great Feeder and main river channel also experienced higher ground water than in previous years. Possible reasons for the higher groundwater levels in 1959 may be the greater than normal diversions (which will likely continue with the availability of Palisades storage) and the fact that the river was at a higher level than usual all summer to deliver water to lower valley.

RIVER DATA

The usual methods of segregating stored water and normal flow at the reservoir outlets was continued in use during 1959. Palisades 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 reading that level to only 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 20,000 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.

For period from April 18 to July 6 (which was prior to the upper valley regulation season) storage water was released from American Falls Reservoir and delivered to lower valley canals. During this period the daily segregation of flow was computed as shown on Plates 12 and 12A. For much of this period water was being stored in Jackson Lake and Palisades Reservoir that should have been delivered to normal flow rights below American Falls. These normal flow rights received their supply from water released from American Falls Reservoir. The result was that prior to start of upper valley regulation on July 8 both Jackson Lake and Palisades Reservoir had filled but American Falls was drawn down to 879,000 acre-feet.

The computations on Plates 12 and 12A permit a proper distribution of the normal flow during the period covered. The stored and normal flow at Moran were computed as they should have been to fill the normal flow rights in the lower valley that are prior to the Jackson Lake storage rights. A negative figure in the stored column for Snake River at Moran indicates that that amount of water was stored that should have gone down river to lower users. Storage in Palisades reservoir and stored and normal flow at Irwin were computed in a similar manner. These data were carried down river to Blackfoot to compute a normal flow there which would have occurred if no water had been adversely stored upstream. This normal was used together with inflow and diversion figures to compute normal flow at Neeley.

For a few days around the middle of May there was insufficient normal flow to fill the October 11, 1900 right of Twin Falls and

North Side Canals. Upper valley diversions could have been cut to fill this right had the upper valley been on regulation.

For a few days around first of May and again around the first of June, canals near Blackfoot were dry owing to insufficient water in River. Upper valley canals were cut for a few days to furnish water for the Blackfoot area.

Further discussion on this early period is included in a later section on storage allotments.

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

The net total of stored water passing the Blackfoot gaging station from July 5 to September 25, 1959, was 409,100 acre-feet. For period April 17 to July 5 there was 476,700 acre-feet retained in upper reservoirs that should have passed the Blackfoot station had there been no adverse storage in upstream reservoirs. For the total period April 17 to September 25, there was 67,600 acre-feet less flow past Blackfoot than that required to fill all downstream normal flow rights. This represents about 76,000 acre-feet of American Falls water remaining in Palisades Reservoir or Jackson Lake at end of season. If American Falls Reservoir and Jackson Lake fill in 1960 this will become Palisades storage.

The storage spill past Blackfoot was the greatest experienced in recent years. This may be typical of the condition to be expected in future years whenever the Palisades right is not filled and American Falls water is temporarily stored upstream.

A number of canals were bothered with moss growth during the 1959

season. The Aberdeen canal reported less trouble than for 1958, possibly owing to more effective methods of moss removal.

STORED WATER DELIVERIES

Storage allotments of Jackson Lake and American Falls were made to conform to the terms of revised Palisades contracts. The 47,700 acre-feet of space in American Falls Reservoir reserved for the Michaud Flats, Fort Hall Indian Reservation was leased for the 1959 year to the American Falls Reservoir District through an extension of its leasing contract.

RESERVOIR ALLOTMENTS

American Falls

American Falls reservoir contents was 1,700,000 acre-feet on April 18 which permitted full allotment of all reservoir rights.

During period April 18 to July 6 there was 95,263 acre-feet of normal flow for credit to the American Falls Reservoir storage right. The allocation of this space is shown below and was made on basis of storage diverted during this period, as proposed in letter of July 27 from Watermaster to all canal companies concerned.

Allocation of American Falls Refill, 1959

<u>Canal</u>	<u>Stored Diversions in acre-feet prior to July 7</u>	<u>Share of Refill</u>
Michaud Canal	6,591	1,430
Minidoka Canals	62,390	13,400
Minidoka N. S. Pump	23,004	4,950
Gooding	167,915	35,963
North Side	137,210	29,500
Twin Falls	18,045	3,860
Milner Low Lift	22,720	4,780
Idaho Power Co.	6,434	1,380
Total	444,309	95,263

The above allotments are shown on Plate 14 under "Other Rights" and are designated as "American Falls Refill".

Jackson Lake

Jackson Lake contents on April 14 was 486,000 acre-feet. During period April 18 to June 26, Jackson Lake filled. For period April 18 to June 11, there was stored about 126,000 acre-feet belonging to normal flow rights below Blackfoot. This was offset by normal flow at Moran prior to July 2 that could have been stored under the Jackson Lake storage right. The full capacity of 847,000 acre-feet was, therefore, available for allocation with no charge against Palisades Reservoir for water released during winter period.

Palisades Reservoir

Palisades Reservoir contents on April 14 was 984,000 acre-feet. Subtracting 200,000 acre-feet dead storage left 784,000 acre-feet available for allocation to Palisades rights. There was no natural flow to credit to the Palisades storage right after April 14.

1959 Storage Allotments in Acre-feet (Downstream order from Heise)

<u>Canal</u>	<u>American Falls</u>		<u>Jackson</u>	<u>Palisades</u>	<u>Total</u>
	<u>Owned</u>	<u>Lease</u>	<u>Lake</u>		
Poplar Irr. Dist.	673	113	1,589	1,066	3,441
Progressive Irr. Dist.	12,485	7,103	7,209	21,798	48,595
Farmers Friend	0	0	2,000	7,200	9,200
Enterprise Canal Co.	8,923	1,651	11,252	12,602	34,428
Mattson Craig	0	0	0	873	873
Butler Island	0	0	0	250	250
Harrison	12,025	0	11,943	16,077	40,045
Rudy	2,649	2,080	3,530	10,308	18,567
Burgess	9,496	3,770	10,603	22,190	46,059
Clark & Edwards	0	0	0	745	745
Lowder	0	0	1,040	1,127	2,167
East Labelle	0	0	0	800	800
Sunnydell	0	0	4,000	4,364	8,364
Lenroot	3,868	806	5,234	5,363	15,271

Storage allotments (continued)

Canal	American Falls		Jackson Lake	Palisades	Total
	Owned	Lease			
Reid	2,549	250	1,472	2,670	6,941
Texas & Liberty Park	0	0	0	4,142	4,142
Enterprise Irr. Dist.	10,188	0	5,883	0	16,071
Rigby	0	0	0	4,391	4,391
Island	0	0	0	3,366	3,366
Dilts	886	57	511	830	2,284
West Labelle	0	0	0	606	606
Long Island	0	0	0	3,032	3,032
Parks & Lewisville	0	0	0	4,339	4,339
North Rigby	0	0	0	940	940
Butte & Market Lake	4,666	9,092	2,695	29,536	45,989
Osgood (U.I.S.Co.)	13,459	7,413	7,771	10,165	38,808
Bear Island	191	46	110	364	711
Smith	71	0	41	139	251
Kennedy	0	0	355	4,397	4,752
Idaho	22,911	1,013	13,230	40,790	77,944
Martin	2,006	0	2,659	3,621	8,286
New Sweden Irr. Dist.	25,731	2,596	19,857	24,540	74,724
Woodville	6,047	0	3,491	4,067	13,605
Snake River Valley	26,367	0	30,225	24,438	81,030
Palisades Water Users	0	0	0	*29,655	29,655
Blackfoot	12,763	2,008	7,370	4,050	26,191
New Lava Side	0	0	0	7,984	7,984
Peoples	21,415	4,615	20,365	23,799	70,194
Aberdeen	55,315	0	74,626	101,660	231,601
Corbett	3,396	245	1,961	4,679	10,281
Riverside	0	0	0	1,374	1,374
Danskin	0	0	0	2,283	2,283
Trego	1,314	0	758	2,169	4,241
Wearyrick	0	0	0	592	592
Watson	0	0	0	1,854	1,854
Parsons	0	0	0	424	424
Michaud (Falls Irr.)	a23,300	0	0	24,803	48,103
Minidoka Irr. Dist.	a83,563	0	186,030	23,322	292,915
Burley Irr. Dist.	a157,942	4,842	0	24,824	187,608
Minidoka N.S.Pump	a47,593	0	0	55,064	102,657
Milner Low Lift	a45,687	0	0	26,986	72,673
Twin Falls Canal	a151,185	0	97,183	0	248,368
Hillsdale Irr. Dist.	a41,146	0	0	0	41,146
N. S. Canal	a397,490	0	312,007	70,710	780,207
Gooding	a400,000	0	0	0	400,000
Idaho Power Co.	a45,000	0	0	0	45,000
U. S. **	0	0	0	71,762	71,762
City of Pocatello	0	0	0	30,322	30,322
J. R. Simplot	0	0	0	1,516	1,516
Westvaco	0	0	0	3,032	3,032
Total	1,652,300	47,700	847,000	784,000	3,331,000

- * Does not include 364 a.f. to Bear Island and 139 a.f. to Smith.
- ** 50,880 a.f. Michaud, Fort Hall; 20,013 Wyoming Compact; 869 contingency
- a Does not include additional allotment from American Falls refill.

The United States rented 38,493 acre-feet of Palisades water to the following users:

Island Park	40
Swan Valley	100
Upper Valley Main River	37,078
Lower Valley	<u>1,275</u>
	38,493

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

Of the amount rented in upper valley 32,670 acre-feet was rented for delivery thru the Reservation Canal for use by Indian Service and private users to supplement a short supply on the Blackfoot River. The availability of Palisades storage greatly reduced the demand for rented water to other users.

Supply and disposal of stored water, 1959
(acre-feet)

Supply

Jackson Lake	July 2	847,000.
Palisades	April 14	984,000*
American Falls	April 18	1,700,000
American Falls Refill		95,263
Lake Walcott	July 6	93,320
Henrys Lake	July 11	74,200
Island Park	July 8	133,510
Grassy Lake	July 9	15,210
Indian and Bergman Reservoirs yield		698
Sheridan Creek right		1,722*
Gain Neeley to Milner, Minidoka Project		56,000*
Gain Neeley to Milner, unallotted		<u>5,200*</u>
Total		4,006,123

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

Disposal

Used by Snake River rights	2,234,667
Used by Henrys Fork rights	155,614
Storage transmission loss Snake River	98,882
Storage transmission loss Henrys Fork	3,547
Storage transmission loss Cross Cut Canal	4,453
Henrys Lake loss	1,328
American Falls Reservoir loss	31,779
River operation storage waste past Milner	7,772
Adjustment	41,3864

Holdovers:

Jackson Lake	Sept. 23	552,960
Palisades	Sept. 23	634,000**
American Falls	Sept. 24	62,000
Lake Walcott	Sept. 24	90,640
Henrys Lake	Sept. 11	60,800
Island Park	Sept. 22	19,975
Grassy Lake	Sept. 11	6,320
		4,006,123

** Includes 200,000 acre-feet of dead storage.

- 4 With the early season allocation of American Falls and Palisades space and the later allocation of space in other reservoirs adjustments do not appear in computed data. For example, the method of computation on Plate 12 and 12A does not include a storage transmission loss on the 126,000 acre-feet of normal flow released at Moran June 6-28 in exchange for like amount previously adversely stored. This would amount to over 16,000 acre-feet of above adjustment. No account is taken of reservoir loss prior to May 1 or transmission loss on the 8,500 acre-feet of storage used in upper valley prior to July 8.

Records of American Falls Reservoir inflow and upper valley canal diversions are poor prior to May 1. The amount of water involved would hardly justify the expense of collecting adequate data during this early period. Any allocations of losses in the above adjustment as well as river transmission losses on stored water delivered from upper reservoirs to lower valley canals and waste past Milner would be largely canceled if American Falls reservoir fills during the coming year.

Should Palisades Reservoir fail to fill during the coming season the river transmission loss on Palisades storage used by lower valley canals will be computed prior to the allocation of space in 1960.

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 receive only the return flow entering American Falls reservoir.

Accordingly, the irrigated area beneath this project has been divided (as done in 1958) 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 2,745 acres irrigated in 1959 from wells which pumped 5,166 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 4,900 acre-feet, the balance of the pumped water percolating back to the ground water.

In category No. 1 there were also 4,434 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 11,937 acre-feet diverted by the East Branch canal at the pumping plant for lands in category No. 1 leaves about 11,500 acre-feet of river water entering the area in category No. 1. The 4,434 acres irrigated therefrom would consume about 8,000 acre-feet leaving 3,500 acre-feet contributed from river water to the ground water beneath the lands in category No. 1. This is 1,400 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 1959.

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 845 acres were irrigated from wells which pumped 1,653 acre-feet. The net water consumption under these wells was about 1,500 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 1,509 acres irrigated in category 2 from 4,227 acre-feet pumped from the river. About 2,720 acre-feet of this was

consumed by the 1,509 acres leaving 1,507 acre-feet contributed to the water table or as surface waste back to the river. There was also contributed about 480 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 1,987 acre-feet which is 487 acre-feet in excess of the 1,500 acre-feet consumed by lands 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 charged only with the water actually pumped from the river but from the foregoing discussion it would appear that an additional charge of 1,400 acre-feet should be made against their 1959 holdover if American Falls should not fill in 1960.

In effect the calculated American Falls reservoir losses in 1959 would be reduced by 1,400 acre-feet if this much additional use was charged to the Michaud project.

GROUND WATER PUMPING

An additional credit to American Falls reservoir is water now being pumped from wells by the City of Pocatello, the Westvaco Co., and J. R. Simplot Company. For the months of May thru September 1959 the following amount of water was reported pumped: City of Pocatello 4,186 a.f.; Westvaco 2,100 a.f.; J. R. Simplot 1,950 a.f. The latter two figures do not represent consumptive use and data will

be obtained during the coming summer to determine an equitable charge against Palisades storage allotments of these two companies. Credit for this pumped water would further reduce the calculated American Falls reservoir losses.

RIVER LOSSES AND GAINS

Gains and losses between river stations for the months of May thru September (using time intervals shown on plate 15) are shown in the following tabulations.

Gain in Snake River, Moran to Heise, 1959 (Heise dates and 24-hr. cfs, except as noted)

Station	May	June	July	Aug.	Sept.	Total
Moran	13,479	70,665	89,344	91,270	64,669	329,427
Palisades release	-4,537	-19,158	103,350	139,654	122,513	341,822
Total supply	8,942	51,507	192,694	230,924	187,182	671,249
Heise	276,090	386,310	406,080	353,490	283,630	1,705,600
Riley	446	855	800	667	345	3,113
Total acct. for	276,536	387,165	406,880	354,157	283,975	1,708,713
Total gain cfs	267,594	335,658	214,186	123,233	96,793	1,037,464
Mean gain cfs	8,632	11,190	6,909	3,975	3,226	6,768
Total gain a.f.	530,765	665,768	424,832	244,429	191,986	2,057,780

The gain for May and June for 1959 is less than for 1958 owing to cool weather and delayed run-off. Gains for July, August and September are greater than for 1958.

Gain in Snake River, Heise to Shelley, 1959 (Heise dates and 24-hr. cfs, except as noted)

Station	May	June	July	Aug.	Sept.	Total
Heise & Riley	276,536	387,165	406,880	354,157	283,975	1,708,713
Rexburg	46,503	75,650	43,468	39,582	44,860	250,063
Total Supply	323,039	462,815	450,348	393,739	328,835	1,958,776
Diversions	198,323	281,956	289,823	248,991	190,833	1,209,926
Shelley	147,970	196,460	189,010	183,820	179,700	896,960
Total acct. for	346,293	478,416	478,833	432,811	370,533	2,106,886
Total gain cfs	23,254	15,601	28,485	39,072	41,698	148,110
Mean gain cfs	750	520	919	1,260	1,390	968
Total gain a.f.	46,124	30,944	56,499	77,498	82,706	293,771

The gain in May was greater than for 1958 probably owing to

earlier canal diversions with resulting increase in return flow. For other months there are no large differences from 1958. Average for the five months was 87 cfs greater than a year ago.

Loss and Gain in Snake River, Shelley to Blackfoot, 1959
(Shelley dates and 24-hr. cfs, except as noted)
(- indicates loss)

Station	May	June	July	Aug.	Sept.	Total
Shelley	146,480	189,300	194,340	182,760	183,710	896,590
Blackfoot River	1,557	921	471	606	1,688	5,243
Total Supply	148,037	190,221	194,811	183,366	185,398	901,833
Diversions	93,859	115,129	120,506	98,700	70,834	499,028
Blackfoot	55,132	73,291	71,756	83,810	119,550	403,539
Total acct. for	148,991	188,420	192,262	182,510	190,384	902,567
Total diff.	954	-1,801	-2,549	-856	4,986	734
Mean diff.	31	-60	-82	-28	166	5
Total a.f.	1,892	-3,572	-5,056	-1,698	9,890	1,456

The average daily gain for the five months was 5 cfs compared to 14 cfs in 1958.

There is a groundwater inflow of about 200 cfs that enters Snake River in the mile or two above the Blackfoot station. If this is considered as a part of the supply of the river it means there was an average loss of 195 cfs instead of the 5 cfs gain.

Gain or loss in Snake River, Blackfoot to Neeley, 1959
(Neeley dates and 24-hr. cfs, except as noted)
(- indicates loss)

Station	May	June	July	Aug.	Sept.	Total
Blackfoot	53,852	67,051	78,156	81,890	120,650	401,599
Inflow	87,218	80,337	79,435	82,053	82,183	411,226
Res. draft	150,242	192,088	222,842	189,567	10,083	764,822
Total Supply	291,312	339,476	380,433	353,510	212,916	1,577,647
Diversions	860	1,980	2,415	1,485	975	7,715
Neeley	291,540	333,080	378,500	344,830	205,960	1,553,910
Total use	292,400	335,060	380,915	346,315	206,935	1,561,625
Total diff. cfs	1,088	-4,416	482	-7,195	-5,981	-16,022
Mean diff. cfs	35	-147	16	-232	-199	-105
Total diff. a.f.	2,158	-8,759	956	-14,271	-11,863	-31,779

During the period May 1 thru September 24 the loss was about 31,000 acre-feet or 1.8% of reservoir capacity. There may have been

additional loss in April. Inflow records are inadequate for this period to warrant computation of loss. None of the loss during season was distributed among storage users as reservoir will likely fill in 1960 and any storage charges made would be canceled. Indicated reservoir loss may be due to reservoir silting, ground-water pumping or small errors in streamflow measurements. With American Falls reservoir at lower level than usual for the entire summer a smaller loss than previous years could have been expected. The loss was greater than for 1958 but less than that for 1956 or 1957.

Gain and loss in Snake River, Neeley to Minidoka, 1959
 (Minidoka dates and 24-hr. cfs, except as noted)
 - indicates loss)

Station	May	June	July	Aug.	Sept.	Total
Neeley	291,633	332,427	377,867	346,007	208,333	1,556,267
Walcott release	232	-2,173	3,348	5,370	-6,892	-115
Total supply	291,865	330,254	381,215	351,377	201,441	1,556,152
N. Minidoka	35,168	46,980	52,330	44,710	22,452	201,640
S. Minidoka	24,836	36,742	39,960	35,360	20,519	157,417
Minidoka	229,720	247,030	287,250	263,270	164,090	1,191,360
Total Use	289,724	330,752	379,540	343,340	207,061	1,550,417
Total diff. cfs	-2,141	498	-1,675	-8,037	5,620	-5,735
Mean diff. cfs	-69	17	-54	-259	187	-37
Total diff.a.f.	-4,247	988	-3,323	-15,941	11,147	-11,376

The average daily loss for season was 37 cfs compared to a gain of 17 cfs in 1958 and a loss of 68 cfs in 1957.

Gain in Snake River, Minidoka to Milner, 1959
(Milner dates and 24-hr. cfs, except as noted)

Station	May	June	July	Aug.	Sept.	Total
Minidoka	229,800	246,580	286,595	263,755	167,335	1,194,065
Misc. diver.	20	25	30	20	10	105
Min. N.S. Pump	3,322	6,251	7,196	6,151	2,563	25,483
P. A.	1,850	1,929	2,039	2,009	1,130	8,957
Milner Low Lift	5,304	6,418	7,751	7,191	3,915	30,579
Gooding	62,570	65,350	74,670	68,410	56,910	327,910
No. Side	66,070	75,360	88,290	84,770	47,355	361,845
Twin Falls	93,390	95,740	111,880	107,200	64,556	472,766
Milner	3,039	432	474	1,893	6,760	12,598
Total use	235,565	251,505	292,330	277,644	183,199	1,240,243
Total gain cfs	5,765	4,925	5,735	13,889	15,864	46,178
Mean gain cfs	186	164	185	448	529	302
Total gain a.f.	11,435	9,769	11,375	27,548	31,466	91,593

Total gain in this section for the five months was about 800 acre-feet more than for 1958. The overall gain Neeley to Milner during period of storage use by Minidoka project (July 6 to September 25) amounted to 56,000 acre-feet which was credited as storage supply to the Minidoka project.

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 L. C. Anderson on Teton River.

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 \$119.00 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 2½ years average run-off to completely fill Henrys Lake if no water at all was discharged from it during such a time period.

Releases from Henrys Lake were stopped on September 2 to permit placing of a coffer dam in channel above dam. Reservoir just above dam was dewatered and inspection of dam and gates revealed need for repairs. Mr. Glenn Simmons of Bureau of Reclamation prepared recommendations for replacing gate seals and repairs to gate to facilitate its control. Repairs were made during October with coffer dam left in place. It was overtopped about January 27, 1960 when Henrys Lake contained about 77,000 acre-feet.

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 1959.

Figures showing the operation of the Cross Cut Canal in 1959 are shown on Plate 23A. It delivered 31,000 acre-feet to the Fall River Canal and 41,590 acre-feet to Teton River with an average transmission loss of 12.1%.

The following miscellaneous measurements were made by A. L. Larson while regulating water in the Island Park area:

June 23, 1959:

Webster & Magleby from Duck Cr.	3.0 cfs
Duck Creek into Henrys Lake	25.0 "
Howard Creek into Henrys Lake	0 "
Targhee Creek into Henrys Lake	60.0 "
Timber Creek into Henrys Lake	2.0 "
Sherwood Springs into Henrys Lake	1.0 "
Webster springs into Henrys Lake	3.0 "
Sheridan Creek above diversions	55.0 "
Morain Creek	3.0 "
Sheridan Creek at hiway 22 Gage 0.88	5.0 "
Upper Railroad diversion	8.4 "
Sheridan Creek spill to Island Park Res.	12.0 "
Icehouse Creek at hiway 22	15.0 "
Willow Creek below Stringer diversion	25.0 "
Grum diversion from Icehouse Cr.	1.5 "

July 23, 24, 1959

Duck Creek at Bootjack hiway	5.3 cfs
Webster drain	0.3 "
Targhee Creek into Henrys Lake	15.0 "
Sheridan Creek above diversions	31.4 "
Sheridan Creek at hiway 22 Gage 0.94	4.8 "
Railroad diversions	5.2 "
Grubb diversion from Icehouse Creek	1.0 "
Icehouse Creek at hiway 22	8.0 "
Sheridan Creek at mouth	0.5 "
Willow Creek at hiway 22	0 "
Snyder Creek at forest road	6.0 "
Willow Creek at forest road	3.0 "
Icehouse Creek at forest road	12.0 "

August 10, 1959

Duck Creek at Bootjack Hiway Gage 0.86	3.6 cfs
Magleby diversion into pipe line	1.4 "
Lyon diversion from Rock Creek	.4 "

August 19, 1959

Targhee Creek into Henrys Lake (Murky from earthquake)	10.0 cfs
Icehouse Creek at hiway 22 (clear)	12.0 "
(Sheridan Creek at hiway 22 Gage 1.02	6.3 ")
(Return flow $\frac{1}{2}$ mi. East of gage #1	1.5 ")
(#2	2.5 ")
(Total available to Railroad ranch	10.3 ")

September 3, 1959

Icehouse Creek at hiway 22	7.0 cfs
Willow Creek at hiway 22	0 "
Sheridan Creek at hiway 22 Gage 0.38	0.5 "
Sheridan Creek at Forest road	22.0 "

Henrys Lake Allotment, 1959

Contents July 11	74,200 acre-feet
Dead Storage and Loss	3,000 " "
Available for allotment	71,200 " "

<u>Canal</u>	<u>Allotted</u> <u>Percent</u>	<u>Acre-feet</u>
Dewey	1.43	1,018
Last Chance	13.87	9,875
St. Anthony Union	6.8	4,842
Salem Union	24.2	17,230
Egin	6.8	4,842
Independent	26.8	19,082
Consolidated Farmers	20.1	14,311
Total	100.0	71,200

During the period of storage draft July 11 to September 11, the Lake contents dropped 13,400 acre-feet. During the same period the storage released, based on estimated inflow, amounted to 12,072 acre-feet, giving an indicated net loss of 1,328 acre-feet.

Fremont-Madison Irrigation District Allotment

Island Park	July 8	133,510 acre-feet
Grassy Lake	July 9	15,210 " "
Sheridan Creek right		<u>1,722 " "</u>
Total		150,442 acre-feet

The District allotted 132,211 acre-feet to its members and rented them an additional 9,807 acre-feet for a total of 142,018 acre-feet.

As shown on Plate 21, there was 12,098 cfs or 23,996 acre-feet (Rexburg measurement) of Snake River water retained on Henrys Fork during 1959. The Enterprise District held 16,071 acre-feet of Snake River storage rights and the United States rented 40 acre-feet to Island Park users. There was also 841 acre-feet of Palisades water allotted to users in the Island Park area. Allowing for $6\frac{1}{4}\%$ Snake River transmission loss this is equivalent to 15,900 acre-feet at Rexburg. The actual retention was 8,096 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 1959 season.

Diversions during the 1959 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	1,650	1,150	1.4
Marysville	45,700	15,000	3.0
Farmers Own	17,200	4,800	3.6
Almy	620	80	7.8
Enterprise	37,000	5,885	6.3
Bell	2,120	320	6.6

Diversions during 1959 irrigation season - continued

Canal	Diversions (acre-feet)	Area Irrigated (acres)	Acre-feet per acre
<u>Fall River canals - continued</u>			
Fall River	110,700 (a)	9,000	8.9
McBee	560	110	5.1
Chester	13,800	1,400	9.9
Silkey	4,250	680	6.2
Cur	11,300	1,300	8.7
Total Fall River	241,900	39,725	6.1

(a) Includes 31,000 diverted thru Cross Cut.

Henrys Fork Canals

Dewey	6,020	1,000	6.0
Last Chance	26,900	1,850	14.5
St. Anthony Union	133,000	9,700	13.7
Farmers Friend	28,900	2,550	11.3
Twin Groves	34,900	2,200	15.9
Salem Union	57,300	5,500	10.4
Egin	85,900	6,000	14.3
St. Anthony U. Feeder	23,100	2,300	10.0
Independent	80,500	7,000	11.5
Consolidated Farmers	58,800	6,000	9.8
Total Henrys Fork	535,320	44,100	12.1

Lower Teton Canals

Siddoway	4,050	500	8.1
Wilford	29,000	2,500	11.6
Teton Irrigation	24,500	2,000	12.2
Good Luck	4,600	330	13.9
Pioneer	2,190	300	7.3
Stewart	5,460	360	15.2
Pincock-Byington	3,390	400	8.5
Pincock-Garner	5,380	480	11.2
Teton Island Feeder	111,000	10,400	10.7
Roxana	4,720 (b)	780	6.1
Island Ward	6,800 (b)	3,000	2.3
North Salem	1,290 (c)	450	2.9
Woodmansee-Johnson	3,660 (d)	1,375	2.7
City of Rexburg	5,710	720	7.9
Rexburg Irrigation	50,200	5,280	9.5
McCormick-Rowe	1,350	160	8.4
Saurey Sommers	2,750	295	9.3
Gardner	520	200	2.6
Eames Thompson	410	160	2.6
Total Lower Teton	266,980	29,690	9.0

Total Fall River, Henrys
Fork and Lower Teton

1,044,200

113,515

9.2

- (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 7% greater than for 1958 and are greater than for any previous year.

Of the total diversions of 1,044,200 acre-feet, 144,933 acre-feet or 13.9% was stored water.

Diversions by some of the principal canals in the headwater areas for the 1959 irrigation season (May 15 to September 30) are shown below:

Canal	Diversions (acre-feet)	Area Irrigated (acres)	Acre-feet per acre
String Canal	10,200	2,300	4.4
Trail Creek Irr. Co.	23,500	5,500	4.7
Fox Creek Canals	12,300	3,700	3.3
Darby Creek Canals	18,200	4,800	3.8
Grand Teton Canal	33,800	6,500	5.2
Canyon Creek Canal	6,100	2,200	2.8
Conant Creek Canal	5,620	2,000	2.8
Squirrel Creek Canal	1,890	900	2.1
Boom Creek Canal	1,470	330	4.5

Diversions were not greatly different from a year ago. Summer was dry and streamflow below normal so that there was a substantial shortage of water during July and August.

River gains in Henrys Fork Basin, 1959

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.

Gain in Henrys Fork, Lake to Island Park, 1959

(Island Park dates and 24-hr. cfs, except as noted)

Station	May	June	July	Aug.	Sept.	Total
Lake	648	803	3,268	5,450	373	10,542
I. P. release	-736	613	29,565	18,886	9,496	57,824
Total supply	-88	1,416	32,833	24,336	9,869	68,366
Island Park	22,074	19,868	49,228	41,434	28,567	161,171
Tot. gain cfs	22,162	18,452	16,395	17,098	18,698	92,805
Mean gain cfs	715	615	524	552	623	607
Tot. gain a.f.	43,957	36,599	32,519	33,913	37,086	184,074

The gain for May was less than in 1958 owing to cool weather and delayed run-off. Gains for all other months are greater than in 1958. Increase in gains for August and September is partly due to increased flow following earthquake of August 17.

Gain in Henrys Fork, Island Park to Ashton, 1959

(Ashton dates and 24-hr. cfs, except as noted)

Station	May	June	July	Aug.	Sept.	Total
Island Park	21,930	19,950	48,293	41,973	28,973	161,119
Ashton	60,430	47,040	70,030	63,290	56,340	297,130
Total gain cfs	38,500	27,090	21,737	21,317	27,367	136,011
Mean gain cfs	1,242	903	701	688	912	889
Total gain a.f.	76,364	53,733	43,115	42,282	54,282	269,776

The gain in May was less than for 1958 owing to delayed run-off. For all other months it is substantially greater than a year ago.

Gain in Henrys Fork, Ashton to St. Anthony, 1959

(St. Anthony dates and 24-hr. cfs, except as noted)

Station	May	June	July	Aug.	Sept.	Total
Ashton	60,397	47,105	69,813	63,434	56,423	297,172
Chester	36,682	49,028	5,796	2,953	6,329	100,788
Total Supply	97,079	96,133	75,609	66,387	62,752	397,960
Diversions	38,701	38,964	42,803	35,160	24,372	180,000
St. Anthony	58,490	62,710	37,885	37,213	38,740	235,038
Total acct. for	97,191	101,674	80,688	72,373	63,112	415,038
Total gain cfs	112	5,541	5,079	5,986	360	17,078
Mean gain cfs	4	185	164	193	12	111
Total gain a.f.	222	10,990	10,074	11,873	714	33,873

The mean average gain was 72 cfs less than for 1958. Low gain for May probably reflects reduced canal waste during period of short supply prior to spring run-off. June was only month where gain exceeded that in 1958.

Gain in Fall River, Squirrel to Chester, 1959

(Chester dates and 24-hr. cfs, except as noted)

Station	May	June	July	Aug.	Sept.	Total
Squirrel	43,441	66,333	20,311	13,769	14,622	158,476
Diversions	13,869	26,011	17,876	14,422	11,829	84,007
Chester	36,682	49,028	5,796	2,953	6,329	100,788
Total acct. for	50,551	75,039	23,672	17,375	18,158	184,795
Total gain cfs	7,110	8,706	3,361	3,606	3,536	26,319
Mean gain cfs	229	290	108	116	118	172
Total gain a.f.	14,102	17,268	6,666	7,152	7,013	52,203

The average daily gain was 4 cfs greater than in 1958. May gain was lower owing to delayed run-off. For all other months it was greater than for 1958.

Gain in Henrys Fork and Teton River, St. Anthony to Rexburg, 1959

(St. Anthony dates and 24-hr. cfs, except as noted)

Station	May	June	July	Aug.	Sept.	Total
Teton River	30,995	52,821	33,829	23,851	21,295	162,791
Henrys Fork	58,490	62,710	37,885	37,213	38,740	235,038
Total Supply	89,485	115,531	71,714	61,064	60,035	397,829
Teton Diversion	27,278	37,602	30,153	22,553	16,800	134,386
H. Fk. Diver.	34,185	28,440	25,668	22,525	14,370	125,188
Rexburg	46,903	76,545	40,920	39,851	45,150	249,369
Total acct. for	108,366	142,587	96,741	84,929	76,320	508,943
Total gain cfs	18,881	27,056	25,027	23,865	16,285	111,114
Mean gain cfs	609	902	807	770	543	726
Total gain a.f.	37,449	53,665	49,641	47,336	32,301	220,392

The average daily gain of 726 cfs was 53 cfs greater than the corresponding figure for 1958. This gain is produced mostly by return flow from upstream irrigation use and the 220,392 acre-feet total gain for the five month period is equal to 21% of the 1,044,200

acre-feet diverted by canals above Rexburg during the same period. This is the same percent of return flow as that for the comparable period in 1958. Much additional return flow moves westward underground towards Mud Lake and Market Lake and there is further drain-off to Henrys Fork during non-irrigation season.

EFFECTS OF EARTHQUAKE ON STREAM FLOW

The earthquake of August 17, 1959 produced noticeable changes in the flow of springs in the Henrys Fork area. Big Springs near Island Park turned muddy following the quake and remained so for several weeks. Measurements on September 3 (181 cfs) and October 19 (186 cfs) indicate that discharge was about same as measured in previous years and probably was not materially changed by quake.

Many streams including Buffalo River were turbid for several weeks after earthquake. Discharges were reported to have increased noticeably.

Measurements were obtained on the Wayne Johnson spring in Sec. 12 and on Duck Creek at point in NW $\frac{1}{4}$ Sec. 24, T. 15 N., R. 43 E., both being tributary to Henrys Lake. The effect of earthquake is shown in the following table.

<u>Johnson Spring</u>		<u>Duck Creek</u>	
<u>Date</u>	<u>(cfs)</u>	<u>Date</u>	<u>cfs</u>
Prior to quake	2.0 (est)	June 23	5
Sept. 11	9.6	July 23	6
Oct. 8	7.0	Aug. 10	4
Nov. 20	5.4	Aug. 14	4
		Aug. 18	6
		Aug. 21	15
		Aug. 30	14
		Sept. 8	15
		Sept. 11	15
		Oct. 8	16
		Nov. 20	12

Normal flow into Island Park Reservoir (shown on Plate 21) increased from 540 cfs before earthquake to over 700 cfs for a few

days thereafter and remained at about 660 cfs for the rest of the season.

Inflow to Henrys Lake for period September 11 to October 8, 1959 averaged 63 cfs compared to 27 cfs in 1958. For period September 11 to December 18, 1959 the inflow averaged 59 cfs compared to about 46 cfs for corresponding period in 1957.

TETON BASIN

C. Drue Cooper, with summer office at Driggs, continued in 1959 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 1959, inclusive, amounted to only 3.56" compared to a normal of 6.52". Total precipitation for July and August was only 0.45".

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 7,015 acre-feet to Teton Basin users and rented them an additional 192 acre-feet for a total of 7,207 acre-feet, reservoir measurement, equivalent to 10,018 acre-feet headgate diversion allocation. Actual storage diversions

were only 6,859 acre-feet or less than 70% of allotments. The limited water available for diversion after flood run-off makes it impossible during most years to fill all stored allotments.

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 \$203.50, 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.

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 \$515.00 total, as a special charge and the balance of the cost of his services, amounting to \$927.00, was charged as general expense of District 36.

With Palisades storage available for allotment only 400 acre-feet was rented during 1959.

PRECIPITATION IN INCHES

(Actual and normal for year ending September 30, 1959)

Month	<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.	0.23	1.53	1.00	1.43	1.07	1.09	0.22	1.58	0	1.26
Nov.	2.64	1.37	4.60	1.80	2.58	1.10	4.07	1.73	1.66	1.15
Dec.	1.30	1.56	1.81	2.40	.93	1.67	2.57	2.24	1.55	1.25
Jan.	1.90	1.51	2.63	2.24	1.32	1.47	1.40	2.14	1.64	1.42
Feb.	1.70	1.43	3.11	2.18	.99	1.41	2.08	1.87	1.73	1.15
Mar.	.79	1.41	2.17	2.05	.79	1.28	1.55	2.00	.47	1.14
Apr.	1.33	1.37	1.47	1.69	.42	1.16	1.96	1.56	.61	1.06
May	3.07	2.07	2.07	1.89	2.43	1.51	3.04	2.00	2.40	1.67
June	3.76	2.34	1.23	1.86	.71	1.59	.92	2.17	1.17	1.53
July	T	1.04	.13	1.02	.15	.78	.70	.93	.10	.97
Aug.	.60	1.19	.96	1.33	1.26	1.19	1.15	1.05	2.35	.37
Sept.	2.33	1.29	2.18	1.32	1.84	1.08	3.15	1.25	1.73	1.18
Year	19.65	18.11	23.36	21.21	14.49	15.33	22.81	20.52	15.41	14.55

Month	<u>Ashton</u>		<u>Idaho Falls</u>		<u>Pocatello</u>		<u>Twin Falls</u>		<u>Av. 9 Stas.</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.	0.03	1.28	T	0.98	T	1.04	0.06	0.91	0.59	1.23
Nov.	2.02	1.30	0.63	.79	1.73	1.06	1.29	1.08	2.36	1.26
Dec.	1.10	1.64	.62	1.06	1.09	1.14	.77	.90	1.31	1.54
Jan.	2.33	1.88	.50	1.31	1.24	1.21	1.27	1.10	1.58	1.59
Feb.	2.02	1.52	.30	.97	.78	.93	.30	.88	1.45	2.37
Mar.	1.24	1.21	.01	1.08	.37	1.13	.53	.85	.88	1.35
Apr.	.49	1.16	.01	.94	.19	1.32	.24	1.11	.76	1.26
May	2.69	1.71	.93	1.24	1.11	1.21	1.99	1.03	2.19	1.59
June	1.80	1.66	.69	1.21	.34	1.02	.24	.81	1.21	1.58
July	T	.94	.10	.62	.02	.76	T	.35	.13	.82
Aug.	.49	.79	.39	.59	.58	.72	.25	.22	.89	.85
Sept.	1.91	1.12	1.26	.82	1.73	.90	2.33	.57	2.05	1.06
Year	16.12	16.21	5.44	11.61	9.18	12.44	9.27	9.81	15.40	15.50

On an average for the nine stations the precipitation for the water year ending September 30, 1959 was slightly above normal. It was considerably above normal during November, May and September and much below normal during March, April and July. Average temperature for May was about 5° below normal; that for June was about 4° above normal. Near normal temperatures were experienced in July and August.

EXPENDITURES DURING YEAR ENDING DECEMBER 31, 1959

Engineers and Hydrographers:

Lynn Crandall	Salary Dec. 28-31, 1958	\$ 130.80
H. C. Eagle	Salary Dec. 28, 1958-Dec. 26, 1959	8,755.20
A. L. Larson	Salary Mar. 8-Dec. 26, 1959	6,081.60
O. P. Mortensen	Salary 5 months @ \$375 mo.	1,875.00
C. D. Cooper	Salary 3.48 mo. @ \$375 mo.	1,303.50
A. H. Bush	Salary 2.63 mo. @ \$375 mo.	984.73
Oleen Dummer	Salary 5.61 mo. @ \$375 mo.	2,102.50

Clerk

Charlotte E. Wood	Salary Dec. 28, 1958-Dec. 26, 1959	4,748.80
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River Riders:

D. R. Anthony	80 days @ \$10.50 incl. mileage	816.17*
J. M. Brown	80 days @ \$10.50 incl. mileage	840.00
J. A. Balmforth	36 days @ \$11.00 incl. mileage	396.00
A. J. Smith	80 days @ \$10.50 incl. mileage	840.00
C. J. Anderson	4 days @ \$10.50 incl. mileage	42.00
David Peterson	103 days @ \$14.00 incl. mileage	1,442.00
L. C. Anderson	83 days @ \$15.00 incl. mileage	1,245.00
S. B. Garrett	85 days @ \$15.00 incl. mileage	1,275.00
Elmer Lenz	119 hrs. @ \$ 2.00 incl. mileage	238.00
Elmer Lenz	2.71 mo. @ \$90.00 incl. mileage	243.67
Seth L. Hansen	407 hrs. @ \$ 2.00 incl. mileage	814.00

* Does not include \$23.83 paid from Federal funds and listed under "Gage Readers".

Miscellaneous

Transportation, 2,127 mi. @ 8¢, 26,644 mi. @ 9¢ mi.	2,568.12
Transportation (Gov't car 10 mos.)	1,033.39
Telephone and telegraph	464.55
Supplies and Equipment	2,595.70
Gage Readers	763.50
Bond Premium and Insurance	207.32
Interest	130.52
Social Security	246.73
Miscellaneous (subsistence)	524.25
Groundwater Investigations	1,500.00
Postage	418.81
Retirement fund (Federal)	1,281.53
Lynn Crandall (Burns Creek hearings)	1,025.31
S. Geo. Pilcher	186.00
Washington office Technical Service charge	1,911.75
Total	\$ 49,031.45

Expenditures from various funds

U. S. Bureau of Reclamation	\$ 4,171.62
U. S. Geological Survey (Federal Station)	863.23
U. S. Geological Survey (Federal share of cooperative account)	12,130.84
U. S. Geological Survey (Water District and State share of cooperative account):	
Contributed by Water District	\$7,265.91
Contributed by State	<u>3,921.33</u>
	\$11,187.24
Water District funds (incl. \$7,265.91 above)	<u>27,944.43</u>
Total	\$49,031.45

In addition to the foregoing, upper valley members of the Committee of Nine were paid \$535.23 for services at \$10.00 per day, and expenses, which was pro-rated among upper valley canals.

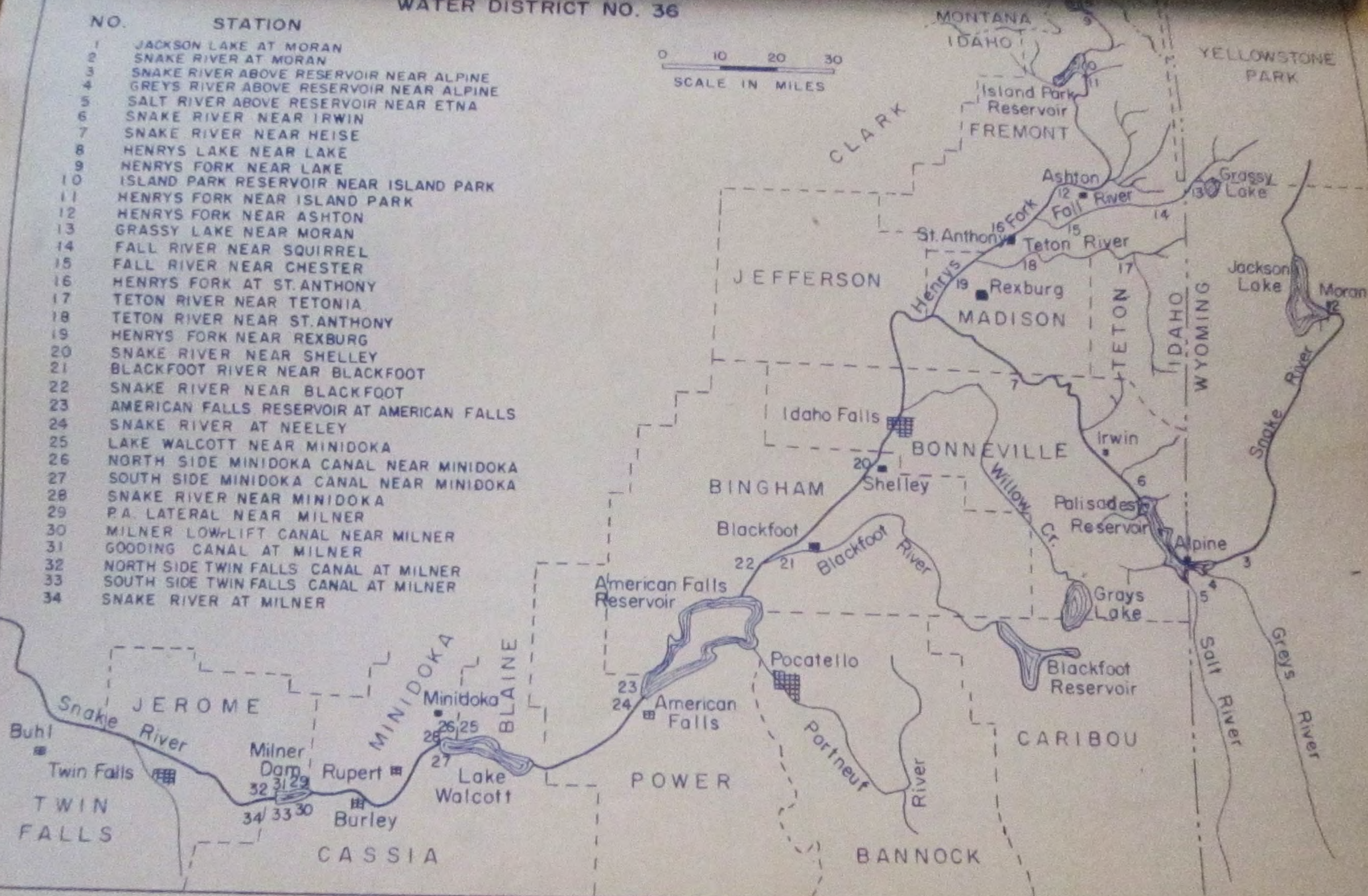
Funds on Hand January 1, 1960

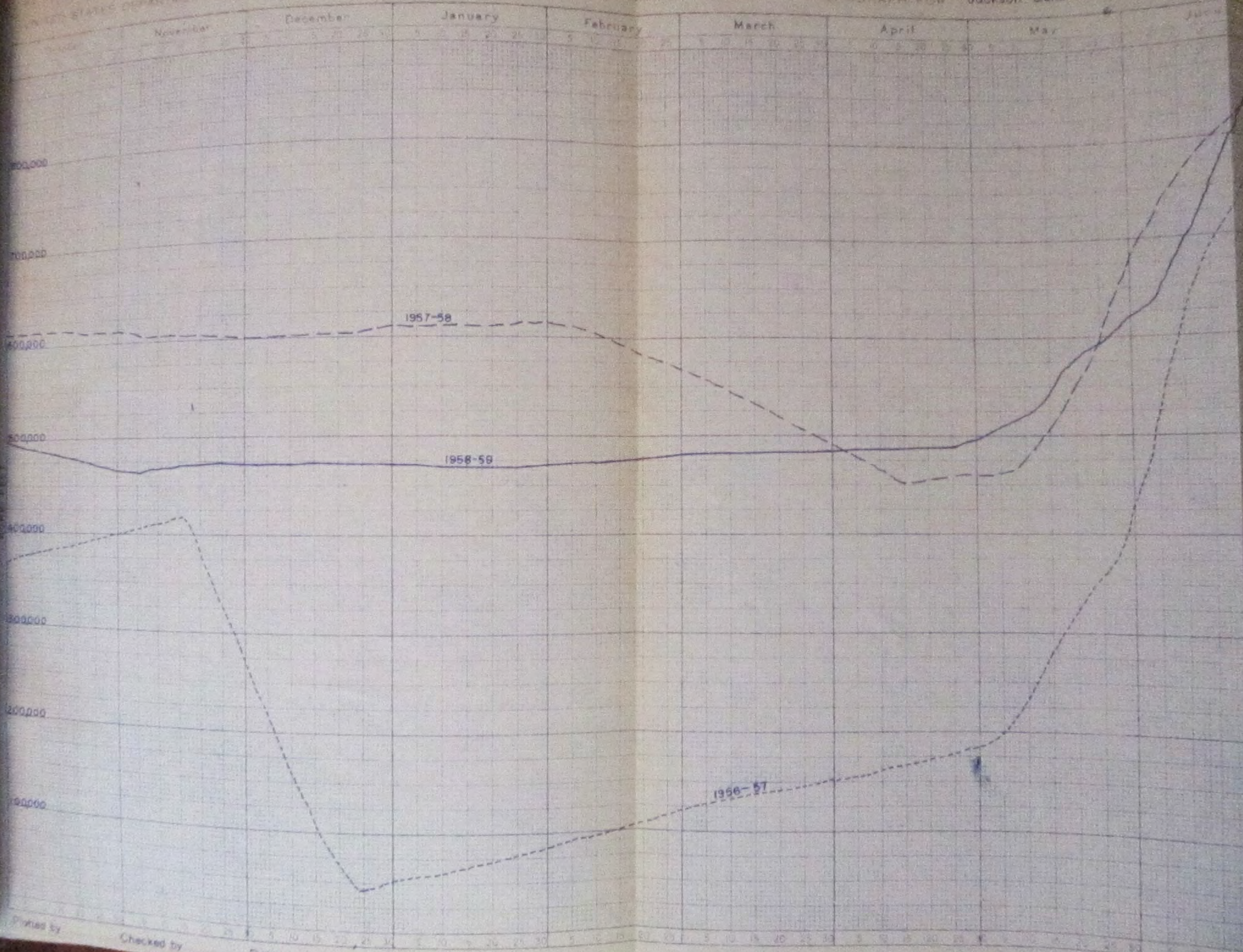
U. S. Geological Survey Cooperative	\$ 6,165.72
State Cooperative	1,304.00
U. S. Bureau of Reclamation	2,688.23
U. S. Geological Survey (Federal Station)	408.00
Water District Funds	<u>9,432.17</u>
Total	\$19,998.17

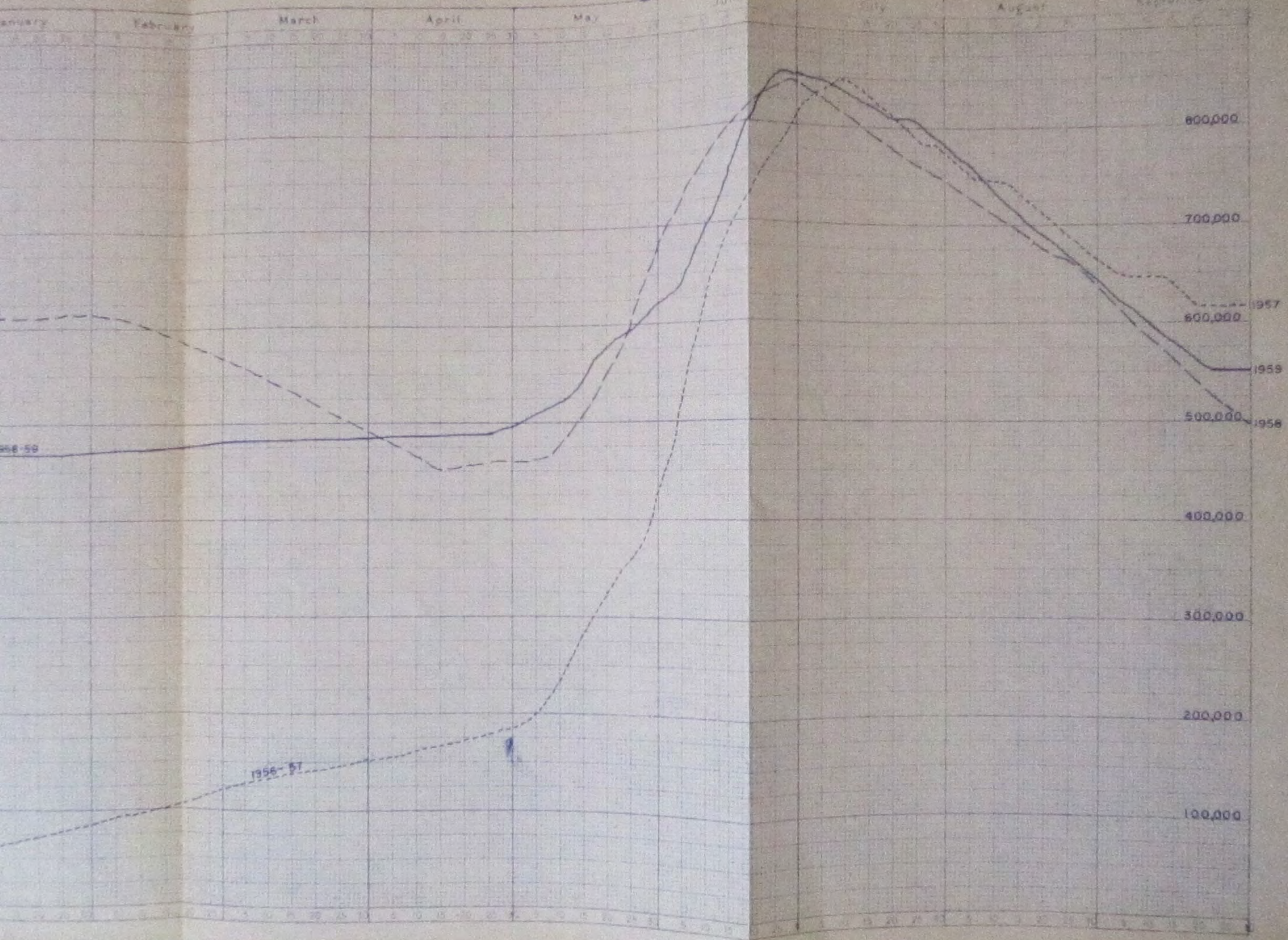
WATER DISTRICT NO. 36

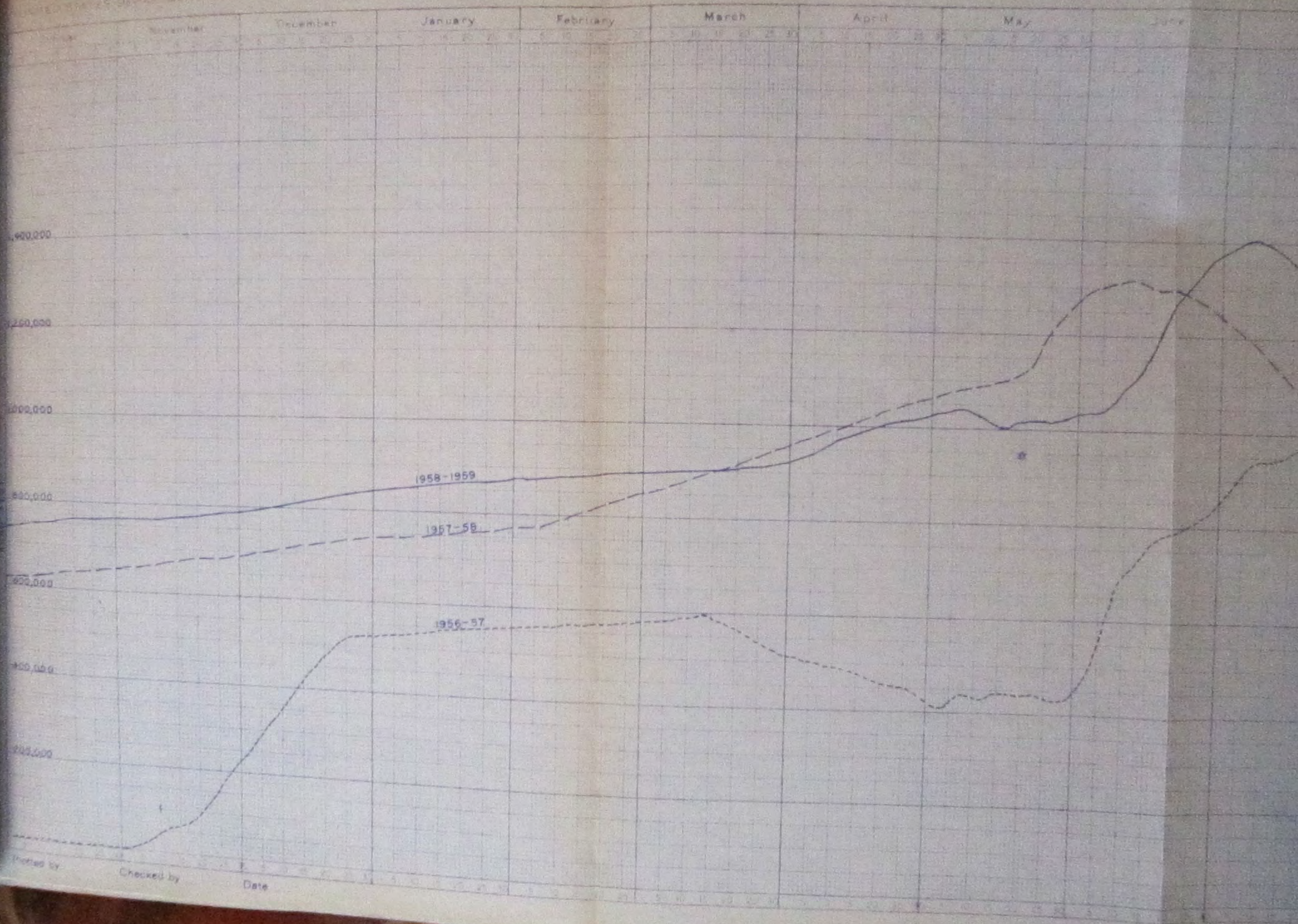
NO.	STATION
1	JACKSON LAKE AT MORAN
2	SNAKE RIVER AT MORAN
3	SNAKE RIVER ABOVE RESERVOIR NEAR ALPINE
4	GREYS RIVER ABOVE RESERVOIR NEAR ALPINE
5	SALT RIVER ABOVE RESERVOIR NEAR ETNA
6	SNAKE RIVER NEAR IRWIN
7	SNAKE RIVER NEAR HEISE
8	HENRYS LAKE NEAR LAKE
9	HENRYS FORK NEAR LAKE
10	ISLAND PARK RESERVOIR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

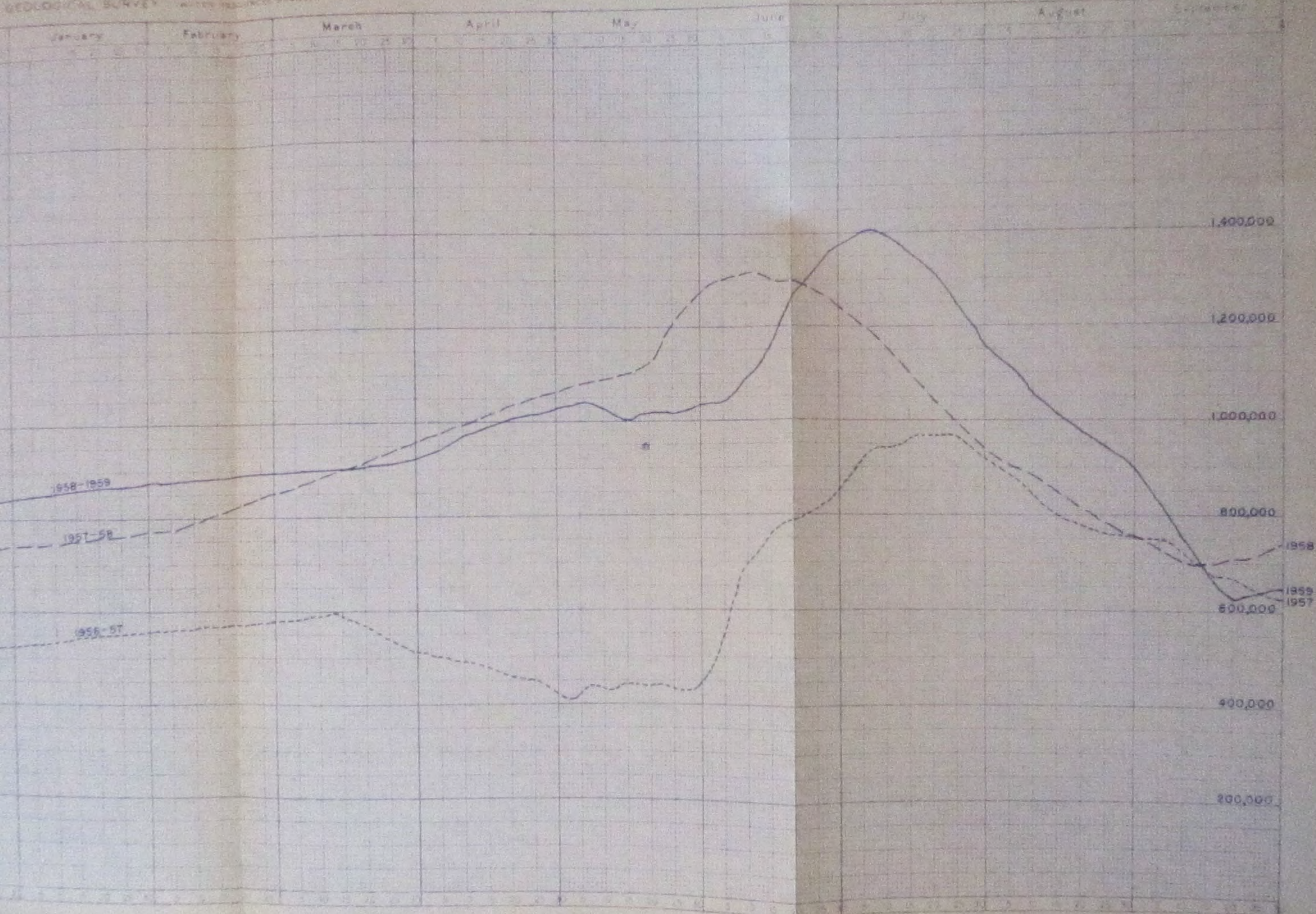
0 10 20 30
SCALE IN MILES

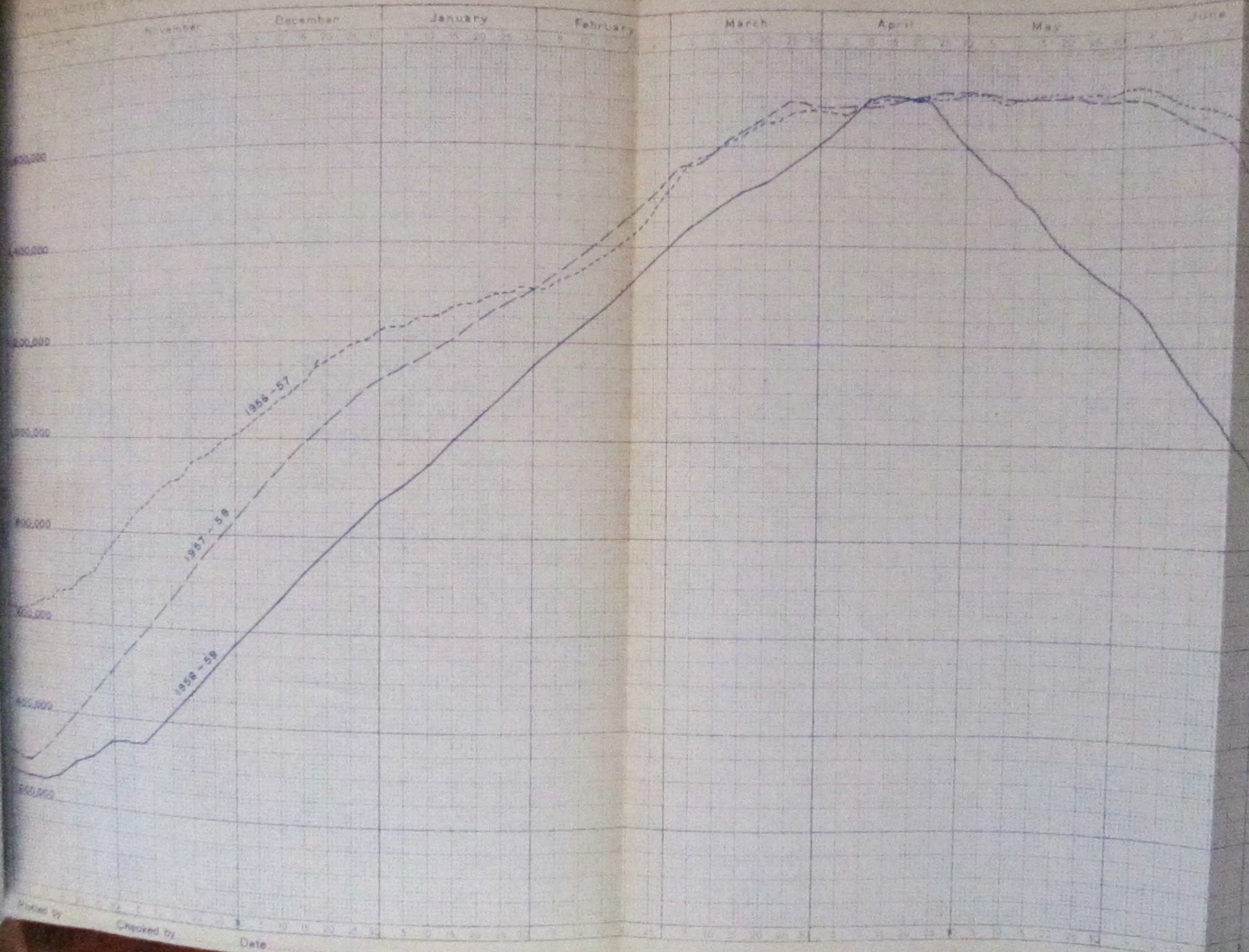








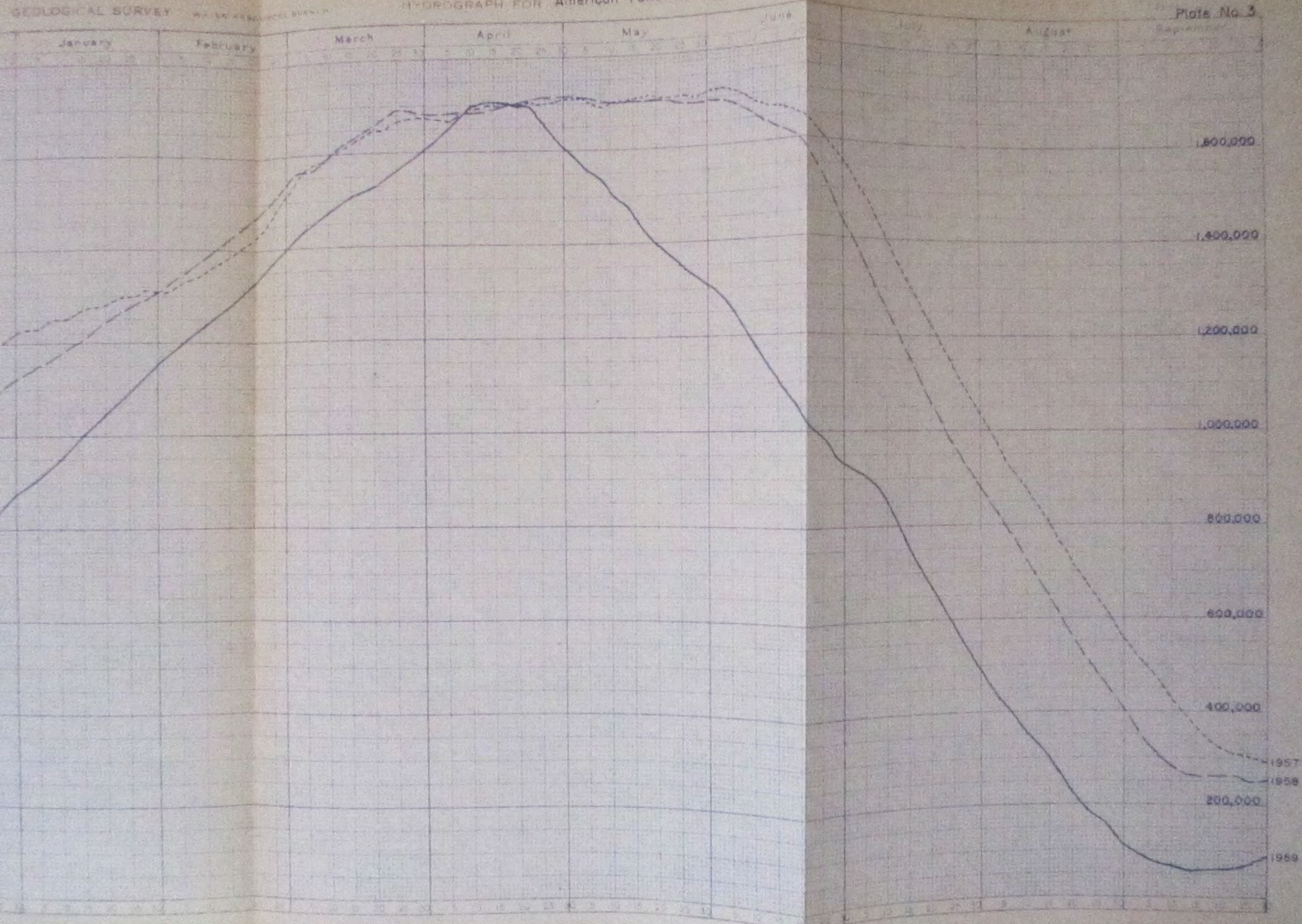




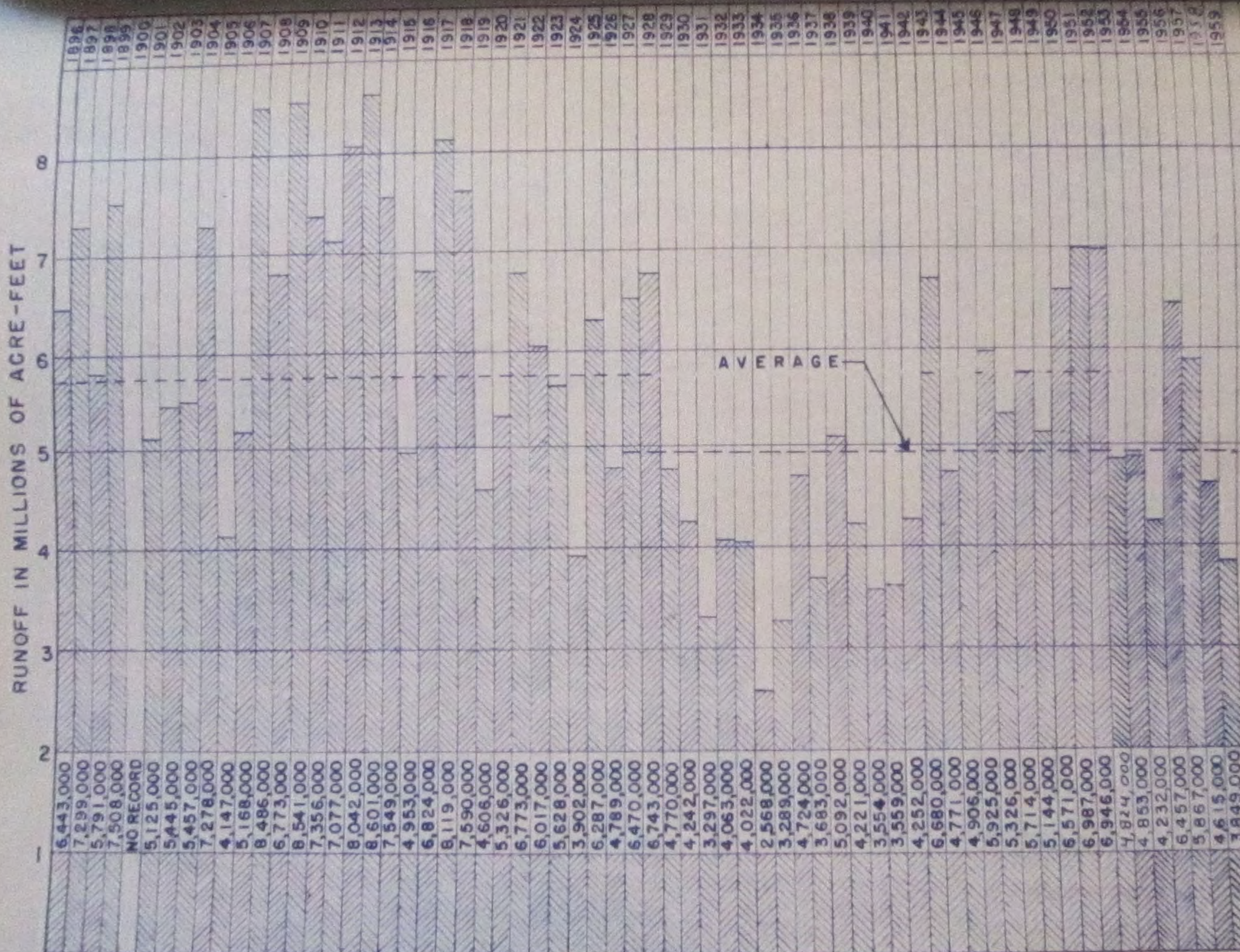
Plotted by
Checked by

Date

HYDROGRAPH FOR American Falls Reservoir

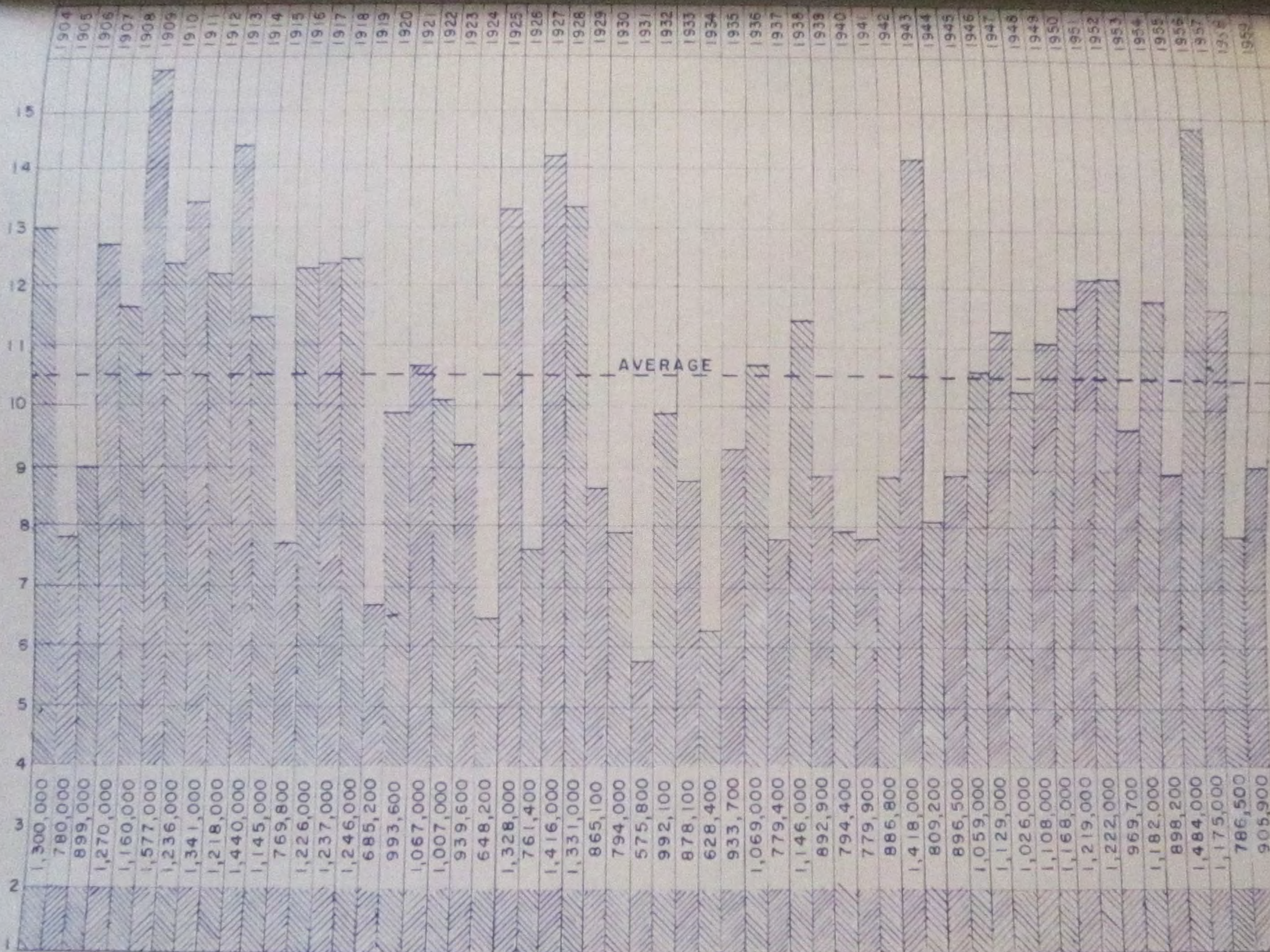


ANNUAL RUNOFF OF SNAKE RIVER AT NEELEY, IDAHO



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 HUNDREDS OF THOUSANDS OF ACRES - FEET



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

NAME OF COWAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	
RILEY	113	184	200	202	174	244	271	344	338	413	413	400	446	453	453	442	354	310	217	217	217	256	257	261	247	244	244	236	228	174	172	8,268	
ANDERSON	189	196	200	201	192	189	250	317	321	367	452	492	563	559	533	444	433	341	354	294	213	270	213	215	263	260	260	263	250	218	218	9,469	
EAGLE ROCK	184	156	128	159	190	204	217	338	342	346	350	366	383	370	356	308	314	320	326	332	338	344	350	356	362	354	350	343	334	329	328	7,461	
FARMERS FRIEND	91	79	78	77	80	82	106	110	122	122	122	140	145	140	150	150	110	75	77	79	90	98	106	114	124	134	135	136	138	140	141	3,421	
ENTERPRISE	0	0	0	0	0	0	0	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	
NELSON	7	7	7	7	7	10	15	20	21	27	33	20	9	9	9	9	9	9	9	9	15	15	15	15	15	15	20	28	28	28	28	10	462
WATSON-CRAIG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ARNSBERGER	2	2	2	5	10	15	20	30	40	44	44	44	44	44	44	44	42	42	42	42	42	40	40	40	40	40	35	30	30	30	40	48	1,031
BUTLER ISLAND	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ROSS & RAND	0	0	0	0	0	0	0	4	8	11	11	11	11	8	8	8	3	3	3	3	3	8	8	8	8	5	2	0	0	0	0	0	131
STEELE	306	264	258	251	310	347	366	384	372	360	347	468	512	435	360	286	270	255	240	225	210	195	202	208	214	220	213	206	199	234	269	8,986	
HARRISON	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	43
CHENEY	115	124	100	113	128	141	143	161	151	143	122	105	122	115	108	112	122	113	83	69	89	95	95	96	95	95	95	92	82	80	95	3,421	
BOOMER	57	53	31	31	33	30	29	31	33	31	31	38	42	56	58	51	60	60	56	34	27	27	32	34	37	48	47	40	35	30	31	1,233	
RUDY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KITE & NORD	782	708	639	639	708	722	739	776	757	748	743	761	831	845	845	812	790	790	660	579	579	579	579	584	579	571	567	493	466	493	514	20,874	
BURGESS	51	64	76	88	91	92	94	68	74	80	86	91	92	93	94	94	92	91	91	91	91	91	92	93	94	94	83	72	62	70	78	2,613	
CLARK & EDWARDS	57	57	57	60	60	60	63	63	65	65	65	60	60	60	60	55	55	50	50	50	45	45	45	45	45	42	42	42	42	42	42	1,649	
LOWDER & JENNINGS	92	98	103	108	113	118	123	129	126	124	122	120	122	124	125	134	142	150	157	164	150	136	122	108	95	98	100	102	104	99	94	3,702	
EAST LABELLE	45	56	107	107	107	107	107	142	142	72	72	105	178	234	188	140	118	118	120	113	107	106	108	106	105	98	98	95	94	90	75	3,460	
SUNNYDELL	123	126	130	130	132	132	135	157	160	168	171	174	151	182	176	169	175	174	171	169	167	162	154	155	161	160	151	150	128	127	127	4,747	
LENROOT	163	151	154	151	158	160	160	167	163	171	163	167	167	151	204	163	151	141	142	142	141	155	154	165	176	0	0	0	0	119	113	4,228	
BEID	186	274	289	282	274	259	304	335	292	296	312	304	307	316	287	312	289	301	288	302	306	310	314	314	312	313	313	248	184	233	282	8,238	
TEXAS FEEDER	5	5	5	5	5	6	6	6	6	6	7	7	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	242	
NELSON COREY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HILL PETTINGER	201	219	155	179	170	163	155	170	175	162	166	167	161	161	161	158	159	91	109	78	77	77	79	65	76	76	79	76	78	102	107	4,052	
RIGBY	109	109	110	110	110	110	118	126	145	141	137	132	172	186	188	177	172	178	163	170	165	177	176	176	183	190	186	181	175	170	165	4,805	
ISLAND	15	15	15	16	16	17	17	18	18	19	19	20	20	21	22	23	24	24	25	26	27	27	27	33	26	26	26	22	22	17	17	660	
DILTS	0	0	120	253	258	263	302	342	402	461	492	492	524	557	557	527	497	467	492	492	490	489	489	489	475	460	445	430	441	452	433	12,591	
WEST LABELLE BLONDISLAND	284	258	258	258	275	275	275	275	275	275	275	275	275	293	311	311	311	275	275	275	275	275	274	274	272	272	253	253	251	251	250	250	8,460
PARKS & LEWISVILLE	55	55	55	55	56	56	56	57	57	57	58	58	58	59	59	59	60	60	60	60	60	59	59	58	58	57	57	56	56	55	55	1,780	
NORTH RIGBY	2	2	2	2	2	1	1	1	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	69	
WHITE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
ELLIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121	
BRAMWELL	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	5	3	3	6	9	9	9	7	7	7	5	5	5	5	5	5	8,971	
BUTTE & MARKET LAKE	126	148	168	187	206	224	243	268	292	315	287	300	312	322	338	341	363	346	342	340	340	332	324	317	313	307	314	320	318	317	301	2,622	
OSGOOD	61	62	62	65	65	70	70	70	80	80	80	88	88	88	88	88	88	88	106	104	104	105	100	105	90	90	90	90	85	85	85	19	
BEAR ISLAND & SMITH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	396	
KENNEDY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,345	
IDAHO	567	526	553	699	764	851	970	915	848	811	908	854	976	969	932	956	861	792	732	709	662	631	584	556	556	553	596	539	565	455	455	10,934	
GREAT WESTERN	224	222	245	282	286	280	282	296	327	326	341	358	408	427	433	432	427	427	422	395	392	397	394	386	388	389	383	349	336	339	341	5,753	
PORTER	114	117	146	146	146	144	179	179	230	222	230	262	263	292	283	279	269	269	162	162	230	173	176	176	143	142	145	145	145	145	145	0	
COY & KELLER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WOODVILLE	50	50	72	73	74	68	78	97	101	98	99	96	98	103	111	107	101	101	82	90	83	83	84	84	83	83	80	81	83	83	83	2,659	
SNAKE RIVER VALLEY	381	386	431	431	431	381	456	508	399	199	527	604	705	753	663	613	511	467	452	450	448	435	426	433	429	427	422	377	366	359	350	14,220	
TOTAL HEISE TO SHELLEY	4626	4789	4973	5389	5649	5840	6373	6733	6924	6792	7116	7581	8309	8473	8228	7773	7383	6937	6677	6394	6295	6301	6203	6179	6168	5914	5701	5561	5405	5439	5472	198,323	
RESERVATION	401	426	328	309	393	387	414	493	598	636	569	558	566	614	648	635	571	429	457	434	369	355	346	267	219	236	245	189	167	159	261	12,673	
BLACKFOOT	233	250	268	252	237	284	297	310	372	297	380	400	420	440	382	324	310	297	306	315	324	334	345	356	366	363	366	326	285	244	325	10,008	
NEW LAVA SIDE	90	82	96	114	121	149	149	167	161	140	157	156	161	190	180	138	132	132	128	119	110	93	93	94	108	113	110	111	110	115	116	3,935	
PEOPLES	280	298	339	358	394	3																											

ANDERSON	121	212	408	440	458	484	486	485	512	504	514	509	507	507	504	480	480	480	478	505	512	510	482	488	488	475	441	444	587	588	898	
EAGLE ROCK	339	416	382	384	385	435	409	643	691	649	653	651	640	660	660	660	660	668	668	668	659	651	640	672	664	664	431	483	483	274	225	15,186
FARMERS FRIEND	286	357	428	429	430	431	432	433	434	435	436	436	376	346	215	246	266	286	305	315	329	270	411	358	366	375	384	372	400	393	16,176	
ENTERPRISE	142	180	192	167	176	185	185	185	185	188	192	192	193	194	195	197	198	197	196	195	193	192	201	202	202	202	202	202	202	202	202	11,077
NELSON	0	0	0	0	0	0	0	0	0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2,105	
MATTSON-CRAIG	6	6	6	6	6	10	15	15	15	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	18	
ANSBERGER	0	0	0	0	0	0	0	0	0	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	403	
BUTLER ISLAND	48	50	51	50	49	48	48	50	53	56	60	64	64	65	64	63	63	60	58	57	59	61	63	60	58	56	56	56	54	52	1,696	
ROSS & RAND	0	0	0	0	0	0	0	0	2	5	5	5	5	5	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	
STEELE	0	5	8	8	8	10	10	10	10	10	10	10	10	10	10	8	8	5	3	3	3	3	3	3	3	3	3	3	3	3	210	
HARRISON	304	551	578	604	481	488	569	573	567	565	561	560	589	580	572	564	556	543	547	546	545	506	540	542	543	433	259	244	222	188	14,920	
CHENEY	4	4	5	6	6	8	8	10	10	10	10	10	10	10	5	5	5	5	5	10	10	10	10	10	10	10	10	10	10	10	222	
BOOMER	139	171	207	212	228	108	129	129	143	157	175	196	212	216	218	201	196	188	201	216	188	181	177	181	190	177	165	70	100	58	5,129	
RUDY	35	40	52	72	98	58	56	58	67	68	66	75	80	79	87	86	80	88	92	96	93	81	82	90	72	64	37	28	30	25	2,035	
KITE & NORD	0	0	3	3	3	8	6	10	11	11	11	11	11	11	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	183	
BURGESS	590	836	898	889	876	902	885	889	898	910	907	907	911	911	911	911	916	916	953	916	911	911	907	894	902	898	814	790	123	530	26,012	
CLARK & EDWARDS	87	87	86	85	85	84	83	82	81	81	82	84	86	88	89	88	87	86	85	86	87	88	89	87	84	82	79	76	74	72	2,520	
LOWDER & JENNINGS	45	47	47	47	51	56	58	60	64	67	67	67	67	65	65	64	62	63	67	67	67	67	64	62	59	58	55	50	45	42	1,765	
EAST LABELLE	95	96	97	152	156	160	163	167	170	174	168	163	158	160	161	162	163	164	165	168	172	175	178	183	185	204	222	188	153	121	4,843	
SUNNYDELL	59	77	153	74	190	219	227	218	216	213	157	155	155	155	154	154	151	146	190	197	196	171	199	192	206	176	147	118	121	119	4,905	
LENROOT	126	122	176	130	193	195	197	188	174	189	183	199	207	207	202	211	245	239	235	235	192	237	215	215	203	183	183	188	190	188	5,847	
REID	172	195	190	190	201	197	225	221	213	216	220	239	232	232	233	221	226	220	215	227	212	197	219	235	191	186	173	163	168	168	6,197	
TEXAS FEEDER	265	278	290	310	343	336	359	354	348	364	397	407	397	396	396	391	391	392	392	391	391	357	370	383	389	389	380	325	318	312	10,811	
NELSON COREY	12	12	12	12	12	13	13	14	14	15	16	16	16	16	15	15	15	14	14	13	13	12	11	11	11	11	11	11	11	8	379	
HILL PETTINGER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	20	
RIGBY	142	170	192	195	217	252	246	246	238	213	215	203	208	204	198	204	203	203	230	230	206	205	205	195	184	175	161	147	141	134	5,262	
ISLAND	160	158	172	183	194	193	220	228	217	235	234	211	208	212	216	214	212	205	208	216	224	176	183	185	190	198	223	202	180	159	6,016	
OLTS	17	20	24	26	27	28	30	29	28	28	28	27	27	27	28	27	26	26	30	30	30	30	35	33	35	34	34	27	26	25	842	
WEST LABELLE BLONG ISLAND	544	528	511	499	531	577	577	537	597	598	600	600	600	600	594	579	564	564	593	602	610	614	598	583	585	587	570	554	537	537	17,170	
PARKS & LEWISVILLE	300	318	334	334	352	388	370	409	409	390	392	392	392	376	397	394	392	392	409	409	370	405	385	391	383	347	311	275	275	0	10,691	
NORTH RIGBY	54	54	47	59	52	92	91	90	80	69	76	83	90	59	60	58	60	61	63	64	66	67	69	71	70	65	60	55	50	50	1,985	
WHITE	3	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	4	3	3	1	0	127	
ELLIS	2	2	2	2	2	2	2	2	2	2	1	0	0	0	0	0	0	0	2	5	7	7	10	12	13	14	10	6	2	0	123	
BRAMWELL	4	4	4	4	4	4	6	9	9	9	10	10	12	12	12	12	12	6	6	6	6	6	6	6	6	6	6	6	6	3	1	207
BUTTE & MARKET LAKE	282	276	330	384	438	453	476	488	435	454	474	482	489	499	498	504	498	491	492	504	516	506	465	460	470	484	478	472	465	370	13,633	
OSGOOD	84	84	84	84	84	93	93	110	122	122	122	120	120	120	126	132	133	131	132	130	133	133	132	131	129	130	132	128	124	124	3,522	
BEAR ISLAND & SMITH	2	3	3	4	4	5	5	5	3	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	0	0	0	0	100	
KENNEDY	40	40	50	60	62	62	62	62	62	62	63	63	63	63	63	63	62	61	60	59	58	56	55	54	53	52	30	30	30	20	1,620	
IDAHO	453	534	877	991	1120	1260	1300	1340	1370	1380	1380	1380	1310	1320	1180	1220	1250	1300	1390	1370	1280	1260	1210	1110	1070	844	755	765	677	464	33,170	
GREAT WESTERN	361	416	438	456	472	496	512	525	577	592	601	594	582	552	541	543	528	545	573	585	592	590	582	563	538	573	566	552	500	445	15,990	
PORTER	145	184	231	264	309	314	380	384	384	384	385	385	387	387	389	392	389	389	383	384	388	386	364	319	317	320	321	304	278	190	10,016	
COY & KELLER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WOODVILLE	83	83	80	99	126	131	124	138	137	124	124	124	124	120	120	103	113	111	117	124	122	123	109	102	98	101	105	95	96	83	3,339	
SNAKE RIVER VALLEY	464	539	574	746	810	824	829	870	870	850	846	810	760	753	781	814	812	812	798	758	709	709	677	645	643	566	541	493	334	292	20,729	
TOTAL HEISE TO SHELLEY	6106	7207	8216	8703	9278	9606	10123	10304	10421	10448	10513	10476	10377	10264	10011	10039	10086	10133	10440	10455	10235	10132	10009	9799	9689	9062	8417	8005	7272	6050	281,956	
RESERVATION	393	440	456	638	628	609	638	675	693	619	641	654	652	652	638	664	651	648	651	660	652	553	630	644	649	523	504	407	266	208	17,276	
BLACKFOOT	406	197	197	382	293	378	464	478	492	462	487	512	545	338	331	352	372	392	412	378	345	333	333	330	326	323	320	295	138	138	10,549	
NEW LAVA SIDE	135	172	180	187	184	179	190	199	196	170	168	187	185	189	188	186	169	167	170	167	171	180	173	161	149	121	113	111	112	105	4,964	
PEOPLES	472	492	505	510	530	525	540	565	567	581	594	597	591	594	591	589	591	590	586	584	594	602	589	581	545	510	515	522	518	449	16,619	
ABERDEEN	1060	1140	700	1150	1380	1460	1480	1500	1500	1510	1500	1500	1510	1520	1520	1500	1460	1450	1430	1410	1400	1390	1390	1380	1400	1380	1240	1190	1200	1160	40,810	
CORBETT	169	159	0	1																												

[illegible]

[illegible]

[illegible]

M A Y

[illegible]

INFLOW TO AMERICAN FALLS RES

BETWEEN BLACKFOOT AND NEELEY STATIONS

24 HOUR SECOND- FEET

JUNE																														JULY																			
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20								
35	35	35	35	35	34	33	32	31	30	29	28	27	27	26	26	26	26	26	26	26	27	27	27	28	28	28	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	31						
270	270	270	270	270	271	272	272	273	274	274	275	275	276	276	277	277	277	277	277	277	277	277	276	276	276	276	276	276	275	276	275	275	275	275	275	276	278	280	281	283	285	287	289	291	293	295			
464	463	462	461	460	458	457	455	454	452	451	449	448	446	444	442	441	438	436	434	432	430	428	426	424	422	420	419	417	416	415	413	412	411	410	412	414	417	420	422	424	427	429	431	433	435	437			
136	136	136	136	136	135	134	133	132	131	130	129	128	127	126	125	125	125	125	125	124	124	123	123	122	122	121	121	120	120	120	119	119	118	118	118	118	119	119	119	120	120	120	121	121	121	121			
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30	30	30	30	30	30	30	30	30	30	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29			
66	67	68	68	68	68	67	67	66	66	65	65	64	64	63	63	63	63	63	63	64	64	64	65	65	65	66	66	66	67	67	67	68	68	68	68	68	68	67	67	66	66	65	65	65	65	65			
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23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	25	25	25	25	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26			
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1374	1375	1393	1392	1394	1379	1390	1397	1408	1406	1385	1379	1388	1364	1349	1334	1336	1336	1348	1359	1361	1382	1367	1361	1329	1323	1326	1294	1259	1283	1286	1267	1244	1239	1239	1239	1241	1261	1266	1271	1273	1276	1278	1280	1282	1284				
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80,337

79,435

1959

AUGUST

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1267	1270	1283	1284	1291	1308	1297	1294	1318	1327	1323	1325	1343	1332	1328	1352	1349	1335	1344	1335	1343	1349	1339	1362	1346	1334	1350	1337	1347	1367	1392	1350	1367	1358	1362	1381	1394	1405	1378	1377	1376	1378	1378	1382	1382	1382	
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82,053

SEPTEMBER

SEPTEMBER																											
	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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	12	13	13	14	14	14	14	14	13	13	13	13	13	12	12	12	12	12	12	12	12	12	13	13	13	14	14
	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
	27	29	32	41	30	27	25	28	30	33	36	31	31	37	37	34	40	36	35	32	43	45	41	41	42	36	3
	12	12	11	12	13	11	11	12	12	13	13	13	14	15	15	15	18	17	16	17	17	16	17	18	18	18	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
	4	1	3	4	1	0	0	0	2	3	1	1	8	10	8	2	5	5	1	1	0	6	10	10	20	20	2
	59	59	59	59	59	58	58	58	57	57	57	56	56	55	55	55	54	54	54	54	54	55	55	56	56	57	5
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	4	5	5	6	
	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	2
	1362	1392	1394	1405	1378	1377	1376	1375	1379	1382	1389	1377	1380	1383	1378	1369	1375	1380	1381	1377	1383	1397	1418	1437	1450	1460	14
	1230	1290	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
	2652	2682	2694	2705	2678	2677	2676	2675	2679	2682	2689	2677	2680	2683	2678	2669	2675	2680	2681	2677	2683	2697	2718	2737	2750	2760	27

PLATE NO. 11

	20	21	22	23	24	25	26	27	28	29	30
21	37	38	39	40	41	42	43	43	43	44	44
3	294	296	297	299	300	301	301	300	300	300	300
29	480	479	478	477	475	474	472	471	470	469	468
44	129	130	131	132	132	133	134	134	134	135	135
12	6	6	6	6	6	6	6	6	6	6	6
28	28	29	29	29	29	29	29	29	29	29	29
60	60	60	60	60	60	60	60	60	60	60	60
6	6	6	6	6	6	6	6	6	6	6	6
27	28	28	28	28	29	29	29	29	29	29	29
7	7	7	7	7	7	7	7	7	7	7	7
0	0	0	0	0	0	0	0	0	0	0	0
106	119	114	110	110	110	123	144	191	209	197	180
0	0	0	0	0	0	0	0	0	0	0	0
41	41	41	42	42	42	42	42	42	42	42	42
60	60	61	61	62	62	62	62	62	62	62	62
4	4	4	4	4	4	4	4	4	4	4	4
4	14	14	15	15	15	15	16	16	16	16	16
2	2	2	2	2	2	2	2	2	2	2	2
7	34	30	20	15	10	14	24	39	24	27	34
5	14	13	12	11	11	12	12	11	13	11	33
2	2	2	2	2	2	2	2	2	2	2	2
0	18	5	0	1	10	10	9	22	45	40	35
7	57	58	58	59	59	60	60	60	60	60	60
4	4	5	5	5	5	5	5	5	5	5	5
7	8	8	9	10	10	11	11	11	11	11	11
5	25	25	28	25	25	25	25	25	25	25	25
89	1463	1465	1449	1446	1452	1474	1506	1577	1604	1589	1595
20	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
89	2783	2786	2749	2746	2752	2774	2805	2877	2904	2889	2895

DAILY SEGREGATION OF DATA AT AND B

24 HO

DATE	JACKSON LAKE CONTENTS ACRE-Feet	SNAKE RIVER AT MORAN			STORED LOSS MORAN TO IRWIN	STORED INFLOW TO PALISADES RESERVOIR	DATE	PALISADES RESERVOIR CONTENTS 1000 - A.F.	SNAKE RIVER NEAR IRWIN			IRWIN TO BLACKFOOT		DATE	SNAKE RIVER NEAR BLACKFOOT			BLACKFOOT TO HEELEY		DATE	AMERICAN RESERVOIR CONTENTS 1000 ACRE-Feet
		STORED	NORMAL	TOTAL					STORED	NORMAL	TOTAL	STORED LOSS	STORED DIVERSION		STORED	NORMAL	TOTAL	CALCULATED INFLOW	STORED DIVERSIONS		
1	485780	0	440	440	0	0	APR 14	984	-1510	3280	1770	-171	130	APR 16	-1489	3899	2430	2961		APR 17	752
2	486010	0	444	444	0	0	15	989	-2520	4660	2130	-285	130	17	-2365	4705	2340	2957		18	750
3	486010	0	444	444	0	0	16	993	-2008	4108	2100	-235	0	18	-1773	4043	2270	2937	13	19	637
4	485780	0	440	440	0	0	17	996	-1510	3660	2150	-171	0	19	-1339	3609	2270	3147	13	20	1694
5	485780	0	440	440	0	0	18	999	-1510	3660	2150	-171	0	20	-1339	3459	2120	3206	13	21	1892
6	485780	-232	672	440	-4	-228	19	1004	-2748	4748	2100	-311	0	21	-2437	4267	1830	3082	13	22	1880
7	486240	-116	556	440	-2	-114	20	1005	-618	3648	3030	-70	0	22	-548	2398	1850	3051	13	23	1683
8	486470	0	440	440	0	0	21	1005	0	3030	3030	0	190	23	-190	1570	1380	3033	13	24	1676
9	486470	-116	556	440	-2	114	22	1006	-618	3648	3030	-70	240	24	-788	1758	970	3045	16	25	1663
10	486700	0	440	440	0	0	23	1008	-1005	4035	3030	-114	270	25	-1161	2341	1180	3000	17	26	1656
11	486700	0	440	440	0	0	24	1010	-1005	4095	3090	-114	300	26	-1191	2065	874	3039	17	27	1657
12	486700	-701	1145	444	-12	-689	25	1013	-2199	6289	4090	-248	330	27	-2281	3361	1080	3028	17	28	1624
13	488090	-839	1283	444	-14	-825	26	1017	-2845	7835	4990	-322	360	28	-2883	4713	1630	3026	17	29	1619
14	490860	-80	533	453	-1	-79	27	1022	-2593	7539	4940	-294	400	29	-2705	4685	1960	2974	17	30	1607
15	492930	-585	1038	453	-10	-575	28	1024	-1585	6465	4880	-179	430	30	-1836	2856	1020	2950	17	MAY 1	1598
16	494090	-696	1149	453	-12	-684	29	1024	-684	5564	4880	-77	460	MAY 1	-1067	1432	365	2955	17	2	1586
17	495470	-580	1033	453	-10	-570	30	1027	-2080	6940	4860	-235	500	2	-2345	2615	270	2961	17	3	1676
18	496620	-933	1395	462	-16	-917	MAY 1	1031	-2937	7797	4860	-332	530	3	-3135	3593	458	2982	17	4	1686
19	498470	-431	897	466	-7	-424	2	1033	-1434	8154	6720	-162		4	-1272	3982	2610	3013	17	5	1656
20	500780	-616	1082	466	-10	-606	3	1036	-2016	8766	6750	-227		5	-1789	3919	2130	3033	17	6	1580
21	503320	-1395	1853	458	-24	-1371	4	1037	-1876	8626	6750	-212		6	-1664	3024	1360	3020	17	7	1544
22	506090	-1400	1856	466	-24	-1376	5	1039	-2386	7296	4910	-270		7	-2116	2496	380	3014	17	8	1536
23	508870	-1174	1640	466	-20	-1154	6	1040	-1659	7929	6270	-187		8	-1472	1648	176	2919	17	9	1623
24	511200	-940	1384	444	-16	-924	7	1040	-924	7925	7000	-104		9	-820	970	150	2745	17	10	1503
25	513060	-817	1257	440	-14	-803	8	1036	+1207	7273	8480	+138		10	+1071	-379	692	2718	17	11	1498
26	514580	-1520	1960	440	-26	-1494	9	1032	516	9174	9690	58		11	458	1482	1940	2787	17	12	145
27	517700	-1995	2435	440	-34	-1961	10	1027	659	9541	10100	63		12	496	1064	1560	2706	23	13	146
28	521660	-1285	1720	435	-22	-1263	11	1022	1257	8573	9830	142		13	1115	-368	747	2657	30	14	147
29	524210	-1290	1720	430	-22	-1268	12	1017	1252	8608	9860	143		14	1109	-704	395	2668	35	15	1435
30	526770	-2000	2435	435	-34	-1966	13	1010	1564	9336	10900	177		15	1387	-923	464	2665	36	16	1441
31	530730	-2830	3260	430	-48	-2782	14	1005	-262	12462	12200	-30		16	-232	2312	2080	2648	37	17	1427
32	536340	-3770	4196	426	-64	-3706	15	1001	-1696	13396	11700	-192		17	-1504	4354	2850	2681	37	18	1614
33	543830	-2704	3130	426	-46	-2658	16	1001	-2658	13358	10700	-300		18	-2358	5718	3360	2672	37	19	1402
34	553190	0	430	430	0	0	17	1009	-4030	13100	9070	-455		19	-3375	6515	2940	2626	37	20	1383
35	561910	-1422	1852	430	-24	-1398	18	1013	-3406	11886	8480	-385		20	-3021	5701	2680	2750	37	21	1366
36	566030	-1255	1685	430	-21	-1234	19	1017	-3231	11101	7870	-365		21	-2866	5646	2780	2761	37	22	1377
37	572740	-2140	2566	426	-36	-2104	20	1018	-2608	10538	7930	-295		22	-2313	4973	2660	2755	37	23	1268
38	576890	-1670	2096	426	-28	-1642	21	1018	-1642	8732	7090	-186		23	-1456	3516	2060	2773	36	24	1360
39	580310	-2630	3056	426	-45	-2585	22	1019	-3089	10149	7060	-349		24	-2740	5040	2300	2803	35	25	1352
40	585530	-1430	1856	426	-24	-1406	23	1018	-902	8642	7740	-102		25	-800	3360	2560	2788	33	26	1344
41	588370	-1080	1502	422	-18	-1062	24	1017	-558	8028	7470	-63		26	-495	2825	2350	2779	33	27	1336
42	590310	-1074	1496	422	-18	-1056	25	1017	-1056	8586	7530	-119		27	-937	3107	2170	2803	33	28	1328
43	592540	-2030	2452	422	-35	-1995	26	1017	-1995	9058	7060	-226		28	-1769	3999	2230	2831	33	29	1318
44	595670	-1345	1762	417	-23	-1322	27	1019	-2339	9429	7090	-264		29	-2075	4805	2730	2856	29	30	1316
45	602380	0	422	422	0	0	28	1024	-2520	9300	6780	-285		30	-2235	5025	2790	2861	26	31	1308

BETWEEN SNAKE RIVER GAGING STATIONS

4 HOUR SECOND-FOOT EXCEPT AS NOTED

AMERICAN FALLS RESERVOIR		SNAKE RIVER AT NEELEY			LAKE WALCOTT		MINIDOKA CANALS					DATE	MINIDOKA NORTH SIDE PUMP STORED	GOODING PROJECT			NORTH SIDE CANAL COMPANY					
CONTENTS 1000 ACRE-FOOT	NORMAL FLOW CREDIT	STORED	NORMAL	TOTAL	CONTENTS ACRE-FOOT	NORMAL FLOW CREDIT	NORTH	SOUTH	TOTAL	STORED	NORMAL			STORED	NORMAL	TOTAL	P. A.	GOODING	MAIN	TOTAL	STORED	NORMAL
1702		-260	6860	6600	87,620		1090	728	1818	0	1818	APR. 18	48	0	570	570	0	680	983	1663	0	16
1700		-1062	7662	6600	86,100		947	663	1610	0	1610	19	48	0	570	570	0	870	979	1849	0	18
1697		-380	6980	6600	90,990	1173	867	640	1507	0	1507	20	48	610	0	610	0	810	1260	2070	0	20
1694		-156	6756	6600	92,160	361	935	640	1575	0	1575	21	48	630	0	630	0	740	1530	2270	0	21
1692		505	6665	7170	92,040		970	640	1610	0	1610	22	48	630	0	630	0	720	1960	2680	365	22
1688		691	7349	8040	92,160		1000	637	1637	0	1637	23	48	740	0	740	0	760	2330	3090	198	23
1683		3321	5449	8770	91,690		1170	632	1802	76	1726	24	55	800	0	800	0	790	2640	3430	2773	
1675		4767	4603	9370	92,160		1220	666	1886	683	1203	25	55	920	0	920	15	780	2530	3325	2925	
1665		4907	4803	9710	92,620		1200	799	1999	593	1403	26	55	1060	0	1060	15	800	2280	3095	2895	
1655		4519	5341	9860	92,160		1210	802	2012	61	1726	27	61	1090	0	1090	31	830	2100	2961	2561	
1638		4606	5104	9710	92,270		1170	802	1972	246	1726	28	61	1080	0	1080	32	830	2050	2912	228	
1624		3131	6389	9520	93,200		1120	802	1922	196	1726	29	76	1160	0	1160	48	770	2050	2868	1175	1
1615		1581	7739	9320	94,720		1100	802	1902	0	1902	30	86	1220	0	1220	47	740	2050	2837	0	2
1607		1661	7639	9320	94,950		1140	871	2011	0	2011	MAY 1	86	1250	0	1250	58	740	1840	2638	0	2
1598		3194	5806	9000	94,720		1140	895	2035	309	1726	2	70	1260	0	1260	58	770	1700	2528	1178	1
1586		3933	4387	8320	93,550		957	744	1701	404	1297	3	70	1260	0	1260	58	770	1710	2538	2138	
1576		2604	5576	8180	94,020		860	679	1539	0	1539	4	70	1250	0	1250	58	760	1710	2528	1251	1
1566		1565	6575	8140	92,860		794	671	1465	0	1465	5	70	1270	0	1270	58	750	1710	2518	229	2
1556		1145	6895	8040	92,970		740	637	1377	0	1377	6	63	1260	0	1260	58	760	1830	2648	0	2
1550		1268	6952	8220	92,860		698	584	1282	0	1282	7	63	1250	0	1250	60	790	1970	2820	0	2
1544		2316	6044	8360	93,440		678	535	1211	0	1211	8	63	1230	0	1230	60	770	1930	2760	797	1
1536		2810	5510	8320	94,250		690	460	1150	0	1150	9	63	1200	0	1200	60	700	1860	2620	1170	1
1523		3703	4567	8270	91,920		722	503	1225	38	1187	10	63	1210	0	1210	60	690	1910	2690	2290	
1509		4465	3715	8180	93,440		799	527	1326	1011	315	11	74	1250	0	1250	60	710	2090	2860	2460	
1498		6111	2339	8450	94,490		874	627	1501	1501	0	12	84	1280	0	1280	60	730	2360	3150	2875	
1491		4631	4269	8900	93,320		1050	712	1762	893	869	13	84	1280	0	1280	60	740	2460	3260	2860	
1484		5541	3769	9710	92,620		1300	883	2183	1814	369	14	91	1270	0	1270	60	720	2450	3230	2830	
1474		8701	2299	11,000	90,990		1410	1080	2490	2490	0	15	100	1300	0	1300	60	710	2450	3220	2949	
1459		9536	1964	11,500	90,410		1590	1060	2650	2650	0	16	122	1370	0	1370	62	760	2410	3232	3001	
1441		9758	1742	11,500	90,990		1600	1050	2650	2650	0	17	122	1390	0	1390	60	800	2340	3200	2995	
1427		6440	4960	11,400	91,570		1550	1060	2610	1050	1560	18	137	1350	0	1350	61	790	2310	3151	2761	
1414		4265	7035	11,300	92,970		1470	1060	2530	804	1726	19	132	1340	0	1340	61	780	2320	3161	852	2
1402		2710	8390	11,100	93,900		1380	1010	2390	0	2390	20	132	1340	0	1340	61	800	2310	3171	171	3
1393		1859	9141	11,000	96,150	806	1410	925	2335	0	2335	21	137	1320	0	1320	61	800	2290	3151	151	3
1385		2349	8451	10,800	97,840		1520	931	2451	0	2451	22	137	1230	0	1230	61	790	2300	3151	131	3
1377		1493	8407	9900	98,560		1500	907	2407	0	2407	23	148	1240	0	1240	60	770	2290	3120	120	3
1368		1272	7728	9000	97,110		1330	877	2207	479	1728	24	148	1220	0	1220	60	750	2210	3020	20	3
1360		2481	6289	8770	96,270		1310	777	2087	361	1726	25	148	1220	0	1220	60	700	2180	2940	1377	1
1352		1247	7843	9090	95,070		1300	822	2122	219	1903	26	148	1240	0	1240	60	690	2190	2940	0	2
1344		3082	6148	9230	94,020		1230	862	2092	366	1726	27	148	1240	0	1240	59	710	2180	2949	1527	1
1336		3576	5604	9180	93,670		1120	865	1985	259	1726	28	144	1220	0	1220	59	710	2190	2959	2051	
1328		3220	5910	9130	93,320		1080	822	1902	176	1726	29	134	1220	0	1220	59	730	2200	2989	1715	1
1322		2400	6830	9230	93,090		1070	785	1855	129	1726	30	135	1270	0	1270	58	760	2190	3008	174	2
1315		1619	7661	9280	93,320		1000	731	1731	0	1731	31	136	1290	0	1290	60	800	2180	3040	40	3
1308		1225	7815	9040	94,490		998	775	1773	0	1753	JUNE 1	141	1280	0	1280	60	790	2200	3050	0	3

GAGING STATIONS

1959

PLATE No. 12

CANALS		DATE	MINIDOKA NORTH SIDE PUMP STORED	GOODING PROJECT			NORTH SIDE CANAL COMPANY						TWIN FALLS CANAL COMPANY			MILNER		LOW LIFT			SHAKE RIVER AT MILNER		
STORED	NORMAL			STORED	NORMAL	TOTAL	P. A.	GOODING	MAIN	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL		
0	1818	APR. 18	48	0	570	570	0	680	983	1663	0	1663	0	2230	2230	0	0	0	0	67	67		
0	1810	19	48	0	570	570	0	870	979	1849	0	1849	0	2230	2230	0	0	0	0	67	67		
0	1507	20	48	610	0	610	0	810	1260	2070	0	2070	0	2230	2230	45	0	45	71	0	71		
0	1575	21	48	630	0	630	0	740	1530	2270	0	2270	0	2550	2550	78	0	78	71	0	71		
0	1610	22	48	630	0	630	0	720	1960	2680	365	2315	0	2740	2740	89	0	89	72	0	72		
0	1637	23	48	740	0	740	0	760	2330	3090	198	2892	0	2820	2820	115	0	115	72	0	72		
76	1726	24	55	800	0	800	0	790	2640	3430	2773	733	0	2990	2990	144	0	144	72	0	72		
683	1203	25	55	920	0	920	15	780	2530	3325	2925	400	100	3000	3100	154	0	154	68	0	68		
593	1403	26	55	1060	0	1060	15	800	2280	3095	2695	400	10	3000	3010	154	0	154	67	0	67		
61	1726	27	61	1090	0	1090	31	830	2100	2961	2561	400	0	2990	2990	154	0	154	109	0	109		
245	1726	28	61	1080	0	1080	32	830	2050	2912	2287	625	0	2990	2990	154	0	154	279	0	279		
196	1726	29	76	1160	0	1160	48	770	2050	2868	1175	1693	0	2970	2970	154	0	154	274	0	274		
0	1902	30	86	1220	0	1220	47	740	2050	2837	0	2837	60	3000	3060	158	0	158	271	0	271		
0	2011	MAY 1	86	1250	0	1250	58	740	1840	2638	0	2638	0	2990	2990	168	0	168	271	0	271		
309	1726	2	70	1260	0	1260	58	770	1700	2528	1178	1350	0	2730	2730	168	0	168	274	0	274		
404	1297	3	70	1260	0	1260	58	770	1710	2538	2138	400	0	2690	2690	168	0	168	277	0	277		
0	1539	4	70	1250	0	1250	58	760	1710	2528	1251	1277	0	2760	2760	168	0	168	277	0	277		
0	1465	5	70	1270	0	1270	58	750	1710	2518	228	2290	0	2820	2820	168	0	168	274	0	274		
0	1377	6	63	1260	0	1260	58	760	1830	2648	0	2648	0	2870	2870	160	0	160	285	0	285		
0	1282	7	63	1250	0	1250	60	790	1970	2820	0	2820	0	2850	2850	154	0	154	282	0	282		
0	1211	8	63	1230	0	1230	60	770	1930	2760	797	1963	0	2870	2870	149	0	149	269	0	269		
0	1150	9	63	1200	0	1200	60	700	1860	2620	1170	1450	0	2910	2910	146	0	146	102	0	102		
38	1167	10	63	1210	0	1210	60	690	1910	2690	2290	400	0	2980	2980	146	0	146	47	0	47		
011	315	11	74	1250	0	1250	60	710	2090	2860	2460	400	40	3000	3040	146	0	146	47	0	47		
501	0	12	84	1280	0	1280	60	730	2360	3150	2875	275	976	2064	3040	150	0	150	48	0	48		
593	869	13	84	1280	0	1280	60	740	2460	3260	2860	400	110	3000	3110	173	0	173	55	0	55		
814	369	14	91	1270	0	1270	60	720	2450	3230	2830	400	140	3000	3140	190	0	190	54	0	54		
490	0	15	100	1300	0	1300	60	710	2450	3220	2949	271	1182	2028	3210	186	0	186	51	0	51		
650	0	16	122	1370	0	1370	62	760	2410	3232	3001	231	1517	1733	3250	186	0	186	54	0	54		
650	0	17	122	1390	0	1390	60	800	2340	3200	2995	205	1683	1537	3220	186	0	186	52	0	52		
050	1560	18	137	1350	0	1350	61	790	2310	3161	2761	400	220	3000	3220	186	0	186	49	0	49		
804	1726	19	132	1340	0	1340	61	780	2320	3161	852	2309	230	3000	3230	186	0	186	26	0	26		
0	2390	20	132	1340	0	1340	61	800	2310	3171	171	3000	180	3000	3180	186	0	186	24	0	24		
0	2335	21	137	1320	0	1320	61	800	2290	3151	151	3000	150	3000	3150	186	0	186	30	0	30		
0	2451	22	137	1230	0	1230	61	790	2300	3151	151	3000	140	3000	3140	186	0	186	49	0	49		
0	2407	23	148	1240	0	1240	60	770	2290	3120	120	3000	80	3000	3080	186	0	186	42	0	42		
479	1726	24	148	1220	0	1220	60	750	2210	3020	20	3000	60	3000	3060	179	0	179	17	0	17		
861	1726	25	148	1220	0	1220	60	700	2180	2940	1377	1563	60	3000	3060	171	0	171	10	0	10		
219	1903	26	148	1240	0	1240	60	690	2190	2940	0	2940	70	3000	3070	171	0	171	10	0	10		
366	1726	27	148	1240	0	1240	59	710	2180	2949	1527	1422	40	3000	3040	171	0	171	11	0	11		
259	1726	28	144	1220	0	1220	59	710	2190	2959	2051	906	0	2970	2970	171	0	171	11	0	11		
176	1726	29	134	1220	0	1220	59	730	2200	2989	1715	1274	0	2910	2910	171	0	171	12	0	12		
129	1726	30	135	1270	0	1270	58	760	2190	3008	774	2234	0	2870	2870	171	0	171	13	0	13		
0	1731	31	136	1290	0	1290	60	800	2180	3040	40	3000	0	2930	2930	171	0	171	16	0	16		
0	1753	JUNE 1	141	1280	0	1280	60	790	2200	3050	0	3050	0	2970	2970	129	42	171	14	0	14		

DAILY SEGREGATION OF

JACKSON LAKE CONTENTS ACRE-FEET	SNAKE RIVER AT MORAN			STORED LOSS MORANTO ALPINE	DATE	SNAKE RIVER NEAR ALPINE			PALISADES RESERVOIR CONTENTS ACRE-FEET	SNAKE RIVER NEAR IRWIN			IRWIN TO HEISE		HEISE & RILEY			STORED INFLOW HENRY'S FORK		HEISE TO STORED LOTS
	STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL		STORED	NORMAL	TOTAL	STORED LOSS	STORED DIVERSIONS	STORED	NORMAL	TOTAL			
843,530	470	2900	3370	8	JULY 3	462	6828	9290	1,390,000	2390	11000	8610	-41		2349	12001	9652			-13
848,250	580	2800	3380	10	4	570	9090	9660	1,397,000	-1860	10500	8640	-32		1828	11436	9608			-6
847,740	600	2700	3300	10	5	590	8760	9350	1,402,000	-1930	10500	8570	-33		1897	11444	9547			-32
846,720	700	2600	3300	12	6	688	8442	9130	1,406,000	-1060	10500	9440	-18		1042	11038	9598			-37
845,190	790	2500	3290	13	7	777	8293	9070	1,406,000	300	10300	11600	22		1278	10534	11812			-38
843,150	890	2400	3290	15	8	875	7945	8820	1,403,000	2700	10000	12700	46		2654	10568	13222			-136
841,120	980	2300	3280	17	9	963	7527	8290	1,398,000	2900	9800	12700	49		2851	10375	13226			-139
838,830	1060	2200	3260	18	10	1042	7008	8150	1,394,000	3700	9400	13100	63		3637	9696	13333	211		-138
836,280	1050	2200	3250	18	11	1032	6998	8030	1,386,000	4600	9000	13600	76		4622	9512	14034	336		-221
833,740	1160	2100	3260	20	12	1140	6870	8010	1,378,000	4800	8900	13700	82	5	4713	9321	14034	914		-21
831,190	1210	2050	3260	21	13	1189	6821	8010	1,371,000	4900	8700	13600	83	5	4812	9222	14034	1139		-238
828,400	1260	2000	3260	21	14	1239	6771	8010	1,363,000	5000	8600	13700	85	5	4910	9122	14032	1223		-247
825,850	1250	2000	3250	21	15	1229	6751	7980	1,357,000	5000	8600	13600	85	5	4910	9021	13931	1129		-240
823,050	1240	2000	3240	21	16	1219	6751	7870	1,350,000	4900	8600	13500	83	5	4812	9219	14031	991		-236
820,260	1330	1950	3280	23	17	1307	6396	7730	1,341,000	5000	8400	13400	85	5	4910	9221	14131	289		-242
816,720	1430	1900	3330	24	18	1406	6104	7510	1,335,000	5400	8100	13500	92	5	5303	8827	14130	223		-260
813,690	1490	1800	3290	25	19	1465	5775	7240	1,325,000	6000	7600	13600	102	5	5893	8337	14230	169		-288
810,660	1520	1700	2220	26	20	1494	4476	5970	1,313,000	6000	7600	13600	102	5	5893	8337	14230	211		-288
809,650	-642	1800	958	-11	21	-631	5616	4880	1,299,000	6200	7400	13600	105	10	6085	8145	14230	365		-294
809,900	-749	1600	951	-13	22	-736	5396	4660	1,285,000	6500	7100	13600	110	10	6380	7851	14231	40		-313
809,650	-535	1500	965	-9	23	-526	4936	4430	1,271,000	6700	6900	13600	114	10	6576	7654	14230	94		-312
809,900	-200	1500	1300	-3	24	-197	4857	4660	1,256,000	7000	6700	13700	119	10	6871	7359	14230	133		-317
808,290	1030	1500	2530	18	25	1012	4808	5820	1,242,000	7200	6500	13700	122	10	7068	7163	14231	238		-321
805,110	1510	1500	3010	26	26	1484	4536	6020	1,230,000	7500	6100	13600	127	10	7363	6867	14230	202		-341
802,120	1590	1400	2990	27	27	1563	4377	5940	1,219,000	7600	6100	13700	129	10	7461	6770	14231	276		-348
797,780	1590	1350	2940	27	28	1563	4237	5800	1,207,000	7800	5900	13700	133	10	7657	6574	14231	168		-375
793,510	1590	1300	2890	27	29	1563	4137	5700	1,194,000	7800	5600	13400	133	10	7657	6173	13830	193		-375
789,240	1680	1200	2860	28	30	1632	3968	5600	1,182,000	7800	5600	13400	133	10	7657	6173	13830	194		-375
785,480	1970	1100	3070	34	31	1936	3904	5840	1,169,000	8100	5400	13500	138	10	7952	5978	13630	-68		-390
780,460	2200	1000	3200	37	AUG 1	2163	3837	6000	1,157,000	8100	5300	13400	138	15	7947	5783	13730	110		-388
775,700	2270	900	3170	39	2	2231	3969	6200	1,146,000	8300	5200	13500	141	15	8144	5786	13530	354		-393
771,160	2310	850	3160	39	3	2271	3869	6140	1,136,000	8300	5200	13500	141	15	8144	5685	13820	127		-389
767,700	2350	800	3150	40	4	2310	3660	5970	1,125,000	8500	5000	13500	145	15	8340	5489	13829	92		-408
765,210	2360	750	3110	40	5	2320	3500	5820	1,114,000	8400	4900	13300	143	15	8242	5387	13829	289		-403
760,230	2380	700	3080	41	6	2339	3311	5650	1,101,000	8100	4800	12900	138	15	7947	5480	13427	7		-389
755,000	2430	650	3080	41	7	2389	3159	5550	1,089,000	8200	4700	12900	139	15	8046	5382	13428	-82		-394
748,280	2450	600	3050	42	8	2408	3052	5460	1,077,000	8300	4600	12900	141	15	8144	5183	13327	-84		-398
743,320	2490	550	3040	42	9	2448	2892	5340	1,066,000	8300	4500	12800	141	15	8144	4782	12926	-369		-399
738,270	2510	500	3010	43	10	2467	2793	5260	1,054,000	8300	4400	12700	141	15	8144	4782	12926	-489		-399
733,320	2550	450	3000	44	11	2508	2664	5170	1,044,000	7500	4300	11800	128	20	7352	4772	12124	-514		-380
729,220	2590	400	2990	44	12	2546	2554	5100	1,035,000	6900	4200	11100	117	20	6763	4659	11422	-505		-381
724,030	2580	400	2980	44	13	2536	2444	4980	1,027,000	6600	4100	10700	112	20	6468	4452	10920	-265		-372
720,330	2590	390	2980	44	14	2546	2364	4910	1,019,000	6400	4000	10400	109	20	6271	4549	10820	-125		-361
715,420	2600	380	2980	45	15	2555	2305	4860	1,012,000	6070	3900	9970	103	20	5947	4371	10318	-278		-361
710,510	2590	370	2960	44	16	2546	2204	4750	1,004,000	6030	3800	9830	103	20	5907	4210	10117	-297		-361
705,630	2570	360	2930	44	17	2526	2104	4630	998,000	6000	3800	9800	102	20	5878	4239	10117	-323		-361

DATA AT AND BETWEEN SNAKE RIVER GAGING STA

24 HOUR SECOND- FEET EXCEPT AS NOTED

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- FEET		SNAKE RIVER AT NEELEY			DATE	LAKE HALLS CONTENTS ACRE- FEET	
SEC ST	STORED DIVERSIONS	STORED	NORMAL	TOTAL	STORED LOSS	STORED DIVERSIONS					STORED	NORMAL	TOTAL	CALCULATED INFLOW	STORED DIVERSIONS				STORED	NORMAL	TOTAL				
5							2100		JULY 5	41	-2100	6890	4790	2606	79	JULY 6	201,000	1504	9496	11005	93300				
30							-1634		6	25	-1634	5624	3990	2574	80	7	892,000	4102	8198	12305	91250				
35							-1696		7	30	-1696	3536	1840	2529	79	8	879,000	6835	6065	12900	93400				
40							-932		8	2	-932	2122	1190	2553	78	9	863,000	8125	4675	12800	94750				
45							1142		9	1	1142	428	1570	2555	78	10	845,000	9717	2983	12700	94300				
50							1960		10	2	1960	-790	1170	2537	76	11	826,000	10992	1747	12700	94870				
55	1841						591		11	2	591	243	834	2514	78	12	808,000	9843	2757	12600	97550				
60	1899						1287		12	6	1287	-365	922	2509	79	13	788,000	10456	2144	12600	97550				
65	2152						1954		13	0	1954	-574	1380	2509	77	14	770,000	10565	1935	12500	98040				
70	2192						2590		14	4	1345	115	1460	2509	79	15	752,000	9876	2624	12400	98350				
75	2382						2778		15	1	1349	201	1550	2511	73	16	735,000	9688	2712	12400	98320				
80	2427						2814		16	2	1188	202	1390	2531	90	17	717,000	9567	2733	12300	98400				
85	2442						2676		17	2	1008	202	1210	2536	90	18	699,000	9562	2738	12300	98320				
90	2454						2442		18	2	1108	202	1310	2541	87	19	682,000	9557	2743	12300	97960				
95	2607						1699		19	4	1156	204	1060	2543	85	20	665,000	9553	2747	12300	97960				
100	2488						2141		20	4	1346	204	1550	2546	81	21	648,000	9460	2750	12200	97550				
105	2403						2727		21	4	1296	204	1500	2537	79	22	632,000	9459	2741	12200	97630				
110	2515						2690		22	2	1188	202	1390	2540	83	23	615,000	9558	2742	12300	97550				
115	2607						2904		23	6	1244	206	1450	2563	84	24	597,000	9631	2769	12400	98200				
120	2781						2667		24	23	1287	223	1510	2564	78	25	581,000	9913	2787	12700	98950				
125	2833						2841		25	34	1586	234	1820	2571	75	26	567,000	9895	2805	12700	97850				
130	2992						3002		26	39	1821	239	2060	2588	76	27	551,000	9873	2827	12700	97390				
135	2957						3115		27	1	2009	201	2210	2577	76	28	533,000	10122	2778	12900	98640				
140	2655						3831		28	0	1860	200	2060	2574	72	29	518,000	10326	2774	13100	98780				
145	3013						3065		29	0	1740	200	1940	2598	66	30	502,000	10302	2798	13100	98250				
150	3155						2426		30	0	1700	200	1900	2607	67	31	485,000	10093	2807	12900	97800				
155	3132						2536		31	2	1888	202	2090	2603	65	AUG 1	471,000	9795	2805	12600	97350				
160	2865						2800		AUG 1	5	2185	205	2390	2605	64	2	454,000	9590	2810	12400	95560				
165	2432						2903		2	7	2653	207	2860	2623	64	3	440,000	9570	2830	12400	94950				
170	2459						2963		3	15	3015	215	3230	2612	60	4	427,000	9273	2827	12100	93940				
175	2221						3210		4	5	2815	205	3020	2608	57	5	413,000	9087	2813	11900	92790				
180	2831						2801		5	10	2710	210	2920	2632	57	6	402,000	8858	2842	11700	92990				
185	2920						3121		6	26	2594	226	2820	2639	57	7	385,000	8735	2865	11600	92890				
190	2867						3291		7	21	2479	221	2700	2625	57	8	383,000	8554	2835	11400	92830				
195	2962						2653		8	8	2462	208	2670	2634	55	9	370,000	8458	2842	11300	93310				
200	2888						2315		9	20	2740	220	2960	2625	53	10	358,000	8355	2845	11200	92730				
205	2879						2689		10	18	2972	218	3190	2633	50	11	347,000	8149	2851	11200	92730				
210	2300						2900		11	6	3096	206	3300	2639	50	12	336,000	8255	2845	11100	91520				
215	2255						2679		12	5	2574	206	2780	2629	51	13	324,000	8265	2835	11100	91230				
220	2060						2103		13	16	2004	216	2720	2652	51	14	312,000	8232	2866	11100	90640				
225	2114						1509		14	13	1967	213	2180	2636	51	15	297,000	8651	2849	11500	90600				
230	1718						1819		15	14	2106	214	2320	2624	46	16	282,000	8762	2838	11600	89930				
235	1620						1935		16	19	1981	219	2200	2640	46	17	268,000	8801	2859	11700	89330				
240	1389						1726		17	26	1864	246	2110	2627	47	18	253,000	9021	2873	11900	89080				
245	1172						1652		18	26	1434	226	1660	2637	47	19	238,000	9037	2863	11900	89400				
250	2126						946		19	6	1354	216	1570	2657	47	20	221,000	8627	2573	11700	89980				

STATIONS

1959

AL	LAKE WALCOTT CONTENTS ACRE- FEET	MINIDOKA CANALS					SNAKE RIVER NEAR MINIDOKA			DATE	MILNER MINIDOKA LAKE NORTH SIDE PUMP		MINOR DIVERSIONS MINIDOKA TO MILNER STORED	GOODING PROJECT			NORTH SIDE CANAL			COMPANY		TWIN FALLS CANAL CO.		
		NORTH	SOUTH	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL		LAKE GAGE FEET	STORED		STORED	NORMAL	TOTAL	P A	GOODING	MAIN	TOTAL	STORED	NORMAL	STORED	NORMAL
0	93,320	1660	1380	3040	314	2726	2430	6770	9220	JULY 7	10.36	228	5	1450	0	1450	64	880	2720	3644	464	3680	0	530
0	93,230	1720	1410	3130	932	2198	3800	5000	9800	8	10.86	228	5	1490	0	1490	63	910	2810	3783	783	3000	810	3000
0	93,200	1740	1140	2880	1154	1726	5271	4339	9610	9	11.15	228	5	1490	0	1490	61	930	2890	3881	2542	339	600	3000
0	94,250	1750	1290	3040	1765	1275	6050	3400	9450	10	11.12	232	5	1490	0	1490	56	910	2880	3846	3446	400	600	3000
0	95,430	1760	1300	3060	3060	0	6277	2983	9260	11	11.10	236	5	1520	0	1520	60	910	2880	3850	3500	350	947	2833
0	96,870	1760	1330	3090	3090	0	7483	1747	9230	12	11.12	236	5	1530	0	1530	50	970	2880	3900	3695	205	2038	1548
0	97,330	1760	1340	3100	3100	0	6533	2757	9290	13	11.08	237	5	1550	0	1550	67	930	2880	3877	3553	324	1147	2833
0	97,590	1769	1320	3080	3080	0	7146	2144	9290	14	11.08	237	5	1560	0	1560	66	970	2870	3906	3653	253	1715	1721
0	98,080	1750	1320	3080	3080	0	7385	1935	9320	15	11.04	238	5	1560	0	1560	68	960	2880	3908	3600	228	1953	1707
0	98,320	1760	1280	3040	3040	0	6686	2624	9290	16	11.09	238	5	1570	0	1570	71	940	2880	3891	3582	309	1335	2315
0	98,320	1770	1270	3040	3040	0	6488	2712	9200	17	11.10	238	5	1570	0	1570	64	920	2880	3864	3545	319	1217	2363
0	98,560	1770	1270	3040	3040	0	6437	2733	9170	18	11.08	238	5	1560	0	1560	71	910	2880	3861	3539	322	1200	2400
0	98,720	1760	1270	3030	3030	0	6432	2738	9170	19	10.97	238	5	1560	0	1560	72	900	2880	3852	3529	323	1236	2415
0	97,960	1760	1260	3020	3020	0	6487	2743	9230	20	10.97	238	5	1570	0	1570	72	890	2900	3862	3539	323	1230	2420
0	97,960	1730	1260	2990	2990	0	6543	2747	9290	21	10.98	238	5	1570	0	1570	71	900	2890	3861	3538	323	1226	2424
0	97,330	1700	1250	2950	2950	0	6640	2750	9390	22	10.91	245	5	1570	0	1570	70	920	2880	3870	3548	324	1244	2426
0	96,830	1630	1280	2910	2910	0	6739	2741	9480	23	10.95	245	5	1570	0	1570	70	920	2890	3880	3557	323	1242	2418
0	95,50	1690	1290	2970	2970	0	5708	2742	9450	24	10.91	245	5	1570	0	1570	71	900	2880	3851	3528	323	1221	2419
0	94,020	1650	1290	2940	2940	0	6801	2769	9570	25	10.92	245	5	1580	0	1580	70	910	2900	3880	3554	326	1207	2443
0	93,900	1650	1310	2960	2960	0	6693	2787	9480	26	10.97	245	5	1570	0	1570	71	910	2910	3891	3563	328	1151	2481
0	92,360	1670	1320	2990	2990	0	6785	2805	9570	27	11.00	231	5	1580	0	1580	68	900	2920	3898	3558	330	1176	2470
0	92,390	1660	1330	2990	2990	0	6743	2827	9570	28	10.81	231	5	1570	0	1570	72	870	2890	3832	3499	333	1146	2484
0	89,830	1620	1320	2940	2940	0	7152	2778	9930	29	11.03	231	5	1590	0	1590	73	910	2940	3923	3597	326	1238	2452
0	90,780	1600	1310	2910	2910	0	6866	2774	9640	30	11.12	231	5	1580	0	1580	73	910	2950	3933	3607	326	1202	2488
0	91,230	1600	1300	2900	2900	0	6682	2798	9480	31	11.18	231	5	1560	0	1560	73	880	2950	3903	3574	329	1151	2469
0	92,180	1600	1280	2880	2880	0	6483	2807	9290	AUG. 1	11.22	226	5	1540	0	1540	73	860	2940	3873	3543	330	1095	2477
0	92,390	1570	1190	2760	2760	0	6035	2805	8840	2	11.15	224	5	1540	0	1540	73	870	2930	3873	3543	330	1075	2475
0	93,560	1530	1110	2640	2640	0	6090	2810	8900	3	11.12	220	5	1550	0	1550	73	880	2930	3883	3552	331	1091	2479
0	94,350	1480	1070	2550	2550	0	6070	2830	8900	4	11.10	211	5	1550	0	1550	73	890	2880	3843	3510	333	1033	2497
0	95,810	1420	1080	2500	2500	0	5953	2827	8780	5	11.00	211	5	1510	0	1510	73	850	2820	3743	3410	333	1026	2494
0	96,390	1410	1130	2540	2540	0	5887	2813	8700	6	10.99	211	5	1490	0	1490	73	820	2810	3703	3372	331	1058	2482
0	96,990	1410	1150	2560	2560	0	5328	2842	8670	7	10.91	210	5	1480	0	1480	72	810	2800	3682	3348	334	1032	2501
0	96,990	1440	1160	2600	2600	0	5865	2865	8730	8	10.90	204	5	1460	0	1460	72	820	2810	3702	3365	337	1012	2493
0	96,630	1460	1160	2620	2620	0	5884	2846	8730	9	10.90	204	5	1450	0	1450	72	820	2810	3702	3367	335	1029	2511
0	95,910	1450	1160	2610	2610	0	5938	2842	8780	10	10.98	204	5	1410	0	1410	72	820	2820	3712	3377	339	1033	2507
0	95,180	1440	1160	2600	2600	0	5885	2845	8730	11	10.99	204	5	1380	0	1380	72	800	2820	3692	3357	335	1040	2510
0	93,790	1440	1170	2610	2610	0	5879	2851	8730	12	10.92	204	5	1380	0	1380	71	800	2790	3661	3325	336	1035	2515
0	91,920	1460	1190	2650	2650	0	5965	2845	8810	13	10.92	204	5	1380	0	1380	70	820	2820	3690	3356	335	1031	2512
0	91,230	1470	1200	2670	2670	0	5895	2835	8730	14	10.96	208	5	1380	0	1380	70	830	2800	3700	3367	333	1039	2507
0	90,540	1590	1210	2710	2710	0	5742	2868	8610	15	10.93	207	5	1340	0	1340	68	810	2720	3598	3260	338	980	2530
0	89,800	1550	1220	2770	2770	0	5731	2849	8580	16	10.90	207	5	1330	0	1330	68	810	2700	3578	3242	336	1027	2513
0	89,830	1570	12																					

AL	TWIN FALLS CANAL COMPANY			MILNER LOW LIFT			SNAKE RIVER AT MILNER		
	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL
180	0	3590	3590	255	0	255	9	0	9
000	610	3000	3610	255	0	255	12	0	12
0339	600	3000	3600	255	0	255	20	0	20
400	600	3000	3600	255	0	255	20	0	20
350	947	2633	3580	255	0	255	17	0	17
205	2038	1542	3580	259	0	259	18	0	18
324	1147	2433	3580	261	0	261	16	0	16
253	1719	1991	3610	259	0	259	18	0	18
228	1953	1707	3660	252	0	252	15	0	15
309	1335	2315	3650	249	0	249	16	0	16
319	1217	2393	3610	249	0	249	15	0	15
322	1200	2410	3610	249	0	249	16	0	16
323	1235	2415	3650	249	0	249	16	0	16
323	1230	2420	3650	260	0	260	16	0	16
323	1226	2424	3650	264	0	264	15	0	15
324	1244	2426	3670	264	0	264	15	0	15
323	1242	2418	3660	264	0	264	15	0	15
323	1221	2419	3640	264	0	264	15	0	15
326	1207	2443	3650	264	0	264	16	0	16
328	1181	2459	3640	259	0	259	16	0	16
330	1175	2475	3650	256	0	256	16	0	16
333	1146	2494	3640	256	0	256	15	0	15
326	1238	2452	3690	256	0	256	18	0	18
326	1202	2448	3650	256	0	256	19	0	19
329	1151	2469	3620	240	0	240	28	0	28
330	1093	2477	3570	232	0	232	30	0	30
330	1075	2475	3550	232	0	232	21	0	21
331	1091	2479	3570	228	0	228	20	0	20
333	1033	2497	3530	217	0	217	17	0	17
333	1026	2494	3520	232	0	232	16	0	16
331	1058	2482	3540	235	0	235	15	0	15
334	1032	2508	3540	238	0	238	14	0	14
337	1012	2528	3540	238	0	238	13	0	13
335	1029	2511	3540	238	0	238	13	0	13
335	1033	2507	3540	238	0	238	13	0	13
335	1040	2510	3550	238	0	238	14	0	14
336	1035	2515	3550	234	0	234	13	0	13
335	1030	2510	3540	231	0	231	13	0	13
333	1028	2502	3530	230	0	230	13	0	13
338	980	2530	3510	230	0	230	13	0	13
336	1027	2513	3540	233	0	233	13	0	13
334	1006	2504	3510	240	0	240	14	0	14
336	967	2523	3490	240	0	240	14	0	14
338	965	2535	3500	240	0	240	15	0	15
337	954	2526	3480	240	0	240	13	0	13
338	915	2535	3450	240	0	240	13	0	13

[illegible]

DAILY STORAGE DIVERSIONS—MAIN RIVER

AUGUST

24 HOUR SECOND- FEET EXCEPT AS NOTED

[illegible]

RIVER

1959

37ED

SEPTEMBER

14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	NO.	TOTAL SECOND- FEET	ACRE- FEET	JACKSONLAKE EQUIVALENT ACRE-FEET	AMERICAN FALLS OWNED ACRE-FEET	RIGHT LEASED ACRE-FEET	JACKSONLAKE RIGHT ACRE-FEET	PALISADES RIGHT ACRE-FEET	RENTALS ACRE-FEET	OTHER RIGHTS ACRE-FEET	TOTAL SUPPLY ACRE-FEET	
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	804	1,595	1,701				3,737	400		4,137	
17	18	19	20	21	22	23	24	25	26	27	28	29	30				2	1,600	3,174	3,386	673	113	1,589	1,066		100	3,24	
28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	3	17,878	35,460	37,824	12,485	7,103	7,209	21,798	550	11,100	59,695	
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	4	3,910	7,557	8,061			2,000	7,200		50	8,800	
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	5	7,957	15,782	16,834	8,323	1,651	11,252	12,802	390	10,600	24,218	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	6	133	264	282				291			301	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	7	393	780	832				873			873	
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	8	69	137	146				146			146	
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	9	545	1,081	1,153				250	350	667	1,267	
78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	10	52	63	67					200	364	200	
63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	11	198	392	413					50	315	40,440	
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	12	8,728	17,312	18,466	12,025		11,943	16,077	89	242	242	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	13	114	226	241							242	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	14	5,529	10,966	11,697	2,619	2,080	3,530	10,308	835	3,550	22,332	
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	15	50	99	105				170	25	10	135	
74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	16	15,014	29,780	31,766	9,496	3,770	10,603	22,190	25	42	48,114	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	17	81	161	172				245	130	42	317	
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	18	606	1,202	1,282			1,040	1,127			2,167	
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	19	193	383	408				800		290	800	
74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	20	2,895	5,742	6,125			4,000	4,364			5,654	
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	21	4,913	9,745	10,395	3,868	806	5,234	5,363			10,271	
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	22	2,609	5,176	5,521	2,549	250	1,472	2,670			6,341	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	23	562	1,115	1,188				4,142			5,330	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	24	100	198	211				243			243	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	25	137	272	290				394	600		996	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	26	322	639	682				4,391	24	165	4,380	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	27	670	1,329	1,418				3,366			3,366	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	28	383	760	811	886	57	511	830			2,284	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	29	1,118	2,218	2,366				3,638	100	150	3,888	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	30	1,102	2,185	2,331				4,233			4,233	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	31	133	264	282				940			940	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	32	104	206	219				219			219	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	33	32	64	68					200		200	
94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	34	2,210	4,383	4,675	4,666	9,092	2,695	29,536		1,303	47,292	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	35	5,485	10,890	11,605	13,459	7,413	7,771	10,166			38,808	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	36	124	246	262	19	46	110	364			711	
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	37	75	149	159				41	159		251	
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	38	397	798	810				355	4,397		170	4,921
34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	39	14,920	29,594	31,567	22,91	1,013	13,230	40,790			77,944	
85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	40	21,363	42,373	45,198	25,73	2,596	19,857	24,540	250	3,686	76,660	
350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	41	2,866	4,891	5,217	2,006		2,659	3,621		243	8,329	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	42	0	0	0				109			109	
85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	43	4,643	9,209	9,823	6,047		3,891	4,067			17,605	
350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	44	22,885	45,392	48,418	26,367		30,225	24,438			81,039	
178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	45	920	1,825	1,947				3,146	99	7,032	10,277	
277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	46	154,098	305,652	326,023	155,003	35,990	140,817	275,854	3,908	18,899	630,971	
426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	47	13,800	27,372	29,197				97	32,670		32,667	
926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	48	970	1,924	2,052	12,763	2,008	7,370	4,050			25,191	
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	49	563	1,117	1,192				7,984			9,176	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	50	25,810	51,193	54,606	21,415	4,615	20,365	23,799			101,344	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	51	64,039	127,019	135,487	55,315		74,826	101,600		55	231,115	
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	52	2,039	4,044	4,313	3,396	245	1,961	4,679			10,281	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	53	277	549	586				1,379			1,379	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	54	381	756	806				2,283			2,283	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	55	71	141	150	1,314		758	2,169			2,241	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	56	9	18	19				592			592	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	57	67	133	142				1,854			1,854	
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	58	193	383	409		</						

F

PLATE NO 14

DATED

FEET TOTAL
14 136 FEET
4,137

NOTES

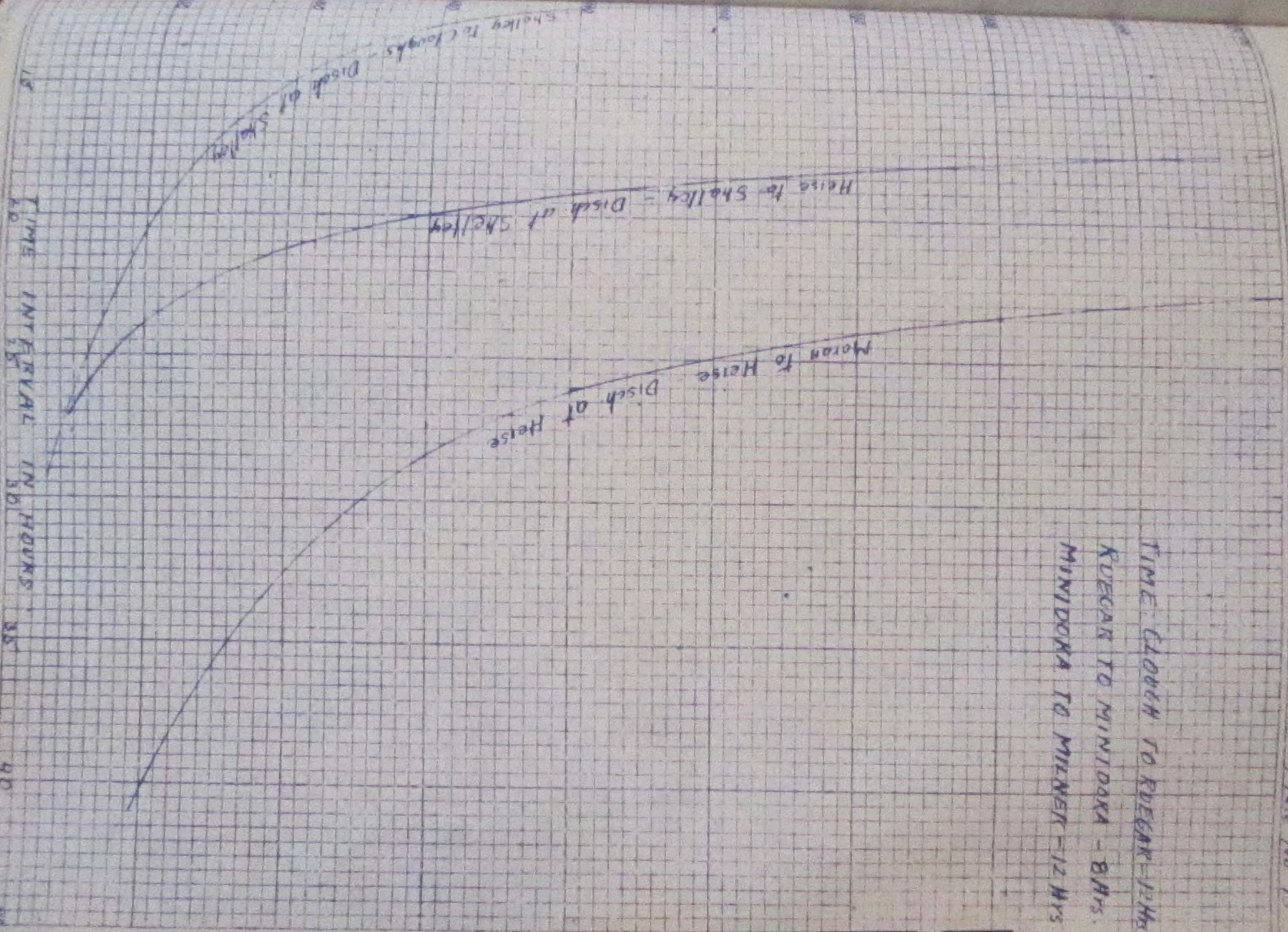
- ① RENTED FROM U.S.
- ② FROM PALISADES WATER USERS, INC.
- ③ 10,600 A.F. TRANSFER FROM ENTERPRISE.
500 A.F. FROM PALISADES WATER USERS, INC.
- ④ TO PROGRESSIVE IRRIGATION DISTRICT
- ⑤ TRANSFER TO AMERICAN FALLS PUMP FROM ABERDEEN
50,880 A.F. ACCRUED TO MICHAUD DIVISION OF FORT
HALL PROJECT. NOT ALLOTTED THIS YEAR
20,013 A.F. TO WYOMING COMPACT SPACE.
869 A.F. FOR CONTINGENCIES
- ⑥
- ⑦ 55 A.F. FROM ABERDEEN PALISADES ALLOTMENTS AS
FOLLOWS: 30,322 A.F. TO CITY OF POCAHELLO;
1,516 A.F. TO SIMPLOT CO.; 3032 A.F. TO
WESTVACO CO.; 1,430 A.F. AMERICAN FALLS REFILL
TO MICHAUD PUMP.
- ⑧ AMERICAN FALLS REFILL
- ⑨ LAKE WALCOTT 93,320 A.F.; 13,400 A.F. AMERICAN
FALLS REFILL; 56,000 A.F. GAIN NEELY TO MILNER

17	3,541
286	59,895
6	9,800
137	24,218
4	291
	873
	146
3	1,267
	200
78	40,440
	242
83	22,952
21	195
22	46,114
2	917
28	2,167
	800
33	8,654
74	15,271
21	6,941
0	4,142
	243
	994
0	4,580
0	3,366
	2,284
	3,688
	4,339
0	940
	219
	200
94	47,292
0	38,808
2	711
11	251
	4,922
201	77,944
34	76,660
	8,529
85	109
350	13,605
	81,030
	10,217
176	143
	630,471
277	32,767
	26,131
426	7,984
826	70,194
42	231,516
	10,281
23	1,374
4	2,283
	4,241
	592
4	1,854
	424
1702	135
	359,731
43	4
1829	84,859
2	643,243
113	1,613
161	107,607
236	78,728
2482	252,228
1250	850,853
313	435,963
	46,380

TIME INTERVAL BETWEEN GAGING STATIONS ON SNAKE RIVER

Plate No. 15

TIME CLOOTH TO RUCAR - 12 HRS.
RUCAR TO MINIDOKA - 8 HRS.
MINIDOKA TO MILNER - 12 HRS.



FALL RIVER CANALS

[illegible]

HENRYS FORK CANALS

DEWEY	22	31	25	24	30	24	24	37	24	38	25	26	23	25	27	28	30	26	23	22	22	21	22	24	25	27	20	10	0	0	705
LAST CHANCE	82	115	141	157	210	199	196	196	196	196	207	224	231	224	218	174	131	164	196	203	210	154	154	154	148	142	142	142	142	45	8,093
CROSS CUT	150	143	136	115	97	100	105	112	136	74	65	68	50	40	38	45	53	40	31	30	30	27	30	32	50	39	60	70	79	19	2,144
ST ANTHONY UNION	464	482	501	524	548	510	510	510	510	510	517	524	526	528	529	499	508	499	495	504	486	468	468	459	448	438	429	420	411	373	14,598
FARMERS FRIEND	149	152	158	160	187	209	242	247	197	193	193	181	168	168	163	159	53	97	146	176	174	148	156	149	141	152	115	66	75	59	4,633
TWIN GROVES	142	152	152	154	154	175	182	192	196	199	196	188	190	169	164	162	138	140	148	148	145	158	158	152	158	156	138	136	136	109	4,787
SALEM UNION	221	263	299	296	322	322	327	302	308	250	246	243	270	248	225	206	186	191	225	202	180	242	216	239	229	239	142	142	112	111	7,004
TOTAL ASHTON TO ST ANTHONY	1230	1338	1412	1430	1548	1539	1586	1596	1567	1460	1449	1454	1458	1402	1364	1273	1099	1157	1264	1285	1247	1218	1204	1209	1199	1213	1046	986	955	376	38,964
EGIN	312	333	350	379	383	366	350	333	333	333	333	333	324	316	308	284	280	296	312	303	294	286	282	254	254	254	204	223	242	133	8,987
ST ANTHONY UNION FEEDER	72	76	81	81	81	82	84	85	86	88	84	82	82	80	78	56	35	70	52	70	58	46	76	67	66	66	57	48	38	48	2,075
INDEPENDENT	344	388	401	423	432	460	442	446	370	359	342	342	372	376	381	283	274	333	324	329	328	327	319	323	294	266	261	257	252	222	10,270
CONSOLIDATED FARMERS	234	276	279	296	313	307	301	295	260	226	228	230	231	233	234	235	236	237	238	238	239	239	238	238	232	226	189	152	114	114	7,108
TOTAL ST ANTHONY TO REXBURG	962	1073	1111	1179	1209	1215	1177	1159	1047	1006	987	987	1009	1005	1001	858	825	936	926	940	919	898	915	882	846	812	711	680	646	517	28,440

TETON RIVER CANALS

SIDDOWAY	19	20	23	18	20	19	22	23	22	22	20	18	23	27	23	23	16	19	20	19	19	22	26	25	21	18	21	14	13	12		607	
WILFORD	86	101	125	145	172	187	196	197	203	218	207	201	222	209	199	187	189	197	201	201	189	164	185	181	163	145	65	0	0	14		4749	
TETON IRRIGATION	87	87	101	88	86	101	99	78	89	85	84	98	119	122	111	112	114	114	106	113	113	109	112	119	119	122	123	121	106	121		3159	
GOOD LUCK	0	0	25	25	36	46	38	31	24	24	25	25	25	26	27	28	34	41	35	29	29	29	29	29	29	17	5	10	14	18		755	
PIONEER	16	23	12	1	4	8	7	6	5	5	5	4	2	2	2	2	6	11	16	20	22	25	27	28	28	15	2	2	2	2		310	
STEWART	10	21	32	43	35	27	30	33	36	36	35	42	50	49	49	48	45	42	44	45	48	51	54	52	50	28	6	5	5	4		1055	
PINCOCK-BYINGTON	12	7	12	17	22	28	29	30	31	28	26	25	24	24	25	25	25	25	24	24	22	20	18	19	19	24	26	23	21	18		673	
PINCOCK-GARNER	17	18	24	31	31	31	30	29	28	28	27	34	40	42	44	46	45	44	42	40	40	40	39	36	32	40	48	42	36	30		1054	
GARDNER	0	0	0	0	3	8	8	7	7	6	5	6	7	7	6	6	6	7	8	10	8	6	5	6	8	8	8	8	9	9		182	
TETON ISLAND FEEDER	308	277	296	424	478	541	531	541	510	506	501	459	501	514	526	539	529	522	501	501	501	501	501	497	501	530	560	510	460	415		1448	
NORTH SALEM	10	10	11	11	11	26	21	13	13	13	13	12	12	18	24	20	17	19	21	16	12	16	19	11	12	12	12	13	13	12		443	
ROXANA	8	6	6	7	19	31	27	23	19	20	20	17	14	14	15	15	14	13	10	7	8	8	9	12	16	21	26	20	15	0		440	
ISLAND WARD	0	0	34	1	25	51	50	49	48	48	47	48	48	51	54	56	49	42	43	44	41	38	35	34	31	22	12	12	13	13		1032	
WOODMANSEE-JOHNSON	4	4	9	8	9	14	17	21	12	13	14	17	20	19	20	24	24	24	17	13	14	14	15	15	15	24	32	31	31	30		520	
EAMES-THOMPSON	10	0	10	10	10	10	5	0	0	0	0	5	10	5	0	0	0	5	5	5	5	5	5	5	6	6	3	0	0	0	0		120
MC CORMICK-ROWE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	8	8	8	8	14	20	26	26	27	27	27	27	26	26		292
CITY OF REXBURG	18	20	20	24	24	23	24	24	24	23	23	24	25	24	23	23	26	28	23	25	26	26	27	29	29	28	28	26	17	8		712	
REXBURG IRRIGATION	193	234	229	261	248	259	254	233	250	226	245	211	250	244	246	222	253	228	222	220	223	228	220	210	205	202	164	104	95	73		6452	
SAURY-SOMMERS	28	27	21	15	21	27	21	15	10	12	14	14	15	14	14	13	20	28	28	29	28	28	27	19	11	12	14	13	12	11		561	
TOTAL TETON RIVER	826	855	990	1129	1254	1437	1409	1353	1331	1313	1311	1260	1407	1407	1415	1396	1400	1411	1374	1369	1361	1350	1379	1354	1322	1298	1179	981	888	836		37698	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
FALL RIVER CANALS																															

[illegible]

HENRYS FORK CANALS

DEWEY	27	27	22	26	23	22	22	20	32	37	41	39	41	34	37	40	42	36	33	9	1	1	1	1	1	14	14	15	14	13	14	699
LAST CHANCE	66	66	66	94	94	94	94	131	162	162	185	179	126	103	103	103	81	13	88	88	88	88	88	88	88	79	88	87	80	80	80	3,032
CROSS CUT	30	33	28	31	26	8	5	17	10	100	247	453	510	522	517	498	532	525	529	496	534	537	541	536	533	533	538	525	523	530	538	10,985
ST ANTHONY UNION	335	351	377	377	387	447	472	453	489	522	529	535	508	443	464	470	460	487	485	495	501	501	499	497	470	468	466	466	464	491	489	14,398
FARMERS FRIEND	45	46	59	66	70	90	126	140	150	181	225	175	168	160	117	34	51	66	81	78	78	78	78	78	96	69	57	56	57	66	78	2,919
TWIN GROVES	106	103	98	100	98	106	121	125	141	156	154	145	152	147	145	145	150	150	150	147	147	145	146	146	141	144	148	146	146	144	109	4,201
SALEM UNION	110	106	106	106	164	164	207	194	252	266	302	250	244	244	205	205	199	202	229	263	263	261	264	224	224	221	220	220	220	217	217	6,569
TOTAL ASHTON TO ST. ANTHONY	719	732	756	800	862	931	1047	1080	1236	1424	1683	1776	1749	1653	1588	1495	1515	1479	1595	1576	1612	1611	1617	1570	1553	1528	1531	1515	1504	1541	1525	42,803
EGIN	135	180	244	244	236	276	288	276	292	288	312	316	268	272	284	300	322	318	322	352	339	339	429	404	396	370	358	370	324	337	358	9,549
ST. ANTHONY UNION FEEDER	30	40	48	51	50	47	44	50	49	72	72	70	68	55	56	56	56	54	54	56	52	54	127	129	120	126	126	125	126	125	95	2,283
INDEPENDENT	155	180	224	248	238	262	272	252	228	310	344	369	323	314	314	310	323	348	340	340	344	335	254	181	181	185	185	185	185	185	212	8,126
CONSOLIDATED FARMERS	113	113	110	109	108	220	218	114	72	117	265	262	274	268	220	214	237	230	226	183	183	47	0	189	230	230	230	233	234	233	226	5,710
TOTAL ST. ANTHONY TO REXBURG	433	513	626	652	632	805	822	692	641	787	993	1017	933	909	874	880	940	950	942	931	918	775	810	903	927	911	899	913	869	880	891	25,668

TETON RIVER CANALS

SIDDOWAY	12	16	19	19	18	18	18	18	18	20	22	25	22	26	22	24	22	22	21	21	23	24	24	20	20	26	25	24	19	20	20	648
WILFORD	0	0	1	28	54	102	103	129	133	150	160	161	171	170	170	153	153	152	152	80	98	101	105	106	107	114	103	103	106	96	102	3,363
TETON IRRIGATION	91	108	10	46	46	68	74	81	105	94	97	97	98	89	106	90	93	90	100	100	106	101	99	99	107	113	110	121	126	125	124	2,914
GOOD LUCK	18	22	25	25	25	25	32	39	37	27	3	41	45	33	26	17	17	17	17	17	16	16	16	21	16	16	16	16	17	17	17	697
PIONEER	0	0	0	0	1	1	6	12	18	0	18	17	18	17	16	20	16	15	15	13	13	11	14	15	0	9	9	10	9	10	10	313
STEWART	4	8	11	9	6	4	14	23	34	33	39	38	42	42	19	19	19	19	19	19	19	20	20	7	22	26	21	21	21	18	18	634
PINCOCK-BYINGTON	16	16	15	14	12	10	9	8	5	10	10	12	13	16	12	7	7	7	6	6	6	10	10	10	10	9	9	9	12	12	11	319
PINCOCK-GARNER	28	27	26	25	25	24	24	24	22	19	26	29	30	32	22	33	22	24	20	19	17	17	19	19	18	16	19	20	18	19	16	699
GARDNER	7	6	6	5	5	4	4	3	2	1	2	2	2	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
TETON ISLAND FEEDER	405	397	389	384	378	373	362	351	288	333	381	357	391	410	399	411	401	405	383	379	399	397	393	391	387	343	337	341	335	350	331	11,561
NORTH SALEM	12	10	7	6	4	3	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
ROXANA	7	7	7	7	6	6	8	11	25	32	35	33	37	40	37	33	31	27	27	29	27	27	0	34	26	24	21	19	20	18	16	677
ISLAND WARD	12	11	11	13	17	20	22	24	16	16	20	20	21	22	24	20	20	27	23	29	44	44	51	46	27	32	32	28	23	21	25	761
WOODMANSEE-JOHNSON	30	18	7	8	10	12	12	13	15	14	14	17	12	12	16	11	6	5	23	21	20	26	27	30	30	22	26	28	9	34	33	561
EAMES-THOMPSON	0	0	0	0	0	0	0	0	0	0	3	3	3	0	0	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	45
MC CORMICK-ROWE	24	24	23	22	20	19	18	17	13	10	12	12	14	14	9	9	9	9	4	4	5	5	4	4	4	4	4	4	4	4	4	382
CITY OF REXBURG	0	0	0	0	8	16	16	15	17	15	17	23	22	29	32	33	24	24	24	28	27	29	31	31	37	28	30	22	32	16	17	643
REXBURG IRRIGATION	140	135	135	133	131	129	124	119	201	158	190	185	211	234	223	251	234	224	212	224	221	232	208	208	215	168	186	163	158	146	161	5,659
SAURY-SOMMERS	6	5	4	3	3	2	3	4	4	1	1	7	10	14	15	14	9	12	8	9	7	7	8	10	7	7	7	10	10	9	9	225
TOTAL TETON RIVER	812	810	696	747	767	836	853	876	953	933	1050	1079	1162	1202	1150	1150	1087	1082	1057	1001	1051	1070	1032	1054	1036	960	958	939	919	895	914	30,153

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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YELLOWSTONE	10	12	12	12	13	13	13	13	13	13	13	13	14	14	13	10	9	10	11	12	12	11	12	11	7	7	7	7	9	12	8	538	
MARYSVILLE	275	265	265	265	264	251	243	239	239	239	239	0	0	236	231	233	231	231	215	200	200	188	157	115	118	131	131	131	131	131	131	5716	
TOTAL ABOVE SQUIRREL	285	277	277	277	273	264	256	252	252	252	252	13	14	247	244	243	240	241	226	212	212	197	167	122	122	138	138	138	140	143	136	6298	
FARMERS OWN	96	93	93	93	93	94	94	92	85	85	77	79	78	75	69	68	68	65	71	68	62	57	57	57	57	52	48	47	47	47	47	2706	
ALMY	7	5	5	5	5	4	4	4	2	3	3	3	4	0	0	0	0	0	0	0	0	0	1	0	2	3	3	3	2	0	0	0	68
ENTERPRISE	153	153	0	0	115	154	156	155	144	155	153	160	157	151	134	139	139	132	132	137	136	132	132	117	119	119	96	106	110	110	110	3906	
BELL	9	9	10	10	9	9	9	9	8	8	8	9	9	8	8	8	8	7	8	8	8	4	4	5	5	6	5	5	5	5	5	228	
FALL RIVER	205	198	209	209	198	205	206	202	202	194	194	193	178	167	167	176	176	180	167	173	173	169	180	187	202	205	205	202	203	203	203	5935	
MC BEE	3	3	3	3	2	2	2	2	3	3	3	3	3	2	2	2	1	1	2	2	2	3	3	3	3	3	3	3	3	3	3	79	
CHESTER	25	23	44	31	22	26	26	30	30	25	22	24	14	12	16	15	15	2	1	3	3	6	6	1	0	1	1	1	1	1	0	421	
SILKEY	11	12	15	15	12	10	12	10	12	12	13	11	10	9	8	11	10	11	12	9	10	9	9	9	9	8	8	8	8	8	8	319	
CURR	51	52	59	59	53	51	50	34	36	40	47	59	59	49	32	32	29	32	33	34	33	33	33	33	33	33	33	33	33	33	33	1256	
TOTAL SQUIRREL TO CHESTER	560	548	438	425	509	555	559	538	522	525	522	541	512	473	436	451	446	430	428	434	427	414	424	414	426	426	402	408	410	410	409	14472	

HENRYS FORK CANALS

TETON RIVER CANALS

SIDDOWAY	21	18	19	18	20	20	22	24	20	19	20	21	20	19	18	16	16	16	15	14	13	14	14	12	11	12	10	10	10	8	8	498	
WILFORD	105	105	103	97	100	99	100	99	101	92	86	85	82	79	68	68	68	71	80	84	53	66	59	63	62	61	61	58	51	53	57	2,416	
TETON IRRIGATION	121	124	111	109	113	105	103	105	103	98	99	100	92	84	83	85	78	78	83	98	89	76	77	74	74	71	69	71	83	80	80	2,816	
GOOD LUCK	16	18	17	14	13	15	15	16	16	16	14	14	14	14	14	15	15	0	15	15	16	15	3	3	1	19	19	2	1	2	1	375	
PIONEER	10	12	14	12	14	13	14	18	17	13	4	19	14	13	0	0	13	2	2	2	3	0	0	0	0	0	0	0	0	11	0	0	220
STEWART	22	15	15	21	18	17	18	12	12	12	13	23	23	22	20	17	16	16	16	17	17	17	17	22	12	13	12	12	12	12	12	503	
PINCOCK-BYINGTON	12	14	14	15	11	9	7	10	9	9	9	10	10	8	9	8	6	5	6	6	7	7	7	6	6	5	5	5	9	4	4	252	
PINCOCK-GARNER	19	19	19	0	15	12	13	14	11	9	9	9	9	9	12	12	10	10	10	10	10	10	10	10	10	12	10	9	13	12	10	10	541
GARDNER	0	0	0	1	0	2	1	2	1	1	2	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0	29
TETON ISLAND FEEDER	321	343	341	355	323	300	311	323	315	323	323	323	315	311	315	311	304	319	296	288	284	277	247	247	241	218	222	220	220	213	213	213	8,746
NORTH SALEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ROXANA	19	15	10	16	15	14	16	21	19	18	23	16	15	14	11	13	14	14	14	14	16	16	12	12	12	11	11	11	12	11	14	449	
ISLAND WARD	37	23	10	6	12	11	11	37	38	42	39	25	27	25	14	5	3	2	2	2	0	2	2	3	2	2	14	27	26	25	23	503	
WOODMANSEE-JOHNSON	36	38	38	43	34	24	23	29	28	19	24	22	15	2	9	2	4	12	5	1	3	15	14	12	8	21	18	20	13	19	8	559	
EAMES-THOMPSON	0	0	0	0	3	0	0	0	0	0	3	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
MC CORMICK-ROWE	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	41
CITY OF REXBURG	11	17	23	18	31	17	20	22	20	19	20	18	15	19	19	20	23	21	31	31	24	25	25	25	10	13	13	16	18	15	14	612	
REXBURG IRRIGATION	181	151	155	144	138	125	131	157	152	153	154	145	122	135	123	118	118	111	102	100	101	98	97	97	97	94	94	92	89	80	83	3,731	
SAURY-SOMMERS	6	15	18	12	10	2	4	5	2	7	11	12	12	11	11	12	13	14	16	15	2	2	2	2	1	1	2	2	1	1	1	225	
TOTAL TETON RIVER	953	931	917	885	874	787	811	896	866	852	855	845	791	771	729	705	704	692	694	697	639	641	587	589	527	556	558	559	562	541	539	22,553	

FALL RIVER CANALS

YELLOWSTONE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
MARYSVILLE	108	108	114	122	122	122	122	105	105	105	105	105	86	86	86	86	86	86	66	66	66	40	40	40	40	40	40	40	40	40	136
TOTAL ABOVE SQUIRREL	115	115	121	129	128	128	128	107	110	110	110	110	91	88	88	89	89	89	69	69	69	43	44	44	44	44	44	44	44	44	2,550
FARMERS OWN	45	42	41	40	40	31	31	36	32	31	29	29	29	29	29	28	26	26	26	26	26	26	26	26	26	26	26	26	26	26	918
ARMY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENTERPRISE	113	115	109	111	110	115	115	115	111	144	148	148	148	150	139	139	139	152	154	136	139	143	139	134	106	78	80	82	80	78	19
BELL	5	5	5	5	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	3,670
FALL RIVER	203	203	225	225	229	228	229	229	229	150	151	169	169	205	205	207	196	193	196	196	189	160	157	157	157	157	157	157	157	157	177
MC BEE	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0
CHESTER	0	1	1	1	1	1	2	2	2	5	16	15	15	15	15	15	15	15	15	11	17	18	17	17	17	17	17	28	39	35	44
SILKEY	7	7	7	7	7	7	7	10	10	12	12	12	12	8	8	8	8	8	5	5	5	5	5	5	5	5	5	5	5	5	44
CURR	33	33	33	33	32	32	32	32	32	33	33	33	33	32	32	32	32	32	32	32	33	33	36	10	9	9	9	9	9	9	169
TOTAL SQUIRREL TO CHESTER	409	409	423	424	425	427	429	431	423	382	376	413	413	447	436	437	424	431	436	423	419	391	357	351	323	296	309	323	315	307	731
																															11,829

HENRYS FORK CANALS

DEWEY	32	33	32	11	11	11	14	13	14	14	14	14	13	13	14	10	6	1	0	0	0	0	0	0	0	0	0	0	0	0	270
LAST CHANCE	50	50	49	49	39	39	38	38	38	38	55	55	56	55	55	55	53	51	51	51	51	51	55	55	46	37	34	32	31	30	1,387
CROSS CUT	109	110	180	182	125	214	212	249	302	351	453	428	430	443	451	444	441	381	378	344	321	243	106	78	96	92	6	4	4	3	3,200
ST. ANTHONY UNION	361	393	413	409	413	381	367	359	363	363	361	365	369	369	367	359	254	248	248	254	248	237	264	264	264	264	264	264	264	264	9,613
FARMERS FRIEND	17	17	17	18	18	18	18	11	18	32	32	28	26	26	30	29	28	20	20	20	20	12	12	12	36	60	62	63	62	60	848
TWIN GROVES	25	25	34	45	45	46	46	46	40	40	41	41	41	41	46	26	28	28	28	28	25	82	102	102	82	63	64	65	64	63	1,410
SALEM UNION	120	120	119	116	115	117	119	158	170	137	135	133	135	136	136	133	130	130	130	130	134	118	114	114	96	77	78	79	78	77	5,584
TOTAL ASHTON TO ST. ANTHONY	714	748	844	830	766	826	814	880	945	975	1031	1070	1076	1089	1077	1056	940	853	855	827	799	743	653	645	620	593	508	507	503	497	24,372
EGIN	268	256	264	280	296	296	324	272	252	250	242	211	215	182	182	175	122	126	126	132	128	100	95	98	88	78	86	95	90	85	5,414
ST. ANTHONY UNION FEEDER	82	80	79	78	76	80	79	86	84	81	82	80	80	78	78	74	66	64	64	71	58	58	58	58	58	58	54	51	50	50	2,075
INDEPENDENT	189	189	187	187	181	164	162	152	152	152	152	152	152	112	112	88	88	85	85	88	94	80	91	91	82	73	74	75	70	65	3,624
CONSOLIDATED FARMERS	138	138	136	132	135	135	135	135	145	182	188	188	154	150	150	147	44	44	44	44	42	71	71	71	70	69	70	71	70	68	3,237
TOTAL ST. ANTHONY TO REXBURG	677	663	666	677	688	675	700	645	633	665	664	631	601	522	522	484	329	319	319	335	322	309	315	318	298	278	284	292	280	268	14,370

TETON RIVER CANALS

SIDDOWAY	7	6	8	8	8	7	9	9	10	8	9	8	8	8	8	6	8	8	8	8	7	4	4	4	3	2	2	2	2	2	191
WILFORD	56	52	54	52	52	66	68	73	73	81	67	86	90	86	86	88	2	0	0	0	0	0	0	0	0	2	2	2	2	2	1,142
TETON IRRIGATION	90	87	73	79	71	69	69	68	72	77	74	81	73	66	61	61	64	63	63	65	71	60	56	52	52	51	50	49	49	49	1,965
GOOD LUCK	0	5	3	3	3	22	10	10	12	16	14	11	11	13	11	11	11	11	11	11	11	6	2	1	0	0	0	0	0	0	228
PIONEER	12	10	0	0	0	9	9	9	9	10	10	13	13	0	0	12	13	0	0	0	0	0	5	10	5	0	0	0	0	0	149
STEWART	11	11	19	19	8	8	8	14	14	15	14	16	15	16	16	16	16	16	9	9	9	9	9	9	9	9	8	8	8	8	356
PINCOCK - BYINGTON	5	5	6	5	4	4	5	5	5	5	5	6	5	6	5	5	5	8	7	7	6	9	8	7	5	3	3	3	3	3	158
PINCOCK - GARNER	9	9	9	8	8	8	7	7	6	8	8	6	6	7	7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	188
GARDNER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TETON ISLAND FEEDER	252	241	264	262	252	264	260	262	258	273	265	271	275	279	245	236	240	240	238	242	245	236	234	227	227	227	229	231	231	231	1,435
NORTH SALEM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROXANA	10	10	10	10	9	9	12	14	14	15	16	17	18	18	21	20	21	20	18	18	27	27	23	19	20	21	20	20	20	20	517
ISLAND WARD	24	21	16	0	6	3	7	13	17	23	25	27	30	33	42	43	53	51	50	35	48	1	0	0	0	0	0	0	0	0	568
WOODMANSEE - JOHNSON	11	11	12	12	15	17	13	11	10	11	10	6	1	1	2	1	2	2	2	2	1	1	1	1	1	0	0	0	0	0	157
EAMES - THOMPSON	0	0	0	3	2	0	0	0	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
MC CORMICK - ROWE	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
CITY OF REXBURG	5	5	21	18	20	19	16	15	15	8	15	11	14	14	12	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	289
REXBURG IRRIGATION	95	102	105	113	113	121	123	107	115	116	128	141	154	190	206	178	159	127	120	111	114	87	80	74	71	68	70	72	72	72	3,404
SAURY - SOMMERS	2	2	2	2	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
TOTAL TETON RIVER	590	576	603	595	572	627	617	618	635	670	665	704	716	737	722	688	605	560	537	519	553	458	436	415	404	393	394	397	397	397	16,800

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HENRYS LAKE CONTENTS ACRE-FEET	HENRYS FORK NEAR LAKE			STORED LOSS LAKE TO ISLAND PARK	STORED DIVERSION ABOVE ISLAND PARK	F.M. DIST. SHERIDAN CREEK RIGHT	STORED INFLOW TO ISLAND PARK RESERVOIR	DATE	ISLAND PARK RESERVOIR CONTENTS ACRE-FEET	HENRYS FORK NEAR ISLAND PARK			ISLAND PARK TO ASHTON STORED LOSS	STORED DIVERSION	DATE	HENRYS FORK NEAR ASHTON			GRASSY LAKE STORAGE RELEASE (1)	375 OVER ASHTON STAN
	STORED	NORMAL	TOTAL							STORED	NORMAL	TOTAL				STORED	NORMAL	TOTAL		
	0	47	47	0		12	12	JULY 8	133,510	216	600	816	5							
	0	45	45	0		12	12	9	132,710	520	590	1,210	16		JULY 9	211	1319	1530		
	0	40	40	0		12	12	10	131,195	1450	580	2030	36	4	10	504	1376	1880		
	0	44	44	0		12	12	11	128,360	1610	570	2180	40	4	11	1410	1390	2800		
74,200	52	40	92	2		12	62	12	124,935	1650	560	2210	41	4	12	1556	1344	2910	0	
	104	40	144	4	0	12	112	13	121,195	1540	550	2090	38	4	13	1605	1345	2950	30	
	104	40	144	4	5	12	107	14	118,935	1510	540	2050	38	4	14	1498	1182	2680	30	
	104	40	144	4	5	12	107	15	116,410	1490	530	2020	37	4	15	1466	1312	2780	50	
	104	40	144	4	5	12	107	16	113,185	1360	520	1880	34	4	16	1449	1211	2660	50	
	109	35	144	4	5	12	112	17	111,090	1280	520	1800	32	4	17	1322	1148	2470	50	
	107	35	142	4	5	12	110	18	108,375	1320	520	1840	33	4	18	1244	1198	2440	50	
	105	35	140	4	5	12	108	19	106,125	1360	520	1880	34	4	19	1283	1327	2610	90	
	105	35	140	4	5	12	108	20	103,625	1410	520	1930	35	4	20	1322	1308	2630	110	
	105	35	140	4	5	12	108	21	101,100	1450	520	1970	36	4	21	1371	1309	2680	110	
	110	30	140	4	5	10	111	22	98,475	1460	520	1980	37	4	22	1410	1330	2740	110	
	110	30	140	4	10	10	106	23	95,825	1450	520	1970	36	4	23	1419	1361	2780	140	
70,600	119	25	144	5	10	10	114	24	93,160	1450	520	1970	36	4	24	1410	1290	2700	150	
	119	25	144	5	10	10	114	25	90,540	1410	520	1930	35	4	25	1410	1270	2680	150	
	119	25	144	5	10	10	114	26	88,555	1330	530	1860	33	4	26	1371	1299	2630	150	
	119	25	144	5	10	10	114	27	85,625	1320	530	1850	33	4	27	1293	1367	2660	150	
	117	25	142	5	10	10	112	28	83,160	1310	530	1840	33	4	28	1283	1377	2660	150	
	117	25	142	5	10	10	112	29	80,780	1310	530	1840	33	4	29	1273	1387	2660	150	
	114	24	138	5	10	10	109	30	78,345	1290	530	1820	32	4	30	1273	1297	2370	150	
	115	23	138	5	10	10	110	31	76,080	1290	530	1820	32	4	31	1254	1336	2590	150	
	114	22	136	5	10	10	109	AUG 1	73,750	1290	530	1820	32	5	AUG. 1	1254	1406	2660	150	
	115	21	136	5	20	10	100	2	71,485	1280	530	1810	32	5	2	1253	1357	2610	150	
	115	21	136	5	20	10	100	3	69,180	1190	530	1720	30	5	3	1243	1327	2570	150	
	116	20	136	5	20	10	101	4	67,390	1070	530	1600	27	5	4	1155	1125	2280	150	
	160	20	180	6	20	10	144	5	65,405	1060	530	1590	26	5	5	1038	1202	2240	150	
	195	20	215	8	20	10	177	6	63,565	1050	540	1590	26	5	6	1029	1211	2240	150	
	193	20	213	8	20	10	175	7	62,055	1040	540	1580	26	5	7	1019	1261	2280	190	
	190	20	210	8	20	10	172	8	60,265	1040	540	1580	26	5	8	1009	1131	2140	130	
	190	20	210	8	20	10	172	9	58,560	1030	540	1570	26	5	9	999	1151	2180	130	
	188	20	208	8	20	10	170	10	56,905	1020	540	1560	26	5	10	989	1201	2200	130	
63,900	190	20	210	8	20	10	172	11	55,215	1000	540	1540	25	5	11	989	1191	2180	130	
	186	20	206	7	20	10	169	12	53,055	990	540	1530	25	5	12	970	1170	2140	130	
	186	20	206	7	20	10	169	13	52,050	1020	540	1560	26	5	13	980	1180	2140	130	
	186	20	206	7	20	10	169	14	50,270	950	540	1490	24	5	14	989	1151	2140	130	
	184	20	204	7	20	10	167	15	48,840	900	540	1440	23	5	15	921	1119	2040	110	
	182	20	202	7	20	10	165	16	47,455	880	540	1420	22	5	16	872	1059	1940	94	
	182	20	202	7	20	10	165	17	46,110	810	540	1350	20	5	17	853	1227	2080	73	
	182	20	202	7	20	10	165	18	44,905	480	700	1180	12	5	18	785	1295	2080	70	
															19	463	1417	1880	70	

RYS FORK - DAILY SEGREGATION OF FLOW 1959

24 HOUR SECOND- FEET EXCEPT AS NOTED

STATION TO ANTHONY	HENRYS FORK AT ST. ANTHONY			STORED DIVERSIONS ST. ANTHONY TO REXBURG		DATE	HENRYS FORK NEAR REXBURG		
	STORED	NORMAL	TOTAL	HENRYS FORK	TETON RIVER		STORED	NORMAL	TOTAL
	211	505	716			JULY 10	211	515	726
248	356	504	860		20	11	336	374	710
383	1027	333	1360	22	91	12	914	176	1090
294	1272	148	1420	32	101	13	1139	101	1240
261	1374	116	1490	19	132	14	1223	-33	1190
269	1279	-29	1250	13	137	15	1129	-39	1090
391	1127	223	1350	0	136	16	991	239	1230
835	664	716	1380		405	17	259	851	1110
807	565	645	1210		342	18	223	739	962
796	498	652	1150		329	19	169	757	926
883	490	670	1160		279	20	211	787	998
648	564	606	1190	0	219	21	365	633	998
833	648	542	1190	344	264	22	40	1050	1090
810	710	490	1200	335	281	23	94	1136	1230
829	730	520	1250	283	312	24	135	1025	1160
813	747	503	1250	185	323	25	239	871	1110
837	723	467	1190	212	309	26	202	888	1090
809	712	478	1190	216	220	27	276	794	1070
834	609	561	1170	216	225	28	168	892	1060
835	596	572	1170	219	186	29	193	867	1060
821	602	548	1150	219	189	30	194	856	1050
988	435	645	1080	338	165	31	-68	1030	962
953	451	659	1110	358	203	AUG. 1	-110	1110	1000
1026	378	782	1160	432	300	2	-354	1564	1210
929	474	746	1220	371	230	3	-127	1587	1460
806	587	733	1320	284	211	4	92	1298	1390
632	673	497	1170	203	181	5	289	881	1170
685	503	737	1240	317	179	6	7	1113	1120
783	396	664	1060	326	152	7	-82	1050	968
800	359	651	1010	292	151	8	-84	992	908
966	173	737	910	340	202	9	-369	1205	836
1094	45	918	963	366	167	10	-488	1396	908
1086	43	967	1010	405	152	11	-514	1446	932
1083	56	1044	1080	390	151	12	-505	1585	1080
816	284	926	1210	415	134	13	-265	1455	1190
701	389	851	1240	393	121	14	-125	1365	1240
935	184	1006	1190	346	115	15	-278	1458	1160
900	131	969	1100	343	85	16	-297	1417	1120
888	78	952	1030	330	71	17	-323	1373	1050
918	8	1092	1100	345	63	18	-400	1540	1140
870	-15	1215	1200	358	57	19	-430	1610	1180
656	-32	1463	1140	353	70	20	-746	2026	1280

DATE	HENRYS LAKE CONTENTS ACRE-Feet	HENRYS FORK NEAR LAKE			STORED LOSS LAKE TO ISLAND PARK	STORED DIVERSION ABOVE ISLAND PARK	FM DIST SHERIDAN CREEK RIGHT	STORED IN LOW FLOOD RESERVOIR
		STORED	NORMAL	TOTAL				
AUG 18		120	80	200	5	20	12	07
19	62,500	117	80	197	5	20	12	08
20		117	80	197	5	20	12	09
21		127	70	197	5	20	12	10
22		128	70	198	5	20	12	11
23		125	70	195	5	20	12	12
24		125	70	195	5	20	12	13
25		81	65	146	3	20	12	14
26		43	60	103	2	20	12	15
27		43	60	103	2	20	12	16
28		43	60	103	2	20	12	17
29		49	55	103	2	20	12	18
30		48	55	103	2	20	12	19
31		48	55	103	2	20	12	20
SEPT 1		51	50	101	2	20	12	21
2		-3	50	47	0	20	12	22
3		-27	50	23	-1	15	12	23
4		-46	50	4	-2	15	12	24
5		-46	50	4	-2	15	12	25
6		-44	50	6	-2	15	12	26
7		-44	50	6	-2	10	12	27
8		-44	50	6	-2	10	12	28
9		-44	50	6	-2	10	12	29
10		-44	50	6	-2	5	12	30
11	60,800	-45	50	5	-2	5	12	31
12		-46	50	4	-2	5	12	32
13		-46	50	4	-2	0	12	33
14		-46	50	4	-2		12	34
15		-46	50	4	-2		12	35
16		-51	55	4	-2		12	36
17		-51	55	4	-2		12	37
18		-51	55	4	-2		12	38
19		-51	55	4	-2		12	39
20		-51	55	4	-2		12	40
21		-51	55	4	-2		12	41
TOTAL		5,596			224	910	868	135

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STORED DIVERSION ASHTON ST. ANTHONY	STORED INFLOW TO ISLAND PARK RESERVOIR	DATE	ISLAND PARK RESERVOIR CONTENTS ACRE-FOOT	HENRYS FORK NEAR 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	NORMAL	TOTAL	STORED LOSS	STORED DIVERSION		STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL
	107	AUG 19	44,265	300	750	1090	8	5									
24	104	20	43,895	150	890	1030	4	5	AUG 20	287	1543	1830	70	751	-394	1554	1190
38	104	21	43,795	252	740	992	6	5	21	141	1629	1770	0	720	-579	1899	1320
29	114	22	43,500	272	720	992	7	5	22	241	1459	1700		678	-434	1654	1220
26	112	23	43,140	282	710	992	7	5	23	260	1440	1700		627	-367	1617	1250
26	112	24	42,815	282	710	992	7	5	24	270	1430	1700		561	-291	1571	1280
39	112	25	42,460	276	710	986	7	5	25	270	1430	1700		561	-291	1591	1300
83	70	26	42,175	280	700	980	7	5	26	264	1456	1720		574	-310	1600	1290
80	33	27	41,635	290	690	980	7	5	27	268	1452	1720		375	-107	1467	1360
79	33	28	41,205	350	680	1030	9	5	28	278	1452	1730		403	-125	1475	1350
86	33	29	40,405	480	670	1150	12	5	29	336	1524	1860		599	-263	1643	1380
84	39	30	39,495	490	660	1150	12	5	30	463	1497	1960		605	-142	1802	1460
83	38	31	38,620	480	650	1130	12	5	31	473	1427	1900		592	-119	1579	1460
81	38	SEPT. 1	37,815	470	660	1130	12	5	SEPT 1	453	1457	1920		547	-84	1544	1460
82	41	2	36,945	470	660	1130	12	5	2	453	1467	1920		547	-94	1494	1400
81	-11	3	36,065	470	660	1130	12	5	3	453	1447	1900		541	-88	1388	1300
83	-23	4	35,050	540	660	1200	14	5	4	453	1487	1940		547	-94	1394	1300
80	-41	5	33,840	740	660	1400	19	5	5	521	1639	2160		534	-13	1413	1400
83	-41	6	32,230	730	660	1390	18	5	6	716	1724	2440		538	178	1482	1660
835	-39	7	30,815	710	660	1370	18	5	7	707	1593	2300		543	164	1376	1540
82	-44	8	29,325	700	660	1360	18	5	8	687	1693	2380		561	126	1314	1440
98	-44	9	27,875	680	660	1340	17	5	9	677	1683	2360		560	117	1343	1460
95	-44	10	26,405	670	660	1330	17	5	10	658	1682	2340		575	83	1277	1360
102	-26	11	24,920	660	660	1320	17	5	11	648	1712	2360		601	47	1293	1340
92	-27	12	23,490	650	660	1310	16	5	12	638	1722	2360		600	38	1262	1300
80	-31	13	22,105	630	660	1290	16	5	13	629	1751	2380		582	47	1263	1300
63	-36	14	20,770	430	750	1180	11	4	14	609	1731	2340		582	27	1233	1260
68	-36	15	19,860	160	770	930	4	0	15	415	1645	2060		575	-160	1300	1140
78	-36	16	19,480	-15	700	685	0		16	156	1674	1830		522	-366	1406	1040
80	-41	17	19,440	-8	650	642	0		17	-15	1435	1420		378	-393	1273	880
96	-41	18	19,440	-43	680	637	-1		18	-8	1408	1400		376	-384	1264	880
109	-41	19	19,480	-93	730	637	-2		19	-42	1522	1480		354	-396	1326	930
108	-41	20	19,625	-101	749	648	-3		20	-91	1591	1500		337	-428	1458	1030
108	-41	21	19,830	-47	700	653	-1		21	-98	1798	1700		339	-437	1717	1280
81	-41	22	19,975	-17	670	653	-4		22	-46	1566	1520		42	-88	1338	1250
70		23							23	-13	1533	1520		4	-17	1237	1220
935																	
90	5,330			62,556			1,564	312		60,680			4,477	49,979	15,78		
888																	
918																	
870																	
856																	

① LISTED HERE ONE DAY LATER THAN AT RESERVOIR -

SLAN RESE	STORRED DIVERSIONS STANTHONY TO REXBURG		DATE	HENRYS FORK NEAR REXBURG					
	HENRYS FORK	TETON RIVER		STORRED	NORMAL	TOTAL			
ACRE									
44	212	73	AUG 21	-679	2339	1660			
43	160	60	22	-799	2459	1660			
43	182	62	23	-678	2308	1630			
43	164	58	24	-589	2199	1610			
43	162	62	25	-515	2115	1600			
42	162	53	26	-506	2066	1560			
42	162	61	27	-533	2083	1550			
42	155	69	28	-331	1851	1520			
41	157	76	29	-358	1808	1450			
41	178	77	30	-518	1998	1480			
40	177	74	31	-393	1893	1500			
35	228	82	SEPT. 1	-429	1809	1380			
38	247	72	2	-403	1753	1350			
37	247	65	3	-406	1666	1260			
36	243	37	4	-368	1588	1220			
36	239	24	5	-357	1587	1230			
34	236	19	6	-268	1628	1360			
33	219	109	7	-150	1600	1450			
32	241	113	8	-190	1530	1340			
30	207	130	9	-211	1581	1370			
25	217	134	10	-234	1584	1350			
27	254	243	11	-414	1674	1260			
26	260	230	12	-443	1703	1260			
24	260	253	13	-475	1755	1280			
23	226	272	14	-451	1761	1310			
22	182	311	15	-466	1806	1340			
20	182	304	16	-646	1896	1250			
15	155	259	17	-780	2100	1320			
15	88	118	18	-599	1819	1220			
15	85	78	19	-547	1817	1270			
15	85	64	20	-545	1975	1430			
15	88	49	21	-565	2175	1610			
15	94	70	22	-601	2481	1880			
15	80	0	23	-168	1948	1780			
2	0		24	-17	1757	1740			
	15854	11422		-12998					

24 HOUR SECOND-FOOT EX

①	PALISADES RESERVOIR	⑤	AFTER
②	RENTED FROM FREMONT MADISON	⑥	INDIA
③	AFTER TRANSFER OF 110 ACRE FEET TO FALL RIVER MISCELLANEOUS	⑦	HO A 90 A
④	AFTER TRANSFER OF 70 A F. FROM BOOM TO SQUIRREL	⑧	AMER

1959

AUGUST

SEPT EMBER

③ AFTER TRANSFER OF 25 A.F. TO MARYSVILLE	⑨ INCLUDES 200 A.F. FROM FALL RIVER CANAL	⑬ AFTER TRANSFER OF 30 AF FROM FALL RIVER CANAL
④ INDIAN LAKE & BERGMAN RESERVOIR DRAFT	⑩ AFTER TRANSFER OF 21 A.F. TO ROXANA; 150 A.F. TO ISLAND WARD	⑭ AFTER TRANSFER OF 40 A.F. TO MCBEE; 240 A.F. TO FRIEND; 30 A.F. TO ALMY; 200 A.F. TO CHESTER
⑤ 110 A.F. FROM DONANT CANAL; 36 A.F. FROM FARMERS OWN, 40 A.F. FROM MARYSVILLE	⑪ AFTER TRANSFER OF 25 A.F. FROM YELLOWSTONE; 295 A.F. TO FARMERS OWN; 40 A.F. TO FALL RIVER MISCELLANEOUS	⑮ AFTER TRANSFER OF 843 A.F. FROM LAST CHANCE
⑥ AMERICAN FALLS 10,188 A.F.; JACKSON LAKE 5,883 A.F.	⑫ AFTER TRANSFER OF 295 A.F. FROM MARYSVILLE	⑯ AFTER TRANSFER OF 240 A.F. FROM FALL RIVER

		TOTAL		RESERVOIR ALLOTMENTS IN ACRE-FEET								
		NO.	SECOND- FEET	ACRE- FEET	FREMONT MADISON	HENRYS LAKE	OTHER RESERVOIRS	RENTALS	TOTAL	HEADGATE EQUIVALENT		
22	23											
		1	910	1,805	1,640		① 841	② 40	2,521	2,468		
		2	312	619	834				834	813		
		3	125	248	255			② 40	255	249		
		4	108	214	⑦ 185			② 1,431	225	219		
15	0	5	1,535	3,044	③ 1,691			② 666	3,122	3,044		
		6	391	775	④ 130		⑥ 698	② 112	796	775		
5	4	7	482	956	④ 170				980	956		
4	0	8	579	1,148	⑤ 1,628				1,628	1,587		
0		9	12,354	24,503	⑪ 19,232			② 5,899	25,131	24,503		
16	0	10	4,350	8,628	⑫ 8,430			② 384	8,814	8,628		
0		11	126	250	⑬ 110			② 146	256	250		
0		12	10,273	20,376	10,135	⑧ 16,071			26,206	24,994		
2		13	156	309	140		② 177		317	309		
		14	1,188	2,357	② 7,458				7,458	7,272		
0		15	19	38	⑨ 40				40	39		
0		16	843	1,672	⑨ 1,758				1,758	1,714		
		17	0	0	584				584	569		
		18	24	48	50				50	49		
		19	1,199	2,378	⑩ 1,462	1,018	✓		2,480	2,378		
0		20	4,445	8,816	⑩ 1,004	9,875	✓		10,879	10,222		
0		21	763	1,513	3,418	4,842	✓		8,260	7,864		
		22	2,797	5,547	⑥ 5,954				5,954	5,805		
		23	2,710	5,375	5,865				5,865	5,718		
		24	5,512	10,971	7,557	17,230	✓		24,787	23,494		
42	4	25	49,979	99,090	77,256	32,965	16,769	8,855	135,845	130,594		
		26	282	559	2,397	4,842	✓		7,239	6,869		
80	0	27	12,069	23,939	9,063	19,082	✓		28,145	27,698		
		28	3,489	6,920	④ 4,758	14,311	✓		19,069	18,035		
		29	14	27	28				28	27		
80	0	30	15,854	31,445	16,246	38,215			54,481	52,629		

AL

FARMERS

① BELOW REXBURG STATION

② RENTED FROM U.S.

③ FROM FALL RIVER CANAL

ANAL

④ AFTER TRANSFER OF 843 A.F. TO DEWEY

STORAGE DIVERS

CANAL	NO.	JULY																																								
		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							
TETON CREEK IRRIGATION CO.	1		9	11	11	11	0	8	0						0	52	57	57	52	52	46	46	48	48	63	55	55	55	60	58	54	51	44	44	44							
SWISS CANAL	2		24	24	24	24	18	19	19	16	16	12	12	12	12	10	13	13	9	9	9	9	6	6	28	28	26	26	24	24	24	2	2	2	2							
TETON CREEK CANALS	3						22	36	33	17	1	0												0	45	45	40	30	30	30	28	26	0									
SOUTH LEIGH	4															22	18	18	0				0	20	20	0																
NORTH LEIGH	5															12	12	12	6	6	0		0	9	9	0																
SPRING CREEK	6																							7	7	7	7	7	5	5	5	0										
HORSESHOE & SWAMPS	7							10	10	10	10	10	10	10	10	10	9	9	4	4	2	2	1	0						0	6	6	6	6								
TOTAL IN TETON BASIN	8		33	35	35	35	40	73	62	43	27	22	22	22	22	106	109	109	71	71	57	57	55	50	172	136	128	118	119	117	111	95	52	52	52							
EQUIVALENT AT ST. ANTHONY GAGE (3)	9			20	22	22	22	25	45	38	26	17	14	14	14	14	65	67	67	44	44	35	35	34	55	106	83	79	73	73	72	68	52	32	10							
CANYON CREEK CANAL	10				19	17	18	17	16	16	16	15	14	13	13	13	14	13	13	12	12	11	11	11	11	10	10	10	10	10	10	9	10	10	10							
TOTAL ABOVE ST. ANTHONY GAGE	11			20	41	39	40	42	61	54	42	32	28	27	27	27	79	80	80	56	56	46	46	45	66	116	93	89	83	83	82	77	52	42	42							
DOSE CUT INFLOW	12		1	1	155	194	316	309	309	297	281	272	266	297	303	297	322	300	294	294	288	291	263	269	269	275	281	322	297	168	127	244	264	252	252							
TETON RIVER BELOW DIVERSIONS (13)	13			15	10	10	60	50	25	30	30	30	25	25	25	25	15	15	30	30	30	30	30	30	42	147	201	158	138	65	38	66	62	80								
WODWAY	14																							2	2	3	0	1	0	2	2	4	6	2	1							
ALFORD	15									85	85	84	84	12	30	33	37	38	39	46	35	35	38	28	34	37	37	35	29	32	31	32	31	33	24							
TETON IRRIGATION	16																					3	8	7	6	3	6	0														
WIG LUCK	17				5	9	0	0	7	7	7	7	7	6	6	6	11	6	6	6	6	7	7	7	6	8	7	4	3	5	5	6	6	6								
POWER	18								9	6	4	4	2	2	0	3	4	0							0	1	3	1	3	2	3	7	6	2								
DEWART	19				9	13	15	0	10	10	10	10	10	10	11	11	0	13	17	12	12	12	9	9	13	6	6	12	9	8	9	1	5	3								
MACOCK - BYINGTON	20					0	2	0							0	3	3	3	3	2	2	2	5	5	4	5	7	7	6	4	2	0	3	2	2							
MACOCK - GARNER	21				1	2	4	0	24	13	15	11	10	8	8	10	10	9	7	10	11	9	10	7	10	10	10	0	6	3	4	5	2	0								
BRONER	22				2	2	2	2	2	2	1	0															0	1	0	2	1	2	1	1								
JAMES - THOMPSON	23				3	3	3	0	0	3	3	3	3	3	3	3	3	3	3	3	3	0							0	3	0			0								
TETON ISLAND FEEDER	24									39	29	33	12	7	27	25	21	19	15	0																						
EVANS	25				19	17	21	24	21	17	15	11	11	13	11	11	0	18	10	8	5	3	4	2	0	3	0					0	5	3	2							
RODMANSEE - JOHNSON	26															1	2	5	5	0	1	3	0	9	8	11	13	13	18	9	0	0	4	3	0							
ISLAND WARD	27				20	20	21	22	24	20	20	27	23	29	44	44	51	46	27	32	32	28	23	21	25	37	23	10	6	12	11	11	37	38	42							
REXBURG IRRIGATION	28				0	13	19	25	121	104	94	82	94	91	102	78	78	85	38	56	33	28	16	31	51	21	25	14	8	0	1	27	22	23								
MCCORMICK - ROWE	29				6	5	8	7	3	4	4	6	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0								
E. OF REXBURG	30									7	0		0	1	0	2	4	4	10	1	3	0	5	0																		
MISCELLANEOUS	31									3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3							
TOTAL BELOW ST. ANTHONY GAGE	32				50	62	92	95	75	351	300	297	251	192	237	254	233	243	229	164	169	140	143	120	137	184	137	122	98	96	70	74	140	25	110							
TOTAL TETON RIVER	33			20	91	101	132	137	136	405	342	329	279	219	264	281	312	323	309	220	225	186	189	165	203	300	230	211	181	179	152	151	202	67	152							

- ① FROM FREMONT MADISON DISTRICT
 ② RESERVOIR RIGHT X 1.39
 ③ LINE 8 DIVIDED BY 1.625 & 1 DAY LATER

SIONS FROM TETON RIVER 1959

24 HOUR SECOND- FEET EXCEPT AS NOTED

AUGUST

SEPTEMBER

- | | | | | | |
|---|--|---|--|---|--|
| ④ | AFTER TRANSFER OF 45 A.F. TO EAMES THOMPSON,
500 A.F. TO STEWART, 78 A.F. TO PINCOCK GARNER | ⑥ | AFTER TRANSFER OF 45 A.F. FROM TETON IRRIGATION | ⑨ | AFTER TRANSFER OF 190 A.F. FROM CONSOLIDATED FARMERS |
| ⑤ | AFTER TRANSFER OF 32 A.F. FROM REXBURG IRRIGATION
78 A.F. FROM TETON IRRIGATION | ⑦ | AFTER TRANSFER OF 400 A.F. FROM CONSOLIDATED FARMERS | ⑩ | AFTER TRANSFER OF 32 A.F. TO PINCOCK-GARNER |
| | | ⑧ | AFTER TRANSFER OF 85 A.F. TO CITY OF REXBURG | ⑪ | AFTER TRANSFER OF 500 A.F. FROM TETON IRRIGATION |

				TOTAL		RESERVOIR ALLOTMENT-ACRE-FEET				
				NO.	SECOND- FEET	ACRE- FEET	FREMONT MADISON	RENTALS (1)	TOTAL	HEADGATE EQUIVALENT
21	22	23	24							
				1	2,078	4,122	3,101		3,101	(2) 4,310
				2	627	1,045	1,608		1,608	(2) 2,235
				3	383	760	894		894	(2) 1,242
				4	38	194	691		691	(2) 961
				5	66	131	181		181	(2) 252
				6	50	99	367		367	(2) 510
				7	256	508	173	192	365	(2) 508
				8	3,458	6,859	7,015	192	7,207	10,018
				9	2,132	4,228				
				10	705	1,398	1,580	50	1,630	1,398
				11	2,837	5,626	8,595	242	8,837	11,916
20	262	182	0	12	15,260	30,268				
63	226	271	0	13	7,357	14,592				
				14	73	145	486		486	415
				15	1,274	2,527	2,977		2,977	2,551
				16	33	65	834		834	715
				17	284	563	367	290	657	563
				18	81	161	150	38	188	161
				19	520	1,031	964	239	1,203	1,031
				20	89	177	285		285	244
				21	256	508	594		594	509
				22	38	75	97		97	83
				23	80	159	165		165	141
				24	1,545	3,064	9,105		9,105	7,805
				25	449	891	1,039		1,039	891
2	11	0		26	173	343	1,370		1,370	1,174
35	48			27	1,673	3,319	3,876		3,876	3,321
				28	1,672	3,317	4,578		4,578	3,923
				29	63	125	103	43	146	125
				30	37	73	85		85	73
3	3	0		31	245	486	565	100	665	570
41	63	0		32	8,585	17,029	27,640	710	28,350	24,295
49	70	0		33	11,422	22,655	36,235	952	37,187	35,711

ED FARMERS

NER

IGATION

- (12) TRANSFER FROM WOODMANSEE - JOHNSON
- (13) PRIOR TO AUG. 1 ESTIMATED BY DEPUTY WATERMASTER

OPERATION OF CROSS CUT CANAL DURING 1959

24 HOUR SECOND-FOOT

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	
DIVERTED AT HEAD	150	143	136	115	97	100	105	112	136	74	85	68	50	40	38	45	53	40	31	30	30	27	30	32	30	59	60	70	79	79	2,145
INFLOW FROM FALL RIVER CANAL	189	22	95	98	202	27	216	221	205	211	189	198	201	212	218	174	174	205	212	195	195	189	202	211	20	21	21	21	21	21	6,874
NORTH BRANCH DIVERSION	37	5	99	95	104	104	105	105	113	105	108	108	108	108	108	108	108	112	112	112	112	112	112	112	112	112	112	112	112	112	3,242
MIDDLE BRANCH DIVERSION	142	142	142	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	3,344
BELOW FALL RIVER CANAL DIVERSIONS	100	100	90	79	47	64	110	110	80	46	40	35	30	30	30	25	10	6	6	7	8	10	13	10	6	60	115	100	98	1,250	
CROSS CUT AT END		94		76		57			103		50					23		5		6			12		5	10			75	1,518	

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	
DIVERTED AT HEAD	30	33	28	31	26	8	5	17	10	100	247	453	510	522	517	498	532	525	529	496	534	537	541	536	533	533	538	525	523	530	538	0,985
INFLOW FROM FALL RIVER CANAL	174	83	89	83	82	182	172	140	140	117	117	104	91	77	76	75	45	22	22	18	21	18	15	15	14	13	13	14	14	13	10	2,469
NORTH BRANCH DIVERSION	78	80	81	81	81	86	81	78	80	72	97	107	114	114	114	119	116	116	115	103	106	110	110	109	108	101	103	103	102	100	0	3,066
MIDDLE BRANCH DIVERSION	37	38	32	31	32	66	86	76	69	121	120	130	137	135	135	135	133	129	132	101	98	78	74	97	97	99	116	114	125	127	121	3,019
BELOW FALL RIVER CANAL DIVERSIONS	89	98	104	102	95	38	10	3	1	24	147	320	350	350	344	319	328	302	304	310	351	368	372	345	342	346	332	322	310	318	326	7,369
CROSS CUT AT END	90	93	98	96	91	34	8	2	1	1	155	194	316	309	309	297	281	272	266	297	303	297	322	300	294	294	288	291	263	269	269	6,400

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	
DIVERTED AT HEAD	534	546	548	542	396	479	495	515	492	490	476	480	467	450	476	393	371	275	302	284	280	276	247	229	209	191	138	144	129	112	114	11,055
INFLOW FROM FALL RIVER CANAL	13	11	14	7	9	14	13	14	14	14	15	15	14	18	18	8	18	18	24	21	25	24	24	25	42	37	37	37	36	56	56	733
NORTH BRANCH DIVERSION	100	105	104	95	0	83	84	97	92	92	93	94	94	94	93	92	92	92	93	93	95	93	79	75	63	69	69	69	75	81	93	5,627
MIDDLE BRANCH DIVERSION	120	98	98	98	95	131	131	116	112	112	112	112	110	109	106	103	96	98	101	84	84	84	81	66	51	47	41	57	56	57	67	2,843
BELOW FALL RIVER CANAL DIVERSIONS	327	354	360	368	320	279	293	316	302	300	286	289	277	265	245	216	201	123	132	130	125	123	113	147	113	65	60	40	20	20	5,318	
CROSS CUT AT END	275	281	322	297	168	127	244	264	252	252	246	246	238	223	209	209	187	127	107	116	110	107	120	132	125	97	63	37	35	17	17	5,240

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	
DIVERTED AT HEAD	109	110	180	182	125	214	212	249	302	351	463	428	430	443	451	444	441	381	378	344	321	243	105	98	96	92	6	4	4	3	7,200
INFLOW FROM FALL RIVER CANAL	61	61	77	78	64	56	54	54	64	33	33	35	35	33	36	36	32	32	33	47	51	47	47	57	57	57	57	56	55		1,495
NORTH BRANCH DIVERSION	83	84	93	93	86	83	83	86	90	92	68	68	68	66	66	65	65	64	63	63	51	54	48	48	34	19	18	16	15	14	1,846
MIDDLE BRANCH DIVERSION	67	67	91	94	83	95	95	88	99	101	111	81	81	82	83	81	80	76	75	74	48	42	32	33	29	25	25	25	25	24	2,012
BELOW FALL RIVER CANAL DIVERSIONS	20	20	73	73	20	92	88	129	177	191	307	314	316	328	338	334	328	273	273	254	273	194	73	74	90	105	20	20	20	20	4,837
CROSS CUT AT END	18	18	80	71	44	90	101	123	46	215	270	286	286	311	311	302	292	252	252	220	262	182	131	80	96	112	61	10	10	10	4,642

SEASON LOSS = $2,242 \div 18,524 = 12.1\%$

TOTAL INTO TETON RIVER FOR SEASON = 20,968 S.F. = 41,590 A.F.

From data
6.9
12.1
15.18

2.170
2.170
2.170

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MISCELLANEOUS RECORDS ON SQUIRREL CREEK

PLATE NO 238

1959

24 HOUR SECOND- FEET EXCEPT AS NOTED

LOCATION

JULY

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
NORTH SQUIRREL CREEK BELOW SO. BOONE DIV.								18											15				14									
NORTH SQUIRREL CREEK AT RANGER STATION								17															13									
INDIAN LAKE (ACRE- FEET)								878											821													768
BERGMAN RESERVOIR (ACRE- FEET)								264											251													148
BERGMAN OUTLET								0								0	0	2	3	3	3	3	3	3	3	3	3	3	3	3	3	6
BOOM CREEK CANAL			5				8	9	9	10	11	11	11	11	12	12	11	10	10	10	10	8	7	10	10	8	9	9	9	8	7	6
SQUIRREL CREEK BELOW BOOM CANAL								8	8	15	14	13	12	8	9	11	13	7	8	7	7	6	6	6	7	7	10	11	8	3	7	
SQUIRREL CREEK CANAL								12	12	11	10	9	12	12	12	12	12	11	11	11	12	12	11	8	11	11	12	12	13	10	5	

LOCATION

AUGUST

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
NORTH SQUIRREL CREEK BELOW SO. BOONE DIV.		8						6								5			7						7						6	
NORTH SQUIRREL CREEK AT RANGER STATION								8											7												5	
INDIAN LAKE (ACRE- FEET)		752						670								437			420						327						345	
BERGMAN RESERVOIR (ACRE- FEET)		110						78								82			75						107						90	
BERGMAN OUTLET	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	1	1	1	3	3	3	3	3	5	5	5	5	5	5
BOOM CREEK CANAL	6	8	8	7	7	7	7	7	7	6	6	6	6	6	6	6	5	5	4	6	6	6	6	5	5	5	5	5	5	6	6	6
SQUIRREL CREEK BELOW BOOM CANAL	8	7	9	7	7	6	6	6	7	7	7	6	6	5	7	7	6	5	4	3	3	3	3	3	4	4	4	4	4	4	4	
SQUIRREL CREEK CANAL	9	10	10	11	11	10	9	9	9	10	8	8	8	8	8	9	9	8	7	6	5	5	4	4	5	5	5	5	7	5	6	232

SEPTEMBER

LOCATION

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								4														6					
NORTH SQUIRREL CREEK AT RANGER STATION				4								5														8					
INDIAN LAKE (ACRE- FEET)				314								301														314					
BERGMAN RESERVOIR (ACRE- FEET)				48								0														0					
BERGMAN OUTLET				5								0														0					63
BOOM CREEK CANAL	6	6	5	4	3	3	4	4	3	4	4	4	4	3	3	3	0									5	5	5			
SQUIRREL CREEK BELOW BOOM CANAL	4	4	4	4	4	4	2	2	1	1	1	2	2	3	3	3	4	5	5	5	5	7	7		5	5	5	3	3	3	3
SQUIRREL CREEK CANAL	5	5	5	5	6	5	4	4	3	3	3	3	3	5	5	5	7	8	6	5	5	5	4	3	3	3	3	3	3	3	
BOOM CANAL 739 CFS ; SQUIRREL CANAL 952 CFS																															

TOTAL DIVERSIONS FOR SEASON : BOOM CANAL 739 CFS ; SQUIRREL CANAL 952 CFS

[illegible]

24 HOUR SECOND-FOOT

JULY

[illegible]

AUGUST

SEPTEMBER

1	495700	465600	471550	470870	470640	481410	485080	498470	623100	850820	775700	637580
2	495010	465140	471550	470870	470870	481640	485320	500780	628200	849530	771180	633010
3	493860	464910	471320	470640	471100	481860	485320	503320	630130	848250	767700	628920
4	493160	465140	471320	470640	471780	481860	485550	506090	635420	847740	765210	624360
5	491780	464910	471320	470410	472240	482100	485550	508870	642630	846720	760230	619820
6	490390	464680	471320	470410	472470	482100	485780	511200	653000	845190	755000	615520
7	489470	466970	471550	470180	472700	482100	485780	513060	664630	843150	748280	611460
8	488550	466970	472240	470180	473160	482320	485780	514680	675790	841120	743320	606920
9	489240	467200	472240	469950	473390	482320	485780	517700	684810	838830	738870	602380
10	488320	468350	472010	469950	473620	482320	485550	621660	695050	836280	733920	598340
11	487160	468800	472930	469720	473840	482550	485550	524210	704370	833740	729220	594060
12	486010	468580	472930	469720	474300	482550	485780	526770	713460	831190	724030	590030
13	484850	468580	472930	469490	474530	482780	485780	530730	724530	828400	720330	585760
14	483700	469720	472930	469260	474530	482780	486010	536340	737140	825850	715420	582970
15	483010	471320	472930	469260	474760	482780	486010	543830	750520	823050	710510	578650
16	482100	471320	472700	469030	475220	482780	485780	553190	763960	820260	703630	574390
17	480950	471550	472700	468800	476140	482780	485780	561910	775200	816720	700930	570150
18	479800	471320	472470	468800	476600	482780	485780	568030	787240	813690	697000	566150
19	478660	471320	472240	468580	477280	483240	486240	572740	798280	810660	692620	561910
20	478890	472930	472010	468580	477510	483240	486470	576990	800560	809650	689440	559080
21	477740	472930	471780	468580	477740	483240	486470	580310	817990	809900	685060	556020
22	476370	472930	471780	468580	478200	483240	486700	585530	826610	809650	680420	553900
23	474990	472930	471550	468350	478430	483240	486700	588370	834760	809900	676760	552960
24	473840	472930	471550	468580	478890	483240	486700	590510	842140	808390	672620	552250
25	472700	472930	471320	468800	479340	483010	488090	592640	848250	805110	668020	551320
26	471780	472700	471320	468800	480030	483010	490860	596670	852350	801320	664140	551790
27	470870	472470	471100	469030	480490	483010	492930	602380	853890	797780	659540	551790
28	469720	472240	471100	469720	480950	483010	494090	607400	853120	793510	655190	552720
29	468580	472010	471100	470180	----	482780	495470	612410	851840	789240	650830	552250
30	467430	471780	470870	470410	----	483010	496620	616950	851580	785480	646240	551320
31	466280	----	470870	470640	----	484850	----	620060	----	780460	641670	----

Mean												
Area												
Per												

YEAR
OR
PERIOD

MEAN

ACRE-FOOT

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	806	435	412	412	386	412	422	466	895	3380	3170	2740
2	806	435	412	412	386	412	422	466	1860	3370	3160	2720
3	806	435	412	412	386	412	430	458	2280	3380	3150	2710
4	806	435	412	412	386	412	430	466	2280	3300	3110	2710
5	806	435	412	412	390	412	422	466	2290	3300	3080	2710
6	806	435	408	417	394	412	422	444	2290	3290	3080	2710
7	800	435	408	417	394	422	426	440	2310	3290	3050	2700
8	806	430	408	417	394	422	430	440	2300	3280	3040	2690
9	800	430	408	417	394	422	430	440	2310	3260	3010	2690
10	800	426	408	417	394	422	430	435	2310	3250	3000	2680
11	794	426	408	417	394	422	430	430	2330	3260	2990	2660
12	794	426	408	417	394	422	440	435	2340	3260	2980	2650
13	794	426	408	417	394	422	440	430	2350	3260	2980	2640
14	789	426	408	417	404	422	444	426	2380	3250	2980	2640
15	789	430	408	417	404	422	444	426	2410	3240	2960	2640
16	789	430	408	422	404	422	440	430	2440	3280	2930	2630
17	789	430	408	422	404	422	440	430	2250	3330	2900	2620
18	789	430	408	422	404	422	440	430	1500	3290	2880	2620
19	784	430	408	422	404	422	440	426	1790	2220	2870	2610
20	784	430	408	390	404	417	440	426	1560	958	2840	2610
21	784	422	408	390	404	417	440	426	1590	951	2820	2070
22	784	417	408	390	404	417	440	426	1600	965	2810	1200
23	784	417	408	390	404	417	440	422	1620	1300	2810	784
24	784	417	408	390	412	417	444	422	1900	2530	2800	740
25	784	417	408	390	412	417	444	422	2690	3010	2800	745
26	784	417	408	390	412	426	453	417	3950	2990	2800	750
27	784	417	408	390	412	426	453	422	5650	2940	2780	750
28	778	412	408	390	412	426	453	426	4900	2890	2770	750
29	778	412	408	386	---	426	453	426	3860	2860	2760	750
30	778	412	408	386	---	426	462	430	3390	3070	2760	750
31	671	---	408	386	---	426	---	430	---	3200	2750	---

Mean	788	426	409	406	400	420	438	435	2,454	2,876	2,930	2,089
Area-Feet	48,460	25,340	25,130	24,960	22,190	25,820	26,070	26,740	146,000	176,800	180,100	124,300

YEAR OR PERIOD
 MEAN
 ACRE-Feet

1,177
 851,910

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	2260	1950	1530	1500	1250	1410	1620	3780	4660	10100	6000	1280	
2	2250	1760	1550	1450	1200	1430	1890	4050	5840	9410	6200	4260	
3	2250	1730	1600	1420	1250	1410	2150	4000	8680	9290	6140	4240	
4	2230	1820	1640	1450	1300	1370	2290	3820	10400	9660	5970	4190	
5	2220	1830	1530	1470	1400	1370	2660	3600	11800	9350	5820	4130	
6	2200	1790	1580	1500	1510	1410	2810	3320	13400	9130	5650	4110	
7	2180	2090	1630	1500	1490	1420	2790	3190	14700	9070	5550	4090	
8	2230	2000	1660	1450	1490	1410	2620	3320	14500	8820	5460	4030	
9	2340	1880	1620	1430	1410	1410	2400	3660	14100	8290	5340	3980	
10	2250	1920	1600	1430	1380	1440	2190	3940	14100	8150	5260	3960	
11	2220	1970	1700	1500	1400	1410	2110	3700	13600	8030	5170	3940	
12	2200	1860	1800	1560	1430	1400	2070	3760	13400	8010	5100	3920	
13	2190	1800	1660	1550	1350	1450	2160	4470	14400	8010	4980	3920	
14	2180	1890	1570	1470	1340	1420	2260	5600	15400	8010	4910	3920	
15	2160	1840	1550	1400	1370	1380	2300	6070	16600	7980	4860	3940	
16	2150	1760	1540	1430	1430	1410	2250	7870	17900	7870	4750	3960	
17	2130	1750	1530	1470	1440	1440	2180	7710	17800	7730	4630	4000	
18	2130	1670	1530	1470	1420	1500	2150	6350	16600	7510	4700	4030	
19	2130	1690	1560	1470	1420	1500	2120	5480	15900	7240	4820	4050	
20	2190	1770	1520	1400	1390	1460	2060	4910	15200	5970	4930	4170	
21	2180	1780	1500	1350	1380	1450	2020	4360	15200	4880	4840	4170	
22	2120	1760	1530	1400	1390	1470	2090	4110	14900	4660	4750	3680	
23	2120	1730	1550	1460	1410	1540	2250	3960	14300	4430	4660	2980	
24	2110	1700	1540	1460	1390	1570	2410	4110	13800	4660	4610	2590	
25	2090	1690	1520	1450	1380	1570	2980	4430	13800	5820	4590	2550	
26	2090	1600	1520	1400	1420	1610	3640	4820	14200	6020	4590	2690	
27	2090	1580	1490	1420	1400	1620	3520	5220	15000	5940	4560	2900	
28	2090	1550	1480	1470	1390	1600	3090	5070	13900	5800	4470	2810	
29	2080	1530	1480	1440	—	1620	3000	4820	12600	5700	4390	2740	
30	2060	1530	1470	1390	—	1650	3300	4660	11100	5600	4340	2640	
31	2030	—	1470	1350	—	1630	—	4430	—	5840	4300	—	

MEAN	2,166	1,774	1,563	1,449	1,387	1,477	2,446	4,600	13,590	7,322	5,043	3,696
ACRE-FOOT	133,200	105,600	96,100	89,080	77,020	90,800	145,500	282,800	808,800	450,200	310,100	219,900

YEAR
 MEAN 3,880
 ACRE-FOOT 2,809,100

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	287	224	230		155	190	209	1340	1260	1510	485	324
2	287	227	243		165	192	262	1520	1500	1010	510	320
3	287	236	256		175	185	305	1340	1770	1030	490	320
4	284	243	262		185	185	402	1170	1930	1000	465	313
5	280	243	236	190	190	185	550	1020	2200	932	455	309
6	280	243	236		190	185	658	948	2500	900	440	309
7	276	313	246		190	185	645	940	2620	876	430	305
8	280	269	240		190	185	568	1120	2410	852	416	298
9	284	266	236		190	185	475	1310	2410	820	411	294
10	276	287	236		190	185	402	1260	2470	780	402	294
11	273	280	256		190	185	371	1120	2210	759	402	294
12	269	252	273		190	185	367	1340	2220	731	406	291
13	266	246	227		185	185	411	1720	2330	710	402	291
14	259	266	218		180	185	450	1860	2290	704	388	291
15	259	249	200	195	182	185	460	1680	2400	717	380	298
16	256	218	236		190	185	435	2310	2600	717	367	298
17	252	203	236		190	185	406	1810	2420	664	359	305
18	252	209	227		190	185	398	1560	2360	638	367	302
19	252	227	233		190	185	380	1400	2290	619	398	305
20	266	252	233		190	182	351	1230	2230	612	440	305
21	249	246	227		190	185	347	1120	2230	593	398	305
22	249	236	240		190	190	393	1100	2190	586	371	298
23	249	240	236	190	190	203	490	1090	2080	562	363	294
24	256	246	233		190	198	574	1190	1960	544	355	298
25	249	236	218		190	198	900	1350	1840	544	347	324
26	246	209	215	185	190	200	1260	1400	1740	526	351	375
27	246	243	200	185	190	212	1040	1410	1510	532	355	398
28	243	215	200	182	190	200	844	1250	1310	510	339	339
29	233	218	195	172	—	212	804	1170	1220	490	331	320
30	230	224	195	158		209	991	1160	1130	480	328	309
31	227		200	155		206		1150		470	324	

MEAN	261	242	230	188	186	191	538	1,335	2,054	708	396	311
ACUM.	16,070	14,410	14,120	11,580	10,350	11,750	32,030	82,090	122,200	43,530	24,350	18,500

YEAR
 MEAN 554
 ACUM. FEET 400,980

Day	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	625	584	535	495	436	405	480	1110	851	625	533
2	625	584	535	490	415	410	571	1180	812	610	539
3	625	590	545	480	415	410	760	1080	790	618	545
4	625	597	552	470	430	405	835	1020	790	648	552
5	640	597	545	465	415	410	939	979	798	640	545
6	632	604	539	468	430	405	1070	939	812	618	539
7	632	618	545	474	436	410	1050	907	820	597	545
8	632	618	558	458	425	410	955	955	812	578	539
9	625	618	558	430	415	405	820	1030	745	578	533
10	618	632	558	452	415	410	730	1030	678	597	533
11	610	640	604	452	410	405	708	955	648	590	533
12	610	618	708	446	415	405	745	963	610	590	545
13	604	604	662	446	415	415	805	1020	662	590	545
14	597	632	597	446	395	410	835	1080	678	590	539
15	590	610	558	436	410	405	812	1060	625	584	533
16	590	584	552	445	415	405	752	1130	678	655	533
17	590	550	545	441	420	410	700	1090	685	662	533
18	590	540	545	436	420	410	685	1050	648	597	539
19	590	540	539	446	415	415	685	1030	625	564	558
20	590	550	539	446	410	415	655	995	640	552	564
21	590	560	539	436	410	415	655	963	625	545	571
22	584	570	539	441	405	415	662	923	632	545	564
23	584	580	539	441	410	430	708	883	625	539	564
24	597	580	539	446	410	446	730	859	618	539	564
25	610	580	533	446	405	452	883	867	610	545	564
26	618	575	527	441	410	463	1100	899	618	539	564
27	610	560	515	446	405	468	1110	971	618	545	564
28	604	550	515	452	405	463	955	1000	625	539	564
29	597	540	515	452	---	458	891	963	625	533	558
30	590	535	485	446	---	463	939	963	640	533	552
31	584	---	490	425	---	463	---	939	---	527	552

607	585	550	451	415	423	808	995	688	581	549	592
37,310	34,790	33,830	27,760	23,040	26,010	48,050	61,160	40,940	35,730	33,730	35,240

YEAR _____
 CH _____
 ACRES-PLANT 604
 437,590

1	15	15	13	15	12	13	27	536	254	98	37	19
2	15	14	13	14	11	12	61	504	259	93	36	19
3	15	15	14	14	11	12	95	387	276	89	36	19
4	15	15	15	14	11	11	139	355	288	85	33	18
5	14	16	16	15	12	12	207	320	293	80	31	18
6	14	17	16	15	12	13	245	308	299	78	31	18
7	14	25	16	15	12	13	211	308	290	75	29	18
8	14	23	17	14	13	14	171	346	265	72	29	17
9	14	25	16	13	13	14	121	378	251	69	28	17
10	14	30	16	14	13	14	98	352	240	65	26	18
11	14	29	16	14	13	14	91	296	221	64	26	17
12	14	21	16	14	12	14	116	320	214	62	27	17
13	14	20	15	14	11	14	171	378	211	60	25	18
14	14	22	15	13	10	13	204	394	211	58	25	18
15	14	19	14	12	12	12	195	371	221	58	25	22
16	14	18	14	13	13	13	139	400	211	57	23	22
17	14	17	15	14	13	14	112	339	199	53	23	22
18	14	16	15	14	14	15	104	305	184	50	25	22
19	14	17	15	13	14	14	96	268	175	48	29	23
20	14	18	16	12	13	13	87	256	163	46	36	24
21	14	18	16	11	12	15	91	237	157	47	30	24
22	14	17	16	12	11	17	123	219	151	47	26	22
23	14	17	16	13	13	20	169	224	141	44	25	22
24	14	17	16	14	12	21	237	234	130	43	24	21
25	14	16	16	14	12	22	403	237	125	41	24	26
26	14	15	16	13	13	24	543	248	132	41	24	36
27	14	14	16	14	13	27	447	265	125	44	23	52
28	14	14	15	14	13	25	324	265	120	40	21	34
29	14	13	15	13	—	28	339	273	112	38	20	29
30	14	13	15	13	—	25	443	296	114	36	20	26
31	14	—	15	12	—	24	—	265	—	37	19	—

Mean	14.1	18.2	15.3	13.5	12.3	16.5	194	319	201	58.6	27.0	22.6
Acres	869	1,080	942	831	682	1,020	11,520	19,600	11,960	3,610	1,660	1,340

YEAR
 MEAN 76.1
 ACRE-Feet 55,114

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	1	58	11	7
2					0	2	54	19	7
3					0	10	52	16	7
4					0	22	49	15	6
5					0	57	45	14	6
6					0	100	42	13	6
7					0	111	40	12	6
8					0	94	37	12	6
9					0	107	35	12	6
10					0	121	32	12	6
11					0	107	29	12	5
12					1	123	27	11	5
13					7	149	25	11	5
14					14	177	23	11	5
15					14	176	21	10	5
16					17	184	19	10	5
17					12	206	18	10	5
18					10	201	17	10	5
19					8	178	16	10	5
20					3	166	16	12	5
21					0	169	15	10	5
22					0	158	14	10	4
23					0	146	13	9	4
24					1	146	13	9	4
25					2	129	12	8	5
26					3	115	12	8	5
27					4	89	12	8	5
28					2	79	11	8	4
29					2	72	11	7	4
30					1	64	10	7	4
31					1		10	7	

MEAN	0	0	0	0	0	0	0	3.29	115	25.4	10.8	5.23
ACRE-Feet	0	0	0	0	0	0	0	202	6,860	1,560	662	311

MEAN 13.3
ACRE-Feet 9,595

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	30	29	26	21	20	21	92	133	132	75	45
2	37	30	30	25	20	20	25	107	163	127	78	44
3	37	30	30	25	19	20	27	96	197	126	68	43
4	36	31	31	26	20	19	32	94	235	119	65	42
5	36	31	31	26	20	19	38	85	276	115	63	42
6	37	32	31	26	20	20	47	81	324	111	61	41
7	36	40	31	26	20	20	48	87	330	107	60	41
8	37	35	30	26	20	20	48	111	284	102	58	42
9	36	36	30	26	20	19	43	127	305	98	57	42
10	35	41	30	26	20	20	35	118	330	96	57	42
11	35	35	32	27	20	20	34	111	309	94	55	42
12	35	33	31	27	20	20	36	136	328	92	55	43
13	35	33	28	27	19	20	42	175	359	91	54	43
14	34	33	28	27	18	19	42	188	370	89	54	43
15	35	32	27	26	19	18	42	188	390	86	53	45
16	35	24	27	26	20	19	38	206	361	84	51	43
17	35	24	27	26	20	20	35	166	343	84	51	45
18	34	25	28	25	20	20	35	145	315	81	55	45
19	35	27	28	25	20	19	32	132	268	80	54	47
20	35	30	28	24	20	19	31	119	250	79	60	48
21	34	32	28	23	20	19	31	112	246	78	54	47
22	33	32	28	23	19	20	35	112	238	76	51	44
23	33	32	28	23	19	20	38	116	238	75	49	42
24	34	31	27	24	19	20	42	130	248	75	48	42
25	33	30	27	24	19	20	53	146	227	73	48	47
26	33	30	27	24	20	20	66	159	212	73	51	48
27	33	30	27	24	20	20	63	156	185	72	53	48
28	32	29	27	25	20	20	53	142	164	71	51	45
29	32	29	27	24	--	21	53	133	150	70	50	43
30	31	29	26	23	--	21	70	126	140	68	48	43
31	30		26	22		20		125		67	47	

Mean	34.5	31.2	28.5	25.1	19.7	19.7	41.2	130	264	90.0	56.0	43.
Acres-Feet	2,120	1,860	1,760	1,540	1,090	1,210	2,450	7,980	15,710	5,540	3,440	2,610

MEAN 65.3
ACRES-Feet 47,310

	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Year
1	28	24	22	22	17	18	28	264	173	90	51	33	
2	28	24	22	21	17	18	43	277	181	86	50	33	
3	28	24	22	20	18	18	57	211	191	86	48	33	
4	28	24	23	20	18	13	81	200	203	81	46	33	
5	28	25	23	21	19	14	107	191	214	79	44	32	
6	28	25	23	22	20	14	127	188	226	78	44	32	
7	27	29	23	23	20	17	125	191	223	76	42	32	
8	27	28	23	21	20	17	110	208	197	76	42	32	
9	27	27	23	20	20	16	94	229	191	72	40	31	
10	27	32	23	23	19	17	83	217	186	71	40	31	
11	26	30	23	22	19	16	79	197	170	69	40	31	
12	26	26	23	19	19	16	88	203	170	69	40	31	
13	26	26	22	19	18	17	110	236	173	69	39	31	
14	26	27	22	19	16	15	122	248	173	67	39	31	
15	26	26	22	18	17	13	120	232	170	69	37	31	
16	26	25	22	20	18	15	105	251	158	67	37	34	
17	26	25	22	22	19	18	92	220	148	66	36	34	
18	26	25	22	21	18	19	88	200	140	64	38	34	
19	26	25	22	21	18	19	83	186	138	63	40	34	
20	26	25	22	20	17	18	74	186	131	61	45	35	
21	25	25	21	18	17	19	74	178	127	61	40	36	
22	24	25	21	19	17	21	83	175	120	60	38	33	
23	24	24	21	21	18	23	95	173	114	58	37	32	
24	25	24	22	22	17	24	116	173	110	58	37	32	
25	25	24	22	20	18	26	168	173	105	57	36	33	
26	25	23	22	20	18	29	211	178	110	56	35	37	
27	25	22	22	19	18	29	197	181	103	57	35	40	
28	25	22	22	19	18	28	165	175	101	54	34	35	
29	25	22	21	19	—	29	173	178	99	53	33	33	
30	24	22	20	18	—	29	220	181	97	49	33	32	
31	24	—	20	18	—	26	—	173	—	49	33	—	

MEAN	26.0	25.2	22.0	20.2	18.1	19.7	111	202	155	66.8	39.6	33.0
ACRE- FEET	1,600	1,500	1,350	1,240	1,010	1,210	6,580	12,440	9,210	4,110	2,440	1,970

YEAR
 MEAN 61.7
 ACRE-Feet 44,660

Days	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2820	2870	1790	1750	1780	1890	1480	4860	5790	9240	13400	12150
2	2820	2870	1780	1750	1770	1880	1480	6720	9070	8640	13500	12100
3	2580	2870	1780	1810	1780	1880	1510	6750	12400	8610	13500	12400
4	2600	2760	1780	1790	1790	1860	1530	6750	13100	8640	13500	12800
5	2600	2760	1820	1790	1790	1860	1530	4910	12800	8570	13300	13000
6	2630	2740	1820	1810	1810	1880	1480	6270	13000	9440	12900	13000
7	2580	2780	1810	1790	1790	1920	1510	7000	13500	11600	12900	13000
8	2580	2780	1810	1790	1790	1920	1530	8480	12900	12700	12900	13000
9	2580	2780	1810	1810	1790	1940	1690	9690	12300	12700	12800	13000
10	2510	2780	1810	1820	1790	1940	1750	10100	12500	13100	12700	13000
11	2510	2530	1810	1820	1790	1940	1740	9830	12600	13600	11800	13000
12	2530	2490	1810	1820	1790	1940	1750	9860	12600	13700	11100	13000
13	2530	2490	1810	1810	1790	1950	1750	10900	12600	13600	10700	13000
14	2530	2490	1810	1790	1790	2000	1770	12200	12600	13600	10400	12900
15	2540	2490	1640	1790	1790	1950	2130	11700	12400	13600	9970	12000
16	2540	2490	1560	1790	1790	1950	2100	10700	11600	13500	9830	11000
17	2510	2490	1560	1770	1810	1910	2150	9070	11500	13400	9800	10400
18	2510	2490	1560	1770	1790	1940	2150	8480	11600	13500	9860	9130
19	2450	2510	1560	1790	1790	1850	2100	7870	12200	13600	9900	8670
20	2530	1910	1560	1810	1790	1880	3030	7930	12600	13600	9900	5380
21	3010	1890	1560	1810	1790	1840	3030	7090	12600	13600	9720	5380
22	2990	1890	1560	1790	1810	1600	3030	7060	12200	13600	9440	3070
23	3010	1910	1480	1780	1810	1550	3030	7740	11800	13600	9200	3050
24	3010	2000	1480	1780	1820	1510	3090	7470	11800	13700	9040	3070
25	2860	1960	1480	1770	1880	1480	4090	7530	11700	13700	8510	3050
26	2870	1790	1480	1770	1850	1480	4990	7060	11700	13600	8120	3070
27	2870	1790	1480	1770	1860	1500	4940	7090	11700	13700	8160	3070
28	2870	1790	1500	1770	1880	1500	4880	6780	11600	13700	8770	3070
29	2870	1810	1500	1780	----	1500	4880	5790	11600	13400	11700	3050
30	2870	1790	1500	1780	----	1480	4860	5790	10500	13400	12100	3050
31	2870	----	1470	1790	----	1480	----	5760	----	13500	12100	----

MEAN	2,696	2,366	1,651	1,789	1,804	1,781	2,566	7,911	11,900	12,530	11,020	8,960
Acres-Feet	165,800	140,800	101,500	110,000	100,200	109,500	152,700	486,400	707,800	770,500	677,400	533,200

YEAR

MEAN

5,602

Acres-Feet

4,055,800

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3260	3300	2150	2070	2230	2310	1990	5950	6670	10600	13700	12400
2	3260	3330	2140	2150	2230	2310	2410	7160	8340	9710	13900	12400
3	3040	3350	2150	2150	2210	2290	2210	7680	12900	9640	13800	12600
4	3040	3280	2140	2160	2230	2250	2270	7680	14000	9600	13800	13000
5	3070	3240	2170	2170	2210	2250	2230	6490	14200	9540	13800	13200
6	3040	3240	2220	2190	2210	2270	2190	6790	13900	9990	13400	13200
7	3020	3280	2210	2170	2230	2230	2100	7450	14700	11800	13400	13200
8	3000	3280	2190	2170	2250	2230	2160	9150	14300	13200	13300	13200
9	2960	3260	2190	2150	2230	2230	2160	10300	13500	13200	12900	13200
10	2980	3350	2190	2190	2230	2250	2190	11100	13500	13300	12900	13200
11	2960	3150	2190	2210	2230	2230	2230	10800	13700	14000	12100	13200
12	2960	3000	2210	2220	2210	2210	2230	10700	13700	14000	11400	13300
13	2960	2980	2150	2260	2210	2210	2270	11500	13800	14000	10900	13300
14	2960	2940	2170	2210	2210	2250	2270	13000	13800	14000	10800	13300
15	2980	2900	2040	2170	2210	2230	2410	12900	13600	13900	10300	13000
16	2980	2880	1950	2220	2230	2250	2580	12300	12700	14000	10100	11400
17	2960	2860	1960	2220	2270	2250	2550	10700	12700	14100	10100	11200
18	2940	2840	1930	2220	2230	2370	2530	9710	12600	14100	10200	10100
19	2940	2840	1930	2210	2230	2250	2550	9120	12900	14200	10400	9220
20	2980	2540	1950	2210	2210	2160	3030	8950	13500	14200	10400	7160
21	3440	2310	1910	2210	2230	2180	3430	8300	13500	14200	10300	6280
22	3420	2310	1930	2210	2230	2100	3480	8040	13300	14200	9960	4460
23	3440	2330	1910	2210	2230	2060	3480	8440	12700	14200	9820	3550
24	3440	2410	1900	2210	2230	2030	3520	8500	12700	14200	9820	3520
25	3420	2390	1910	2220	2290	2030	4410	8470	12700	14200	9430	3520
26	3350	2260	1880	2220	2270	1970	5540	8240	12800	14200	8780	3520
27	3350	2150	1900	2220	2270	1920	5860	8110	12600	14200	8740	3520
28	3330	2150	1900	2230	2270	1940	5740	7880	12600	14200	8740	3520
29	3330	2150	1870	2210	----	1940	5710	7130	12500	13800	11500	3480
30	3300	2140	1880	2210	----	1920	5770	6790	11900	13800	12400	3480
31	3300	----	1910	2230	----	1880	----	6760	----	13800	12400	----

Mean	3,142	2,815	2,036	2,197	2,233	2,161	3,117	8,906	12,880	13,100	11,400	9,454
Area	193,200	167,500	125,200	135,100	124,000	132,900	185,500	547,600	766,200	805,400	701,100	562,600

	Dec.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	13	14					23	22	31	136	101
2	12	13	14					23	23	33	136	47
3	13	13	14					23	22	47	136	23
4	13	13	14					23	22	47	180	4
5	13	13	14					23	22	47	215	4
6	13	13	14					23	23	47	213	6
7	13	13	14				22	23	23	47	210	6
8	12	13	14					22	23	45	210	6
9	12	13	14					21	23	40	208	6
10	13	13	14					21	23	44	210	6
11	12	13	14					20	23	92	206	5
12	13	13	14					20	23	144	206	4
13	13	13	15					19	23	144	206	4
14	13	13	15					18	24	144	204	4
15	13	13	15					18	25	144	202	4
16	13	13	15					18	26	144	202	4
17	13	13	15					20	29	142	202	4
18	13	14	15					20	29	140	200	4
19	13	14	16					20	30	140	197	4
20	13	14	16					20	31	140	197	4
21	13	14	16					20	32	140	197	4
22	13	14	16					20	32	140	195	4
23	13	14	16					20	32	144	195	4
24	13	14	16					20	32	144	195	4
25	13	14	16					20	32	144	195	4
26	13	14	16					20	32	144	146	4
27	13	14	16		20			21	33	144	103	4
28	13	14	16					21	33	142	103	4
29	13	14	16					22	32	142	103	4
30	13	14	16					22	32	138	103	4
31	13	14	16					22	32	138	103	4
								22		136	103	

Year	12.8	13.4	15.0	e 17	e 19	e 21	e 22	20.9	27.0	108	175	9.7
Area	789	799	924	1,050	1,060	1,290	1,310	1,290	1,610	6,650	10,750	575

YEAR
 OR
 PERIOD MEAN 38.8
 ACRES-FOOT 28,097

1	17180	33635	56055	73590	98475	115300	127265	135855	135855	134355	73750	37815
2	17155	34450	56860	74410	99145	115670	127890	137150	135690	134395	71685	36945
3	17130	35290	57595	75075	99745	115965	128675	137395	135530	134475	69180	36065
4	17115	36450	58430	75630	100555	116335	129460	137230	135365	134315	67390	35050
5	17115	36945	59185	76245	101370	116705	130170	136580	135285	134155	65405	33840
6	17105	37875	60035	77145	102050	117150	130720	136260	135450	134475	63565	32230
7	17075	38850	60810	78460	102730	117520	131115	136015	135530	134315	62055	30815
8	17065	39645	61685	79150	103490	117890	131435	135770	135770	133510	60265	29325
9	17050	40405	62430	79905	104180	118265	131750	135530	136015	132710	58560	27875
10	17040	41265	63235	80605	105010	118635	131990	135450	135530	131195	56905	26405
11	16895	41950	64045	81370	106125	119085	132150	135205	135530	128360	55215	24920
12	16855	42270	65110	82080	107315	119460	132310	134960	134800	124935	53855	23490
13	16790	42590	65800	82850	108305	119835	132470	134640	134720	121195	52050	22105
14	17585	43075	66590	83990	108730	120140	132550	134640	134640	118935	50270	20770
15	18590	43400	67040	84780	109230	120515	132630	134880	134475	116410	48840	19860
16	19250	44160	67390	85565	109725	120895	132790	135125	134880	113185	47455	19480
17	20230	44905	67745	86360	110230	121270	132950	135365	134800	111090	46110	19440
18	21140	45660	68105	87100	110945	121650	132950	135690	134720	108375	44905	19440
19	22105	46460	68460	87905	111305	122030	132950	136580	134475	106125	44265	19480
20	23035	47275	68715	88715	111880	122490	132950	136420	134475	103625	43895	19625
21	23945	48180	69025	89530	112240	122790	133030	136260	134395	101100	43795	19830
22	24865	48950	69545	90415	112600	123095	133190	135285	134555	98475	43500	19975
23	25785	49775	70010	91240	112965	123475	133350	135610	134395	95825	43140	20005
24	26715	50575	70270	92000	113330	123860	133510	135610	134155	93160	42815	19975
25	27605	51425	70585	92900	113695	124240	133590	135365	133990	90540	42460	19960
26	28505	52205	70955	93675	114280	124625	133670	135205	134155	88155	42175	19890
27	29325	52965	71380	94455	114715	125010	133750	135530	134235	85625	41635	19890
28	30260	53730	71805	95500	115080	125320	133750	135855	134315	83150	41205	19890
29	31110	54550	72180	96290	-----	125865	133910	135690	134075	80780	40405	19845
30	31940	55255	72500	97080	-----	126330	134475	136015	134720	78345	39495	19785
31	32735	-----	72825	97740	-----	126875	-----	135935	-----	76080	38620	-----

Mean												
Area												
Per												

1. 1978-1979 1978-1979 1978-1979

YEAR
OR
PERIOD

MEAN
ACRE-FEET

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1	526	6	7	10	11	166	132	756	728	626	1825	1190
2	526	6	7	10	11	166	6	938	706	605	1810	1130
3	526	6	7	10	11	166	22	938	690	637	1720	1130
4	526	6	7	10	11	166	95	896	679	669	1600	1200
5	526	6	7	10	11	166	142	830	669	653	1590	1400
6	521	6	7	10	11	166	162	789	685	642	1590	1390
7	521	6	7	10	11	166	201	745	701	610	1580	1370
8	521	8	7	10	11	170	222	706	728	816	1580	1360
9	521	8	7	10	11	170	237	690	745	1210	1570	1340
10	521	178	7	10	11	170	251	648	718	2030	1560	1330
11	521	272	7	10	11	170	263	610	690	2180	1540	1320
12	521	272	7	10	11	170	276	584	690	2210	1530	1310
13	221	272	7	10	71	170	288	563	690	2090	1560	1290
14	6	255	75	10	121	170	301	568	685	2050	1490	1180
15	156	90	240	10	138	170	310	568	685	2020	1440	930
16	6	8	240	10	166	170	324	605	685	1880	1420	685
17	6	8	240	10	166	170	338	637	679	1800	1350	642
18	6	7	240	10	166	173	343	701	658	1840	1180	637
19	6	7	240	10	166	173	343	762	637	1880	1090	637
20	6	7	240	11	166	173	347	767	637	1930	1030	648
21	6	7	240	11	166	173	352	734	626	1970	992	653
22	6	7	240	11	166	173	371	690	621	1980	992	653
23	6	7	240	11	166	173	385	701	610	1970	992	658
24	6	7	240	11	166	173	404	690	595	1970	992	658
25	6	7	240	11	166	173	584	669	568	1930	986	653
26	6	7	240	11	166	173	706	658	600	1860	980	653
27	6	7	240	11	166	173	728	685	616	1850	980	653
28	6	7	240	11	166	176	728	723	595	1840	1030	653
29	6	7	240	11	—	180	552	728	610	1840	1150	648
30	6	7	240	11	—	180	563	750	642	1820	1150	626
31	6	—	172	11	—	180	—	745	—	1820	1140	—

MEAN	218	50.1	135	10.4	93.6	171	333	712	662	1,588	1,337	952
ACRE-FOOT	13,400	2,980	8,290	639	5,200	10,530	19,790	43,780	39,410	97,640	82,180	56,660

YEAR
or
Period

MEAN 526

ACRE-FOOT 380,499

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
1	1170	570	598	770	627	847	847	2120	1720	1476	2666	1926
2	1270	580	636	502	598	803	928	2630	1660	1340	2610	1920
3	1260	618	696	429	608	825	858	2260	1660	1270	2570	1900
4	1240	656	696	544	656	781	964	2200	1610	1340	2280	1940
5	1230	570	598	646	618	814	1120	2140	1610	1240	2240	2160
6	1080	665	636	738	676	825	1190	2100	1610	1240	2240	2440
7	1230	676	696	728	656	825	1140	2040	1610	1210	2280	2300
8	836	665	686	718	686	836	1080	1940	1660	1130	2140	2380
9	562	646	627	718	665	803	1040	2000	1680	1530	2160	2360
10	1270	781	656	686	636	847	1050	2000	1650	1980	2200	2340
11	1360	892	686	728	646	814	1100	1810	1600	2800	2180	2360
12	1330	928	696	707	636	792	1170	1790	1560	2910	2140	2360
13	847	928	618	718	665	847	1230	1790	1610	2950	2140	2380
14	792	916	618	738	696	814	1200	1750	1610	2680	2140	2340
15	375	904	646	580	880	781	1200	1840	1650	2780	2040	2060
16	646	598	976	636	825	847	1230	2000	1680	2660	1940	1830
17	485	398	892	696	892	847	1170	2060	1630	2470	2080	1420
18	390	627	869	738	858	858	1170	2040	1580	2440	2080	1400
19	375	636	880	676	858	858	1260	2080	1530	2610	1880	1480
20	536	580	825	646	858	858	1200	2080	1500	2630	1830	1500
21	1010	686	880	519	836	803	1270	1960	1480	2680	1770	1700
22	749	646	880	598	825	858	1360	1790	1420	2740	1700	1520
23	608	618	869	728	836	880	1390	1750	1450	2780	1700	1520
24	580	485	858	707	847	858	1450	1730	1420	2700	1700	1520
25	589	281	858	665	836	928	1530	1720	1340	2680	1700	1520
26	544	260	847	656	803	916	1980	1660	1530	2630	1720	1560
27	536	375	836	656	825	928	2060	1730	1600	2660	1720	1630
28	580	589	847	665	836	904	2100	1860	1440	2660	1730	1550
29	502	553	825	598	---	928	1940	1860	1390	2660	1860	1530
30	544	676	792	627	---	892	1700	1840	1550	2570	1960	1500
31	562	---	825	636	---	880	---	1860	---	2590	1900	---

MEAN	809	633	760	658	746	848	1,298	1,949	1,568	2,259	2,042	1,873
ACRES-FOOT	49,760	37,690	46,710	40,460	41,420	52,160	77,210	119,900	93,300	138,900	125,500	111,700

U. S. GOVERNMENT PRINTING OFFICE 16-50066-1

YEAR
or
PERIOD

MEAN 1,291
ACRES-FOOT 934,710

[illegible]

ACB-3 SET

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	428	418	432	415	400	361	361	1350	1090	1110	478	446
2	428	414	434	410	395	357	385	1640	1260	1030	472	441
3	423	418	436	401	390	353	410	1300	1520	1130	466	441
4	418	423	436	405	385	353	423	1380	1670	1030	456	432
5	418	423	432	405	380	349	466	1290	1930	900	456	436
6	418	428	436	410	385	353	565	1240	2180	892	456	436
7	418	523	441	415	390	349	547	1270	2520	876	450	446
8	423	461	436	415	385	349	529	1430	2260	740	436	446
9	432	456	436	415	380	349	488	1570	2200	658	428	441
10	423	693	441	418	385	353	494	1470	2470	610	428	446
11	418	604	446	418	390	349	478	1230	2240	578	517	446
12	418	517	446	418	385	349	517	1340	2370	553	604	450
13	418	505	428	432	385	349	565	1590	2640	559	547	461
14	418	505	436	423	390	349	572	1880	2850	547	414	466
15	418	483	432	410	401	345	541	1980	3510	535	397	472
16	418	441	436	423	405	349	523	2260	3320	529	393	472
17	418	420	428	418	389	349	500	1900	2960	529	389	472
18	418	420	423	423	377	357	494	1690	3020	553	397	483
19	423	466	423	418	369	353	488	1460	2930	547	414	517
20	428	466	428	418	365	349	478	1240	2440	535	436	547
21	423	466	428	381	357	349	494	1090	2410	529	414	610
22	418	466	436	410	357	349	572	1050	2110	529	414	565
23	418	466	428	423	361	353	604	1000	1900	523	428	529
24	418	461	432	428	361	353	598	1060	1880	517	446	511
25	418	446	428	418	361	353	724	1100	1860	517	441	517
26	418	432	428	410	361	353	908	1240	2120	505	428	547
27	418	436	428	423	361	357	980	1470	2360	505	428	572
28	418	432	428	428	357	357	876	1440	1710	494	428	553
29	418	430	423	414	---	373	876	1260	1340	488	428	535
30	418	430	423	410	---	377	964	1160	1340	483	428	511
31	418	---	420	405	---	373	---	1110	---	500	436	---

MEAN	420	465	432	415	379	354	581	1,403	2,214	646	443	488
ACRE- FEET	25,840	27,670	26,550	25,510	21,040	21,760	34,550	86,260	131,700	39,730	27,270	29,050

YEAR
 on
 Pencil
 MEAN
 ACRE-
 FEET

686
 496,930

	DATE	TIME	NAME	AGE	SEX	HEIGHT	WEIGHT	BLOOD PRESSURE	TEMPERATURE	PULSE	RESPIRATION
1						1290	682	794	34	138	
2						1760	770	682	43	124	
3						1350	972	746	89	117	
4						1400	1130	722	62	100	
5						1300	1350	601	48	96	
6						1220	1560	541	35	98	
7						1210	1860	460	28	100	
8						1350	1810	301	24	110	
9						1480	1730	181	23	168	
10						1540	1820	107	25	162	
11						1380	1640	72	70	149	
12						1250	1690	52	229	147	
13						1350	1870	46	225	138	
14						1520	2100	36	74	130	
15						1610	2740	27	60	138	
16						1900	2830	18	52	155	
17						1660	2410	23	43	152	
18						1470	2350	37	57	162	
19						1180	2300	38	110	185	
20						936	1890	27	144	245	
21						762	1760	23	138	355	
22						682	1540	23	124	355	
23						615	1300	21	130	324	
24						658	1210	26	144	342	
25						682	1200	34	144	337	
26						778	1320	26	138	360	
27						954	1860	33	144	380	
28						1010	1380	22	135	375	
29						909	954	24	127	350	
30					936	746	1000	23	124	337	
31						730		30	130		

DATE	TIME	TEMP.	WIND	MOON	STAR	PLANET	PLANET	PLANET	PLANET	PLANET	PLANET	PLANET
1							2250	1470	1830	1160	1160	1160
2							3490	1320	1550	1220	1220	1220
3							2810	1470	1500	1320	1320	1320
4							2690	1550	1540	1170	1170	1170
5							2390	1600	1240	1240	1240	1240
6							2330	1730	1090	1060	1060	1060
7							1910	2040	941	1010	1010	1010
8							1980	2130	708	910	910	910
9							2130	2110	716	963	963	963
10							2090	2210	860	1010	1010	1010
11							1550	2040	1360	1080	1080	1080
12							1460	1950	1420	1210	1210	1210
13							1520	2170	1490	1240	1240	1240
14							1650	2420	1250	1190	1190	1190
15							1860	3140	1350	1100	1100	1100
16							2250	3440	1380	1030	1030	1030
17							2310	3050	1210	1100	1100	1100
18							2040	2880	1150	1200	1200	1200
19							1900	2730	1160	1140	1140	1140
20							1780	2350	1190	1190	1190	1190
21							1540	2110	1190	1320	1320	1320
22							1280	1930	1200	1220	1220	1220
23							1190	1660	1250	1250	1250	1250
24							1240	1490	1250	1280	1280	1280
25							1240	1420	1190	1300	1300	1300
26							1260	1730	1190	1290	1290	1290
27							1520	2690	1170	1360	1360	1360
28							1830	2170	1170	1350	1350	1350
29							1830	1710	1150	1380	1380	1380
30							1630	2000	1080	1460	1460	1460
31							1540		1110	1460	1460	1460

MEAN	1,887	2,090	1,222	1,200	1,291
ACRE-Feet	116,000	124,400	75,140	73,810	76,840

MEAN
ACRE-Feet 466,190

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								54	59	148					
2								56	85	182					
3								59	151	216	40				
4								60	192	208	31				
5								56	222	200		12			
6								49	266	192	31				
7								49	214	178					
8								47	248	165	27				
9								60	336	132					
10								60	360	116	27				
11								99	380	121					
12								99	466	127	20	10			
13								99	461	132					
14								99	461	132	16				
15								111	466	124					
16								114	461	116					
17								106	461	122	14				
18								82	435	111					
19								72	474	100	16				
20								62	487	89	16				
21								60	487	78					
22								58	448	76	14				
23								58	410	73					
24								72	445	71					
25								60	385	66					
26								67	410	61					
27								67	385	56					
28								72	268	54					
29								70	214	51	12				
30								65	203	46					
31								60		41					

Mean								71.0	345	116	est. 20.0	est. 10.0
Area								4,370	20,510	7,110	1,230	595
Range												

1						8	29	127		
2						9	30	66		
3						9	74	86		
4						11	125	77		
5						5	187	68		
6						1	311	59		
7						0	311	62		
8						0	269	64		
9						9	226	50		
10						9	233	36		
11						205	199	39		
12						138	247	42		
13						72	356	44		
14						136	356	47		
15						181	430	32		
16						199	430	16		
17						158	311	0		
18						86	311			
19						69	365			
20						54	329			
21						45	311			
22						36	276			
23						34	199			
24						48	285			
25						40	233			
26						54	205			
27						59	170			
28						49	114			
29						42	72			
30						36	72			
31						32				

MEAN							59.2	237	26.9	0	0
ACRE- FEET							3,640	14,110	1,660	0	0

U. S. GOVERNMENT PRINTING OFFICE 16-40096-1

YEAR
OR
PERIOD

MEAN

ACRE-FEET 19,410

Year	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958
1	475	450	420	390	340	400	730	676	965	1360	930	584
2	492	450	420	360	338	415	2140	834	986	1240	972	595
3	486	450	430	303	335	400	2110	834	1150	1240	993	624
4	475	450	420	363	335	354	1880	762	1300	1260	979	618
5	475	450	400	380	335	363	1680	698	1490	1200	839	612
6	481	470	410	390	340	363	1160	648	1680	1150	818	635
7	486	520	435	395	345	363	770	641	2050	1080	853	647
8	486	490	430	400	350	358	608	722	2010	1030	853	677
9	481	480	430	405	341	345	528	826	1770	1010	846	689
10	481	650	420	410	337	354	498	913	1830	1000	846	734
11	469	610	425	420	337	350	486	868	1660	1090	832	760
12	463	550	425	430	318	350	486	818	1550	1160	832	786
13	463	510	410	430	320	363	504	985	1790	1200	818	806
14	463	510	400	430	325	345	516	1380	2070	1190	799	818
15	457	480	395	386	350	326	516	1480	2340	1180	773	825
16	457	450	395	372	354	368	498	1690	2390	1160	754	825
17	452	430	395	363	372	405	481	1580	2250	1120	728	799
18	457	440	395	365	376	481	486	1370	2140	1080	702	792
19	463	463	405	368	358	410	492	1200	2050	1060	708	780
20	469	475	400	368	358	386	504	1070	2010	1060	721	799
21	469	540	405	360	350	405	492	1000	1950	1060	747	832
22	457	534	415	345	354	463	475	951	1860	1060	714	773
23	457	498	420	370	354	683	486	909	1780	1040	689	695
24	469	498	415	380	354	818	469	923	1660	1020	708	659
25	486	486	410	380	354	818	498	944	1610	1010	689	659
26	486	415	390	381	358	868	627	993	1720	1000	659	665
27	481	400	381	381	358	802	722	1080	2040	979	635	659
28	475	400	370	372	363	683	770	1120	1760	965	618	683
29	469	400	345	350	---	690	662	1070	1480	951	612	641
30	463	420	341	348	---	498	620	1010	1480	937	595	624
31	452	---	370	345	---	475	---	1000	---	937	589	---

MEAN	471	479	404	379	347	474	763	1,000	1,761	1,091	769	710
ACRE- FEET	28,950	28,500	24,840	23,290	19,260	29,160	45,410	61,480	104,800	67,100	47,310	42,240

YEAR
or
Period

MEAN 721
ACRE-Feet 522,340

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1											152	73
2											147	63
3											201	37
4											158	15
5											138	11
6											65	14
7											38	13
8											66	12
9											62	13
10											80	6
11											105	6
12											143	23
13											171	25
14											141	26
15											135	37
16											155	49
17											186	167
18											152	135
19											188	153
20											217	163
21											264	226
22											279	271
23											284	
24											283	202
25											273	
26											248	207
27											230	
28											202	194
29											197	
30											172	
31											197	

MEAN												
ACRE-FOOT												

YEAR
OR
PERIOD

MEAN _____
ACRE-FOOT _____

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912
1	1600	986	1400	1550	1270	1520	1350	896	1630	3710	1000	1380	1350
2	1630	962	1350	1390	1250	1660	1840	1680	1280	3260	1210	1350	1260
3	1720	926	1390	1630	1230	1570	2880	2340	1190	2740	1460	1220	1220
4	1700	932	1440	753	1250	1470	2910	1960	1220	2590	1390	1230	1230
5	1680	956	1390	1000	1100	1350	3030	1820	1220	2380	1170	1360	1360
6	1640	956	1280	1250	1130	1380	3060	1610	1360	1940	1120	1450	1450
7	1560	1020	1360	1470	1300	1400	2730	1480	1630	1540	968	1340	1340
8	1700	1140	1380	1470	1380	1380	2020	1280	2240	1260	908	1370	1370
9	1530	1170	1350	1450	1360	1360	1630	1190	2340	896	836	1350	1350
10	1350	1140	1340	1400	1340	1340	1440	1280	2270	726	908	1260	1260
11	1700	1580	1380	1400	1320	1340	1320	1200	2390	710	932	1260	1260
12	1750	1660	1440	1370	1300	1280	1270	808	2100	1090	1080	1280	1280
13	1700	1610	1470	1400	1310	1290	1330	736	2160	1240	1190	1310	1310
14	1370	1580	1310	1400	1370	1300	1390	780	2450	1190	1240	1340	1340
15	1260	1580	1290	1400	1490	1240	1260	1140	2860	1090	1180	1250	1250
16	1060	1570	1370	1250	1540	1240	1190	1470	3610	1230	1120	1320	1320
17	1110	1280	1600	1300	1640	1340	1130	2210	4000	1110	1050	1220	1220
18	950	1260	1540	1350	1720	1410	1020	2260	3740	962	1140	1270	1270
19	1020	1500	1530	1400	1720	1400	956	2140	3500	926	1180	1430	1430
20	1060	1550	1540	1350	1660	1320	926	1990	3340	998	1280	1610	1610
21	1290	1560	1530	1300	1630	1260	854	1780	2960	998	1660	1880	1880
22	1560	1660	1580	1200	1570	1280	836	1480	2960	1090	1660	1780	1780
23	1420	1580	1610	1300	1580	1390	890	1270	2570	1230	1630	1740	1740
24	1300	1550	1560	1400	1540	1680	878	1180	2240	1160	1610	1700	1700
25	1270	1390	1560	1370	1530	1730	786	1190	2020	1110	1600	1720	1720
26	1260	1140	1560	1360	1500	1810	808	1160	2060	1090	1560	1940	1940
27	1260	1020	1540	1350	1440	1870	1300	1190	3110	1070	1550	2060	2060
28	1190	1160	1540	1350	1470	1740	1390	1570	3990	1060	1450	2100	2100
29	1120	1300	1540	1330	---	1660	1260	1900	3700	1060	1480	2080	2080
30	1030	1340	1430	1280	---	1590	974	1820	3510	1050	1500	---	---
31	992	---	1470	1280	---	1420	---	1720	---	962	---	---	---

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912
MEAN	1,380	1,302	1,454	1,307	1,426	1,452	1,489	1,501	2,522	1,402	1,277	1,495	1,495
ACRE- FEET	84,860	77,470	89,400	80,340	79,220	89,300	88,580	92,290	150,000	86,220	78,510	88,980	88,980

YEAR
MEAN
ACRE-
FEET

1,499

1,085,170

1	1780	1880	3190	3070	3100	3320	2850	2390	3820	11000	6500	7160
2	1930	1920	3300	3100	3050	3410	2850	2520	2670	9750	6900	7030
3	1980	2060	3300	2800	2890	3560	3700	4440	2290	8730	6770	6860
4	2030	2020	3300	2180	2800	3410	4470	5150	5190	8210	6630	7030
5	2030	2150	3390	2310	2950	3320	4550	4600	6050	7800	6500	7600
6	2060	2120	3340	2610	3150	3280	4710	3320	5570	6370	6370	8180
7	1970	2200	3240	3000	3320	3280	4680	2870	5280	5090	6240	8240
8	1860	2440	3340	3200	3680	3240	4290	2870	6310	5570	6310	7770
9	2010	2740	3320	3400	3500	3260	3680	3720	5950	5670	6500	7360
10	1980	2910	3300	3500	3300	3260	3360	5090	5410	5000	6400	7390
11	1890	3090	3280	3550	3250	3090	3240	5570	5570	4790	6340	7390
12	2020	3340	3410	3600	3200	3070	3010	4740	5830	5220	5630	7560
13	2030	3240	3410	3650	3250	3010	2970	3940	5730	5630	5380	7970
14	1930	3260	3410	3600	3200	3090	3050	4290	6020	5630	5700	8210
15	1700	3500	3260	3500	3100	3090	2950	5890	6500	5570	5630	8380
16	1600	3520	3110	3450	3260	3010	3070	6400	6700	5440	5540	8070
17	1430	3620	3150	3260	3340	3070	3010	6770	6630	5470	4970	7230
18	1410	3780	3300	3300	3470	3240	2850	6540	6600	5540	4660	7060
19	1330	3900	3280	3400	3560	3410	2740	5890	6110	5570	4820	6670
20	1220	3960	3260	3300	3540	3360	2580	5700	6270	5730	5410	7030
21	1400	3940	3240	3200	3500	3070	2780	5730	7000	5570	6240	5380
22	1720	3770	3240	2950	3450	2990	2800	4970	7200	5630	6570	4790
23	2140	3770	3280	3000	3430	2890	2490	4660	6800	5700	6540	3590
24	2090	3630	3260	3340	3410	3050	2180	4940	6110	5920	6240	2850
25	2140	3630	3190	3550	3360	3240	2090	4910	5920	6150	5700	2610
26	2200	3470	3220	3550	3390	3240	2370	4820	6370	6470	5060	2320
27	2210	3150	3150	3340	3360	3300	3320	4600	7670	6540	4630	2520
28	2140	2890	3120	3300	3320	3300	3680	4850	9430	6180	4240	2970
29	2050	2850	3100	3260	—	3130	3610	5120	10700	6180	4240	3170
30	2030	3000	3090	3190	—	3150	2950	4740	11600	5950	6770	3320
31	1960	—	3070	3130	—	3010	—	4440	—	6270	7330	—

Mean	1,880	3,058	3,253	3,213	3,290	3,198	3,229	4,725	6,310	6,269	5,895	6,124
Area	115,600	182,000	200,000	197,500	182,700	196,700	192,200	290,500	375,500	385,500	362,500	364,400

YEAR
 MEAN 4,206
 AREA 3,045,100

1	31	254	190	70	70	115	128	18	112	55	7	13
2	41	429	180	65	58	150	154	6	64	64	15	4
3	58	197	136	60	60	160	196	29	7	63	5	2
4	62	288	126	55	68	139	815	49	5	41	10	4
5	57	302	107	55	70	112	971	27	5	25	26	5
6	58	357	106	60	74	94	905	34	5	10	21	7
7	46	408	117	70	85	92	804	18	8	2	8	13
8	41	812	116	80	62	89	717	8	15	1	20	5
9	42	529	112	90	63	80	557	7	8	2	18	2
10	57	433	16	100	60	74	330	20	0	2	6	8
11	99	431	15	100	56	78	265	8	0	2	6	7
12	115	182	16	105	68	73	215	20	0	6	6	6
13	112	242	16	90	55	72	139	8	0	6	16	10
14	107	315	18	75	55	72	45	7	4	4	13	20
15	72	263	599	60	55	61	8	14	9	1	14	12
16	61	295	115	50	65	56	7	25	26	2	19	25
17	69	222	40	55	75	50	17	60	18	2	46	21
18	73	212	258	60	90	91	145	82	9	2	26	35
19	85	207	153	60	100	154	185	73	2	4	16	41
20	131	178	133	50	105	136	152	64	32	4	52	74
21	190	45	121	45	104	103	107	64	51	4	30	98
22	208	286	116	40	102	84	99	34	70	2	60	111
23	207	153	116	50	100	109	92	30	46	6	42	100
24	200	73	112	65	95	156	106	64	23	23	61	66
25	143	197	108	70	95	178	211	78	21	34	22	58
26	91	180	84	75	95	190	135	70	31	39	16	80
27	49	161	76	75	92	191	87	72	46	1	16	112
28	30	188	75	75	90	179	166	109	87	0	4	153
29	33	188	75	70	—	161	224	157	117	0	2	276
30	50	199	74	65	—	147	84	163	100	0	2	320
31	73	—	75	65	—	133	—	139	—	2	2	—

MEAN	86.8	274	116	67.9	77.4	115	269	50.2	30.7	15.2	19.6	56.3
ACRE- FEET	5,340	16,320	7,140	4,180	4,300	7,100	16,000	3,090	1,830	934	1,200	3,350

YEAR
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MEAN 97.7
ACRE-FEET 70,784

	998	1900	3200	2970	3080	3190	2940	365	1576	8625	2390	4035
1	414	2230	3350	3030	2920	3300	2800	270	548	7240	2860	3810
2	594	2110	3330	2170	2670	3570	3050	458	188	6030	3230	3700
3	688	2270	3330	1500	2550	3500	4650	2610	259	5620	3020	3500
4	756	2340	3330	1620	2790	3360	5100	2130	1650	4790	2920	3840
5	780	2380	3350	1750	2900	3210	5210	1360	1500	3990	2820	4560
6	820	2470	3310	2540	3130	3190	5300	380	866	1840	2700	5040
7	725	2960	3330	2780	3470	3190	5040	176	1360	1190	2670	4740
8	748	2940	3350	3030	3380	3180	4340	150	1850	1570	2960	4500
9	1000	3120	3240	3300	3140	3140	3740	692	1320	1170	3190	4290
10	1070	3180	3230	3330	3110	3110	3450	1940	1130	834	3300	4380
11	980	3180	3280	3470	3060	2980	3180	1560	1440	922	2780	4470
12	1070	3350	3310	3620	3130	2940	2980	747	1500	1380	2220	4810
13	1030	3430	3300	3470	2980	2960	2850	395	1530	1460	2180	5260
14	988	3500	3640	3310	2970	2960	2850	464	2070	1550	2320	5620
15	980	3660	3260	3310	3210	2900	2430	2080	2320	1390	2200	5990
16	932	3710	2940	3160	3360	2860	2340	2850	2400	1210	2110	5280
17	732	3890	3400	3160	3670	3060	2270	3360	2440	1310	1660	5150
18	695	3970	3260	3230	3820	3230	2270	2940	2130	1360	1570	4940
19	680	4160	3180	3140	3720	3400	2120	2680	1950	1550	2160	5040
20	868	4070	3180	3000	3550	3130	1830	2780	2640	1500	3300	5130
21	1140	3980	3160	2610	3470	2920	1850	2660	3310	1390	3840	4080
22	1760	3840	3180	2740	3420	2940	1380	2060	3260	1450	3990	3470
23	2000	3750	3180	3140	3420	2960	970	2300	2540	1510	3910	1990
24	1920	3750	3130	3450	3330	3180	1180	2560	2160	1820	3310	1650
25	1860	3660	3080	3470	3300	3280	874	2330	2220	2060	2670	1510
26	1830	3470	3060	3420	3280	3330	1080	2170	3570	2210	2010	1690
27	1860	3090	3030	3360	3190	3360	1830	2230	4970	2060	1500	2080
28	1770	2980	3030	3280	—	3300	1960	2730	6990	1940	1060	2660
29	1730	3120	3050	3210	—	2190	1020	2790	8490	1900	1990	2910
30	1770	—	2970	3100	—	3110	—	2250	—	2090	4010	—

MEAN	1,116	3,215	3,225	2,989	3,215	3,159	2,763	1,757	2,339	2,418	2,673	4,003
ACRE- FEET	68,600	191,300	198,300	183,800	178,600	194,200	164,400	108,000	139,200	148,700	164,300	238,200

YEAR
or
Period MEAN 2,732
ACRE-FEET 1,977,600

	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
1	104	172	245	294	298	339	379	284	148	91	35	47
2	104	177	248	284	387	359	399	301	134	84	36	55
3	104	197	248	221	280	379	448	298	99	79	39	55
4	91	197	256	245	287	359	471	323	68	78	40	55
5	81	197	256	319	276	327	498	359	79	83	49	52
6	101	230	252	335	280	319	502	347	52	56	52	52
7	104	256	252	304	280	319	494	339	58	26	34	52
8	106	242	259	294	280	319	453	245	72	58	45	52
9	108	239	266	290	280	319	431	112	65	51	38	50
10	106	259	262	276	276	319	407	101	62	44	43	62
11	106	266	308	276	280	312	391	90	63	21	41	70
12	108	270	440	287	276	301	383	69	62	22	35	70
13	112	266	444	298	276	308	379	48	63	15	39	65
14	108	273	419	312	259	315	383	50	40	11	24	65
15	110	304	327	304	256	308	387	51	60	11	23	81
16	106	287	308	301	273	304	387	54	65	29	38	93
17	106	259	308	312	301	308	383	56	72	31	22	91
18	88	256	298	304	359	331	363	54	75	28	26	101
19	112	259	301	301	399	411	359	79	62	29	39	110
20	112	273	304	308	403	419	347	106	58	29	54	106
21	106	280	301	298	423	391	331	108	62	20	30	119
22	116	290	298	294	423	395	319	97	63	19	34	114
23	148	287	304	298	419	411	290	97	57	28	30	110
24	156	287	312	304	391	453	259	101	54	26	27	110
25	161	284	315	315	363	453	270	97	46	29	55	123
26	163	273	308	339	343	448	294	97	49	35	50	144
27	163	270	308	343	339	444	343	102	65	21	50	191
28	163	259	301	343	331	423	351	136	72	17	37	209
29	161	248	290	347	—	407	301	156	76	32	44	197
30	161	248	276	327	—	395	284	151	84	41	47	180
31	158	—	280	315	—	395	—	151	—	39	44	—

MEAN	120	254	300	303	319	364	376	150	69.5	38.2	38.7	95.8
ACRE- FEET	7,400	15,080	18,430	18,620	17,730	22,390	22,390	9,240	4,140	2,350	2,380	5,700

U. S. GOVERNMENT PRINTING OFFICE 16-40008-1

YEAR
OR
PERIOD

MEAN 201

ACRE-FEET 145,850

1	16					0	17	26	72	64	43
2	16					0	17	27	76	64	43
3	16					0	17	31	79	60	43
4	6					0	17	39	79	57	45
5	0					0	17	47	79	56	46
6	10					0	17	52	79	56	46
7	16					0	17	57	78	56	42
8	16					0	17	61	77	54	41
9	16					0	17	66	77	52	41
10	16					0	17	67	75	49	42
11	16					0	17	71	78	50	42
12	16					0	23	73	79	51	40
13	16					10	30	73	77	51	40
14	16					10	35	73	79	51	43
15	9					3	36	73	73	46	40
16	0					9	37	73	89	45	38
17	0					14	37	79	89	46	30
18	0					13	37	82	86	46	25
19	0					13	37	82	84	46	25
20	0					13	37	40	80	46	25
21	0					13	37	62	79	46	26
22	0					13	37	81	83	41	24
23	0					13	36	81	84	39	23
24	0					16	35	80	78	39	23
25	0					17	33	80	75	38	22
26	0					17	33	80	75	37	19
27	0					17	33	80	75	37	14
28	0					17	33	79	71	37	14
29	0					17	29	79	65	37	14
30	0					17	26	73	66	37	17
31	0						26		65	40	

MEAN	6.5	0	0	0	0	0	8.1	27.5	65.6	77.5	47.5	32.3
ACRE- FEET	399	0	0	0	0	0	480	1,690	3,900	4,760	2,920	1,920

U. S. GOVERNMENT PRINTING OFFICE 16-60086-1

YEAR
ON
TERRACE
MEAN 22.2
ACRE-FEET 16,069

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	256	350	583	878	1163	1404	1613	1598	1301	924	471	102
2	254	351	593	885	1172	1414	1619	1586	1293	921	454	97
3	252	352	602	894	1180	1422	1627	1576	1283	917	440	92
4	250	350	609	901	1186	1432	1634	1566	1270	912	427	86
5	249	349	618	908	1196	1439	1645	1556	1256	907	413	80
6	252	350	626	915	1204	1446	1654	1550	1241	901	402	75
7	252	350	635	922	1211	1452	1671	1544	1224	892	395	71
8	248	352	646	930	1218	1458	1681	1536	1210	879	383	68
9	246	361	659	939	1227	1467	1687	1523	1194	863	370	66
10	245	371	669	948	1236	1473	1690	1509	1178	845	358	65
11	244	380	679	958	1244	1480	1697	1498	1163	826	347	62
12	247	390	689	969	1252	1488	1702	1491	1148	808	336	60
13	252	398	700	979	1262	1493	1705	1484	1132	788	324	58
14	255	408	711	989	1271	1500	1706	1474	1117	770	312	56
15	259	415	723	1000	1278	1507	1704	1459	1102	752	297	56
16	266	428	733	1010	1286	1513	1702	1441	1089	735	282	56
17	274	438	744	1020	1295	1520	1702	1427	1076	717	268	58
18	282	448	753	1029	1304	1521	1700	1414	1064	699	253	59
19	288	457	762	1037	1315	1523	1697	1402	1053	682	238	60
20	293	467	771	1047	1326	1527	1694	1393	1043	665	223	61
21	302	478	780	1056	1337	1534	1692	1385	1031	648	209	61
22	308	487	788	1066	1345	1539	1688	1377	1020	632	197	61
23	313	497	798	1074	1353	1546	1683	1368	1009	616	189	62
24	311	509	807	1083	1362	1554	1675	1360	998	597	181	62
25	312	521	815	1092	1371	1562	1665	1352	986	583	174	64
26	319	533	824	1102	1378	1569	1655	1344	971	567	166	68
27	326	544	835	1112	1386	1575	1638	1336	956	551	157	71
28	333	555	844	1122	1396	1582	1624	1329	944	533	146	77
29	340	564	855	1133	—	1588	1615	1322	935	518	134	83
30	347	573	864	1144	—	1597	1607	1315	928	502	122	90
31	350	—	874	1153	—	1605	—	1309	—	486	110	—

MEAN												
AGE												
FEET												

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4670	4230	1120	2520	1140	1700	2010	9000	9090	10700	12500	9290
2	4480	3990	1230	2080	1150	1700	2010	8320	9280	10800	12400	9090
3	4560	6240	1250	1100	1160	1710	1990	8180	9710	10600	12400	8950
4	4250	4990	2310	1110	1160	1870	1990	8140	10300	10400	12100	8720
5	126	4980	2330	1080	1170	2020	2170	8040	11200	10400	11900	8590
6	3620	4980	1280	1050	2660	2020	2740	8220	11600	11000	11700	8500
7	5750	4940	128	1040	1580	2010	3090	8360	11700	12300	11600	8400
8	5140	1180	1280	1040	1610	2020	3040	8320	11900	12900	11400	8320
9	4550	1180	1290	1080	1600	2020	2950	8270	12000	12800	11300	8180
10	4680	2240	1280	1080	1600	2040	2950	8180	12100	12700	11200	8180
11	2620	1970	1290	1100	1600	2040	3400	8450	12000	12700	11000	8090
12	1140	2030	1300	1100	1580	2060	4060	8900	11500	12600	11100	7960
13	2720	2060	1300	1110	1600	2060	5050	9710	11300	12600	11100	7860
14	2620	2060	136	1120	1630	2060	5430	11000	11300	12500	11100	7820
15	100	2040	1280	1110	1610	2060	5820	11500	11200	12500	11500	7780
16	65	106	1270	1340	1630	2500	6210	11500	10900	12400	11600	7820
17	62	2030	1240	1530	1630	4290	6600	11400	10700	12300	11700	7860
18	62	2030	1040	1530	1630	4290	6600	11300	10600	12300	11900	7910
19	62	2020	1260	1400	1640	4290	6600	11100	10500	12300	11900	7910
20	641	2010	1360	1110	1650	3150	6600	11000	10300	12300	11700	7910
21	1120	2010	1810	1110	1650	2060	7170	10800	10600	12200	11300	7910
22	1360	2030	1820	1120	1670	2040	8040	9900	11000	12200	10500	7960
23	5600	128	1820	1120	1670	2040	8770	9000	11300	12300	10200	4140
24	4880	855	1370	1120	1670	2040	9370	8770	11500	12400	10000	3090
25	1140	1540	1180	1110	1680	2040	9710	9090	11700	12700	10000	3270
26	1140	642	1170	1120	1680	2040	9860	9230	11900	12700	10200	3310
27	1770	983	1170	1130	1680	2040	9710	9180	11900	12700	10300	3340
28	1430	1790	1160	1130	1680	2020	9520	9130	11700	12900	10200	3060
29	1420	1240	1150	1120	—	2040	9320	9230	11300	13100	9950	2500
30	2650	126	1140	1130	—	2040	9320	9280	11000	13100	9610	2250
31	4980	—	1990	1130	—	2020	—	9040	—	12900	9370	—

MEAN	2,562	2,288	1,315	1,225	1,586	2,269	5,737	9,405	11,100	12,210	11,120	6,865
ACRE- FEET	157,500	136,200	80,830	75,310	88,090	139,500	341,400	578,300	660,700	750,700	684,000	408,500

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21880	14390	61280	59990	65450	66770	94490	94720	94490	99760	92390	80560
2	22690	17460	60850	64800	65450	67210	92390	93550	93790	99880	93550	77680
3	23910	26140	60200	64580	65340	65010	94600	94020	91920	97590	94950	75530
4	24310	30940	60740	64360	63920	66880	94720	92860	90640	97590	95910	71720
5	22280	40170	62490	64140	65450	67210	94950	92970	90290	96030	96390	69410
6	14690	47780	64360	63700	65890	68310	92620	92860	90530	93320	96990	66330
7	14690	53970	64900	63590	67870	67870	93440	93440	92160	91230	96990	64250
8	18850	59670	62490	63150	67430	69080	91460	94250	93090	93200	96630	59560
9	20460	59130	62930	62710	67870	70290	90760	91920	92390	94250	95910	59340
10	22280	58160	62820	62270	67650	70290	89360	93440	93440	95430	95180	57190
11	23910	59990	62600	62160	67100	71390	87850	94490	94950	96870	93790	55040
12	23400	61390	61500	61720	66990	72050	87270	93320	95180	97330	91920	53540
13	20250	62490	62820	61500	66550	71280	86100	92620	94950	97590	91230	52030
14	20150	64800	63150	61280	66110	72050	87730	90990	95070	98080	90640	50310
15	15280	65670	60850	61170	65890	73500	84470	90410	95670	98320	89600	49680
16	5150	66770	60530	61280	66000	74290	86450	90990	96150	98320	89830	51170
17	- 5850	64030	60420	62160	66330	77680	87620	91570	96030	98560	89830	54070
18	-14730	65670	60100	62600	66440	81960	86100	92970	96390	98320	90060	59340
19	-18050	66550	59560	63920	66440	85050	90990	93900	96630	97960	90410	64580
20	-19030	67760	59340	64360	66550	91340	92160	96150	95910	97960	90990	69520
21	-18050	68090	59670	64360	66880	92390	92040	97840	95070	97330	92040	74970
22	-18460	68090	60630	64140	66440	91690	92160	98560	94020	96630	91920	82640
23	-17060	67980	61500	64360	66550	92390	91690	97110	92740	96150	92160	89130
24	- 4770	65450	62380	64360	66440	91690	92160	96270	92160	94020	91690	90640
25	- 2310	64800	61720	64580	66770	92270	92620	95070	91920	93900	91920	88080
26	- 3040	65010	61500	64470	65670	92510	92160	94020	91460	92860	91230	90290
27	- 3320	62820	60850	64470	66880	92160	92270	93670	92620	92390	90760	90760
28	- 2400	63040	60200	64800	67210	92860	93200	93320	94950	89830	89130	94490
29	- 1850	63480	59990	65230	---	91460	94720	93090	96150	90760	87500	95180
30	- 1110	63480	59340	65560	---	93790	94950	93320	98800	91230	85400	95180
31	3620	---	59130	65450	---	93320	---	94490	---	92160	81510	---

MEAN												
ACCU-												
MEAN												

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	730						0	1140	1140	1510	1570	1230
2	742						0	957	1320	1640	1530	1230
3	718						0	860	1480	1630	1480	1220
4	708						0	794	1570	1610	1420	1250
5	696						0	740	1670	1600	1410	1230
6	682						113	698	1750	1660	1410	1190
7	724						295	676	1750	1720	1440	1130
8	734						336	690	1750	1740	1460	1060
9	702						418	722	1750	1750	1450	1020
10	656						511	799	1760	1760	1440	1010
11	644						536	874	1770	1760	1440	990
12	640						532	1050	1730	1760	1460	979
13	754						726	1300	1670	1760	1470	968
14	797						958	1410	1650	1760	1500	913
15	772						1020	1590	1590	1760	1550	744
16	700						1020	1600	1500	1770	1570	554
17	523						1090	1550	1470	1770	1570	496
18	340						947	1470	1460	1760	1600	512
19	191						867	1380	1420	1760	1630	525
20	0						935	1410	1390	1730	1600	537
21	0						970	1520	1410	1700	1510	510
22	0						1000	1500	1560	1690	1360	452
23	0						1170	1330	1640	1680	1300	389
24	0						1220	1310	1640	1650	1290	366
25	0						1200	1300	1700	1650	1320	366
26	0						1210	1230	1710	1670	1360	328
27	0						1170	1120	1600	1660	1380	310
28	0						1120	1080	1510	1620	1340	313
29	0						1100	1070	1310	1600	1310	315
30	0						1140	1000	1310	1600	1300	315
31	0							998		1600	1240	

YEAR	402	0	0	0	0	0	720	1,134	1,566	1,688	1,442	748
MOSES	24,700	0	0	0	0	0	42,850	69,750	93,180	103,800	88,680	44,530

YEAR
 MEAN 646
 ACRE-FEET 467,490

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	686						0	895	862	1120	1196	1165
2	718						0	744	1060	1220	1110	1140
3	725						144	679	1230	1260	1070	1110
4	733						288	671	1260	1310	1080	1100
5	692						376	637	1260	1350	1130	1070
6	574						427	584	1280	1380	1150	1030
7	592						341	535	1280	1410	1160	1000
8	660						301	460	1290	1140	1160	1010
9	697						273	503	1300	1290	1160	1050
10	742						294	527	1310	1300	1160	1030
11	747						303	627	1320	1330	1170	1010
12	715						394	712	1300	1340	1190	995
13	705						513	883	1280	1320	1200	983
14	705						637	1080	1270	1320	1210	916
15	317						747	1060	1240	1280	1220	750
16	0						785	1050	1230	1270	1250	586
17	0						728	1060	1230	1270	1230	527
18	0						663	1060	1230	1270	1250	532
19	0						640	1010	1240	1260	1260	425
20	0						640	925	1250	1260	1240	243
21	0						640	931	1240	1250	1100	254
22	0						637	907	1260	1280	992	265
23	0						632	877	1250	1290	983	275
24	0						666	777	1250	1290	977	284
25	0						799	822	1250	1310	998	290
26	0						802	862	1250	1320	1020	288
27	0						802	865	1190	1330	1080	292
28	0						802	822	1130	1320	1160	290
29	0						802	785	1110	1310	1170	339
30	0						871	731	1090	1300	1150	275
31	0							755		1260	1140	

Mean	323	0	0	0	0	0	532	801	1,225	1,289	1,141	684
Acres	19,850	0	0	0	0	0	31,630	49,260	72,880	79,260	70,140	10,700

U. S. GOVERNMENT PRINTING OFFICE 16-60006-1

YEAR _____ MEAN _____ 502
 ACRE-FEET _____ 363,720

1	3140	1330	1390	1350	1200	1850	1810	7260	7430	8070	8845	8525
2	3110	1200	1350	1300	1200	1810	1910	6910	7560	8290	8900	8120
3	3090	1190	1310	1250	1310	1950	1730	6640	7840	8640	8900	7900
4	3020	1380	1390	1250	1330	1770	1750	6830	8070	8610	8780	7960
5	3040	1310	1410	1250	1170	1760	2240	6990	8010	8990	8700	7820
6	3070	1360	1420	1280	1590	1790	2820	6970	8210	9200	8670	7790
7	3160	1500	1410	1300	1720	1890	3000	6780	8260	9800	8730	7620
8	3240	1500	1400	1350	1690	1810	2850	6620	8320	9610	8730	7540
9	3240	1480	1380	1410	1660	1810	2970	7020	8580	9450	8780	7400
10	2680	1420	1380	1390	1790	1850	3100	6970	8580	9260	8730	7180
11	1660	1320	1390	1390	1780	1810	3510	7340	8460	9230	8730	7100
12	1650	1270	1410	1320	1890	1810	3490	7620	8410	9290	8810	7020
13	1670	1240	1380	1360	1710	1900	3590	7700	8290	9290	8730	7050
14	1570	1260	1390	1300	1780	1820	3580	8100	8210	9320	8610	6970
15	4490	1300	1380	1320	1780	1800	4760	8580	8210	9290	8580	6540
16	4490	1320	1380	1210	1730	1850	4510	8410	7840	9200	8520	5840
17	5100	1320	1390	1220	1800	1840	4440	8100	8040	9170	8520	5240
18	3250	1440	1390	1310	1710	1940	4440	8290	8010	9170	8550	4030
19	1090	1420	1380	1320	1720	2100	4200	8070	8010	9230	8520	4510
20	1150	1790	1400	1300	1720	1970	4740	7790	7900	9290	8550	4420
21	1460	2030	1400	1160	1730	1940	5410	7680	8150	9390	8490	3890
22	1580	1810	1390	1220	1800	1920	6180	7680	8490	9480	8150	3750
23	1590	1700	1390	1200	1820	1920	6830	7320	8670	9450	7900	3770
24	1550	1360	1390	1220	1790	1930	7290	7020	8700	9570	7730	2820
25	1400	1280	1410	1240	1800	1840	7510	7210	8700	9480	7560	3030
26	1390	1340	1410	1200	1840	1860	7650	7340	8930	9570	8120	2860
27	1390	1350	1410	1200	1850	1850	7560	7340	8670	9570	8040	2120
28	1390	1360	1420	1270	1800	1850	7160	7340	8350	9930	8290	1800
29	1360	1400	1390	1240	—	1850	7080	7320	8150	9640	8410	1850
30	1360	1360	1380	1170	—	1850	7240	7400	7980	9480	8380	1830
31	1310	—	1380	1170	—	1820	—	7080	—	9290	8320	—

MEAN	2,345	1,411	1,390	1,271	1,668	1,863	4,512	7,410	8,234	9,266	8,493	5,470
ACRE- FEET	144,200	83,980	85,490	78,170	92,650	114,600	268,500	455,600	490,000	569,800	522,200	325,500

YEAR
—OR
PLOT

MEAN 4,462
ACRE-
FEET 3,230,690

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	67						0	86	141	213	226	173
2	67						0	70	156	213	224	163
3	67						0	70	166	213	220	163
4	67						0	70	176	213	211	152
5	67						0	70	190	213	211	152
6	57						0	63	202	223	211	152
7	57						0	63	202	228	210	148
8	57						0	63	202	228	204	149
9	57						0	63	202	228	204	144
10	57						0	63	207	232	204	134
11	57						0	74	207	236	204	125
12	57						0	84	202	236	204	113
13	57						20	84	207	237	204	113
14	57						22	91	207	237	208	113
15	14						35	100	207	238	207	103
16	0						40	122	207	238	207	86
17	0						48	122	212	238	211	76
18	0						48	137	212	238	211	71
19	0						48	132	217	238	208	66
20	0						48	132	217	238	208	63
21	0						48	137	217	238	199	56
22	0						48	137	230	245	188	36
23	0						48	148	230	245	178	12
24	0						55	148	230	245	178	0
25	0						55	148	235	245	173	0
26	0						55	148	235	245	173	0
27	0						61	148	235	231	173	0
28	0						61	144	236	231	173	0
29	0						76	134	236	231	173	0
30	0						86	135	228	231	173	0
31	0							136		231	173	

Mean	27.8	0	0	0	0	0	30.1	107	208	232	198	85.4
Acres-Feet	1,710	0	0	0	0	0	1,790	6,590	12,400	14,270	12,200	5,080

YEAR _____
 MEAN _____
 ACRES-FEET _____

74.6

54,040

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.72	6.54	6.98	8.10	7.84	8.10	10.55	10.33	10.90	11.04	11.22	10.46
2	9.76	6.92	7.06	8.02	7.76	8.08	10.28	10.54	10.90	10.88	11.15	10.66
3	9.60	7.00	7.20	7.94	7.72	8.05	10.30	10.78	10.92	10.55	11.12	10.71
4	9.66	6.28	6.94	8.10	7.14	7.20	9.76	10.65	10.82	10.54	11.10	10.60
5	9.70	6.88	7.32	8.32	7.55	6.60	9.52	10.78	10.91	10.41	11.00	10.58
6	9.68	6.84	7.46	8.36	7.64	5.65	8.68	10.95	10.64	10.43	10.99	10.58
7	9.50	6.48	7.54	8.38	7.82	5.40	9.24	11.06	10.70	10.36	10.91	10.70
8	9.52	6.60	7.60	8.46	7.95	5.75	9.28	10.85	10.74	10.86	10.90	10.42
9	9.48	6.68	7.76	8.48	8.00	5.80	9.45	10.34	10.62	11.15	10.90	10.70
10	9.80	6.64	7.82	8.45	8.00	5.60	9.63	10.30	10.68	11.12	10.98	10.69
11	10.05	6.94	7.83	8.46	8.08	6.05	9.98	10.26	10.82	11.10	10.99	10.64
12	10.52	7.02	7.10	8.48	8.28	6.00	10.50	10.46	11.00	11.12	10.92	10.60
13	10.72	7.00	7.96	8.42	8.26	5.90	10.75	10.53	11.10	11.08	10.92	10.54
14	10.84	7.06	8.04	8.45	8.26	5.78	10.76	10.44	11.10	11.08	10.96	10.56
15	10.92	7.00	8.10	8.42	8.02	6.06	10.03	10.36	11.12	11.04	10.93	10.92
16	10.72	7.25	8.10	8.38	8.10	6.00	10.53	10.60	11.19	11.09	10.90	11.12
17	10.68	7.45	8.12	8.30	8.04	6.60	10.91	10.73	11.15	11.10	10.93	11.07
18	10.52	7.50	8.24	8.02	7.96	6.68	10.74	10.68	11.12	11.08	10.94	10.90
19	10.90	7.42	8.25	8.00	7.90	7.38	10.68	10.82	11.10	10.97	10.96	10.86
20	10.32	7.38	8.26	7.76	7.90	7.84	10.70	10.99	11.12	10.97	10.95	11.25
21	10.40	7.18	8.25	7.68	7.96	8.30	10.72	11.01	10.96	10.98	11.03	11.20
22	9.78	7.23	8.16	7.88	7.84	8.46	10.57	11.12	10.86	10.91	11.14	11.25
23	9.08	7.32	8.22	7.98	7.72	8.68	10.49	11.10	10.90	10.95	11.15	11.18
24	8.32	7.28	8.26	7.94	7.85	9.12	10.48	10.90	11.00	10.91	11.04	11.32
25	7.85	6.92	8.28	7.94	7.94	9.48	10.36	10.64	11.00	10.92	10.80	10.52
26	7.05	6.82	8.28	7.92	7.86	10.00	10.38	10.49	10.92	10.97	10.52	10.64
27	6.30	6.48	8.26	7.85	8.00	10.32	10.60	10.48	11.12	11.00	10.48	10.34
28	6.06	6.58	8.26	7.86	8.15	10.90	10.64	10.55	11.24	10.81	10.35	10.40
29	5.95	6.70	8.28	7.70	-----	10.36	10.66	10.71	11.24	11.03	10.38	10.30
30	5.70	6.80	8.28	7.88	-----	10.65	10.40	10.87	11.21	11.12	10.42	10.70
31	5.98	-----	8.28	7.85	-----	10.50	-----	11.09	-----	11.18	10.32	-----

YEAR
OR
PERIOD

MEAN
ACRE-FOOT

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	58	60	54	73	48
2							0	58	60	65	73	48
3							0	58	59	65	73	49
4							0	58	55	65	73	48
5							0	58	68	37	73	58
6							0	58	68	66	73	59
7							0	60	66	64	72	59
8							0	60	66	63	72	54
9							0	60	66	61	72	54
10							0	60	66	56	72	54
11							0	60	66	60	72	54
12							0	60	66	50	71	54
13							0	60	65	67	70	54
14							0	60	66	66	70	51
15							0	60	66	68	68	51
16							0	62	64	71	68	45
17							0	60	64	64	67	45
18							0	61	64	71	66	45
19							0	61	64	72	64	33
20							0	61	62	72	64	33
21							0	61	62	71	61	33
22							0	61	62	70	61	34
23							0	60	62	70	60	34
24							0	60	66	71	59	33
25							15	60	66	70	59	0
26							15	60	66	71	59	0
27							31	59	66	68	50	0
28							32	59	66	72	49	0
29							48	59	66	73	49	0
30							47	58	66	73	49	0
31								60		73	47	

Mean	0	0	0	0	0	0	6.27	59.7	64.3	65.8	64.8	37.7
Acres	0	0	0	0	0	0	373	3,670	3,830	4,040	3,980	2,240

YEAR
 MEAN 25.1
 ACRES 18,133

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	168	171	214	232	210
2							0	168	194	214	232	204
3							0	168	196	216	228	200
4							0	168	198	216	217	200
5							0	168	207	235	232	200
6							0	160	220	251	235	200
7							0	154	220	255	238	200
8							0	149	224	255	238	200
9							0	146	237	255	238	194
10							0	146	235	255	238	180
11							0	146	235	255	238	174
12							0	150	235	259	234	174
13							0	173	223	261	231	168
14							0	190	212	259	230	161
15							50	186	211	252	230	146
16							50	186	201	249	233	137
17							56	186	204	249	240	124
18							0	186	206	249	240	109
19							0	186	206	249	240	94
20							45	186	206	260	240	90
21							78	186	213	264	240	90
22							89	186	218	264	234	90
23							115	186	218	264	230	90
24							144	179	218	264	230	90
25							154	171	228	264	230	90
26							154	171	222	259	230	72
27							154	171	220	256	230	28
28							154	171	216	256	230	0
29							154	171	212	256	223	0
30							158	171	212	256	215	0
31								171		240	215	

Mean	0	0	0	0	0	0	51.8	171	214	250	232	130
Acres	0	0	0	0	0	0	3,080	10,520	12,730	15,370	14,260	7,770

YEAR _____ MEAN _____ 88.0
 PERIOD _____ ACRES-FT 63,730

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	1250	1280	1310	1540	1300
2							0	1260	1300	1320	1540	1310
3							0	1260	1350	1370	1550	1290
4							0	1250	1390	1400	1550	1280
5							0	1270	1390	1420	1510	1280
6							0	1260	1370	1450	1490	1280
7							0	1250	1370	1450	1480	1260
8							0	1230	1370	1490	1460	1230
9							0	1200	1360	1490	1450	1250
10							0	1210	1360	1490	1410	1250
11							0	1250	1370	1520	1380	1240
12							0	1280	1370	1530	1380	1240
13							240	1280	1380	1550	1380	1240
14							490	1270	1390	1560	1380	1250
15							530	1300	1420	1560	1340	1240
16							560	1370	1430	1570	1330	1230
17							570	1390	1430	1570	1330	1190
18							570	1350	1430	1560	1330	1150
19							570	1340	1420	1560	1330	1140
20							610	1340	1420	1570	1330	1170
21							630	1320	1410	1570	1330	1170
22							630	1230	1400	1570	1330	1140
23							740	1240	1390	1570	1310	1100
24							800	1220	1390	1570	1290	1080
25							920	1220	1390	1580	1270	1030
26							1060	1240	1380	1570	1270	1020
27							1090	1240	1370	1580	1280	1010
28							1080	1220	1330	1570	1290	1010
29							1160	1220	1310	1590	1300	670
30							1220	1270	1310	1580	1300	0
31								1290		1560	1300	

Mean	0	0	0	0	0	0	449	1,268	1,376	1,518	1,379	1,135
Acres	0	0	0	0	0	0	26,720	77,990	81,880	93,320	84,810	67,540

Year 1957
 Mean 597
 Acres-Feet 432,260

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	750	760					0	740	790	750	860	840
2	740	780					0	770	800	710	870	850
3	250	780					0	770	760	760	880	850
4	0	740					0	760	790	810	890	820
5	0	760					0	750	800	880	850	840
6	0	730					0	760	770	870	820	840
7	0	700					0	790	770	860	810	850
8	0	630					0	770	790	910	820	790
9	0	590					0	700	780	930	820	840
10	0	580					0	690	800	910	820	850
11	0	590					0	710	820	910	800	840
12	0	600					0	730	840	970	800	840
13	0	600					0	740	840	930	820	830
14	0	640					110	720	840	970	830	860
15	0	630					330	710	840	960	810	890
16	0	650					380	760	850	940	810	900
17	0	640					400	800	820	920	820	890
18	0	640					680	790	830	910	830	840
19	0	640					870	780	830	900	840	840
20	0	210					810	800	830	890	850	880
21	0	0					740	800	810	900	870	870
22	0	0					720	790	800	920	840	810
23	420	0					760	770	800	920	840	750
24	720	0					790	750	800	900	850	700
25	710	0					780	700	790	910	800	630
26	740	0					800	690	780	910	760	620
27	820	0					830	710	790	900	790	560
28	930	0					830	710	780	870	800	570
29	900	0					770	730	760	910	820	370
30	760	0					740	760	770	910	830	0
31	730							800		880	800	

Mean	273	430	0	0	0	0	378	750	802	891	827	762
Acres	16,800	25,570	0	0	0	0	22,490	46,120	47,740	54,780	50,900	45,340

YEAR _____ MEAN _____ 428
 PERIOD _____ ACRES-FEET _____ 309,740

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	1230	1260	1290	1520	1280
2							0	1240	1280	1300	1520	1290
3							0	1240	1330	1350	1530	1270
4							0	1230	1370	1380	1530	1260
5							0	1250	1370	1400	1490	1260
6							0	1240	1350	1430	1470	1260
7							0	1230	1350	1430	1460	1240
8							0	1210	1350	1470	1440	1210
9							0	1180	1340	1470	1430	1230
10							0	1190	1340	1470	1390	1230
11							0	1230	1350	1500	1360	1220
12							0	1260	1350	1510	1360	1220
13							224	1260	1360	1530	1360	1220
14							474	1250	1370	1540	1360	1230
15							513	1280	1400	1540	1320	1220
16							546	1350	1410	1550	1310	1210
17							556	1370	1410	1550	1310	1170
18							551	1330	1410	1540	1310	1130
19							558	1320	1400	1540	1310	1120
20							594	1320	1400	1550	1310	1150
21							618	1300	1390	1550	1310	1150
22							614	1210	1380	1550	1310	1120
23							721	1220	1370	1550	1290	1080
24							788	1200	1370	1550	1270	1060
25							907	1200	1370	1560	1250	1010
26							1040	1220	1360	1550	1250	998
27							1070	1220	1350	1560	1260	990
28							1060	1200	1310	1550	1270	990
29							1140	1200	1290	1570	1280	656
30							1200	1250	1290	1560	1280	0
31								1270		1540	1280	

MEAN	0	0	0	0	0	0	439	1,248	1,356	1,498	1,359	1,116
ACRE- FEET	0	0	0	0	0	0	26,130	76,760	80,690	92,090	83,580	66,390

YEAR _____ MEAN _____ 588
 ACRE-
 FEET _____ ACRE-FEET _____ 425,640

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1290	0	484	463	436	409	0	1840	2200	2640	2940	2510
2	1300	0	484	463	433	412	0	1700	2290	2650	2930	2450
3	1680	0	481	469	421	418	484	1710	2360	2700	2930	2430
4	1860	0	478	478	427	442	992	1710	2360	2740	2880	2430
5	1870	0	487	484	448	382	1510	1710	2330	2720	2820	2440
6	1810	0	475	433	433	374	1500	1830	2290	2730	2810	2450
7	1730	0	475	403	442	362	1610	1970	2310	2720	2800	2440
8	1710	0	475	406	445	397	1270	1930	2410	2810	2810	2360
9	1680	0	508	365	442	403	1100	1860	2580	2890	2810	2290
10	1680	0	523	342	442	382	1110	1910	2660	2880	2820	2220
11	560	0	520	342	448	412	1160	2090	2570	2880	2820	2150
12	0	0	499	342	445	409	1160	2360	2520	2880	2790	2140
13	0	0	529	342	439	388	1160	2460	2530	2880	2800	2120
14	0	0	520	339	439	397	1060	2450	2510	2870	2800	1890
15	0	0	520	339	436	409	1010	2450	2540	2880	2720	1760
16	0	0	493	336	433	418	1030	2410	2540	2880	2700	1750
17	0	0	478	333	433	433	1020	2340	2540	2880	2700	1740
18	0	0	481	327	433	433	983	2310	2540	2880	2720	1460
19	0	0	484	365	436	388	979	2320	2510	2880	2720	1030
20	0	431	484	385	439	359	1260	2310	2490	2900	2720	897
21	0	681	484	380	439	342	1530	2290	2480	2890	2720	908
22	0	655	484	382	436	336	1960	2300	2590	2880	2700	879
23	0	635	484	385	433	333	2330	2290	2640	2890	2670	883
24	0	558	481	385	439	348	2640	2210	2640	2880	2650	814
25	0	536	484	385	421	219	2530	2180	2620	2900	2580	712
26	0	526	484	385	415	167	2280	2190	2660	2910	2570	503
27	0	529	481	397	418	167	2100	2180	2680	2920	2600	382
28	0	542	481	397	418	100	2050	2190	2660	2890	2570	307
29	0	529	484	406	—	0	2050	2200	2660	2940	2580	382
30	0	466	484	409	—	0	2050	2190	2650	2950	2570	628
31	0	—	478	421	—	0	—	2180	—	2950	2520	—

MEAN	554	203	490	390	435	324	1,398	2,131	2,512	2,848	2,735	1,578
ACRES- FEET	34,060	12,080	30,120	23,980	24,140	19,910	83,140	131,000	149,500	175,100	168,100	93,930

YEAR

MEAN

1,305

ACRES-FEET

945,060

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1540	60	480	433	410	399	57	2990	2970	3300	3570	3170
2	1540	22	478	431	410	399	299	2730	3030	3420	3550	3130
3	1550	22	475	430	415	415	561	2690	3080	3560	3570	3110
4	1540	22	470	430	418	415	815	2760	3120	3630	3530	3120
5	1540	22	472	430	410	394	1140	2820	3140	3630	3520	3070
6	1540	502	459	430	410	389	1250	2870	3200	3600	3540	3000
7	1540	914	462	430	410	389	1420	2850	3250	3590	3540	2980
8	1550	920	459	435	415	399	1540	2870	3290	3610	3540	2970
9	1570	927	462	435	420	402	1590	2910	3240	3600	3540	3000
10	1390	806	467	438	415	407	1520	2980	3230	3600	3540	2930
11	1180	654	467	433	418	407	1450	3040	3140	3580	3550	2850
12	1090	582	467	431	423	407	1480	3040	3060	3580	3550	2810
13	1010	556	467	436	425	407	1650	3110	3060	3580	3540	2820
14	981	545	467	433	423	407	1880	3140	3060	3610	3530	2780
15	978	529	464	433	420	407	2190	3210	3090	3660	3510	2500
16	960	524	462	431	412	412	2320	3250	3090	3650	3540	2320
17	1290	532	454	428	402	423	2300	3220	3040	3610	3510	2290
18	1440	518	454	433	402	472	2230	3220	3040	3610	3490	1820
19	1410	518	454	428	399	472	2230	3230	3030	3650	3500	1570
20	1390	508	451	418	399	483	2230	3180	3070	3650	3480	1620
21	1360	513	451	412	399	526	2550	3150	3140	3650	3450	1380
22	1120	516	444	418	399	551	2740	3140	3230	3670	3430	1250
23	1010	510	433	420	397	579	2820	3080	3270	3660	3360	1180
24	914	510	433	412	394	593	2990	3060	3380	3640	3310	1140
25	865	499	436	407	399	554	3100	3060	3480	3650	3280	1110
26	859	526	433	405	405	470	3010	3070	3480	3640	3300	1060
27	856	521	436	407	402	420	2990	3040	3450	3650	3300	1050
28	837	513	433	420	402	157	2990	2970	3410	3640	3300	930
29	683	505	433	415	—	57	2970	2910	3370	3690	3290	812
30	510	497	433	410	—	57	3060	2870	3300	3650	3320	784
31	228	—	433	410	—	57	—	2930	—	3620	3220	—

MEAN	1,170	493	454	425	409	398	1,979	3,013	3,191	3,609	3,458	2,152
ACRE-FOOT	71,940	29,340	27,950	26,110	21,720	24,450	117,800	185,200	189,900	221,900	212,600	128,000

YEAR
1920

MEAN 1,738
ACRE-FOOT 1,256,910

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	200	438	536	718	630	1150	1960	271	14	15	30	282
2	198	682	543	642	626	1150	1880	274	13	11	21	285
3	198	912	547	588	611	1770	1750	277	13	9	20	293
4	198	912	543	599	577	2210	548	277	13	9	17	298
5	198	954	562	611	615	2200	113	274	13	9	16	304
6	198	528	565	615	623	1460	52	285	12	9	15	304
7	194	271	573	619	638	1100	52	282	12	9	14	304
8	192	290	584	678	798	1100	53	269	13	12	13	304
9	196	290	592	780	967	1120	54	102	12	20	13	301
10	198	288	599	834	967	1080	55	47	12	20	13	310
11	223	438	599	834	974	1160	55	47	13	17	14	307
12	424	525	565	828	1150	1160	56	48	16	18	13	307
13	702	521	607	822	1230	1110	58	55	13	16	13	307
14	870	528	607	828	1230	1140	62	54	12	18	13	313
15	3260	521	607	828	1220	1180	63	51	15	15	13	316
16	4100	539	615	822	1220	674	60	54	26	16	13	321
17	4070	562	615	816	1220	558	67	52	13	15	14	268
18	2420	607	698	786	1200	592	67	49	12	16	14	10
19	488	780	748	769	1160	603	67	26	11	16	15	8
20	282	912	758	702	1150	682	71	24	12	16	13	17
21	906	988	748	607	1160	714	71	30	10	15	13	45
22	1540	988	748	584	1140	737	72	49	9	15	14	508
23	1400	988	748	666	1020	571	72	42	10	15	15	466
24	1260	974	753	674	995	301	72	17	12	15	14	181
25	1130	936	748	670	1020	310	68	10	12	16	13	13
26	974	906	758	670	988	316	67	10	11	16	98	11
27	459	584	753	646	1020	327	109	11	14	16	282	10
28	184	506	753	619	1110	1280	279	11	30	15	277	10
29	243	514	753	630	-----	1970	274	12	30	18	293	10
30	266	525	753	638	-----	1980	271	13	24	19	288	369
31	279	-----	753	634	-----	1960	-----	16	-----	28	279	-----

MEAN	885	647	656	702	974	1,086	283	98.0	14.4	15.3	61.1	225
ACRE-Feet	54,450	38,490	40,330	43,150	54,070	66,770	16,860	6,030	857	940	3,750	13,410

MEAN 468
ACRE-Feet 339,107