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WATER DISTRIBUTION
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DISTRICT NO. 36

SNAKE RIVER, IDAHO

1957

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INTRODUCTION

The annual meeting of Water District No. 36 was held at Idaho Falls on March 4, 1957. Lynn Crandall was re-elected as Watermaster for the ensuing year and the following were elected as members of the Committee of Nine:

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

Advisory members: Merle Tillery, representing Bureau of Reclamation; Lawrence Duffin, Minidoka Irrigation District; and E. G. Gooding, American Falls Reservoir District No. 2.

Principal resolutions adopted at the annual meeting were as follows:

1. Approved the stored water transmission loss schedule of $2\frac{1}{2}\%$ Moran to Heise; 4.4% Heise to Lorenzo; 0.5% Lorenzo to Shelley; 6% Shelley to Blackfoot; 4.0% Henrys Lake to Island Park; 2.5% Island Park to Ashton. The Moran to Heise loss was subdivided, 1.7% Moran to Palisades and 0.8% Palisades to Heise.
2. Adopted a budget of \$49,548 to cover expenses of operating the District during the ensuing year of which it was estimated that at least \$15,000 would be available from Federal and State stream gaging funds.
3. Approved the proposed Burns Creek Reservoir provided that the authorizing legislation include a provision for the assumption by the Palisades-Burns Creek power system of one-third of the cost of winter power losses at Minidoka dam.
4. Opposed construction of the Hells Canyon project by the Federal Government.

5. Requested flood control action by the Federal Government on Teton River and Henrys Fork.

Construction work on Palisades dam was sufficiently advanced so that a total storage content of 966,700 acre-feet was attained on July 23, 1957, of which a portion was retained American Falls water. There were 622,700 acre-feet still remaining in the Palisades reservoir on September 30, 1957, of which 200,000 acre-feet was dead storage for minimum power head. No allotments of Palisades storage were made in 1957 except 1,352 acre-feet rented by the Bureau of Reclamation. The water stored in Palisades under its priority right in 1957 will be held over for general allotment in 1958 to rights in that reservoir if the 1958 run-off is insufficient to fill Palisades to capacity. The operation of Palisades reservoir in 1957 was largely geared to meet construction requirements and for testing the generating equipment and still retain as much storage as possible without infringing on these prior requirements.

The snow surveys during the winter indicated somewhat above normal snow supply but there were 374,000 acre-feet spilled from Jackson Lake to Palisades between November 16 and December 24, 1956. This nearly drained Jackson Lake to provide for repairs to the upstream concrete face and incidental flood control space there that was considered necessary.

Precipitation was generally well above normal from April thru June and an ample water supply was available thruout the District.

All reservoirs, except Palisades, filled to capacity and about 1,870,000 acre-feet, in excess of Idaho Power Company rights, spilled to waste past Milner in the year ending September 30, 1957. The spill

would have been greater except for Palisades storage. Owing to large reservoir holdovers in the fall of 1956 it was possible to release sufficient flow from American Falls reservoir all winter to fill the 2,700 second-foot power right at Minidoka dam.

Regulation of priority rights began July 6, the 1916 priority floodwater rights were cut July 8, and the low point of priority cuts was reached September 14-20 when the May 1, 1892 rights were cut off.

The cooperative well measuring program in the American Falls basin was continued during the year on the same basis as previously.

The Committee of Nine, at a meeting held in Burley on December 15, 1956, approved the memorandum of understanding between the Bureau of Reclamation and office of Indian Affairs relating to method of calculating water use to be charged to the Fort Hall Michaud Indian project.

PERSONNEL

The persons engaged in water distribution during 1957 were as follows:

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

A. W. Heath	Supt. Am. Falls Res., Bureau of Reclamation
James L. Braman	Supt. Jackson Lake, Bureau of Reclamation
S. Geo. Pilcher	Supt. Island Park Res., Bureau of Reclamation

Gage Readers: Foster B. Randall, F. S. Cowley, D. R. Anthony, Mrs. Irvin Siepert, Jos. H. Bahr, Jr., Darrell Washam, T. E. Culley, Earl D. Sears, Oscar Green, A. C. McLane, B. J. Morton, M. R. Potter, E. L. Dutton, A. K. Draper, Scott M. Butler.

SNOW SURVEYS

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

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

<u>Year</u>	<u>Jan. 1</u>		<u>Feb. 1</u>		<u>Mar. 1</u>		<u>April 1</u>	
	<u>S</u>	<u>W</u>	<u>S</u>	<u>W</u>	<u>S</u>	<u>W</u>	<u>S</u>	<u>W</u>
<u>Moran (Snake River)</u>								
1948							37	10.5
1949							40	14.5
1950							45	13.1
1951	30	6.1	40	9.8	41	12.7	37	12.4
1952	34	7.4	39	10.4	45	12.8	44	14.4
1953	19	4.1	38	10.6	42	12.4	35	12.7
1954	19	4.6	37	10.4	42	13.0	46	14.5
1955	20	2.7	24	4.7	34	7.8	36	10.7
1956	35	9.6	50	14.0	54	16.6	47	18.5
1957	24	5.1	41	8.2	41	12.1	42	13.6
Normal	23	4.5	32	8.0	37	10.4	34	11.8

<u>Moran Canyon (Snake River)</u>								
1948							66	22.1
1949							65	23.9
1950							67	21.9
1951	-	-	53	15.8	64	21.8	68	25.7
1952	-	-	59	16.4	62	20.3	70	24.1
1953	-	-	57	16.7	73	22.8	61	24.2
1954	-	-	51	14.5	61	19.4	72	23.1
1955	-	-	31	7.3	50	12.6	54	17.3
1956	-	-	76	22.8	84	27.9	75	30.4
1957	-	-	63	14.9	65	20.1	70	24.6
Normal	35	7.2	48	13.0	58	17.8	60	21.3

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>Arizona Station (Snake River)</u>								
1948							59	18.6
1949							60	22.1
1950							62	20.5
1951	27	6.3	47	11.9	51	16.2	48	16.3
1952	48	11.2	55	15.8	64	20.0	68	24.3
1953	25	5.4	50	13.8	62	18.7	51	19.8
1954	23	5.7	46	12.9	57	17.5	65	20.9
1955	20	3.5	29	7.3	51	12.5	52	17.1
1956	48	14.2	69	21.8	74	26.1	68	27.8
1957	29	7.3	53	12.3	62	18.8	63	22.1
Normal	32	6.6	43	11.6	52	15.7	52	18.1

Huckleberry Divide (Snake River)

1948							61	18.4
1949							70	24.7
1950							77	24.0
1951	30	7.1	50	13.0	58	17.2	58	20.2
1952	48	11.0	59	16.7	65	21.0	73	24.8
1953	27	6.2	52	15.1	65	19.5	53	20.0
1954	26	6.5	48	12.6	55	17.0	69	21.0
1955	23	4.0	34	8.5	54	13.2	56	17.9
1956	55	15.4	73	22.9	77	26.2	69	28.0
1957	31	7.9	52	12.9	64	18.1	63	21.2
Normal	35	7.4	46	12.6	57	17.0	61	19.8

Snake River Station (Snake River)

1948							67	20.7
1949							77	26.8
1950							74	23.5
1951	32	7.7	54	14.3	63	19.5	63	23.2
1952	50	11.9	60	16.4	65	20.3	75	24.7
1953	30	5.9	52	14.7	66	20.0	54	21.1
1954	29	7.0	51	14.4	60	18.9	77	24.1
1955	25	4.6	34	8.9	55	13.8	59	19.3
1956	53	15.0	77	23.9	80	28.2	72	30.0
1957	32	8.8	58	14.3	67	20.7	69	24.4
Normal	35	7.5	48	12.8	58	17.5	61	20.4

Lewis Lake Divide (Snake River)

1948							105	37.4
1949							130	52.1
1950							143	53.0
1951	70	21.2	99	32.3	116	42.2	117	50.4
1952	88	25.2	112	36.2	122	45.8	129	52.8
1953	53	12.1	103	31.2	110	39.8	106	45.1
1954	53	14.9	106	31.9	116	41.2	143	52.3
1955	41	9.7	53	16.6	97	26.9	106	38.7
1956	105	35.8	139	50.5	164	61.3	143	65.8
1957	53	17.6	88	27.3	119	41.1	123	48.0
Normal	63	16.0	84	27.0	104	35.9	113	44.0

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>Aster Creek (Snake River)</u>								
1948							83	27.2
1949							109	41.5
1950							116	43.6
1951	-	-	76	24.5	94	31.9	97	39.9
1952	74	19.4	97	29.9	99	34.5	102	41.3
1953	41	9.1	84	24.5	85	30.7	80	33.0
1954	35	9.3	81	23.4	90	31.0	112	38.0
1955	31	6.4	40	10.7	82	20.1	92	30.6
1956	85	27.3	106	36.8	125	44.5	113	48.7
1957	40	12.3	69	19.0	97	29.9	96	35.3
Normal	47	11.4	63	19.3	77	26.1	86	32.3

Colter Creek (Snake River)

1948							-	-
1949							-	-
1950							75	27.3
1951	38	8.6	56	16.0	67	21.8	70	25.6
1952	58	14.0	63	18.2	66	23.8	80	26.3
1953	30	5.9	60	17.5	65	22.0	60	23.9
1954	36	9.0	59	16.8	73	25.2	83	28.5
1955	24	4.8	37	10.1	64	12.4	64	20.7
1956	61	17.2	85	24.0	94	28.0	80	33.1
1957	39	10.4	59	15.7	76	25.4	81	29.0
Normal	39	8.4	52	14.4	64	19.3	64	23.0

Glade Creek (Snake River)

1948							72	23.1
1949							80	29.0
1950							74	25.3
1951	40	9.4	51	15.1	68	21.1	68	24.8
1952	52	12.8	65	18.1	71	23.5	84	28.2
1953	34	6.8	56	16.8	61	20.6	61	22.4
1954	30	7.3	54	15.2	62	19.9	75	24.8
1955	26	4.9	36	9.3	60	14.9	64	20.3
1956	55	15.8	80	25.8	89	29.9	80	33.1
1957	33	9.5	59	14.9	72	22.1	74	26.4
Normal	40	8.8	53	15.0	65	19.8	67	23.6

Year	Feb. 1-6		Mar. 1		Mar. 23-29	
	S	W	S	W	S	W
<u>Turnin Meadows (Buffalo River)</u>						
1948	31	7.5	-	-	42	10.0
1949	36	9.2	-	-	37	12.3
1950	32	7.1	-	-	51	13.0
1951	36	8.6	44	12.4	44	13.4
1952	34	8.5	40	10.2	48	13.5
1953	34	8.4	36	11.1	48	13.5
1954	32	7.9	39	10.8	46	12.6
1955	21	3.9	28	6.1	32	7.9
1956	44	12.0	54	14.1	42	14.9
1957	39	8.3	39	10.1	41	11.0
Normal	30	6.9	34	8.6	38	10.9

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

Year	Feb. 1-6		Mar. 1		Mar. 23-29	
	S	W	S	W	S	W
<u>Four Mile Meadows (Buffalo River)</u>						
1948	34	8.6	-	-	48	12.3
1949	40	10.0	-	-	50	15.1
1950	46	11.1	-	-	63	16.8
1951	41	10.3	49	14.5	52	16.4
1952	42	10.4	50	13.4	59	15.9
1953	36	8.8	38	11.2	40	12.5
1954	37	9.6	42	11.4	52	14.6
1955	26	5.3	34	7.0	42	10.6
1956	49	13.4	59	16.9	53	18.4
1957	39	8.4	44	10.4	48	13.1
Normal	35	8.3	41	10.8	47	13.4

<u>Black Rock (Buffalo River)</u>						
1948	48	14.3	-	-	69	20.3
1949	52	15.7	-	-	72	23.6
1950	67	18.4	-	-	89	28.9
1951	64	18.5	72	25.8	79	30.2
1952	58	16.0	65	19.8	78	24.7
1953	53	14.2	53	18.1	56	20.2
1954	55	15.7	64	19.3	76	24.4
1955	36	7.8	54	12.5	61	18.2
1956	69	21.9	85	27.5	78	31.9
1957	53	12.6	57	16.1	65	20.5
Normal	47	12.6	56	17.0	67	22.4

<u>Twoqwotee Pass (Buffalo River)</u>						
1948	56	17.6	-	-	81	27.4
1949	64	20.9	-	-	90	32.1
1950	88	26.4	92	31.7	116	38.4
1951	79	23.9	92	32.4	100	39.9
1952	72	20.8	78	25.9	94	32.2
1953	67	18.7	69	24.4	71	27.3
1954	70	21.1	84	26.3	103	34.7
1955	47	11.6	75	19.4	83	27.7
1956	86	29.4	108	36.2	99	41.5
1957	67	16.9	73	22.6	81	27.9
Normal	62	18.8	73	23.2	83	29.6

Year	Jan. 1		Feb. 1		Mar. 1		April 1	
	S	W	S	W	S	W	S	W
<u>Valley View Ranch (Henrys Fork)</u>								
1948	26	4.7	32	6.6	39	8.8	50	12.8
1949	33	8.0	42	10.7	60	17.3	56	18.8
1950	32	6.2	45	12.0	52	15.3	62	19.5
1951	17	3.4	31	7.4	45	10.3	48	14.9
1952	49	11.6	67	19.5	70	23.8	81	30.0
1953	31	5.4	38	9.7	46	12.9	44	15.6
1954	19	2.4	46	8.2	45	12.4	47	15.4
1955	12	1.2	32	5.7	43	8.3	44	13.3
1956	40	9.7	54	13.9	57	17.1	46	15.9
1957	30	6.7	44	10.5	51	13.6	59	18.1
Normal	26	5.1	41	9.9	49	13.3	49	15.5

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>Big Springs (Henrys Fork)</u>								
1948	32	7.4	39	10.1	48	13.2	59	18.1
1949	43	11.3	53	15.1	77	26.4	75	27.8
1950	37	7.1	55	14.9	65	20.4	74	25.9
1951	27	6.1	45	13.0	68	18.8	62	22.4
1952	57	12.5	79	24.0	86	31.0	91	34.7
1953	39	7.0	52	14.5	60	18.9	55	21.7
1954	32	6.1	59	14.1	62	20.8	64	24.7
1955	22	3.3	39	9.1	62	16.1	61	21.9
1956	44	11.8	70	20.5	80	23.8	58	22.7
1957	37	9.5	58	14.5	63	22.0	71	26.6
Normal	33	7.2	50	13.2	62	18.8	62	21.8

<u>Island Park (Henrys Fork)</u>								
1948	26	5.6	31	8.0	44	10.2	49	13.8
1949	37	8.4	43	11.6	66	21.8	66	22.5
1950	31	5.9	49	12.8	52	17.3	65	21.6
1951	20	4.0	35	9.1	57	12.9	53	17.6
1952	52	11.1	68	19.7	75	26.4	82	30.6
1953	34	6.2	44	11.1	50	15.1	41	16.2
1954	26	4.5	48	12.4	51	15.5	50	16.8
1955	16	2.4	34	7.8	60	12.4	52	16.2
1956	36	9.0	58	17.8	64	19.8	48	17.0
1957	31	7.2	48	10.4	52	15.4	58	19.4
Normal	28	5.6	43	10.5	53	14.9	50	16.5

<u>Grassy Lake (Fall River)</u>								
1948	51	16.2	56	20.4	80	27.6	100	35.6
1949	71	20.7	70	25.0	102	37.2	112	44.3
1950	44	11.2	68	19.8	89	29.0	101	37.7
1951	64	16.0	72	22.6	96	32.0	91	36.0
1952	73	19.3	90	28.0	103	35.5	121	45.6
1953	50	11.1	79	25.6	87	32.2	84	35.8
1954	48	11.5	75	22.4	82	29.2	100	35.6
1955	56	11.8	59	16.4	93	25.2	91	34.9
1956	72	22.4	107	36.8	122	42.6	103	46.0
1957	49	15.5	92	24.0	100	35.8	103	40.5
Normal	55	15.0	73	22.8	88	30.6	90	35.2

<u>Teton Pass (Teton River)</u>								
1948	50	14.1	59	20.8	80	26.8	96	30.5
1949	70	22.9	78	28.1	106	42.4	128	49.9
1950	43	13.5	76	23.7	101	33.1	130	43.6
1951	44	12.9	92	29.1	96	34.9	100	40.4
1952	80	21.0	92	31.2	104	38.9	122	45.9
1953	44	11.6	78	24.9	83	30.2	91	36.9
1954	48	11.9	79	20.7	82	28.6	111	37.4
1955	32	7.9	52	15.6	80	18.8	91	34.0
1956	86	26.5	113	35.6	121	42.4	116	51.2
1957	45	13.8	64	19.4	91	28.4	98	35.1
Normal	52	14.7	74	23.0	91	30.9	103	38.3

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>State Line (Teton River)</u>								
1948	27	5.8	37	7.2	40	9.9	47	13.1
1949	38	10.3	44	12.8	55	19.4	60	21.7
1950	17	4.6	36	9.2	43	12.2	59	18.3
1951	22	4.9	51	13.2	48	14.4	49	17.3
1952	42	9.7	49	14.6	56	18.3	60	20.0
1953	24	5.3	42	11.1	45	14.2	42	16.1
1954	26	4.6	43	7.9	42	13.0	61	18.9
1955	17	2.0	25	5.6	40	8.4	43	12.4
1956	33	9.6	51	13.6	58	17.9	49	18.9
1957	29	6.2	40	9.3	46	12.9	49	16.6
Normal	27	5.8	40	9.8	46	13.5	47	16.1

<u>East Rim (Hoback River)</u>								
1948	-	-	-	-	31	9.1	34	7.7
1949	-	-	-	-	41	11.4	42	12.5
1950	-	-	-	-	46	15.8	54	17.4
1951	-	-	-	-	55	14.7	49	17.1
1952	-	-	-	-	38	12.0	43	15.3
1953	-	-	-	-	34	11.4	33	10.4
1954	-	-	-	-	36	8.9	47	13.4
1955	9	1.2	17	3.5	26	6.1	33	9.1
1956	32	7.8	45	10.7	45	12.8	51	15.9
1957	21	5.2	28	6.7	33	9.3	36	11.1
Normal	19	3.9	30	7.0	37	10.1	40	12.0

<u>Bryan Flat (Hoback River)</u>								
1948	17	4.1	22	4.1	31	7.1	29	7.8
1949	30	6.9	38	9.3	46	14.5	46	15.9
1950	13	2.0	28	7.9	31	9.9	33	11.4
1951	26	4.4	34	7.7	43	10.0	42	14.8
1952	36	7.3	36	10.4	43	13.4	45	16.3
1953	17	3.5	25	8.0	27	9.6	29	12.5
1954	12	2.4	31	7.7	35	9.4	44	14.5
1955	9	1.1	15	3.0	29	5.0	30	8.1
1956	24	6.5	39	8.1	41	11.1	35	11.5
1957	21	4.5	28	5.8	27	8.3	31	9.2
Normal	19	3.9	28	6.6	34	9.2	33	10.8

<u>Yellowjacket Flat (Gros Ventre River)</u>								
1948	-	-	-	-	21	4.7	22	4.9
1949	-	-	27	4.8	30	6.9	30	8.2
1950	-	-	-	-	25	6.0	26	8.3
1951	-	-	35	7.3	38	8.0	38	9.8
1952	-	-	-	-	27	5.6	30	7.1
1953	-	-	20	4.6	23	5.4	16	3.2
1954	-	-	-	-	28	6.5	31	7.9
1955	-	-	-	-	19	3.5	22	4.9
1956	-	-	32	7.3	39	9.2	29	9.4
1957	-	-	-	-	21	4.5	24	6.1
Normal	11	1.9	22	4.3	27	5.9	27	6.8

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>Grover Park Divide (Salt River)</u>								
1948	18	4.0	23	5.4	29	6.6	37	9.5
1949	29	6.8	35	8.9	42	12.6	42	13.4
1950	18	3.9	36	9.8	40	12.2	51	16.6
1951	14	3.8	39	8.2	35	10.1	36	12.5
1952	35	7.6	39	10.7	46	14.0	53	15.9
1953	18	3.7	36	8.8	32	10.2	31	10.6
1954	18	3.9	25	6.6	29	7.9	46	13.4
1955	12	2.0	21	4.9	30	6.9	33	9.3
1956	27	7.1	38	9.8	50	13.1	53	12.1
1957	24	5.4	34	7.5	33	9.9	42	13.6
Normal	22	4.5	32	7.6	35	10.1	38	11.6

<u>CCC Camp FF12 (Salt River)</u>								
1948	16	3.5	25	5.9	33	8.2	35	9.5
1949	27	6.4	34	8.5	42	12.0	38	12.5
1950	16	3.4	45	11.3	41	12.8	47	16.1
1951	19	4.4	33	8.0	39	10.9	42	13.7
1952	35	7.8	40	11.2	45	13.5	49	16.0
1953	16	3.4	36	8.8	31	9.4	31	10.9
1954	21	4.7	30	7.9	32	9.5	46	12.9
1955	18	3.0	24	5.0	40	7.6	40	10.8
1956	27	7.2	46	10.5	51	13.2	39	12.1
1957	29	6.5	33	7.8	40	11.4	46	15.8
Normal	22	4.7	32	7.7	37	10.2	38	12.0

<u>Poison Meadows (Greys River)</u>								
1948	-	-	-	-	66	20.0	73	25.0
1949	-	-	-	-	75	25.5	71	25.4
1950	-	-	-	-	78	26.7	96	34.7
1951	-	-	-	-	83	29.7	99	39.1
1952	-	-	-	-	81	25.8	94	31.0
1953	-	-	-	-	70	20.1	80	25.0
1954	-	-	-	-	75	25.3	103	33.5
1955	-	-	-	-	66	16.4	82	22.5
1956	-	-	-	-	118	40.3	111	47.0
1957	-	-	-	-	85	25.9	94	30.3
Normal	-	-	-	-	80	25.6	90	31.4

<u>Greys Boundary (Greys River)</u>								
1948	19	4.5	23	6.6	32	9.0	34	11.6
1949	33	8.1	39	10.7	51	16.6	39	16.5
1950	21	3.1	28	6.1	32	9.3	40	13.9
1951	24	5.5	39	7.8	35	10.6	37	13.2
1952	42	8.1	43	13.2	48	16.1	49	16.9
1953	23	4.9	33	9.9	37	10.6	24	9.3
1954	18	3.9	30	9.1	33	10.2	40	12.1
1955	20	1.9	24	5.5	38	7.9	35	11.1
1956	19	4.5	38	7.8	44	11.5	30	10.8
1957	22	4.2	30	6.3	28	8.5	32	12.4
Normal	22	4.7	31	7.5	35	10.6	32	11.4

On April 1, 1957, the snow (water content) was the following average percent of normal: above Jackson Lake 114%, Moran to Heise 98%, Island Park 118%, Fall River 114%, Teton River 98%.

Comparable run-off figures for the year ending September 30, 1957, as a percent of normal, were: Snake River at Moran 112%, Snake River near Heise 111%, Henrys Fork near Ashton 114%, Fall River near Squirrel 116%, Teton River near St. Anthony 123%. May precipitation was double the normal amount at many points and had a considerable effect on run-off.

1957 REGULATION SCHEDULE

July	8	Cut off 1916 priority rights
"	9	Cut off 1908 priority rights
"	10	Cut off rights later than October 7, 1905
"	20	Cut off March 26, 1903 rights
"	23	Cut off rights later than October 11, 1900
"	27	Cut off all 1900 rights
"	30	Cut off 1897 rights
Aug.	2	Filled 50% July 9, 1896 right
"	3	Cut off all 1896 rights
"	6	Cut off June 1, 1895 rights
"	7	Cut off rights later than February 6, 1895
"	8	Filled 80% February 6, 1895 right
"	9	Filled 60% February 6, 1895 right
"	10	Filled 40% February 6, 1895 right
"	15	Cut off February 6, 1895 right
"	16	Filled 50% August 18, 1894 right
"	21	Filled 75% August 18, 1894 right
"	23	Filled all 1894 rights
"	28	Filled January 9, 1895 right
"	31	Filled 20% February 6, 1895 right
Sept.	2	Filled 40% February 6, 1895 right
"	4	Filled 60% February 6, 1895 right
"	7	Filled 40% February 6, 1895 right
"	8	Filled 20% February 6, 1895 right
"	10	Cut off February 6, 1895 right
"	11	Cut off all 1895 rights
"	12	Filled 50% August 18, 1894 right
"	13	Cut off all 1893 rights
"	14	Cut off May 1, 1892 rights
"	20	Restored 1892 rights
"	21	Restored June 1, 1894 rights
"	24	Restored all 1894 rights
"	25	Filled 20% February 6, 1895 right
"	30	Discontinued regulation

There was a period of about a week from July 20-27 when the supply locally available on Henrys Fork and Fall River wasn't sufficient to fill rights to quite as late priorities as shown by above schedule.

Storage draft charges on the various reservoirs began on the following dates: Palisades July 3, American Falls July 6, Jackson Lake July 10, Island Park July 10, Henrys Lake July 18, Grassy Lake July 25.

WATER SUPPLY

Run-off at various gaging stations during the year ending September 30, 1957 was as follows:

<u>Station</u>	<u>1957 Run-off (acre-feet)</u>	<u>Average run-off past years (acre-feet)</u>	<u>Years of Record</u>	<u>1956 % of Average</u>
Snake River at Moran	1,175,000	1,052,000	54	112
Snake River near Heise	5,518,000	5,006,000	47	111
Snake River at Neeley	5,867,000	4,960,000	31	112
Fall River near Squirrel	638,900	549,000	43	116
Teton River near St. Anthony	676,100	546,900	24	123
Henrys Fork near Ashton	1,129,500	988,000	37	114
Henrys Fork near Rexburg	1,705,000	1,394,000	48	122

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

The run-off of Teton River and Henrys Fork near Rexburg was greater proportionally than at the other stations, probably mostly due to drain-off from ground water stored in 1956.

Peak mean daily discharges were as follows:

Snake River at Moran	7,120 second-feet on December 4, when spilling water to Palisades. Maximum during irrigation season was 4,640 second-feet on July 12-13
Snake River near Heise	18,200 second-feet on June 10
Snake River near Blackfoot	21,600 second-feet on May 23
Henry's Fork near Rexburg	8,590 second-feet on May 21-22
Teton River near St. Anthony	4,550 second-feet on June 7
Blackfoot River near Blackfoot	1,040 second-feet on May 25-26
Snake River at Milner	17,600 second-feet on May 21

The peak discharge at the Rexburg station was the greatest that has occurred there since 1927 when the maximum discharge was 9,490 second-feet. A substantial amount of low lying pasture ground adjacent to the stream was flooded, also a small area of cultivated ground.

The 1957 peak flow of Teton River was the greatest since 1909 when a flow of 5,230 second-feet was recorded. Considerable damage from flooding occurred on Teton River in 1957.

The 1957 peak flow of Blackfoot River was the greatest that has ever been recorded since records started in 1913. The previous peak discharge was 863 second-feet in 1921. At the time of the 1957 peak it is estimated that an additional 1,300 second-feet were being dissipated by canal diversions and percolation losses on flooded lands upstream from the gaging station, with a substantial discharge overflowing the highway south of Blackfoot.

The flood situation on these tributary streams was in marked contrast to the main Snake River where flood control operations at Jackson Lake and Palisades reservoirs resulted in no floodwater damage at all.

Except for flood waters being stored in Jackson Lake the flow of Snake River at Moran would have been about 11,000 second-feet on

June 6, 1957, which would have caused substantial flood water damage at Wilson in Jackson Hole. Except for flood water storage at Jackson Lake and Palisades the flow of Snake River at Heise would have reached a discharge of about 39,000 second-feet on June 7 with resulting substantial floodwater damage at downstream points.

If the loose gravel dikes that have been built along Snake River by the Army Engineers to retain flood waters in the stream channel could be adequately protected by heavy rock rip-rap to prevent erosion of the gravel banks it appears quite probable that the flood problem on the main Snake River can be satisfactorily controlled by operation of our present reservoir system.

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

Holdovers on September 30 in thousands of acre-feet

<u>Year</u>	<u>Jackson Lake</u>	<u>Pali-sades</u>	<u>American Falls</u>	<u>Lake Walcott</u>	<u>Henrys Lake</u>	<u>Island Park</u>	<u>Grassy Lake</u>	<u>Total</u>
1948	234.3		664.7	88.6	53.3	33.2	12.1	1,086.2
1949	273.1		535.0	95.3	52.1	29.1	11.9	996.5
1950	570.4		925.6	93.2	69.1	87.7	12.2	1,758.2
1951	622.7		1,021.3	94.0	71.4	86.2	12.1	1,907.7
1952	281.7		583.0	91.9	62.7	62.5	12.2	1,094.0
1953	232.4		488.0	91.2	65.0	34.0	11.3	921.9
1954	316.6		627.0	89.1	67.7	45.4	11.6	1,157.4
1955	192.8		264.0	93.6	50.4	27.1	11.2	639.1
1956	369.7		623.0	94.5	68.9	80.0	13.1	1,249.2
1957	615.8	422.7	293.0	92.2	68.8	50.1	11.9	1,554.5
Av.	371.0	42.3	602.5	92.4	62.9	53.5	11.9	1,236.5

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

There are two years, 1950 and 1951, when the total holdover was greater than in 1957 when Palisades was included for the first time. The capacity of these reservoirs, excluding Palisades, is 2,872,000 acre-feet and 4,072,000 acre-feet including Palisades. If Palisades

Reservoir had not been in operation in 1957 the holdover at American Falls would have been greater and somewhat comparable to that in 1956, as the river was operated during 1957 so as to hold as much water as possible in the upstream reservoirs.

TRANSFERS AND CHANGES IN POINT OF DIVERSION

The following changes in Point of Diversion were authorized by the State Reclamation Engineer:

Change in Point of Diversion Order No. 240:

Reed S. Boyce and Gerald Walker, 4.8 second-feet June 1, 1890 of the waters of Spring Creek near Menan, changed to pumping diversion from Snake River below mouth of Spring Creek. This change was made on account of land leveling operations which filled in a portion of the Spring Creek channel at the old point of diversion, allowing the formerly diverted water to flow into Snake River.

Change in Point of Diversion, Order No. 242:

W. S. Tanner, 0.90 second-feet June 1, 1894 of the waters of Black Springs Creek near Ashton, previously changed to Farmers Own Canal diverting from Fall River and now changed to Silkey ditch diverting from Fall River.

There were no transfers of place of use during the year.

LITIGATION

The following summary decree was issued in the Ninth Judicial District, Fremont County:

Gean B. Edwards vs. Lynn Crandall, decree dated December 6, 1956:

1.2 second-feet of the waters of South Fork of Duck Creek, a tributary to Henrys Lake, with priority of June 1, 1915, and 1.0 second-foot of the waters of an unnamed stream tributary to Duck Creek with priority of June 1, 1915.

COMMUNITY LATERAL MANAGERS

No request was received for the appointment of any community lateral managers during 1957. This is the first time that such a situation has occurred during the present watermaster's term of office.

CANAL DELIVERIES

Daily diversions from Snake River by canals above American Falls reservoir during the 1957 irrigation season are shown on Plates 6-10. Daily diversions thruout the year for canals below American Falls are shown on Plates 58 to 69. Miscellaneous measurements of various canals and streams in the headwater areas are shown on Plate 24.

Total diversions during the 1957 irrigation season by all canals in the District, including headwater areas, as tabulated in the annual watermaster bill, amounted to 7,682,000 acre-feet or about 6% less than in 1956.

Diversions during 1957 irrigation season by Snake River
Canals (downstream order from Heise)

(May to Sept. incl. for upper valley canals, April 15 to Sept. 30
for canals below American Falls)

Canal	Diversions (acre-feet)	Acres Irrigated	Acre-feet per acre
Riley	4,300	870	4.9
Progressive Irr. Dist.	197,000 (a)	31,950	6.2
Farmers Friend	85,800	11,000	7.8
Enterprise	39,900	5,000	8.0
Nelson	280	50	5.6
Mattson & Arnsberger	3,740	500	7.5
Ross and Rand	540	100	5.4
Butler Island	10,100	1,200	8.4
Steele	1,650	220	7.5
Harrison	122,000	13,000	9.4
Cheney	1,590	180	8.8
Rudy Irr. Co.	49,500	5,500	9.0
Kite & Nord	1,160	200	5.8
Burgess	212,000	22,000	9.6
Clark & Edwards	20,200	1,800	11.2
Lowder	11,100	1,100	10.1
East Labelle	31,300	2,700	11.6
Sunnydell	35,000	3,800	9.2
Lenroot	41,900	4,100	10.2
Reid	44,900	5,380	8.3
Texas Feeder	76,600	9,200	8.3
Nelson Corey	1,800	400	4.5
Will Pettinger	1,080	200	5.4
Higby	41,600	4,000	10.4
Dilts	8,040	700	11.5
Island	48,900	4,000	12.2

Canal	Diversions (acre-feet)	Acres Irrigated	Acre-feet per acre
W. Labelle-Long Island	117,000	11,500	10.2
Parks & Lewisville	88,000	7,500	11.7
North Rigby	14,700	1,400	10.5
White	890	120	7.4
Ellis	1,060	120	8.8
Bramwell	1,460	240	6.1
Butte & Market Lake	79,300	20,000	4.0
Osgood	27,900	6,500	4.3
Bear Island and Smith	950	240	4.0
Idaho	242,000 (a)	35,700	6.8
Kennedy	11,300	2,700	9.2 4.2
Great Western & Porter	204,000	31,500	6.5
Coy and Kellar	560	70	8.0
Woodville	26,800	3,200	8.4
Snake River Valley	157,000 (a)	21,380	7.3
Reservation	111,000 (b)	33,000	3.4
Blackfoot	82,000	15,000	5.5
New Lava Side	36,600	6,200	5.9
Peoples	130,000	16,000	8.1
Aberdeen	334,000	63,000	5.3
Corbett	47,600	6,250	7.6
Nielsen-Hansen	2,370	400	5.9
Riverside	37,000	4,000	9.2
Danskin	54,600	6,000	9.1
Trego	16,900	1,800	9.4
Wearyrick	14,800	1,600	9.2
Watson	25,700	3,200	8.0
Parsons	9,750	850	11.4
Minidoka Irr. Dist.	468,000	71,750	6.5
Burley Irr. Dist.	285,000	44,300	6.4
Minidoka North Side Pump	45,800	12,930	3.5
Twin Falls Canal Co.	1,035,000	202,706	5.1
North Side Canal Co.	1,100,000	159,500	6.9
Milner Low Lift	61,500	12,070	5.1
Gooding	437,000	61,313	7.1
Total	6,399,520	993,189	6.5

(a) Received additional water from Willow and Sand Creeks

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

Total diversions for the season for these canals were 93% of the 1956 diversions, the lesser use being mostly due to greatly decreased diversions during May 1957 when heavy precipitation occurred thruout the irrigated areas. Many upper valley canals diverted little or no water during May.

1957 was the first year of use by the Minidoka North Side pump project. Practically the full acreage went into production in the one year, quite a contrast with conditions of 40 or 50 years ago when it took 10 to 15 years or even longer to get all the land under a canal system into cultivation.

Of the 3,432,300 acre-feet diverted by lower valley canals, 1,274,500 acre-feet or 37% was stored water. Upper valley main river canals diverted 2,967,200 acre-feet, of which 360,400 acre-feet or 12% 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>
1948	301	588	738	627	410	2664
1949	459	646	766	622	466	2959
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
Average	406	641	790	655	493	2985

Henrys Fork and Tributaries
(excluding headwater areas)

1948	144	229	215	173	109	870
1949	201	218	216	174	116	925
1950	181	225	240	205	103	954
1951	160	246	237	136	92	871
1952	210	225	223	181	118	957
1953	180	227	233	189	138	967
1954	224	236	225	185	133	1003
1955	153	249	229	177	128	936
1956	202	259	239	187	128	1015
1957	152	248	262	212	134	1008
Average	181	236	232	182	120	951

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>
1948	24	152	150	181	162		
1949	53	139	144	175	153	94	763
1950	34	150	136	184	161	96	760
1951	67	119	154	180	142	97	762
1952	20	164	149	181	171	111	773
1953	37	128	108	189	168	108	793
1954	51	161	116	174	168	103	733
1955	14	142	142	176	157	107	777
1956	70	149	148	183	159	107	738
1957	25	117	155	185	162	91	800
Average	40	142	140	181	160	109	753
						102	765

North Side Canal Co. Project

1948	67	201	210	224	224	153	1079
1949	65	215	204	231	232	142	1089
1950	73	195	206	233	225	171	1103
1951	84	179	213	234	221	170	1101
1952	42	202	225	234	232	174	1109
1953	76	195	190	239	233	176	1109
1954	88	217	196	230	228	177	1136
1955	33	187	227	233	233	183	1096
1956	83	208	211	236	225	169	1132
1957	58	194	213	240	232	176	1113
Average	67	199	210	233	228	169	1106

Twin Falls Project

1948	84	202	195	215	223	150	1069
1949	86	211	193	219	217	145	1071
1950	68	194	201	222	219	164	1068
1951	86	189	200	222	211	168	1076
1952	59	215	212	227	230	173	1116
1953	104	204	184	227	224	167	1110
1954	108	218	187	219	221	164	1117
1955	40	187	203	220	225	170	1045
1956	104	207	193	225	213	154	1101
1957	61	192	196	225	218	157	1049
Average	80	202	197	222	220	161	1082

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Gooding Project

1948	21	76	77	89	83	67	413
1949	25	76	84	93	84	65	427
1950	21	79	89	96	90	73	448
1951	23	73	93	97	91	73	450
1952	0	65	84	92	95	72	408
1953	33	80	79	98	94	74	458
1954	32	88	86	95	94	81	476
1955	14	80	94	97	96	79	460
1956	22	83	85	99	90	72	451
1957	11	74	88	99	91	75	438
Average	20	77	86	95	91	73	442

Upper valley diversions during May were considerably below normal due to rain. Valley precipitation occurred on about half of the days during May. June diversions averaged about normal, July diversions were above normal everywhere, August diversions were well above normal in the upper valley and about normal in the lower valley, September diversions were above normal except on the Twin Falls project where they were slightly below normal.

RIVER DATA

The usual method of segregating natural flow and storage at the reservoir outlets which has been described in previous annual reports was continued in 1957. Measurements of streams tributary to Palisades Reservoir are now available for four years. After say another two years of operation with full reservoir it is proposed to study these records in detail to determine the effect of reservoir operation on normal unmeasured gains in that section of the River.

There were two periods during the 1956-57 water year when large increases in storage occurred at Palisades, one from November 1956 to February 1957 when about 575,000 acre-feet accumulated in the reservoir, and June 1957 when about 410,000 acre-feet accumulated. Preliminary figures indicate that in both of these instances an amount equal to about 10% of the storage increase was absorbed in priming the reservoir bed and in bank storage. During the period of storage withdrawal from July thru September 1957 the figures did not indicate any appreciable loss due to reservoir operation, bank storage return apparently offsetting any evaporation losses. Accordingly no loss or gain was allowed for Palisades Reservoir operation during the regulation period (July thru September) in 1957.

Daily figures showing segregation of flow between stored water and normal flow at the various gaging stations and canal diversions are given on Plates 12 and 13 for Snake River and Plate 21 for Henrys Fork.

The seasonal total of stored water passing the Blackfoot gaging station during 1957 was 86,700 acre-feet compared to 130,600 the previous year.

STORED WATER DELIVERIES

Storage allotments of Jackson Lake and American Falls owned rights were the same as in 1956 but the amount of American Falls leased water available to the old canals was reduced by 47,593 acre-feet to provide a water supply for Unit A of the new Minidoka North Side pumping project.

1957 Storage Allotments in Acre-feet (Downstream order from Heise)

<u>Canal</u>	<u>American Falls</u>		<u>Jackson Lake</u>	<u>Total</u>
	<u>Owned</u>	<u>Lease</u>		
Poplar Irr. Dist.	190	43	2,072	2,305
Progressive Irr. Dist.	3,531	545	16,163	20,239
Farmers Friend	0	0	2,000	2,000
Enterprise Canal Co.	2,524	656	17,651	20,831
Harrison	3,401	0	20,567	23,968
Rudy	749	827	5,430	7,006
Burgess	2,686	1,498	17,413	21,597
Lowder	0	0	1,040	1,040
Sunnydell	0	0	4,000	4,000
Lenroot	1,094	320	8,008	9,422
Reid	721	160	3,300	4,181
Dilts	250	0	1,147	1,397
Enterprise Irr. Dist.	2,882	0	13,189	16,071
Butte & Market Lake	1,320	3,615	6,041	10,976
Osgood (U.I.S.Co)	3,807	1,750	17,423	22,980
Bear Island	54	16	247	317
Smith	20	0	92	112
Kennedy	0	0	355	355
Idaho	6,480	402	29,661	36,543
Martin	567	184	4,098	4,849
New Sweden	7,277	1,032	38,311	46,620

Canal	American Falls		Jackson Lake	Total
	Owned	Lease		
Woodville	1,710	107	7,828	9,645
Snake River Valley	7,457	0	49,135	56,592
Blackfoot	3,610	798	16,523	20,931
Peoples	6,057	1,834	35,723	43,614
Aberdeen	15,921	11,431	114,296	141,648
Corbett	961	97	4,396	5,454
Trego	371	0	1,701	2,072
Minidoka Irr. Dist.	236,030	19,109	0	255,139
Burley Irr. Dist.	157,942	3,104	0	161,046
Minidoka N. S. Pump	47,593	0	0	47,593
Milner Low Lift	45,687	1,822	0	47,509
Twin Falls Canal	151,185	0	97,183	248,368
Hillsdale Irr. Dist.	41,146	0	0	41,146
N. S. Canal Co.	413,814	25,020	312,007	750,841
Gooding	400,000	0	0	400,000
Idaho Power Co.	45,000	0	0	45,000
U. S.	0	13,593	0	13,593
Total	1,612,037	87,963	847,000	2,547,000

In addition to renting the 13,593 acre-feet of American Falls leased space held by the Government it also rented 1,352 acre-feet of Palisades space or a total of 14,945 acre-feet. This was rented to the following users:

Swan Valley users	100 acre-feet
Upper valley users	14,627 "
Lower valley users	218 "
Total	14,945 acre-feet

The Twin Falls Canal Company rented 5,925 acre-feet of its water to:

Swan Valley users	702 acre-feet
Upper Valley users	4,247 "
Milner Low Lift users	976 "
Total	5,925 acre-feet

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

Allotments of Lake Walcott storage and gain Neeley to Milner are shown on Plate 14. The Lake Walcott allotment varies from year to year,

being based on whatever amount is in the Lake on the day that regulation of natural flow priority rights begins.

Supply and disposal of stored water, 1957
(acre-feet)

Supply

Jackson Lake	July 10	847,480
Palisades	July 3	896,900
American Falls	July 6	1,466,000
Lake Walcott	July 6	95,670
Henrys Lake	July 18	81,300
Island Park	July 10	134,155
Grassy Lake	July 25	15,182
Indian and Bergman Lakes yield		442
Sheridan Creek right		1,928*
Gain Neeley to Milner		48,960*
Return flow from bank storage past Blackfoot Oct. 1-5		<u>5,700</u>
Total		3,593,717

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

Disposal

Used by Snake River rights		1,675,547
Used by Henrys Fork rights		118,331
Storage transmission losses Snake River		37,702
Storage transmission losses Henrys Fork		2,858
Storage transmission losses Cross Cut Canal		452
Henrys Lake Loss		1,320
American Falls Reservoir loss		0
River operation storage waste past Milner		3,687
Holdovers:		
Jackson Lake	Sept. 27	615,760
Palisades	Sept. 30	622,700
American Falls	Sept. 30	293,000
Lake Walcott	Sept. 30	92,160
Island Park	Sept. 29	50,080
Henrys Lake	Sept. 18	68,260
Grassy Lake	Sept. 30	<u>11,860</u>
Total		3,593,717

The storage waste past Milner, not included in stored water ordered by the Idaho Power Company, only amounted to 3,687 acre-feet and was not charged to anyone as the holdover at the close of 1957

insures that rights in American Falls reservoir will be 100% filled in 1958.

RIVER LOSSES AND GAINS

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

Gain in Snake River, Moran to Heise, 1957
(Heise dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Total
Moran	893	8,297	103,357	81,823	40,620	234,990
Palisades release	-14,520	-206,406	-30,401	83,137	63,273	-104,917
Total supply	-13,627	-198,109	72,956	164,960	103,893	130,073
Heise	419,370	367,800	403,700	309,680	217,430	1,717,980
Riley	0	391	729	697	352	2,169
Tot. acct. for	419,370	368,191	404,429	310,377	217,782	1,720,149
Tot. gain s.f.	432,997	566,300	331,473	145,417	113,889	1,590,076
Mean gain s.f.	13,970	18,880	10,690	4,691	3,796	10,390
Tot. gain a.f.	858,837	1,123,240	657,467	288,430	225,895	3,153,869

The gain during the July to September period was practically the same as in 1956, indicating that Palisades reservoir had no adverse effect on natural flow supply during that period. The May-June 1957 gain, however, was much less than in the previous year partly due to lesser snowfall and partly to a portion of the flood run-off being absorbed in 1957 as bank storage during rising levels in Palisades reservoir.

Gain in Snake River, Heise to Shelley, 1957
(Heise dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Total
Heise & Riley	419,370	368,191	404,429	310,377	217,782	1,720,149
Rexburg	184,570	144,220	58,230	45,920	49,250	482,190
Total Supply	603,940	512,411	462,659	356,297	267,032	2,202,339
Diversions	51,534	227,883	308,008	258,315	195,530	1,041,270
Shelley	539,250	298,160	170,120	145,580	116,320	1,269,430
Tot. acct. for	590,784	526,043	478,128	403,895	311,850	2,310,700
Tot. gain s.f.	-13,156	13,632	15,469	47,598	44,818	108,361
Mean gain s.f.	-424	454	499	1,535	1,494	708
Tot. gain a.f.	-26,094	27,039	30,682	94,409	88,895	214,931

The gain during August and September was fully up to normal and slightly above last year's figures for those two months. However, the May to July gain was far below normal, an actual loss occurring in May. This is probably largely due to the fact that on account of weather conditions the May-June diversions in this section were only half as great in 1957 as they were in 1956. However, absence of the usual muddy water during the flood period may have been a contributing factor, resulting in greater river losses from Heise to Lorenzo which apparently returned to the river between Lorenzo and Roberts during August and September.

Loss and Gain in Snake River, Shelley to Blackfoot, 1957
(Shelley dates and 24-hr. sec.-ft. except as noted)
- is loss

Station	May	June	July	Aug.	Sept.	Total
Shelley	535,250	304,060	171,720	145,780	117,820	1,274,630
Blackfoot River	27,951	4,571	788	1,442	2,164	36,916
Total Supply	563,201	308,631	172,508	147,222	119,984	1,311,546
Diversions	35,047	107,274	122,677	108,054	82,068	455,120
Blackfoot	505,260	196,760	44,364	43,740	44,625	834,749
Tot. acct. for	540,307	304,034	167,041	151,794	126,693	1,289,869
Tot. diff. s.f.	-22,894	-4,597	-5,467	4,572	6,709	-21,677
Mean diff. s.f.	- 739	- 153	- 176	147	224	- 142
Tot. diff. a.f.	-45,409	-9,118	-10,843	9,069	13,307	-42,994

There was a noticeable increase in the loss in this section of the river as compared to previous years. The average loss for the season was 142 second-feet compared to an average gain of 47 second-feet in 1956. During the five months' period the loss was 57,000 acre-feet greater in 1957 than in 1956. A number of canal companies in the upper valley also reported that they had trouble supplying their users during the July peak demand period with enough water even tho the canals were loaded to capacity. The Aberdeen project, for example, sustained a canal delivery loss of 40% during the 1957 season, compared to 32% in

1956 and 38% in 1955. Mr. Jake Isaak, Manager of that project, has suggested that storage of silt laden waters in Palisades reservoir during the flood season may have deprived the canals of the beneficial effects of muddy water during the flood season in sealing the canal beds particularly in areas of gravelly soil. If this is true the same effect would occur in river sections of gravel beds perched above the general water table such as exist in the Shelley and Blackfoot area. However, there is considerable silt that comes from Henrys Fork and enters Snake River and the heavy July demand for water existed also on Henrys Fork and probably arose to some extent from not irrigating during rainy periods in May and early June. After the building of American Falls reservoir an increased canal loss of several percent was observed under the North Side Canal Company system compared to the previous loss in high water years when muddy water was available during the flood period.

A final determination of this possible effect in the upper valley cannot be made until we see what happens during the next few years with fully controlled storage at Palisades.

Gain or loss in Snake River, Blackfoot to Neeley, 1957
(Neeley dates and 24-hr. sec.-ft. except as noted)
- is loss

Station	May	June	July	Aug.	Sept.	Total
Blackfoot	499,950	208,100	45,604	43,440	44,905	841,999
Inflow	104,807	87,364	82,257	82,994	82,647	440,069
Res. draft	- 2,521	80,667	265,192	241,496	130,075	714,909
Total Supply	602,236	376,131	393,053	367,930	257,627	1,996,977
Diversions	20	20	20	20	15	95
Neeley	588,790	363,790	394,700	368,500	255,530	1,971,310
Total Use	588,810	363,810	394,720	368,520	255,545	1,971,405
Tot.diff.s.f.	-13,426	-12,321	1,667	590	-2,082	-25,572
Mean diff.s.f.	- 436	- 411	54	19	69	- 167
Tot.diff. a.f.	-26,630	-24,439	3,306	1,170	-4,130	-50,723

The total loss for the five months' period was only about one-third

of the loss in 1956. The Lake in 1957 was drawn down to lower levels and much heavier precipitation occurred. The May-September precipitation at Pocatello was 4.43" in 1957 compared to only 1.31" in 1956. During the period of storage use July 6 to September 30 the bank storage return almost exactly balanced evaporation losses so no charge was made for storage loss in American Falls reservoir in 1957. The inflow from Blackfoot to Neeley during July-September as calculated from measurements of the springs and use of the Newell formula for unmeasurable inflow showed no significant difference from the 1956 figures. There has probably been a little increase in groundwater pumping which was about balanced by increased return flow from irrigation use and upstream river losses. There was a considerable contribution during the floodwater period on Blackfoot River in 1957 from flooded areas along that stream to the groundwater eventually tributary to American Falls reservoir.

Loss in Snake River, Neeley to Minidoka, 1957
(Minidoka dates and 24-hr. sec.-ft. except as noted)
- is loss

Station	May	June	July	Aug.	Sept.	Total
Neeley	586,160	365,520	394,700	368,800	257,660	1,972,840
Walcott release	- 730	- 120	720	0	1,640	1,510
Total Supply	585,430	365,400	395,420	368,800	259,300	1,974,350
N. Minidoka	35,487	42,586	53,290	44,280	29,558	205,201
S. Minidoka	23,535	35,651	40,030	37,550	25,393	162,159
Minidoka	527,210	285,630	298,520	281,710	203,590	1,596,660
Total Use	586,232	363,867	391,840	363,540	258,541	1,964,020
Tot.diff. s.f.	802	-1,533	-3,580	- 5,260	- 759	-10,330
Mean diff.s.f.	26	- 51	- 115	- 170	- 25	- 68
Tot. diff.a.f.	1,591	-3,040	-7,100	-10,430	-1,510	-20,489

While the seasonal loss was about the same as in 1956 the average loss during July, August and September was about 30 second-feet greater in 1957 than during the same months in 1956. The gain to Snake River between the Ruegar and Neeley gages, mostly from Ruegar springs,

was measured in November 1957, when the water was shut off at American Falls dam, and found to be about 30 second-feet, a decrease of 5 second-feet from the last previous determinations made 5 or 6 years ago.

Gain in Snake River, Minidoka to Milner, 1957
(Milner dates and 24-hr. sec.-ft. except as noted)

Station	May	June	July	Aug.	Sept.	Total
Minidoka	523,610	288,730	298,500	282,110	205,890	1,598,840
Misc. diver.	40	60	40	30	0	170
Min. N.S. Pump	1,300	5,189	7,422	5,621	3,580	23,112
P. A.	1,552	1,837	2,191	2,177	1,317	9,074
Milner Low Lift	5,499	6,279	6,782	7,493	4,882	30,935
Gooding	67,390	73,830	80,140	74,820	65,130	361,310
No. Side	65,850	75,930	88,510	85,680	60,270	376,240
So. Side	97,050	99,020	113,620	109,650	79,390	498,730
Milner	300,550	31,096	5,389	8,779	8,193	354,007
Total Use	539,231	293,241	304,094	294,250	222,762	1,653,578
Tot. gain s.f.	15,621	4,511	5,594	12,140	16,872	54,738
Mean gain s.f.	504	150	180	392	562	358
Tot. gain a.f.	30,984	8,948	11,095	24,080	33,466	108,573

The seasonal gain averaged 115 second-feet or about 35,000 acre-feet less than in 1956. During the period of storage use July 6 to September 30 the overall gain from Neeley to Milner amounted to 48,960 acre-feet which was credited to the Minidoka project. The decreased inflow in this section may be due, in part at least, to recent ground-water pumping in the area extending from Raft River to Goose Creek.

DISTRIBUTION ON HENRYS FORK

Mr. O. P. Mortensen again filled the position of Deputy Water-master at St. Anthony in local charge of water distribution on Henrys Fork, Fall River, and lower Teton River. Water supplies were ample and no shortages occurred.

Elmer Lenz was appointed a special deputy on Squirrel Creek regulating water between the Squirrel Creek and Boom Creek canals. The cost of this special service, amounting to \$241.50 was split 50%

to the two canals and 50% to District 36 general expense. The results of various observations in the Squirrel Creek area are shown on plate 23B.

About 3,300 acre-feet of storage was drawn from Grassy Lake between July 25 and August 23 to bring it down to the desired level for the winter months. Storage draft from the Henrys Fork reservoirs started on the following dates: Island Park July 10, Henrys Lake July 18, Grassy Lake July 25. Combined holdovers in these three reservoirs amounted to 130,000 acre-feet at the close of the 1957 season.

The usual methods of segregating stored water and natural flow at the outlets of Henrys Lake and Island Park Reservoirs, as described in reports for past years, was continued in 1957.

Figures showing the operation of the Cross Cut Canal are shown on Plate 23A. It delivered 17,800 acre-feet to the Fall River Canal and 4,450 acre-feet to Teton River with a transmission loss of about 10%. This canal picks up some unmeasured waste water so that the actual loss is somewhat greater than the above calculated over-all loss.

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

August 13, 1957

Sheridan Creek above diversions	24.6	second-feet
Morain Creek	3.0	" "
Sheridan Creek at highway 22	2.6	" "
Upper Railroad ranch diversion	4.3	" "
Spilling to lower Railroad ranch diversion	2.0	" "
Sheridan Creek spilling to Island Park Res.	0.1	" "
Icehouse Creek at Forest road	8.0	" "
Icehouse Creek at highway 22	5.0	" "
Willow Creek ditch to Railroad ranch	1.0	" "
Grubb diversion from Icehouse Creek	2.5	" "
Laird diversion from North Twin Creek	1.5	" "
Laird diversion from South Twin Creek	1.5	" "
A. Frazier diversion from North Twin Creek	.0	" "
Spilling down No. Twin Creek to Richards	2.0	" "

August 14, 1957

Magleby diversion from Rock Creek (pipe)	2.5	second-feet
Webster diversion from Rock Creek (2)	2.5	" "
Lyon diversion from Rock Creek	0.6	" "
Rock Creek at mouth	0.3	" "
Duck Creek at Bootjack road	8.7	" "
Magleby diversion from Duck Creek (2)	4.5	" "
Webster diversion from Duck Creek	2.0	" "
Supply from Webster drain	1.0	" "
Duck Creek spilling to Henrys Lake	3.0	" "

During the last week in August there was 1.70" precipitation at Henrys Lake which brought an end to irrigation in that section.

Henrys Lake Allotment 1957

July 18 contents	81,300	acre-feet
Estimated dead storage and loss	<u>3,000</u>	" "
Available for allotment	78,300	acre-feet

	<u>Allotted</u>		
Dewey	1.43%	1,120	acre-feet
Last Chance	13.87	10,860	" "
St. Anthony Union	6.8	5,320	" "
Salem Union	24.2	18,950	" "
Egin	6.8	5,320	" "
Independent	26.8	20,990	" "
Consolidated Farmers	<u>20.1</u>	<u>15,740</u>	" "
	100	78,300	acre-feet

During the period of storage draft July 18 to September 18 the reservoir contents decreased 13,040 acre-feet. During the same period the storage released at the station below the dam amounted to 11,720 acre-feet, based on estimated inflow, leaving an indicated net loss in the Lake of 1,320 acre-feet. The Lake floods an area of about 6,200 acres at the average elevation maintained in 1957 so this loss is equivalent to 0.213 feet or about 2.5 inches over the Lake surface.

Fremont-Madison District Allotment, 1957

Island Park	July 10	134,155 acre-feet
Grassy Lake	July 25	15,182 " "
Sheridan Creek right		1,928 " "
Total		151,265 acre-feet

The District allotted 131,754 acre-feet to its members and rented them an additional 2,077 acre-feet.

The Enterprise Irrigation District had 16,071 acre-feet of Snake River storage available, thru exchange, for use on Henrys Fork. This is equivalent to 14,904 acre-feet at Rexburg. As shown on Plate 21 the seasonal retention of Snake River water on Henrys Fork was 10,157 second-feet or 20,146 acre-feet, Rexburg measurement. Accordingly, there was a surplus retention at the Rexburg station of 5,242 acre-feet or 5,380 acre-feet of Snake River storage water in Island Park Reservoir on September 30, 1957, allowing for loss between Island Park and Rexburg stations. Island Park Reservoir, however, is assured of spilling more than this amount before the 1958 irrigation season so the calculation is only of academic interest.

Diversions during the 1957 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	2,540	1,150	2.2
Marysville	39,100	15,000	2.6
Farmers Own	16,200	4,800	3.4
Almy	500	80	6.2
Enterprise	35,700	5,900	6.1
Bell	1,610	320	5.0
Fall River	92,500 (a)	9,000	10.2
McBee	470	70	6.7
Chester	15,200	1,400	10.9
Silkey	3,040	680	4.5
Cur	8,800	1,300	6.8
Total Fall River	215,660	39,700	5.4

(a) Includes 17,800 acre-feet diverted thru Cross Cut.

Diversions during 1957 irrigation season - continued

Canal	Diversions (acre-feet)	Area Irrigated (acres)	Acre-feet per acre
<u>Henrys Fork Canals</u>			
Dewey	5,820	1,000	5.8
Last Chance	22,600	1,850	12.2 *
St. Anthony Union	136,000	9,700	14.0 *
Farmers Friend	30,500	2,800	10.9
Twin Groves	34,400	2,300	14.9
Salem Union	53,400	5,500	9.7
Egin	80,900	6,000	13.5 *
St. Anthony U. Feeder	17,900	2,300	7.8 *
Independent	87,000	7,000	12.4 *
Consolidated Farmers	59,300	6,000	9.9
Total Henrys Fork	527,820	44,450	11.9
<u>Lower Teton Canals</u>			
Siddoway	3,390	500	6.8
Wilford	30,600	2,500	12.2
Teton Irrigation	20,700	2,000	10.3
Good Luck	3,480	400	8.7
Pioneer	2,610	300	8.7
Stewart	5,440	400	13.6
Pincock-Byington	4,540	400	11.3
Pincock-Garner	3,850	480	8.0
Teton Island Feeder	110,000	10,400	10.6
Roxana	4,660	720	6.5
Island Ward	4,660 (b)	3,000	1.6
North Salem	1,030 (c)	450	2.3
Woodmansee-Johnson	5,700 (d)	1,300	4.4
City of Rexburg	6,850 (e)	720	9.5
Rexburg Irrigation	55,700 (e)	5,280	10.5
McCormick Rowe	1,060	160	6.6
Saurey Sommers	4,530	400	11.3
Gardner	0	200	0
Eames Thompson	340	160	2.1
Total Lower Teton	269,140	29,770	9.1
Total Fall River, Henrys Fork and Lower Teton	1,012,620	113,920	8.9

- (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 Creek and Teton Irr. Canal waste
(e) Includes some surplus flow in August-September spilled back to
river to permit construction work on river channel.

The total season diversions by all the canals was practically the same as in 1956. The Egin bench canals continued the creeping increase in their diversions that has been going on for a number of years past;

their 1957 diversions were 6,500 acre-feet greater than in 1956.

Diversions by some of the principal canals in the headwater areas for the 1957 irrigation season (May 15 to September 30) are shown below:

Canal	Diversions (acre-feet)	Area Irrigated (acres)	Acre-feet per acre
String Canal	15,000	2,400	6.2
Trail Creek Irr. Co.	33,000	5,500	6.0
Fox Creek Canals	15,700	3,800	4.1
Darby Creek Canals	20,200	4,800	4.2
Grand Teton Canal	38,000	6,500	5.8
Canyon Creek Canal	6,700	2,200	3.0
Conant Creek Canal	4,950	2,000	2.5
Squirrel Creek Canal	1,600	750	2.1
Boom Creek Canal	1,080	500	2.2

Due to rains most of these canals did not start diversions until in June, some of them not until the latter part of June.

River gains in Henrys Fork Basin, 1957

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

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

Gain in Henrys Fork, Lake to Island Park, 1957

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

Station	May	June	July	Aug.	Sept.	Total
Lake	2,409	5,637	4,271	3,870	1,941	18,128
I. P. release	-6,567	1,271	13,424	21,808	7,727	37,663
Total supply	-4,158	6,908	17,695	25,678	9,668	55,791
Island Park	37,628	33,937	34,233	40,160	24,895	170,853
Tot. gain s.f.	41,786	27,029	16,538	14,482	15,227	115,062
Mean gain s.f.	1,348	901	533	467	508	752
Tot. gain a.f.	82,881	53,612	32,803	28,725	30,202	228,223

The seasonal gain averaged 155 second-feet greater than in 1956.

The increase was due to more abundant precipitation, especially during May.

Gain in Henrys Fork, Island Park to Ashton, 1957

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

Station	May	June	July	Aug.	Sept.	Total
Island Park	37,107	34,233	33,842	40,365	25,344	170,891
Ashton	103,990	69,380	57,460	64,220	47,120	342,170
Tot. gain s.f.	66,883	35,147	23,618	23,855	21,776	171,279
Mean gain s.f.	2,158	1,172	762	770	726	1,119
Tot. gain a.f.	132,660	69,713	46,846	47,316	43,192	339,727

The average gain for the five months was 119 second-feet greater than in 1956.

Gain in Henrys Fork, Ashton to St. Anthony, 1957

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

Station	May	June	July	Aug.	Sept.	Total
Ashton	103,790	69,580	57,430	64,230	47,300	342,330
Chester	77,949	69,380	17,720	4,367	7,604	177,020
Total Supply	181,739	138,960	75,150	68,597	54,904	519,350
Diversions	26,365	37,034	38,204	33,380	19,131	154,114
St. Anthony	156,810	106,300	42,428	40,390	41,350	387,278
Total Use	183,175	143,334	80,632	73,770	60,481	541,392
Tot. gain s.f.	1,436	4,374	5,482	5,173	5,577	22,042
Mean gain s.f.	46	146	177	167	186	144
Tot. gain a.f.	2,848	8,676	10,873	10,260	11,061	43,718

The average gain was practically the same as in 1956. It is principally derived from return flow from adjacent sub-irrigated lands.

Gain in Fall River, Squirrel to Chester, 1957

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

Station	May	June	July	Aug.	Sept.	Total
Squirrel	68,845	79,140	34,737	16,998	16,828	216,548
Diversions	7,494	20,839	21,395	16,038	13,033	78,799
Chester	78,339	69,200	17,330	4,407	7,584	176,860
Tot. use s.f.	85,833	90,039	38,725	20,445	20,617	255,659
Tot. gain s.f.	16,988	10,899	3,988	3,447	3,789	39,111
Mean gain s.f.	548	363	129	111	126	256
Tot. gain a.f.	33,696	21,618	7,910	6,837	7,515	77,576

The average gain was 58 second-feet greater than in 1956. The past two years have been ones of heavy snowfall on Fall River watershed with an upbuilding of ground water levels.

Gain in Teton River, Tetonia to St. Anthony, 1957

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

Station	May	June	July	Aug.	Sept.	Total
Tetonia	19,462	35,280	29,929	16,279	12,841	113,791
Cross Cut inflow	0	0	65	1,922	256	2,243
Total Supply	19,462	35,280	29,994	18,201	13,097	116,034
St. Anthony	54,835	84,200	48,630	27,128	20,082	234,875
Tot. gain s.f.	35,373	48,920	18,636	8,927	6,985	118,841
Mean gain s.f.	1,141	1,631	601	288	233	777
Tot. gain a.f.	70,161	97,032	36,963	17,707	13,855	235,718

The average seasonal gain was 62 second-feet greater than in 1956.

Gain in Henrys Fork and Teton River, St. Anthony to Rexburg, 1957

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

Station	May	June	July	Aug.	Sept.	Total
Teton River	54,835	84,200	48,630	27,128	20,082	234,875
Henrys Fork	156,810	106,300	42,428	40,390	41,350	387,278
Total Supply	211,645	190,500	91,058	67,518	61,432	622,153
Teton Diver.	14,645	36,875	37,325	28,424	17,966	135,235
H. Fk. Diver.	28,016	28,933	27,612	23,734	15,260	123,555
Rexburg	186,580	143,330	56,790	46,460	48,800	481,960
Total Use	229,241	209,138	121,727	98,618	82,026	740,750
Tot. gain s.f.	17,596	18,638	30,669	31,100	20,594	118,597
Mean gain s.f.	568	621	989	1,003	686	775
Tot. gain a.f.	34,901	36,967	60,831	61,686	40,847	235,232

The average gain was 117 second-feet greater than in 1956. The increased gain in 1957 in all river sections on Henrys Fork and tributaries indicates high ground water level conditions in that area during 1957 as the result of two years of well above normal water supply on the watershed.

TETON BASIN

C. D. Cooper, with office at Driggs, continued in 1957 as deputy watermaster in Teton Basin. Water supplies were good for what can be expected in that area which has to rely entirely on water provided by the natural stream flow.

Ground water levels in the basin reached a higher point even than in 1956 as evidenced by a higher flow at the Tetonia gaging station late in the summer.

The discharge of various streams and canals and stored water used in Teton Basin thru exchange for natural flow is shown on Plates 23, 24, 46-48.

Water distribution on Teton Creek between Wyoming and Idaho users was in accordance with the 1940 Federal Court decree. Stored water diversions by Teton Basin users, thru exchange for natural flow, were made on the usual basis of diverting 1.625 times the amount of their storage delivered to lower Teton River at the St. Anthony gaging station.

The Fremont-Madison District allotted 6,590 acre-feet of storage to Teton Basin users and rented them an additional 721 acre-feet for a total of 7,311 acre-feet. Allowing for transmission losses and the 1.625 diversion ratio this would give an allowable diversion of 10,372 acre-feet. The Basin users actually diverted 9,254 acre-feet. Some of the users diverted more than their allotment and had to rent additional water while others did not use their full allotment.

Mr. Seth Hansen of Tetonia again served as special deputy on the Leigh Creeks on an hourly basis for time actually spent. One-half of the cost of his services, amounting to \$236.00, was charged to the local users and one-half to general expense of District No. 36.

SWAN VALLEY

David Peterson served as Deputy Watermaster in the Swan Valley area and also served as canal watermaster on the various canals. The local users were charged \$5 per day or \$480 total for this service, and the balance of the cost was charged as a general District 36 expense. There was a fairly good supply of water in the local creeks and the waterusers rented 802 acre-feet of storage so as to fully utilize the available flow.

PRECIPITATION IN INCHES

(Actual and normal for year ending September 30, 1957)

Month	<u>Snake R.</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.	2.74	1.91	1.94	1.43	.86	1.09	2.61	1.58	1.52	1.26
Nov.	2.43	2.91	1.60	1.80	.32	1.10	1.31	1.73	.81	1.15
Dec.	3.11	4.10	2.29	2.40	.81	1.67	2.56	2.24	.96	1.25
Jan.	4.22	3.76	2.20	2.24	.78	1.47	1.76	2.14	1.25	1.42
Feb.	4.94	3.55	3.51	2.18	.83	1.41	2.01	1.87	1.13	1.15
Mar.	3.13	3.63	2.49	2.05	.44	1.28	2.90	2.00	1.33	1.14
Apr.	4.16	2.20	1.98	1.69	1.66	1.16	2.62	1.56	2.13	1.06
May	2.74	2.44	2.88	1.89	2.58	1.51	6.12	2.00	3.30	1.67
June	3.12	2.56	2.10	1.86	1.40	1.59	2.27	2.17	2.39	1.53
July	1.01	1.43	1.49	1.02	.79	.78	1.05	.93	.35	.97
Aug.	2.04	1.39	1.61	1.33	1.01	1.19	1.14	1.05	1.97	.87
Sept.	1.19	1.65	1.16	1.32	.43	1.08	.78	1.25	.27	1.18
Year	34.83	31.53	25.25	21.21	11.91	15.33	27.13	20.52	17.41	14.65

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.	2.44	1.28	2.11	.98	2.56	1.04	2.46	.91	2.14	1.27
Nov.	.97	1.30	.92	.79	.25	1.06	.21	1.08	.98	1.43
Dec.	1.61	1.64	.18	1.06	.55	1.14	1.00	.90	1.45	1.82
Jan.	2.05	1.88	.71	1.31	.71	1.21	.48	1.10	1.57	1.84
Feb.	1.49	1.52	.71	.97	.72	.93	.86	.88	1.80	1.61
Mar.	2.02	1.21	.89	1.08	1.24	1.13	1.22	.85	1.74	1.60
Apr.	1.14	1.16	1.06	.94	1.74	1.32	1.57	1.11	2.00	1.36
May	4.39	1.71	2.57	1.24	3.11	1.21	2.92	1.03	3.40	1.63
June	1.61	1.66	1.29	1.21	.26	1.02	.98	.81	1.71	1.60
July	.90	.94	.16	.62	.44	.76	.22	.35	.71	.87
Aug.	1.29	.79	.37	.59	.60	.72	.21	.22	1.14	.91
Sept.	.55	1.12	.02	.82	.02	.90	.06	.57	.49	1.10
Year	20.46	16.21	10.99	11.61	12.20	12.44	12.19	9.81	19.13	17.04

On an average at the nine stations the yearly precipitation was

about 10% above normal, agreeing quite well percentage-wise with the annual run-off on the main river.

EXPENDITURES DURING YEAR ENDING DECEMBER 31, 1957

Engineers and Hydrographers

Lynn Crandall	Salary 1 year	\$10,131.01
H. C. Eagle	Salary 1 year	7,465.24
O. P. Mortensen	Salary 5 months @ \$350 mo.	1,750.00
C. D. Cooper	Salary 3.53 mo. @ \$350 mo.	1,234.03
A. H. Bush	Salary 3 months @ \$350 mo.	1,050.00
Oleen Dummer	Salary 5.52 mo. @ \$350 mo.	1,930.50
R. H. Seymour	Salary 2 1/2 days @ \$14 & \$15 day	36.50

Clerk

Charlotte M. Elg	Salary 1 year	3,860.61
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River Riders

D. R. Anthony	83 days @ \$9.50 incl. mileage,	812.50
	2 days @ \$12.00 incl. mileage	788.50
J. M. Brown	83 days @ \$9.50 incl. mileage	378.00
J. A. Balmforth	36 days @ \$10.50 incl. mileage	767.75
C. J. Anderson	83 days @ \$ 9.25 incl. mileage	1,344.00
David Peterson	96 days @ \$14.00 incl. mileage	1,080.00
Joseph Bohi	90 days @ \$12.00 incl. mileage	1,080.00
S. B. Garrett	90 days @ \$12.00 incl. mileage	217.50
Elmer Lenz	2.9 mo. @ \$75.00 incl. mileage	241.50
Elmer Lenz	120.75 hr. @ \$2.00 incl. mileage	444.00
Seth L. Hansen	222 hrs. @ \$ 2.00 incl. mileage	9.50
Gale M. Bramwell	1 day @ \$ 9.50 incl. mileage	

Miscellaneous

Transportation, 43,077 miles @ 8¢ a mile	3,446.17
Telephone and telegraph	397.74
Supplies and equipment	1,681.71
Gage Readers	627.28
Bond Premium and Insurance	146.70
Interest	112.00
Social Security	242.49
Miscellaneous (subsistence)	706.52
Groundwater Investigations	1,500.00
Postage	313.27
N. V. Sharp, trip to Washington	352.83
Retirement Fund (Federal)	598.43
Total	\$ 44,746.28

Expenditures from various funds

Waterusers Funds	
State of Idaho Stream Gaging Fund	\$27,863.64
U. S. Geological Survey	3,422.77
U. S. Bureau of Reclamation	9,529.96
	<u>3,929.91</u>
Total	\$44,746.28

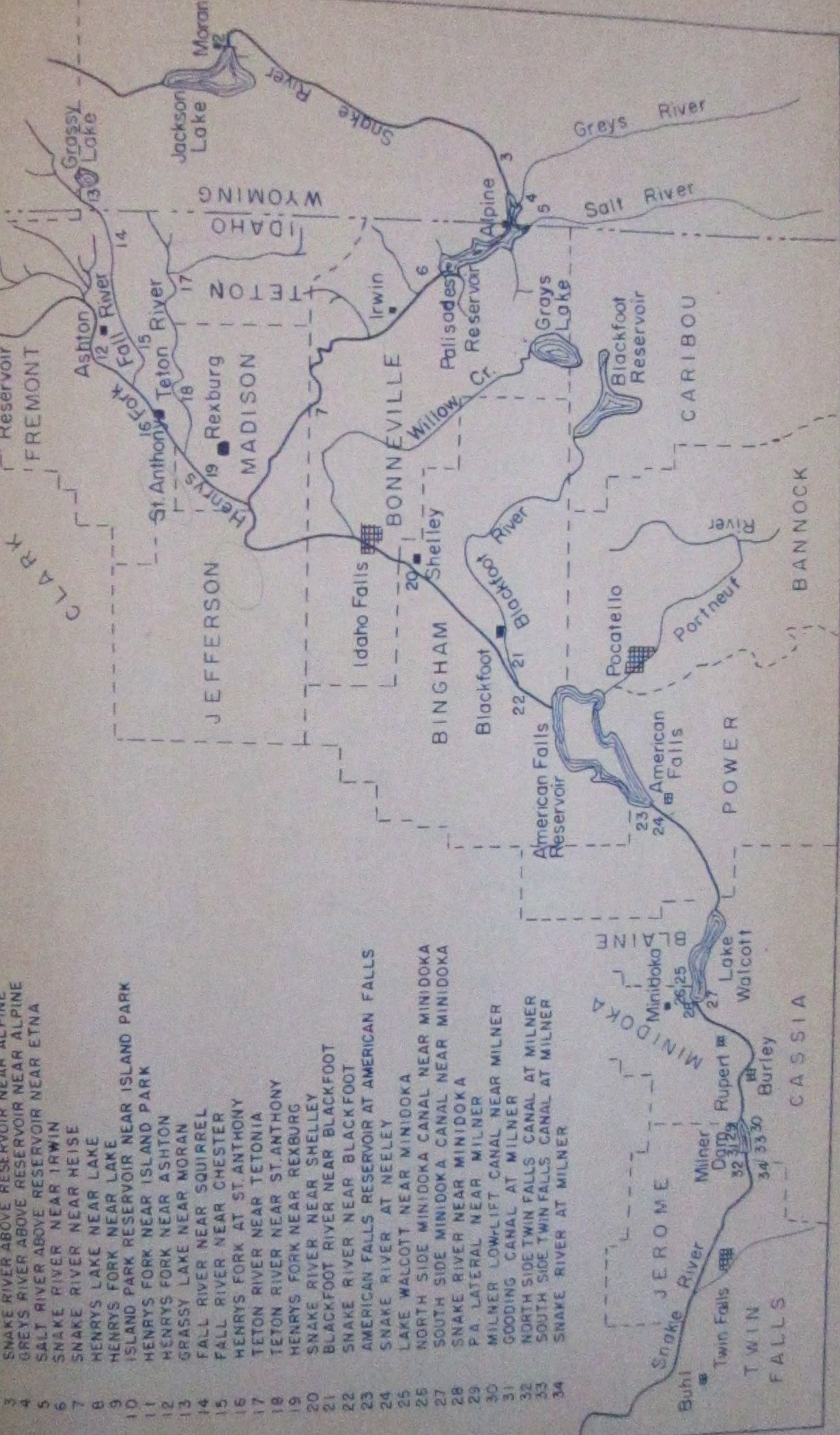
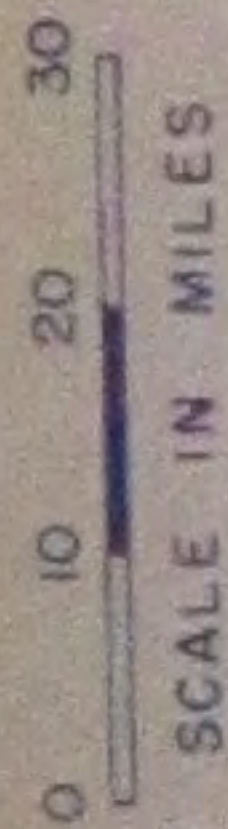
In addition to the foregoing, upper valley members of the Committee of Nine were paid \$877.76 for services at \$10.00 per day, and expenses, which was pro-rated among upper valley canals.

Funds on hand January 1, 1958

District 36 Waterusers Fund	\$ 5,233.51
State of Idaho Stream Gaging Fund	1,750.00
U. S. Geological Survey regular funds	5,708.42
U. S. Bureau of Reclamation Funds	<u>2,570.21</u>
Total	\$15,262.14

PRINCIPAL STREAMS AND GAGING STATIONS WATER DISTRICT NO. 36

- | NO. | STATION |
|-----|--|
| 1 | JACKSON LAKE AT MORAN |
| 2 | Snake River at Moran |
| 3 | Snake River above reservoir near Alpine |
| 4 | Greys River above reservoir near Alpine |
| 5 | Salt River above reservoir near EtNA |
| 6 | Snake River near Irwin |
| 7 | Snake River near Heise |
| 8 | Snake River near Lake |
| 9 | Henrys Lake near Lake |
| 10 | Henrys Fork near Island Park |
| 11 | Island Park reservoir 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 Teton |
| 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 |



November

December

January

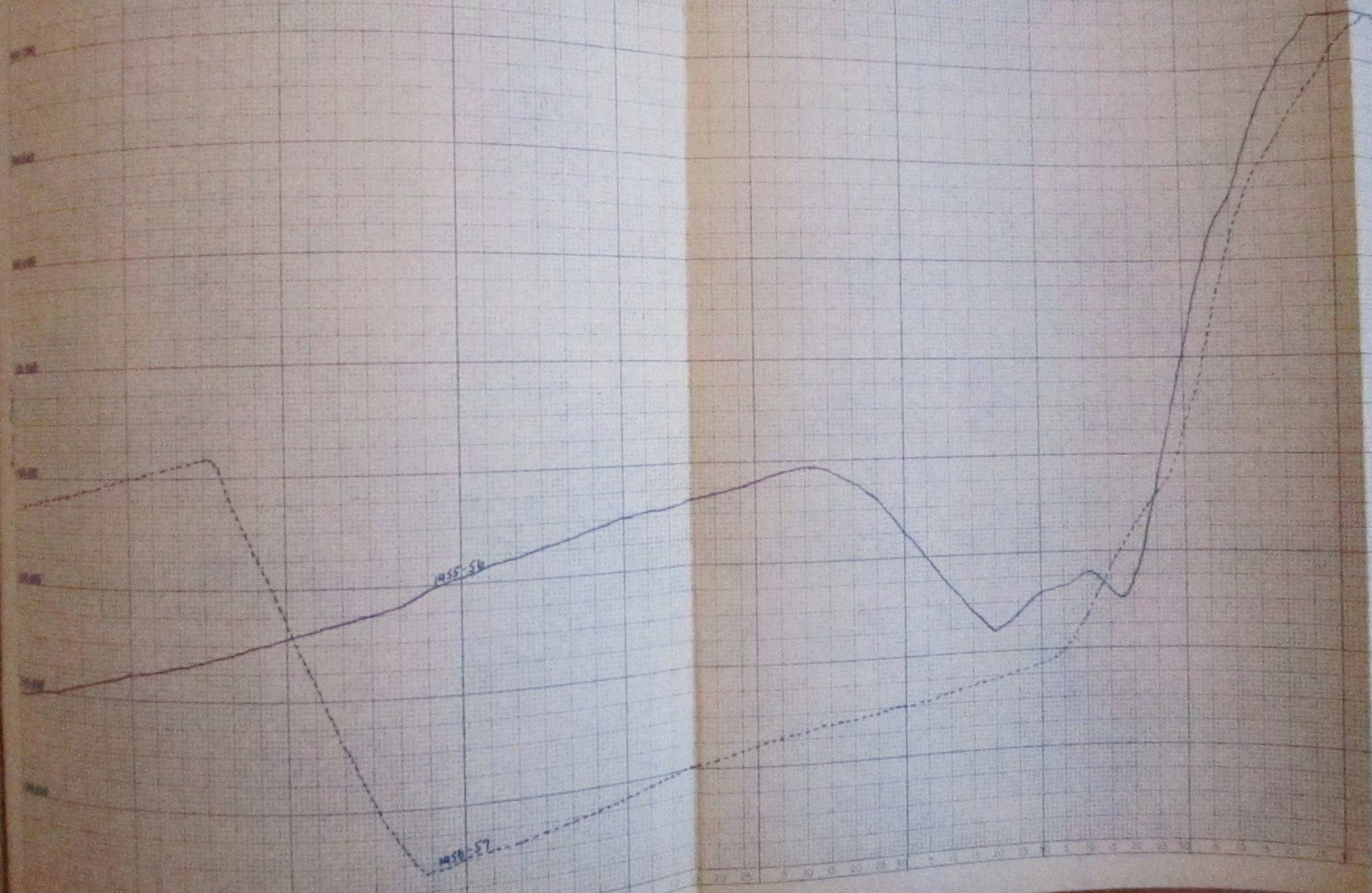
February

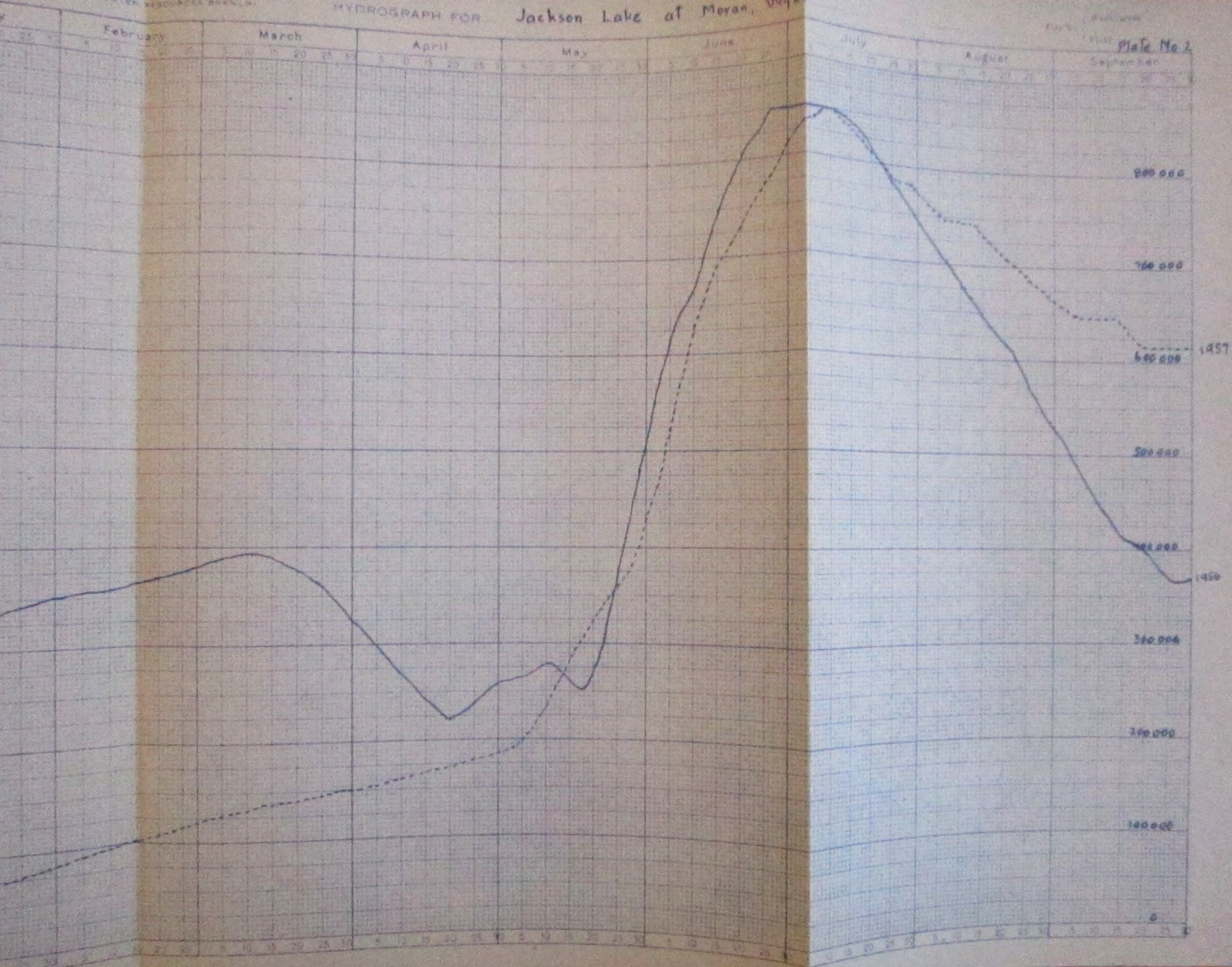
March

April

May

June





November

December

January

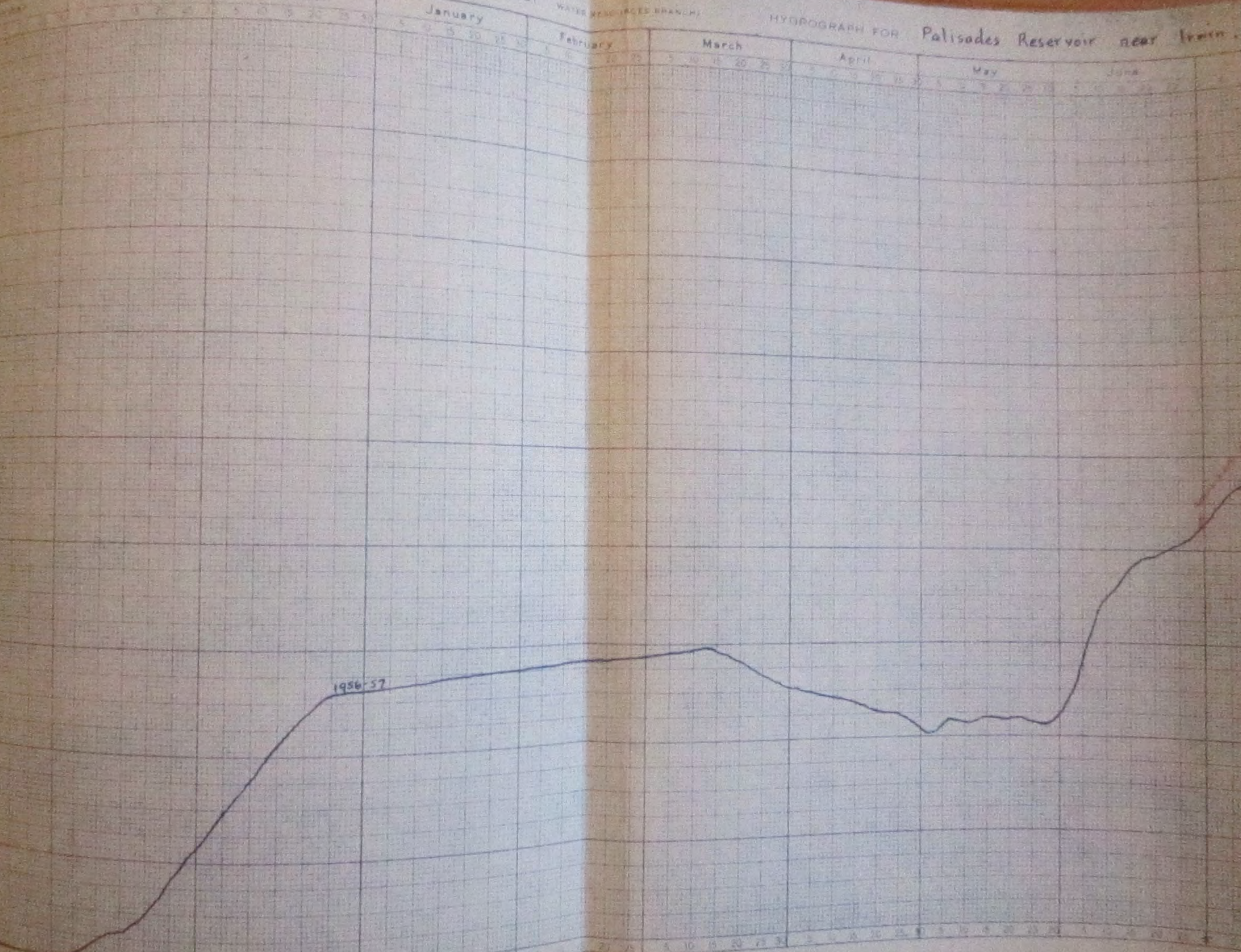
February

March

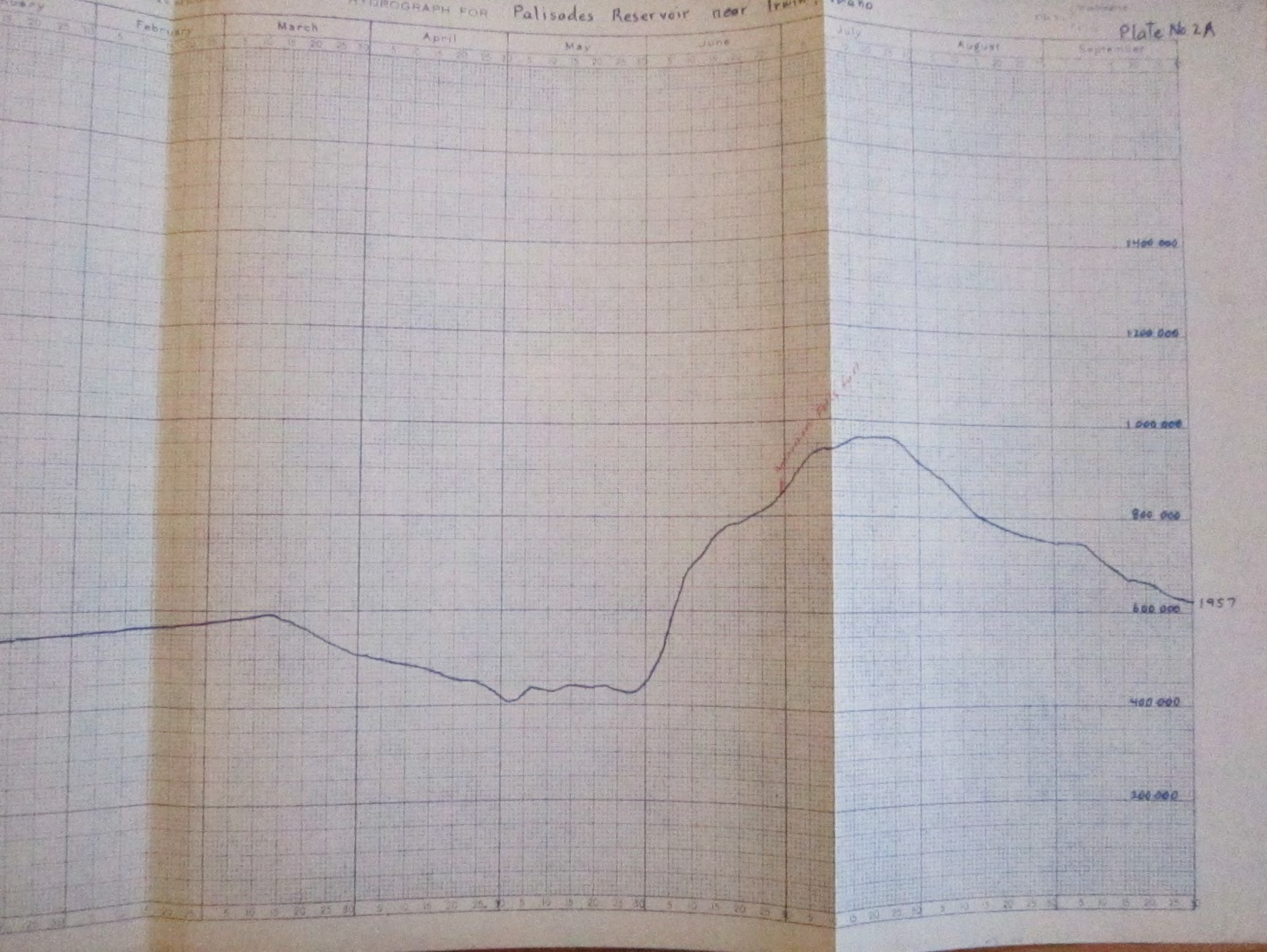
April

May

June



1956-57



November

December

January

February

March

April

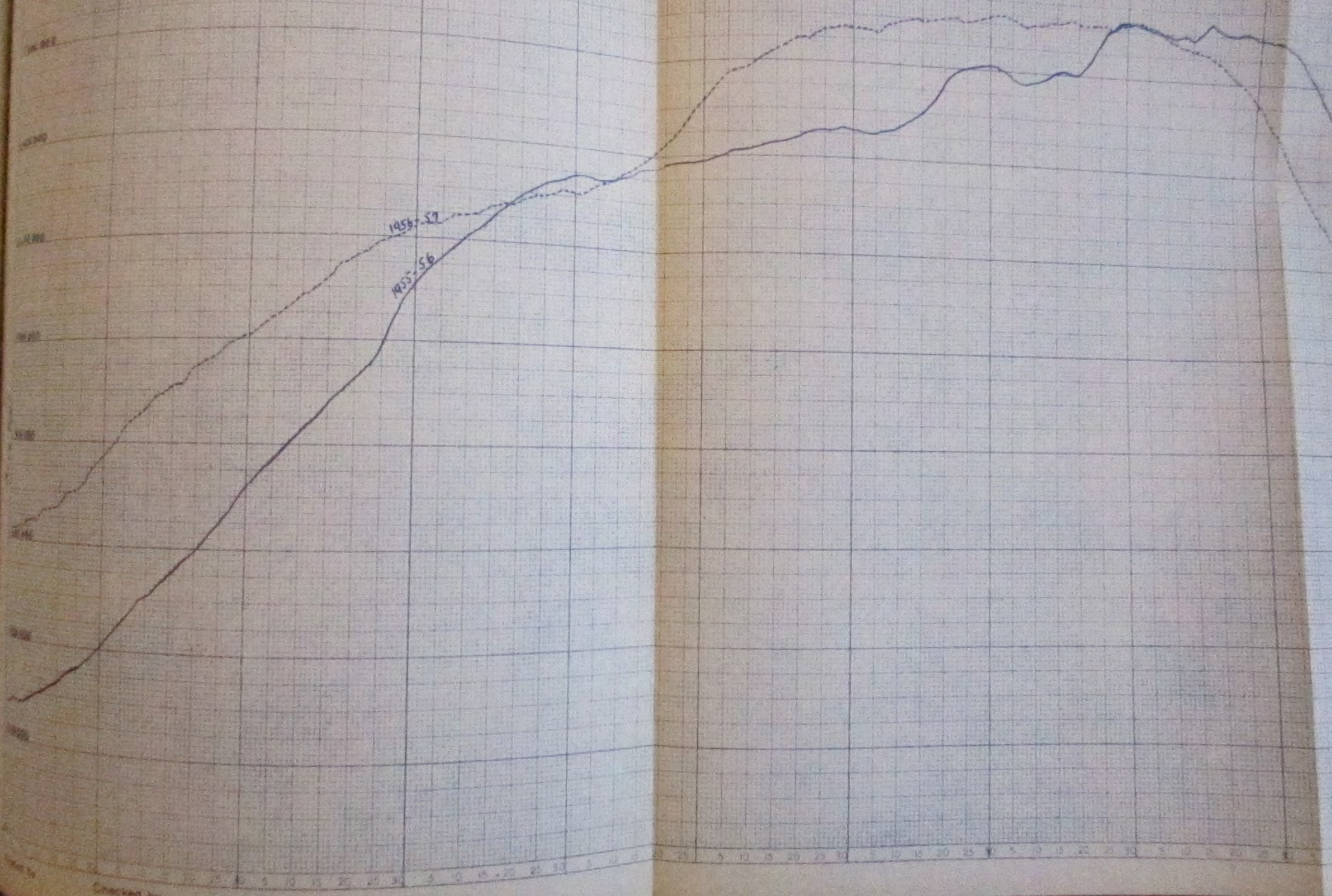
May

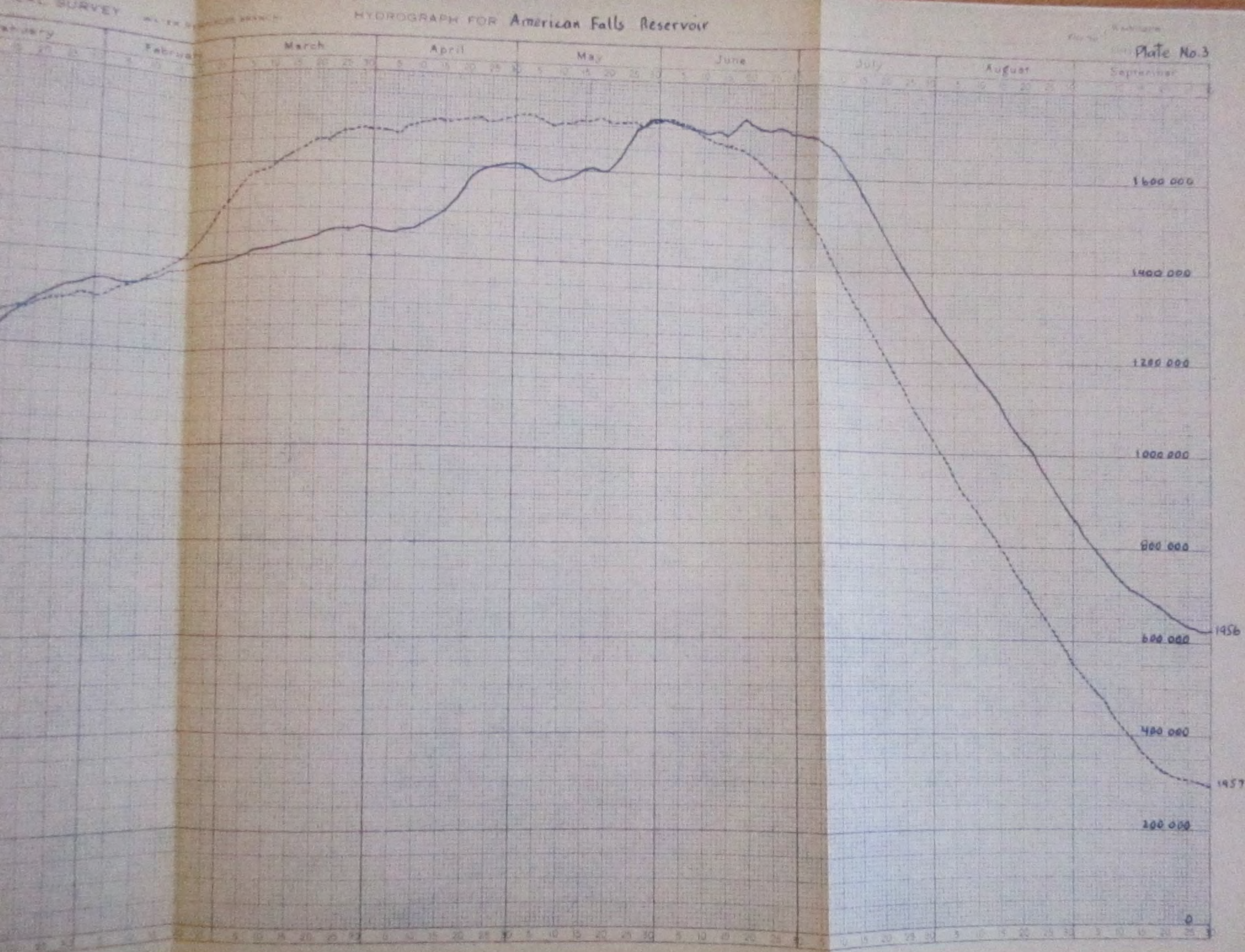
June

HYDROLOGICAL SURVEY

WATER RESOURCES DIVISION

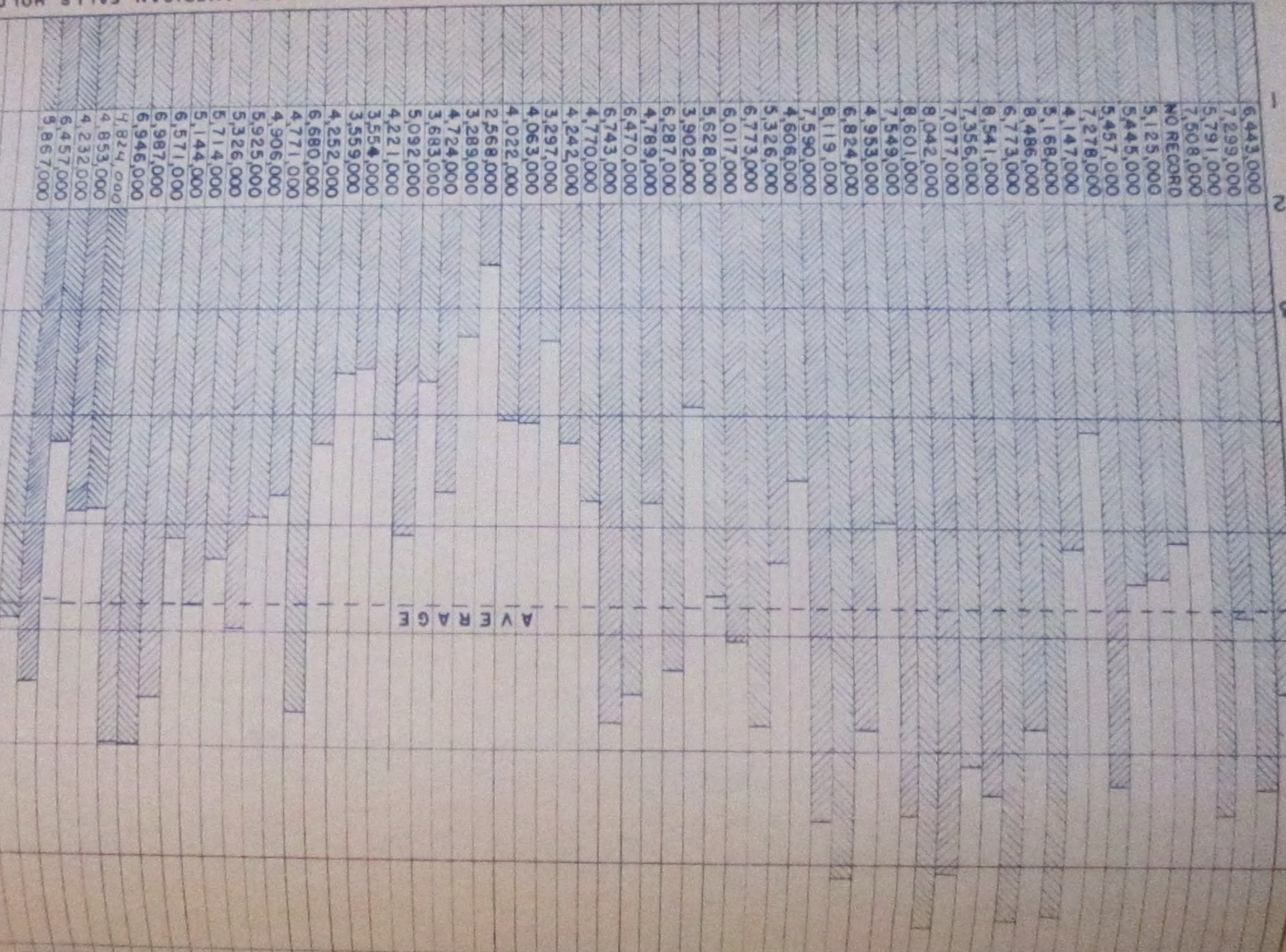
HYDROGRAPH FOR American Falls Reservoir





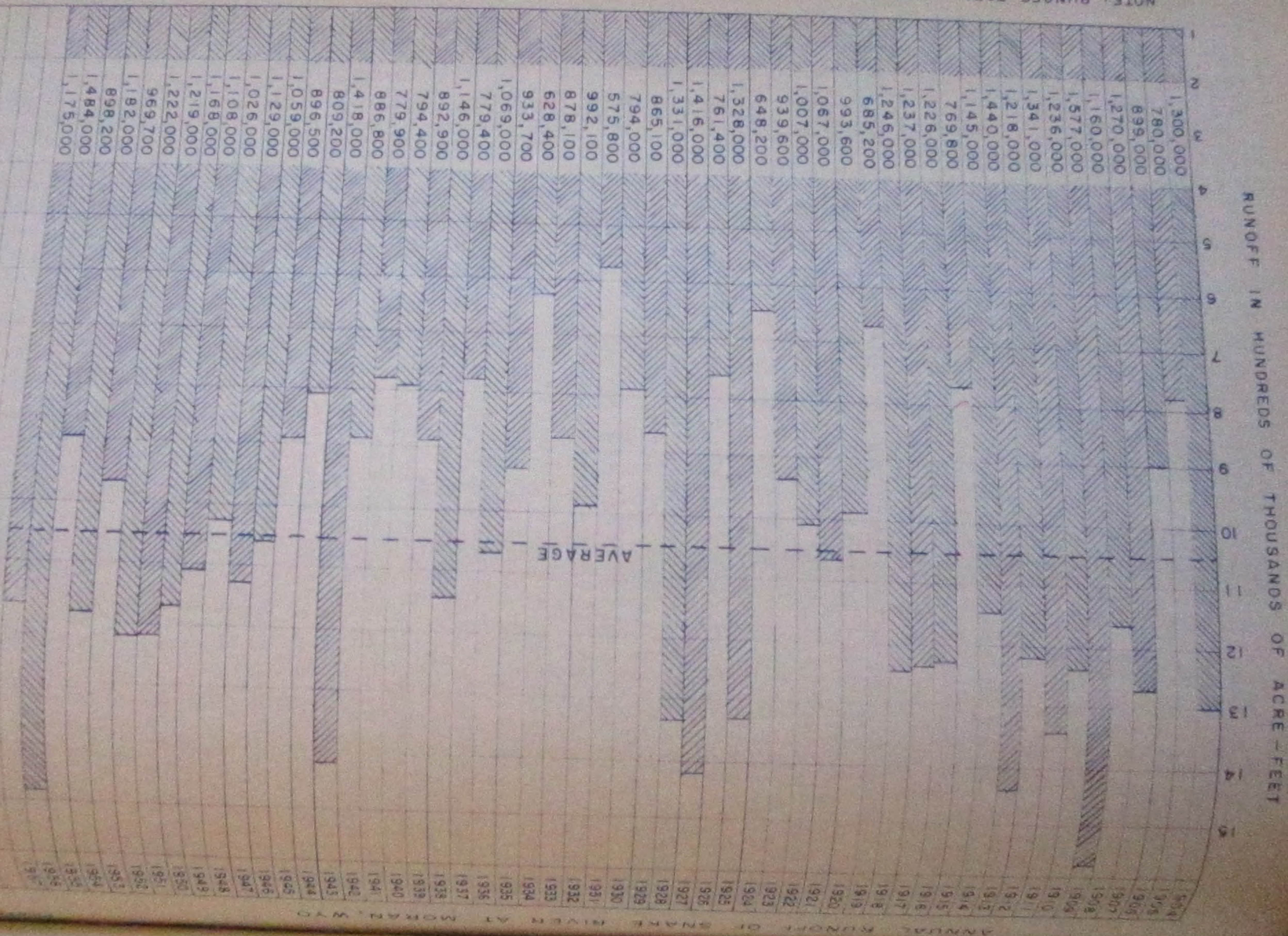
ANNUAL RUNOFF OF SNAKE RIVER AT NEELEY, IDAHO

1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957



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

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



NAME OF CANAL	INCHES	FEET	OF	SNAKE	RIVER	CANALS
WATSON - CRAIG	0	0	0	0	0	0
BUTLER ISLAND	0	0	0	0	0	0
ROSS & RAND	0	0	0	0	0	0
STEELE	0	0	0	0	0	0
HARRISON	60	60	60	60	60	60
CHENEY	80	70	80	90	150	150
DOOMER	8	8	8	8	8	8
RUDY	0	0	0	0	0	0
KITE & NORD	0	0	0	0	0	0
BURGESS	150	150	150	150	150	150
CLARK & EDWARDS	0	0	0	0	0	0
LOWDER & JENNINGS	0	0	0	0	0	0
EAST LABELLE	20	20	20	20	20	20
LUNNYDELL	0	0	0	0	0	0
LENROOT	0	0	0	0	0	0
REID	101	112	80	80	80	80
TEXAS FEEDER	0	0	0	0	0	0
NELSON COREY	0	0	0	0	0	0
HILL PETTINGER	0	0	0	0	0	0
RIGBY	0	0	0	0	0	0
ISLAND	0	0	0	0	0	0
DILTS	0	0	0	0	0	0
WEST LABELLE & LONG ISLAND	0	0	0	0	0	0
PARKS & LEWISVILLE	0	0	0	0	0	0
NORTH RIGBY	0	0	0	0	0	0
WHITE	0	0	0	0	0	0
ELLIS	0	0	0	0	0	0
BRAMWELL	0	0	0	0	0	0
BUTTE & MARKET LAKE	0	0	0	0	0	0
OSGOOD	0	0	0	0	0	0
BEAR ISLAND & SMITH	0	0	0	0	0	0
KENNEDY	0	0	0	0	0	0
IDAH0	0	0	0	0	0	0
GREAT WESTERN	0	0	0	0	0	0
PORTER	0	0	0	0	0	0
COX & KELLER	98	160	160	160	160	160
WOODVILLE	0	0	0	0	0	0
SNAKE RIVER VALLEY	0	0	0	0	0	0
TOTAL HEISE TO SHELLEY	439	522	519	619	662	820
RESERVATION	0	0	0	0	0	0
BLACKFOOT	0	0	0	0	0	0
NEW LAVA SIDE	0	0	0	0	0	0
PEOPLES	0	0	0	0	0	0
ABERDEEN	0	0	0	0	0	0
GORRITT	436	436	436	436	436	436
NIELSEN - HANSEN	0	0	0	0	0	0
RIVERSIDE	4	4	4	4	4	4
DANSKIN	32	32	32	32	32	32
TRAGO	77	72	72	72	72	72
WEARYRICK	0	0	0	0	0	0
WATSON	0	0	0	0	0	0
PARSONS	4	4	4	4	4	4
TOTAL SHELLEY TO BLACKFOOT	553	674	686	698	719	930

[illegible]

[illegible]

[illegible]

15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
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15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
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15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
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15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757	995	8268
15180	195530	13597	5244	3180	12022	28610	4250	275	3267	4847	1866	1387	757		

[illegible]

INFLOW TO AMERICAN FALLS RE

BETWEEN BLACKFOOT AND NEELEY STATIONS

24 HOUR SECOND-FOET

JUNE

JULY

6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
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452	407	375	335	294	290	266	262	242	230	236	245	236	224	209	200	203	185	172	146	127	114	104	97	86	93	93	76	68	110	134	95	51	47	31	24	24	32	29	26	29	17	22	23	23	
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82,257																																													

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87,364

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2,994

PLATE NO. II

S E P T E M B E R																																	
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82,647																																	

DAILY SEGREGATION

DATE	JACKSON LAKE CONTENTS ACRE-Feet	SNAKE RIVER AT MORAN			DATE	STORED LOSS MORAN TO ALPINE	SNAKE RIVER NEAR ALPINE			PALISADES RESERVOIR CONTENTS ACRE-Feet	SNAKE RIVER NEAR IRWIN			IRWIN TO HEISE		HEISE N. RILEY		
		STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL		STORED	NORMAL	TOTAL	STORED LOSS	STORED DIVERSIONS	STORED	NORMAL	TOTAL
JULY 2	824,070																	
3	830,180				JULY 3					896,900	-6400	17800	11100	-51		-8348	18166	11817
4	833,990				4					909,600	-5900	16900	11000	-47		-5853	17568	11715
5	835,520				5					921,300	-4140	15340	11200	-33		-4107	15920	11713
6	837,560				6					929,500	-2980	14580	11600	-24		-2956	16160	12204
7	841,880				7					935,400	-1210	13310	12100	-9		-1201	13805	12604
8	847,000				8					937,800	0	12500	12500	0		0	13205	13205
9	847,480	0	2870	2870	9					936,600	0	12500	12500	0		0	13211	13211
10	847,480	670	3070	3740	10		0	12600	12600	937,800	-1210	14210	13000	-9		-1201	14623	13422
11	845,700	1510	2970	4480	11	11	559	11041	11700	940,200	-1760	14960	13200	-14	0	-1756	15478	13722
12	842,900	1690	2950	4640	12	26	1484	11116	12600	945,000	-940	14340	13400	-8	5	-937	14759	13822
13	839,590	1800	2840	4640	13	29	1661	10639	12300	949,800	-760	13960	13200	-6	5	-759	14590	13831
14	836,030	1880	2740	4620	14	31	1769	10331	12100	953,400	-650	13350	12700	-5	5	-650	14081	13431
15	832,210	1920	2680	4600	15	32	1848	10052	11900	959,400	-20	12620	12600	0	5	-25	13055	13030
16	828,400	2030	2530	4560	16	33	1887	9613	11500	963,100	1290	11710	13000	10	5	1275	11956	13231
17	824,070	2170	2380	4550	17	35	1995	9005	11000	964,300	2000	11400	13400	16	5	1979	11653	13632
18	819,000	2190	2330	4520	18	37	2133	8467	10600	964,300	2130	11270	13400	17	5	2108	11524	13632
19	814,960	2220	2280	4500	19	37	2153	8547	10700	964,300	2150	11250	13400	17	5	2128	11504	13632
20	810,660	2430	1990	4440	20	38	2182	9118	11300	964,300	2180	11020	13200	17	5	2138	11542	13700
21	808,370	2500	1900	4400	21	41	2389	8311	10700	965,500	2390	10510	12900	19	5	2366	11034	13400
22	800,560	2570	1800	4370	22	43	2457	7743	10200	965,500	2460	10210	12670	20	5	2435	10796	13231
23	796,260	2670	1700	4370	23	44	2526	7184	9710	966,700	2700	9900	12600	22	5	2673	10459	13132
24	791,250	2640	1700	4340	24	45	2595	6765	9360	964,300	3200	9500	12700	26	5	3169	9863	13032
25	786,230	2720	1600	4320	25	46	2674	6366	9040	963,100	4100	8900	13000	33	5	4062	9271	13333
26	784,730	1270	1500	2770	26	22	1248	5472	6720	958,200	4500	8400	12900	36	5	4459	8774	13233
27	784,480	-467	1400	933	27	-8	-459	5819	5360	947,400	4900	8100	13000	39	5	4856	8477	13333
28	782,720	780	1300	2080	28	13	767	5353	6120	937,800	5400	7600	13000	43	5	5352	7973	13325
29	782,720	880	1200	2080	29	15	865	5205	6070	929,500	5500	7400	12900	44	5	5451	7782	13233
30	781,220	1300	1200	2500	30	22	1278	5442	6720	921,300	5800	7000	12800	46	5	5749	7284	13033
31	777,960	2300	1040	3340	31	39	2261	4899	7260	913,100	5800	6800	12600	46	5	5749	7185	12934
AUG 1	773,940	2340	990	3330	AUG. 1	40	2300	4790	7090	907,300	5800	6600	12400	46	10	5744	6989	12733
2	769,440	2350	970	3320	2	40	2310	4550	6860	901,500	5700	6400	12100	46	10	5644	7089	12733
3	765,210	2360	960	3320	3	40	2320	4400	6720	894,600	5800	6300	12100	46	10	5744	6582	12326
4	759,230	2370	950	3320	4	40	2330	4230	6560	887,700	5800	6100	11900	46	10	5744	6562	12326
5	756,490	2360	940	3300	5	40	2320	4130	6450	885,400	5600	5800	11400	45	10	5645	6461	12046
6	751,760	2370	930	3300	6	40	2330	4050	6380	875,200	5900	5400	11300	47	10	5853	5973	11826
7	747,280	1380	920	2300	7	23	1367	3713	5070	868,500	6200	5100	11300	50	10	6140	5686	11826
8	745,790	120	890	1010	8	2	118	3932	4050	858,400	6100	5000	11100	49	10	6041	5682	11723
9	745,790	130	880	1010	9	2	128	3752	3880	847,300	5900	5000	10900	47	10	5843	5580	11423
10	745,300	113	880	993	10	2	111	3669	3680	837,400	5800	4900	10700	46	10	5744	5479	11223
11	744,550	-40	870	830	11	-1	-39	3459	3420	825,400	5600	4900	10500	45	10	5645	5671	11116
12	744,800	-30	860	830	12	0	-30	3390	3360	815,700	5200	4900	10100	42	10	5148	5580	10728
13	744,310	650	850	1500	13	11	639	3581	4220	806,000	4910	4850	9760	39	10	4861	5485	10326
14	740,840	2180	840	3020	14	37	2143	2997	5140	800,600	4610	4800	9410	37	10	4563	5561	10124
15	735,900	2210	830	3040	15	38	2172	3018	5190	795,300	4110	4800	8910	33	10	4067	5547	9614
16	731,450	2230	820	3050	16	38	2192	3048	5240	792,100	4140	4600	8740	33	10	4097	5389	9486
17	727,740	2230	810	3040	17	38	2192	2948	5140	787,900	3750	4600	8380	30	10	3710	5510	9220
18	723,040	2220	800	3020	18	38	2182	2838	5020	784,700	3460	4600	8060	28	10	3422	5342	8764
19	718,860	2210	800	3010	19	38	2172	2828	5000	780,500	4090	4550	8640	33	10	4047	5279	9326
20	712,960	2210	800	3010	20	38	2172	2828	5000	775,200	4090	4550	8640	33	10	4047	5209	9256
21	709,770	2200	790	3000	21	37	2163	2717	4880	772,100	3890	4550	8440	31	10	3843	5377	9220
22	705,600	2210	780	2990	22	37	2172	2688	4860	768,900	3270	4540	7810	26	10	3234	5430	8664
23	697,000	2180	780	2960	23	37	2153	2707	4860	766,800	3180	4530	7710	25	10	3145	5267	8410
24	691,640	2180	780	2960	24	37	2143	2627	4770	763,700	3220	4520	7740	26	10	3184	5219	8403
					25	37	2143	2537	4680	760,600	3240	4500	7740	26	10	3204	5128	8332

ION OF DATA AT AND BETWEEN SNAKE RIVER GAG

24 HOUR SECOND-FEET EXCEPT AS NOTED

AGING STATIONS

1957

LAKE RIVER NEELLEY		LAKE WALCOTT		MINIDOKA CANALS				SNAKE RIVER NEAR MINIDOKA		DATE	MILNER LAKE GAGE FEET	MINIDOKA NORTH SIDE PUMP STORED	MINOR DIVERSIONS MINIDOKA TO MILNER STORED	GOODING PROJECT			NORTH SIDE CANAL			
NORMAL	TOTAL	ACRE-FOOT	CONTENTS	NORTH	SOUTH	TOTAL	STORED	NORMAL	STORED					STORED	NORMAL	TOTAL	RA	GOODING	MAIN	TOTAL
4	10576	12800	95,670	1770	1320	3090	364	2726	1600	JULY 7	10.74									
1	9599	12700	97,350	1780	1330	3110	384	2726	1600	8	10.76	238	2	1370	240	1610	70	1050	2890	4010
5	7845	12700	97,960	1780	1340	3120	394	2726	1600	9	11.03	242	2	1620	0	1620	70	1030	2890	3920
6	6344	12800	98,320	1780	1340	3120	394	1726	1600	10	10.98	244	2	1620	0	1620	70	1020	2880	3900
5	5165	12600	98,280	1780	1320	3100	1374	1726	1600	11	11.08	244	2	1620	0	1620	70	1000	2880	3880
6	5594	12400	98,800	1780	1340	3120	1394	1726	1600	12	11.06	244	2	1640	0	1640	70	1010	2880	3950
0	5340	12400	98,560	1770	1340	3110	1384	1726	1600	13	10.98	244	2	1640	0	1640	70	1000	2860	3930
4	8576	12300	98,320	1740	1290	3030	1304	1726	1600	14	10.92	244	2	1620	0	1620	70	990	2840	3900
5	7984	12500	97,110	1690	1250	2940	976	1964	3770	15	11.00	244	2	1620	0	1620	70	970	2830	3870
2	7598	12600	95,910	1660	1300	2960	1234	1726	1600	16	11.11	244	2	1640	0	1640	70	990	2860	3920
2	7908	12500	95,430	1670	1290	2960	1052	1908	3930	17	11.00	244	2	1640	0	1640	70	1000	2870	3940
8	6912	12500	93,790	1740	1290	3030	1304	1726	1600	18	11.08	244		1620	0	1620	70	970	2840	3890
5	4355	12700	94,490	1770	1310	3080	2125	955	6300	19	11.02	244		1630	0	1630	70	970	2860	3900
3	4257	13100	95,180	1750	1300	3050	2193	857	6240	20	10.95	244		1620	0	1620	70	960	2860	3890
0	4100	13200	95,670	1730	1300	3030	2330	700	6370	21	11.00	244		1620	0	1620	72	960	2840	3862
5	4074	13300	98,670	1690	1300	2990	2316	674	6600	22	11.08	244	2	1640	0	1640	72	970	2850	3892
8	4212	13200	96,150	1680	1290	2970	2158	812	6560	23	11.12	244	2	1630	0	1630	72	960	2860	3892
7	2873	13100	96,270	1680	1290	2970	2970	0	6737	24	11.06	244	2	1620	0	1620	72	960	2860	3892
4	2881	13100	97,350	1690	1290	2980	2980	0	6849	25	11.09	244	2	1600	0	1600	72	930	2860	3862
4	2896	12700	97,590	1690	1270	2960	2960	0	6714	26	11.04	240	2	1600	0	1600	72	940	2850	3862
9	2891	12600	96,870	1680	1250	2930	2930	0	6619	27	11.03	240	2	1590	0	1590	72	920	2840	3832
1	2879	12800	95,910	1680	1240	2920	2920	0	6731	28	11.02	240	2	1590	0	1590	72	920	2860	3862
6	2874	12800	95,790	1670	1290	2960	2960	0	6696	29	11.00	240	2	1600	0	1600	72	920	2860	3862
7	2883	12900	95,910	1670	1340	3010	3010	0	6657	30	11.02	235	2	1600	0	1600	72	930	2860	3862
2	2908	12800	95,670	1640	1310	2950	2950	0	6602	31	11.05	221		1590	0	1590	72	930	2870	3872
8	2902	12700	95,430	1660	1270	2830	2830	0	6608	AUG. 1	10.98	202		1600	0	1600	72	910	2880	3862
2	2888	12500	94,720	1420	1270	2690	2690	0	6782	2	11.04	207		1600	0	1600	72	920	2840	3832
3	2881	12400	95,430	1350	1270	2620	2620	0	6629	3	11.08	202		1600	0	1600	72	940	2880	3892
3	2901	12300	95,910	1350	1260	2610	2610	0	6329	4	11.10	198	2	1590	0	1590	72	930	2760	3752
8	2902	12300	96,870	1360	1240	2600	2600	0	6208	5	11.10	198	2	1580	0	1580	72	940	2740	3752
1	2899	12200	96,630	1370	1200	2570	2570	0	6361	6	11.04	193	2	1560	0	1560	74	930	2720	3724
9	2911	11700	96,830	1350	1200	2550	2550	0	6319	7	11.11	193	2	1570	0	1570	74	950	2740	3764
1	2889	11400	96,030	1380	1190	2570	2570	0	6281	8	11.14	193	2	1530	0	1530	74	950	2730	3764
1	2866	11300	95,430	1440	1160	2600	2600	0	5741	9	10.94	193		1490	0	1490	72	940	2730	3742
1	2869	11200	95,310	1460	1150	2610	2610	0	6031	10	10.88	181		1500	0	1500	72	960	2760	3782
5	2856	11400	93,550	1450	1160	2610	2610	0	6875	11	11.14	181		1490	0	1490	72	950	2780	3782
7	2853	11800	92,040	1500	1160	2660	2660	0	6377	12	11.14	183		1500	0	1500	72	950	2740	3762
5	2865	12000	92,510	1540	1160	2700	2700	0	6275	13	11.13	183		1470	0	1470	72	930	2740	3742
2	2918	12000	93,320	1580	1210	2790	2790	0	5922	14	11.06	183	2	1450	0	1450	72	920	2740	3732
5	2945	12600	94,020	1600	1230	2830	2830	0	5785	15	10.88	183	2	1450	0	1450	72	910	2730	3712
1	2899	13000	96,390	1590	1250	2840	2840	0	6091	16	10.93	183	2	1460	0	1460	72	930	2760	3762
4	2906	12600	98,200	1560	1270	2830	2830	0	6324	17	11.00	183	2	1450	0	1450	70	920	2760	3760
0	2940	12300	98,080	1520	1260	2780	2780	0	6170	18	11.02	183	2	1450	0	1450	70	930	2760	3760
5	2925	12100	98,560	1530	1250	2780	2780	0	6065	19	11.01	183		1420	0	1420	70	930	2760	3760
7	2943	11800	98,320	1520	1240	2760	2760	0	6077	20	11.04	178		1410	0	1410	72	920	2760	3772
3	2951	11800	98,080	1520	1240	2760	2760	0	6039	21	11.06	170		1410	0	1410	71	920	2760	3761
2	2938	11700	97,840	1520	1240	2760	2760	0	5902	22	10.97	167		1400	0	1400	70	920	2770	3780
5	2957	11600	97,230	1490	1210	2700	2700	0	5823	23	10.96	167		1410	0	1410	70	920	2760	3750
9	2971	11500	97,840	1390	1170	2560	2560	0	5839	24	10.90	167		1440	0	1440	70	930	2760	3750
5	2985	11400	96,750	1320	1150	2470	2470	0	6245	25	10.98	167	2	1460	0	1460	65	930	2780	3780
6	2964	11500	96,030	1300	1140	2440	2440	0	6176	26	10.94	167	2	1450	0	1450	65	930	2780	3775
6	2934	11600	95,910	1290	1150	2440	2440	0	6206	27	10.91	167	2	1450	0	1450	65	930	2780	3775
9	2941	11700	95,180	1350	1200	2550	2550	0	6139	28	10.90	167	2	1430	0	1430	65	940	2780	3775
5	2965	11700	95,430	1350	1240	2590	2590	0	6175	29	10.96	167	2	1430	0	1430	65	940	2780	3785

DATE	MILNER LAKE GAGE FEET	MINIDOKA NORTH SIDE PUMP STORED	MINOR DIVERSIONS MINIDOKA TO MILNER STORED	GOODING PROJECT			NORTH SIDE CANAL COMPANY				TWIN FALLS CANAL COMPANY		MILNER LOW LIFT			SNAKE RIVER AT MILNER		
				STORED	NORMAL	TOTAL	P.A.	GOODING	MAIN	TOTAL	STORED	NORMAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL
JULY 7	10.74	238	2	1370	240	1610	70	1050	2690	4010	0	4010	50	3600	3650	0	0	0
8	10.76	242	2	1620	0	1620	70	1030	2690	3990	717	3273	60	3600	3660	0	0	0
9	11.03	242	2	1620	0	1620	70	1020	2880	3970	1051	2919	680	3000	3680	32	0	32
10	10.98	244	2	1620	0	1620	70	1000	2880	3950	2332	1618	690	3000	3690	218	0	218
11	11.08	244	2	1640	0	1640	70	1010	2880	3960	3521	439	660	3000	3660	241	0	241
12	11.08	244	2	1640	0	1640	70	1000	2860	3930	3062	868	710	3000	3710	240	0	240
13	10.98	244	2	1620	0	1620	70	990	2840	3900	3286	614	710	3000	3710	239	0	239
14	10.92	244	2	1620	0	1620	70	970	2830	3870	2020	1850	670	3000	3670	237	0	237
15	11.00	244	2	1640	0	1640	70	990	2860	3920	920	3000	630	3000	3630	236	0	236
16	11.11	244	2	1640	0	1640	70	1000	2870	3940	1068	2872	630	3000	3630	234	0	234
17	11.00	244		1620	0	1620	70	970	2840	3880	880	3000	630	3000	3630	233	0	233
18	11.08	244		1630	0	1630	70	970	2860	3900	1714	2186	630	3000	3630	233	0	233
19	11.02	244		1620	0	1620	70	960	2860	3890	3490	400	690	3000	3690	233	0	233
20	10.95	244		1620	0	1620	72	950	2840	3862	3462	400	710	3000	3710	233	0	233
21	11.00	244	2	1640	0	1640	72	970	2850	3892	3492	400	720	3000	3720	233	0	233
22	11.08	244	2	1630	0	1630	72	960	2860	3892	3492	400	680	3000	3680	233	0	233
23	11.12	244	2	1620	0	1620	72	960	2860	3892	3492	400	670	3000	3670	233	0	233
24	11.06	244	2	1600	0	1600	72	930	2860	3862	3524	338	1135	2535	3670	250	0	250
25	11.09	244	2	1600	0	1600	72	940	2850	3862	3523	339	1128	2542	3670	254	0	254
26	11.04	240	2	1590	0	1590	72	920	2840	3832	3491	341	1115	2555	3670	254	0	254
27	11.03	240	2	1590	0	1590	72	920	2860	3852	3512	340	1119	2551	3670	254	0	254
28	11.02	240	2	1600	0	1600	72	920	2860	3852	3513	339	1130	2540	3670	254	0	254
29	11.00	240	2	1600	0	1600	72	930	2860	3862	3524	338	1134	2536	3670	254	0	254
30	11.02	235	2	1600	0	1600	72	930	2870	3872	3533	339	1106	2544	3650	254	0	254
31	11.05	221		1590	0	1590	72	910	2880	3862	3520	342	1074	2566	3640	254	0	254
AUG 1	10.98	202		1600	0	1600	72	920	2840	3832	3490	342	1070	2560	3630	254	0	254
2	11.04	207		1600	0	1600	72	940	2880	3892	3552	340	1072	2548	3620	254	0	254
3	11.08	202		1600	0	1600	72	940	2800	3812	3473	339	1058	2542	3600	254	0	254
4	11.10	198	2	1590	0	1590	72	930	2750	3752	3410	342	1011	2559	3570	245	0	245
5	11.10	198	2	1580	0	1580	72	940	2740	3752	3410	342	1000	2560	3560	245	0	245
6	11.04	193	2	1560	0	1560	74	930	2720	3724	3383	341	1002	2558	3560	245	0	245
7	11.11	193	2	1570	0	1570	74	950	2740	3764	3421	343	982	2568	3550	245	0	245
8	11.14	193	2	1530	0	1530	74	950	2730	3754	3414	340	961	2549	3510	245	0	245
9	10.94	193		1490	0	1490	72	940	2730	3742	3404	338	989	2531	3520	245	0	245
10	10.88	181		1500	0	1500	72	950	2760	3782	3444	338	949	2531	3480	245	0	245
11	11.14	181		1490	0	1490	72	950	2760	3782	3446	336	941	2519	3460	245	0	245
12	11.14	183		1500	0	1500	72	950	2740	3762	3426	336	1003	2517	3520	245	0	245
13	11.13	183		1470	0	1470	72	930	2740	3742	3405	337	1022	2528	3550	239	0	239
14	11.08	183	2	1450	0	1450	72	920	2740	3732	3388	344	976	2574	3550	239	0	239
15	10.88	183	2	1450	0	1450	72	910	2730	3712	3366	346	941	2599	3540	239	0	239
16	10.93	183	2	1460	0	1460	72	930	2760	3762	3421	341	992	2558	3550	239	0	239
17	11.00	183	2	1450	0	1450	70	920	2760	3750	3408	342	966	2564	3550	239	0	239
18	11.02	183	2	1450	0	1450	70	930	2760	3760	3414	346	956	2594	3550	239	0	239
19	11.01	183		1420	0	1420	70	930	2760	3760	3416	344	969	2581	3550	239	0	239
20	11.04	178		1410	0	1410	72	920	2780	3772	3426	346	933	2597	3530	239	0	239
21	11.06	170		1410	0	1410	71	920	2760	3751	3404	347	916	2604	3520	239	0	239
22	10.97	167		1400	0	1400	70	920	2770	3760	3414	346	948	2592	3540	239	0	239
23	10.98	167		1410	0	1410	70	920	2760	3750	3402	348	931	2609	3540	239	0	239
24	10.90	167		1440	0	1440	70	920	2760	3750	3400	350	919	2621	3540	239	0	239
25	10.98	167	2	1460	0	1460	70	930	2780	3780	3428	352	907	2633	3540	239	0	239
26	10.94	167	2	1450	0	1450	65	930	2780	3775	3426	349	925	2615	3540	236	0	236
27	10.91	167	2	1450	0	1450	65	930	2780	3775	3429	346	952	2588	3540	236	0	236
28	10.90	167	2	1440	0	1440	65	930	2780	3775	3429	346	935	2595	3530	236	0	236
29	10.95	167	2	1430	0	1430	65	940	2780	3775	3429	349	904	2616	3520	236	0	236

DAILY SEGREGATION

DATE	JACKSON LAKE CONTENTS ACRE-FEET	SNAKE RIVER AT MORAN			DATE	STORED LOSS MORAN TO ALPINE	SNAKE RIVER NEAR ALPINE			PALISADES RESERVOIR CONTENTS ACRE-FEET	SNAKE RIVER NEAR IRWIN			IRWIN TO HEISE		HEISE & RILEY			STO INF
		STORED	NORMAL	TOTAL			STORED	NORMAL	TOTAL		STORED	NORMAL	TOTAL	STORED LOSS	STORED DIVERSIONS	STORED	NORMAL	TOTAL	
AUG. 25	687,490	2170	780	2950	AUG. 26	37	2133	2747	4880	758,500	3240	4500	7740	26	5	3209	5123	8332	-263
26	683,590	2170	780	2950	27	37	2133	2747	4880	756,400	3287	4493	7780	26	5	3238	5042	8280	-218
27	680,420	2140	800	2940	28	36	2104	2736	4840	753,400	2980	4800	7780	24	5	2951	5318	8267	-237
28	676,030	2080	840	2920	29	35	2045	2795	4840	750,200	2510	5200	7710	20	5	2485	5746	8231	-232
29	671,890	2000	900	2900	30	34	1966	2894	4860	748,200	2390	5200	7590	19	5	2366	5858	8224	-235
30	667,530	1990	900	2890	31	34	1956	2884	4840	748,200	2160	5000	7160	7	0	2143	5751	7894	283
SEPT. 1	660,030	2020	850	2870	SEPT. 1	34	1984	2876	4860	747,200	1980	4900	6880	16		1964	5570	7534	222
2	656,150	2060	800	2860	2	34	1986	2874	4860	747,200	1900	4850	6750	15		1885	5456	7341	167
3	652,040	1850	750	2600	3	35	2025	2745	4770	747,200	1680	4770	6450	13		1667	5388	7055	-202
4	649,620	500	700	1200	4	31	1819	2461	4280	748,200	1510	4700	6210	12		1498	5497	6995	-143
5	647,920	198	650	848	5	8	492	2658	3150	748,200	1440	4620	6060	12		1428	5004	6432	-88
6	647,680	116	640	756	6	3	195	2568	2760	744,100	2060	4540	6600	16		2044	4881	7025	-43
7	646,960	60	630	690	7	2	114	2486	2600	739,000	3490	4350	7840	28		3462	4146	7608	-100
8	646,720	-100	600	500	8	1	59	2411	2470	730,800	4150	4260	8410	33		4117	4961	9078	-208
9	646,480	-312	570	258	9	-2	-98	2388	2290	722,700	3750	4180	7930	30		3720	4611	8331	-221
10	646,000	-383	540	157	10	-5	-307	2377	2070	714,600	3830	4100	7930	31		3799	4411	8210	-251
11	646,240	-316	520	204	11	-7	-376	2326	1950	705,500	3870	4030	7900	31		3839	4462	8301	-261
12	646,480	-263	500	237	12	-5	-311	2251	1940	697,700	4100	3960	8060	33		4067	4138	8203	-27
13	646,720	500	500	1000	13	-4	-259	2199	1940	688,800	4260	3900	8160	34		4226	4348	8574	-24
14	643,110	2550	500	3050	14	8	492	2198	2690	681,000	4180	3820	8000	33		4147	4143	8290	-24
15	638,780	3090	490	3580	15	43	2507	1963	4470	675,100	4270	3730	8000	34		4236	4048	8284	-1
16	632,290	3440	480	3920	16	52	3038	2202	5240	668,300	4150	3720	7870	33		4117	4113	8230	-3
17	625,560	3420	470	3890	17	58	3382	2118	5500	669,300	3730	3670	7400	30		3706	4181	7887	-26
18	618,620	2830	460	3290	18	58	3362	2168	5530	668,300	3800	3600	7400	30		3770	4087	7857	-28
19	616,230	950	450	1400	19	48	2762	2098	4880	667,400	3390	3550	6940	27		3363	4211	7574	-26
20	616,000	0	440	440	20	16	934	2286	3220	665,400	3220	3500	6720	26		3194	4070	7264	-3
					21	0	0	2360	2360	660,600	3210	3450	6660	26		3184	3959	7143	-1
					22					654,800	3260	3400	6660	26		3234	3909	7143	-
					23					648,200	3010	3350	6360	24		2986	4087	7073	-2
					24					644,400	2760	3300	6060	22		2738	3936	6673	-1
					25					637,700	2840	3250	6090	23		2817	3856	6673	-
					26					634,000	2090	3200	5290	17		2073	4157	6230	-
					27					630,200	1630	3150	4780	13		1617	4187	5804	-
					28					626,500	1680	3100	4780	13		1667	3947	5614	-
					29					623,700	910	3050	3960	7		903	4119	5022	-
					30					622,700	350	3000	3350	3		347	3893	4240	-
TOTAL		116,704					1,982	114,722			252,957			2,023	375	250,359			

LAKE RIVER GAGING STATIONS

1957

AS NOTED

DATE	CALCULATED INFLOW BLACKFOOT TO NEELEY	STORED DIVERSIONS BLACKFOOT TO NEELEY	DATE	AMERICAN FALLS RESERVOIR CONTENTS ACRE-Feet	SNAKE RIVER AT NEELEY			LAKE WALCOTT CONTENTS ACRE-Feet	MINIDOKA CANALS			SNAKE RIVER NEAR MINIDOKA			DATE	MILNER LAKE GAGE FEET	MINIDOKA NORTHSIDE PUMP STORED	MINOR DIVERSIONS MINIDOKA TO MILNER STORED	GOOD RIVER STORED
					STORED	NORMAL	TOTAL		NORTH	SOUTH	TOTAL	STORED	NORMAL	TOTAL					
AUG	2721		AUG.29	583,000	8727	2973	11700	95,430	1330	1240	2570	2570	0	6197	2973	9170			
	2733		30	568,000	8732	2968	11700	94,720	1310	1240	2550	2550	0	6022	2968	8990			
	2722		31	551,000	8738	2962	11700	95,430	1240	1200	2440	2440	0	5738	2962	8700			
	2714		SEPT.1	538,000	8643	2957	11600	96,870	1230	1120	2350	2350	0	5503	2957	8460			
	2714		2	525,000	8112	2986	11100	98,320	1230	1090	2320	2320	0	5592	2986	8580			
SEP	2733		3	513,000	7801	2999	10800	97,470	1230	1100	2330	2330	0	5761	2999	8760			
	2735		4	501,000	7523	2977	10500	96,990	1230	1140	2370	2370	0	5573	2977	8550			
	2743		5	490,000	7317	2983	10300	96,270	1220	1140	2360	2360	0	5117	2983	8100			
	2740		6	478,000	7312	2988	10300	95,910	1220	1120	2340	2340	0	4852	2988	7840			
	2744		7	465,000	7121	2979	10100	95,790	1250	1080	2330	2330	0	4981	2979	7960			
	2745		8	449,000	7028	2972	10000	93,550	1250	1050	2300	2300	0	5488	2972	8460			
	2736		9	437,000	6929	2961	9890	93,090	1230	1050	2280	2280	0	5219	2961	8180			
	2729		10	425,000	6802	2988	9790	92,390	1160	1020	2180	2180	0	4942	2988	7930			
	2728		11	413,000	6695	2995	9690	91,920	1130	964	2094	2094	0	4765	2995	7760			
	2735		12	401,000	6901	2989	9890	91,920	1110	925	2035	2035	0	4551	2989	7540			
	2741		13	390,000	6937	2993	9930	93,090	981	916	1897	1897	0	4217	2993	7210			
	2736		14	376,000	6672	2978	9650	94,720	884	883	1767	1767	0	3932	2978	6910			
	2738		15	365,000	6424	2986	9410	95,910	891	816	1707	1707	0	3924	2986	6910			
	2742		16	355,000	6217	3003	9220	97,110	896	718	1614	1614	0	3967	3003	6970			
	2762		17	345,000	5497	3033	8530	98,080	859	755	1614	1614	0	3857	3033	6890			
	2760		18	334,000	5199	3021	8220	95,310	760	718	1478	1457	21	4100	3000	7100			
	2754		19	326,000	4704	2986	7690	96,870	692	647	1339	1083	256	4070	2730	6800			
	2768		20	320,000	4104	3006	7110	96,870	692	592	1284	728	556	3730	2450	6180			
	2785		21	316,000	3744	3046	6790	96,870	690	569	1259	593	666	3000	2380	5380			
	2783		22	312,000	3549	3091	6640	97,470	692	579	1271	520	751	2730	2340	5070			
	2791		23	309,000	3479	3121	6600	97,350	752	632	1384	563	821	2990	2300	5290			
	2777		24	307,000	3366	3114	6480	97,110	786	653	1439	595	844	2870	2270	5140			
	2769		25	305,000	3035	3145	6180	97,230	822	658	1480	605	875	2780	2270	5050			
	2765		26	303,000	2916	3114	6030	96,270	910	653	1563	709	894	2790	2260	5050			
	2769		27	300,000	2903	3087	5990	95,070	949	673	1622	765	857	2890	2230	5120			
	2768		28	297,000	2835	3085	5920	93,670	940	731	1671	816	855	2940	2230	5170			
	2789		29	296,000	2803	3077	5880	92,160	935	720	1655	808	847	2910	2230	5140			
	2791		30	293,000	2237	3063	5300	92,160	937	681	1618	785	833	2860	2230	4090			
	2777																		

28

640,932

178,645

457,488

15,243

85

123

DATE	MILNER LAKE GAGE FEET	MINIDOKA NORTH SIDE PUMP STORED	MINOR DIVERSIONS MINIDOKA TO MILNER STORED	GOODING PROJECT			NORTH SIDE CANAL COMPANY			
				STORED	NORMAL	TOTAL	P.A.	GOODING	MAIN	TOTAL
AUG 30	11.04	165								
31	11.02	167		1430		1430	63	840	2800	3803
SEPT 1	11.00	167		1420	0	1420	63	950	2710	3728
2	10.97	167		1420	0	1420	56	950	2680	3686
3	11.02	167		1390	0	1390	56	930	2690	3675
4	11.07	162		1370	0	1370	69	920	2690	3669
5	11.11	159		1380	0	1380	59	930	2540	3529
6	11.00	159		1380	0	1380	59	930	2470	3459
7	10.96	159		1360	0	1360	56	880	2400	3336
8	10.58	159	2	1340	0	1340	55	880	2390	3325
9	10.83	159	2	1330	0	1330	55	870	2380	3305
10	10.99	142	2	1340	0	1340	55	910	2400	3365
11	10.99	142	2	1340	0	1340	55	940	2400	3395
12	11.04	142	2	1340	0	1340	55	940	2380	3375
13	11.05	119	2	1310	0	1310	53	940	2390	3383
14	11.00	119	1	1300	0	1300	53	960	2410	3423
15	10.98	119		1300	0	1300	52	960	2240	3252
16	10.94	119		1300	0	1300	52	960	2180	3192
17	10.88	110		1300	0	1300	47	960	2190	3197
18	10.75	110		1280	0	1280	43	950	2100	3093
19	10.97	97		1260	0	1260	43	880	1890	2813
20	11.08	97		1280	0	1280	43	920	1730	2693
21	11.12	90		1290	0	1290	43	960	1680	2683
22	10.75	90		1260	0	1260	42	930	1660	2632
23	10.67	90		1220	0	1220	39	900	1610	2449
24	10.70	80		1200	0	1200	39	880	1420	2339
25	10.60	90		1180	0	1180	39	900	1420	2359
26	10.47	72		1150	0	1150	29	900	1420	2349
27	10.30	71		1130	0	1130	27	900	1410	2337
28	10.12	71		1130	0	1130	27	880	1410	2317
29	10.19	71		1120	0	1120	27	880	1290	2197
30	10.15	71		1130	0	1130	0	860	1250	2110
				570	0	570	0	830	1250	2080

15,243

85

123,790

250,142

TWIN FALLS CANAL COMPANY			MILNER LOW LIFT			SNAKE RIVER AT MILNER		
STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL	STORED	NORMAL	TOTAL
350								
350	847	2623	3470	236	0	236	279	0
349	802	2618	3420	236	0	236	279	0
348	787	2613	3400	236	0	236	279	0
352	761	2609	3370	208	0	208	279	0
353	704	2636	3340	208	0	208	279	0
350	704	2646	3350	208	0	208	282	0
351	663	2627	3290	208	0	208	258	0
352	618	2632	3250	208	0	208	266	0
351	614	2636	3250	208	0	208	277	0
350	622	2628	3250	208	0	208	279	0
349	628	2622	3250	208	0	208	277	0
352	578	2612	3190	208	0	208	277	0
353	404	2636	3040	183	0	183	285	0
352	268	2642	2910	158	0	158	282	0
352	213	2637	2850	158	0	158	298	0
350	119	2641	2760	158	0	158	226	0
351	122	2628	2750	152	0	152	200	0
353	125	2635	2760	131	0	131	205	0
357	120	2650	2770	131	0	131	207	0
400	44	2676	2720	131	0	131	205	0
400	0	2600	2600	131	0	131	221	0
400		2330	2330	131	0	131	431	0
400		2050	2050	131	0	131	822	0
400		1980	1980	131	0	131	336	0
400		1940	1940	131	0	131	205	0
400		1900	1900	131	0	131	202	0
400		1870	1870	131	0	131	214	0
400		1870	1870	131	0	131	214	0
400		1860	1860	131	0	131	205	0
400		1830	1830	131	0	131	202	0
400		1830	1830	131	0	131	202	0
400		1830	1830	131	0	131	202	0

57,054

17,711

21,862

[illegible]

24 HOUR SECOND-FEET EXCEPT AS NOTED

AUGUST

[illegible]

1957

HOUR SECOND-FEET EXCEPT AS NOTED

SEPTEMBER																														TOTAL	
NO.	SECOND- FEET	ACR. FEET																													
1	375																														
2	1,341	2																													
3	12,308	24																													
4	1,528	3																													
5	9,756																														
6	138																														
7	94																														
8	187																														
9	187																														
10	6,540	12																													
11	37																														
12	4,957																														
13	7																														
14	9,192	18																													
15	42																														
16	150																														
17	1,520																														
18	4,205																														
19	1,556																														
20	140																														
21	554																														
22	229																														
23	812																														
24	54																														
25	16																														
26	956																														
27	6,483																														
28	188																														
29	46																														
30	1,057																														
31	10,530																														
32	14,883																														
33	2,188																														
34	26																														
35	1,464																														
36	24,606																														
37	425																														
38	114,417	21																													
39	0																														
40	825																														
41	616																														
42	11,388																														
43	53,958																														
44	218																														
45	260																														
46	67,265																														
47	25																														
48	178,645	35																													
49	85																														
50	18,243																														
51	17,711																														
52	57,094																														
53	260,142	48																													
54	123,790																														
55	20,003																														
56	0																														
GRAND TOTALS (15)		844,755 16																													

27	28	29	30	NO.	TOTAL SECOND- FEET	ACRE- FEET	JACKSON LAKE EQUIVALENT ACRE-FEET	AMERICAN FALLS RIGHT OWNED ACRE-FEET	LEASED ACRE-FEET	JACKSON LAKE RIGHT ACRE-FEET	PALISADES RIGHT ACRE-FEET	RENTALS ACRE-FEET	OTHER RIGHTS ACRE-FEET	TOTAL SUPPLY ACRE-FEET
				1	375	744	802							
4	1	0		2	1,341	2,660	2,868					① 802		802
				3	12,308	24,413	26,324	190	43	2,072		② 563		2,868
97	95			4	1,529	3,033	3,270	3,531	545	16,163		③ 500	③ 7,900	28,639
				5	5,756	11,417	12,312			2,000		④ 1,270	③ - 7,900	3,270
2	2			6	138	274	296	2,524	656	17,651		⑤ 300		12,931
				7	94	186	201					⑥ 215		300
				8	187	371	400					⑦ 400		215
				9	187	371	400					⑧ 400		400
				10	6,540	12,972	13,986	3,401		20,567		⑨ 398		400
				11	37	73	79					⑩ 83		24,366
				12	4,957	9,832	10,601	749	827	5,430		⑪ 3,870		83
				13	7	14	15					⑫ 24		10,876
				14	9,192	18,232	19,659	2,686	1,498	17,413		⑬ 95		24
				15	42	83	90					⑭ 90		21,692
				16	150	298	321					⑮ 300		90
				17	1,520	3,014	3,250			1,040		⑯ 1,264		1,040
25	15	2	0	18	4,205	8,342	8,994	1,094	320	4,000		⑰ 300		4,000
				19	1,556	3,086	3,328	721	160	8,008		⑱ 1,264		9,422
				20	140	278	300			3,300		⑲ 300		4,181
				21	554	1,099	1,185					⑳ 1,264		300
				22	229	454	490	250		1,147		㉑ 1,950		1,264
				23	912	1,809	1,950					㉒ 136		1,397
				24	64	126	136					㉓ 200		1,950
				25	14	28	30					㉔ 200		136
				26	856	1,698	1,831	1,320	3,615	6,041		㉕ 200		200
57	87			27	6,483	12,859	13,869	3,807	1,750	17,423		㉖ 200		10,976
				28	188	373	402	54	16	247		㉗ 200		22,980
				29	46	91	98	20		92		㉘ 200		517
				30	1,057	2,096	2,260			355		㉙ 2,200		112
				31	10,530	20,886	22,519	6,480	402	29,661		㉚ 1,370		2,555
				32	14,889	29,532	31,844	7,277	1,032	38,311		㉛ 1,370		36,543
				33	2,188	4,340	4,680	567	184	4,098		㉜ 55		47,990
				34	26	51	55					㉝ 55		4,849
				35	1,464	2,903	3,130	1,710	107	7,828		㉞ 909		55
229	220			36	24,606	49,806	52,627	7,457		49,135		㉟ 909		9,645
				37	425	843	909					㊱ 909		56,592
44	420	2	0	38	114,417	226,943	244,709	43,838	11,155	251,982		㊲ 692		909
				39	0	0	0					㊳ 1,390		323,767
				40	825	1,636	1,764	3,610	796	18,523		㊴ 1,390		692
				41	616	1,222	1,318					㊵ 1,390		20,931
				42	11,388	22,588	24,355	6,057	1,834	35,723		㊶ 1,390		1,390
27	589			43	53,958	107,024	115,402	15,921	11,431	114,296		㊷ 1,390		43,614
				44	218	432	466	961	97	4,396		㊸ 1,390		141,648
				45	260	516	557	371		1,701		㊹ 1,390		5,454
27	589	0		46	67,265	133,418	143,862	26,920	14,160	172,639		㊺ 2,082		2,072
				47	25	50						㊻ 50		215,801
25	818	808	785	48	178,845	354,337		393,972	⑮ 22,213			㊼ 168	⑮ 144,630	50
				49	85	168		47,593				㊽ 976		560,815
71	71	71	71	50	15,243	30,234		45,687	1,822			㊾ - 5,925		168
31	131	131	131	51	17,711	35,129		151,185		97,183				47,593
				52	57,054	113,165		454,960	25,020	312,007				49,485
17	187	170	180	53	250,142	496,150		400,000						242,443
35	185	180	579	54	123,750	245,534		48,000						791,987
20	202	200	200	55	20,000	39,675			13,593		1,352	- 14,945		400,000
				56	0	0								45,000
								1,609,156	87,953	833,811	1,352	0	144,530	2,676,911
TOTALS					844,756	1,675,547								

NOTES

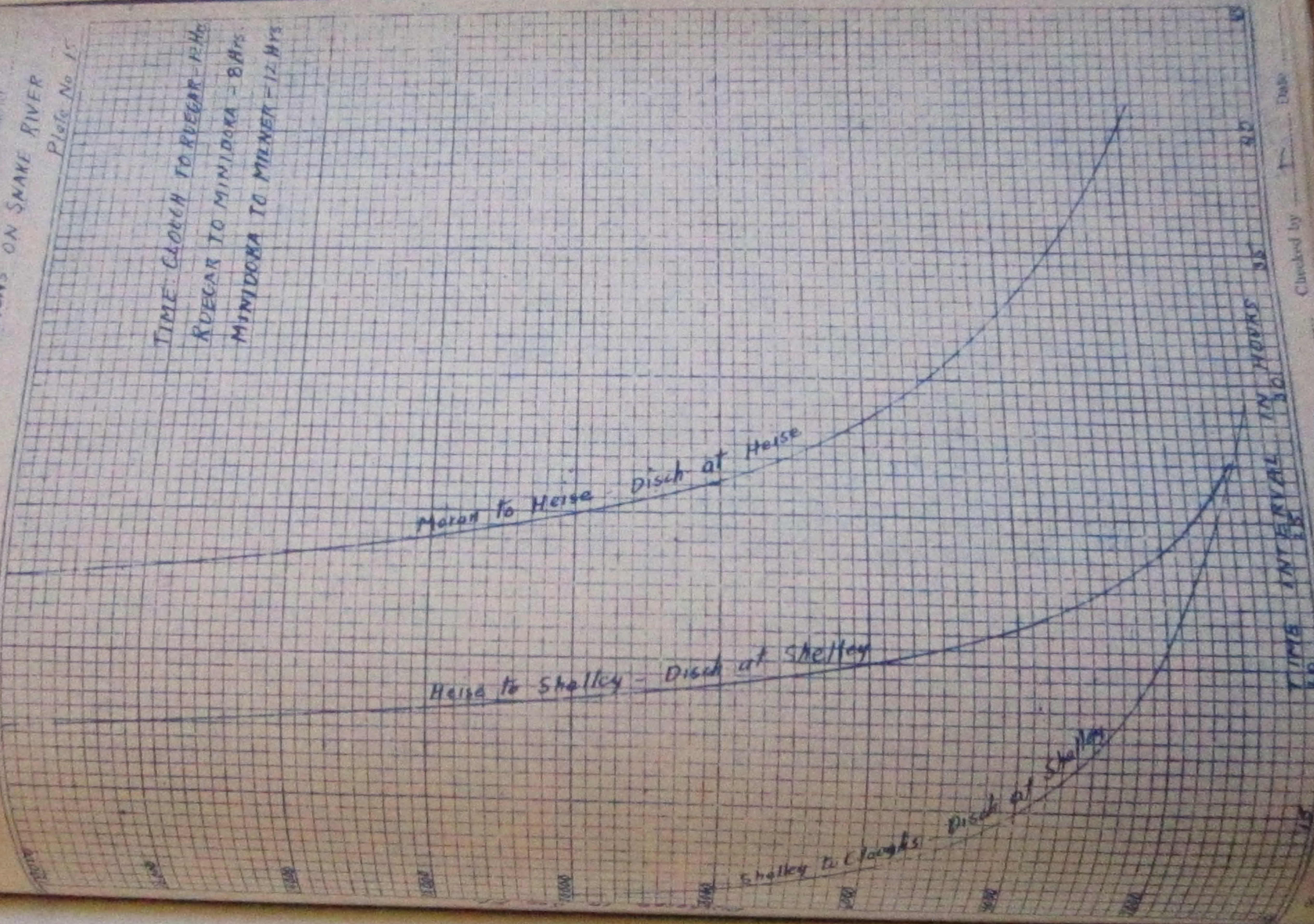
- ① 702 A.F. FROM TWIN FALLS CANAL CO.; 100 A.F. FROM U.S.
- ② FROM U.S.
- ③ FROM ENTERPRISE TO PROGRESSIVE IRR DIST.
- ④ 600 A.F. FROM U.S.; 670 FROM TWIN FALLS CANAL CO.
- ⑤ FROM TWIN FALLS CANAL CO.
- ⑥ 160 A.F. FROM TWIN FALLS CANAL CO.; 3,710 A.F. FROM U.S.
- ⑦ 80 A.F. FROM U.S.; 15 A.F. FROM T.F. CANAL CO.
- ⑧ 1,000 A.F. FROM U.S.; 264 A.F. FROM T.F. CANAL CO.
- ⑨ 100 A.F. FROM U.S.; 36 A.F. FROM T.F. CANAL CO.
- ⑩ 2,100 A.F. FROM U.S.; 100 A.F. FROM T.F. CANAL CO.
- ⑪ 1,295 A.F. FROM U.S.; 75 A.F. FROM T.F. CANAL CO.
- ⑫ 909 A.F. FROM U.S.; 100 A.F. FROM T.F. CANAL CO.
- ⑬ 200 A.F. FROM U.S.; 492 A.F. FROM T.F. CANAL CO.
- ⑭ 390 A.F. FROM U.S.; 8 A.F. FROM T.F. CANAL CO.
- ⑮ MINIDOKA DISTRICT 19,109 A.F.; BURLEY DISTRICT 3,104 A.F.
- ⑯ SEE PLATE 22 FOR SNAKE RIVER STORAGE USED ON HENRY'S FORD
- ⑰ LAKE WACOTT 95,670 A.F. PLUS 48,960 A.F. GAIN NEELEY TO MILNER

TIME INTERVAL BETWEEN GAGING STATIONS ON SNAKE RIVER

File Number 114000

Plate No 15

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



FALL RIVER CANALS														
YELLOWSTONE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MARSHVILLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ABOVE SQUIRREL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FARMERS OWN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALMY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENTERPRISE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BELL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FALL RIVER	96	50	50	50	100	141	129	113	151	155	129	138	129	96
MC BEE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CHESTER	43	44	45	50	50	75	78	80	81	82	82	83	84	85
SILKEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CURR	15	18	20	23	25	27	27	27	27	27	27	27	27	27
TOTAL SQUIRREL TO CHESTER	155	113	116	124	176	244	235	221	254	254	258	236	248	241
HENRYS FORK CANALS														
DEWEY	0	0	15	20	20	26	2	28	28	33	38	33	33	33
LAST CHANCE	44	50	52	53	55	56	56	57	57	58	58	59	60	61
CROSS CUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST ANTHONY UNION	449	444	504	506	509	512	512	514	516	500	475	447	442	436
FARMERS FRIEND	0	0	61	62	63	64	62	61	65	149	140	130	127	128
TWIN GROVES	72	72	72	72	72	72	72	77	82	100	112	98	98	96
SALEM UNION	99	99	99	99	100	100	102	102	102	123	144	138	133	131
TOTAL ASHTON TO ST ANTHONY	669	670	803	813	819	832	806	811	864	944	981	932	895	892
EGIN	274	290	306	318	335	352	345	339	335	314	298	294	274	282
ST ANTHONY UNION FEEDER	66	68	90	93	96	98	98	84	84	84	80	70	64	64
INDEPENDENT	298	348	357	379	394	409	298	383	357	357	335	344	340	335
CONSOLIDATED FARMERS	147	160	182	170	160	151	152	154	200	250	170	168	167	166
TOTAL STANTHONY TO REXBURG	805	886	935	960	985	1010	885	960	976	1022	951	873	875	845
TETON RIVER CANALS														
SIDOWAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WILFORD	0	60	40	15	12	50	57	66	60	58	60	58	58	51
TETON IRRIGATION	0	60	40	15	12	50	57	66	60	58	60	58	58	51
GOOD LUCK	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PIONEER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STEWART	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PINCOCK - BYINGTON	15	15	13	12	10	9	8	8	8	9	10	11	12	12
PINCOCK - GARNER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GARDNER	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TETON ISLAND FEEDER	90	47	120	170	180	200	222	227	232	240	247	250	270	284
BOXANA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ISLAND WARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WOODMANSEE - JOHNSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EAMES - THOMPSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC CORMICK - ROWE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY OF REXBURG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REXBURG IRRIGATION	84	116	95	112	104	109	111	134	134	130	151	114	116	126
SAURY - SOMMERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL TETON RIVER	199	293	273	314	311	373	440	480	481	480	474	474	445	510

[illegible]

TETON RIVER CANALS									
WILFORD	21	20	22	22	22	22	22	22	21
TETON IRRIGATION	68	94	96	97	97	97	97	97	97
GOOD LUCK	29	32	28	27	27	24	2	1	3
PIONEER	27	28	37	26	25	23	23	62	58
STEWART	39	38	37	26	25	23	23	62	58
PINCOCK - BYINGTON	60	59	59	57	57	55	27	26	24
PINCOCK - GARNER	25	26	25	35	35	34	33	31	30
GARDNER	0	0	0	0	0	0	0	0	0
TETON ISLAND FEEDER	548	558	543	518	508	514	493	476	455
ROXANA	14	16	15	17	17	14	32	28	17
ISLAND WARD	11	10	9	10	10	27	39	40	33
WOODMANSEE-JOHNSON	48	50	49	50	50	43	4	2	33
EAMES-THOMPSON	0	5	5	0	4	6	6	5	5
MC CONNICK-ROWE	5	5	5	5	5	5	5	5	5
CITY OF REXBURG	39	38	39	31	31	31	29	23	15
REXBURG IRRIGATION	250	227	222	212	206	258	239	232	250
SAURY-SOMMERS	36	35	33	30	25	24	21	11	9
TOTAL TETON RIVER	1325	1366	1305	1293	1304	1356	1243	1195	1285

HENRYS FORK CANALS									
FARMERS OWN	10	70	72	16	80	85	40	95	100
ALMY	2	2	2	2	2	2	2	2	2
ENTERPRISE	173	184	182	175	175	174	183	180	172
BELL	11	10	10	9	9	9	8	8	7
FALL RIVER	288	285	285	276	317	316	321	316	307
MC BEE	3	3	3	3	3	3	3	3	3
CHESTER	69	69	68	67	76	76	78	72	80
SILKEY	17	17	12	11	9	9	12	11	10
CURR	34	35	34	35	35	34	35	40	39
TOTAL SQUIREL TO CHESTER	667	675	668	654	706	709	734	721	794

TETON RIVER CANALS									
DEWEY	20	11	7	12	10	22	22	9	4
LAST CHANGE	141	137	137	137	135	132	132	132	119
CROSS CUT	0	0	0	0	0	25	25	25	50
ST ANTHONY UNION	537	440	443	510	444	487	514	508	499
FARMERS FRIEND	154	154	145	147	140	134	138	151	174
TWIN GROVES	136	136	132	139	131	127	121	136	146
SALEM UNION	180	166	204	202	194	267	230	246	278
TOTAL ASHTON TO ST ANTHONY	1168	1044	1118	1147	1109	1194	1182	1207	1285
EGIN	300	304	294	308	318	314	302	288	278
ST ANTHONY UNION FEEDER	55	52	52	52	50	44	42	62	60
INDEPENDENT	275	270	262	252	285	321	316	308	316
CONSOLIDATED FARMERS	214	207	205	201	194	180	179	174	239
TOTAL STANTHONY TO REXBURG	844	833	818	813	847	859	836	832	900

FALL RIVER CANALS

YELLOWSTONE	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	16038
MARYSVILLE	160	158	156	154	152	150	148	146	144	142	140	138	136	134	132	130	128	126	124	122	120	118	116	658
TOTAL ABOVE SQUIRREL	283	280	278	276	274	272	270	268	266	264	262	260	258	256	254	252	250	248	246	244	242	240	238	658
FARMERS OWN	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	7361
ALMY	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2602
ENTERPRISE	175	160	158	156	154	152	150	148	146	144	142	140	138	136	134	132	130	128	126	124	122	120	118	19
BELL	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	4544
FALL RIVER	216	216	216	214	214	214	212	210	208	206	204	202	200	198	196	194	192	190	188	186	184	182	180	187
MC BEE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6527
CHESTER	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	71
SILKEY	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	893
CURR	40	35	30	23	41	41	40	40	40	40	39	39	39	39	42	42	41	40	36	35	32	31	21	977
TOTAL SQUIRREL TO CHESTER	617	594	585	574	565	554	542	529	514	500	486	471	456	441	426	411	396	381	366	351	336	321	306	16038

HENRYS FORK CANALS

DEWEY	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	668
LAST CHANCE	83	81	69	70	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	2250
CROSS CUT	276	280	267	263	270	274	276	269	271	268	273	267	258	248	245	204	221	163	157	154	151	147	141	6759
STANTHONY UNION	478	472	531	533	495	493	489	487	491	491	514	501	506	466	462	462	464	453	403	367	363	363	387	14078
FARMERS FRIEND	70	65	65	58	61	61	59	59	47	38	38	54	47	45	45	52	52	51	43	28	33	30	30	1427
TWIN GROVES	126	124	124	124	150	127	114	119	111	111	131	125	102	101	101	98	95	92	91	91	87	84	89	1427
SALEM UNION	212	207	208	226	194	199	0	181	181	201	205	205	190	190	188	171	144	124	126	127	129	132	132	3272
TOTAL ASHTON TO STANTHONY	1268	1252	1287	1249	1248	1246	1034	1225	1210	1149	1260	1255	1248	1164	1130	1131	1114	1032	1036	961	945	884	887	4926
EGIN	246	278	290	312	280	282	248	274	282	286	284	276	264	252	280	264	244	250	262	250	202	184	195	33380
STANTHONY UNION FEEDER	446	446	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	7796
INDEPENDENT	283	279	279	248	314	323	316	325	325	314	277	279	283	281	281	300	279	277	256	242	242	244	228	8430
CONSOLIDATED FARMERS	234	236	224	225	229	224	238	232	232	232	236	201	197	194	164	164	174	174	178	178	178	178	182	5991
TOTAL STANTHONY TO REXBURG	854	834	837	874	867	867	903	864	881	885	889	802	789	799	753	779	785	726	729	727	732	674	657	23734

TETON RIVER CANALS

SIDOWAY	21	20	18	18	18	17	18	14	14	13	12	12	12	12	12	12	12	12	12	12	12	12	12	418
WILFORD	74	113	104	104	84	87	105	92	92	40	88	88	88	88	85	87	84	82	77	79	77	76	80	2714
TETON IRRIGATION	110	103	101	48	97	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	2714
GOOD LUCK	8	7	20	22	14	14	15	16	18	17	19	19	15	6	7	12	12	6	12	12	14	13	14	2623
PIONEER	22	19	16	16	0	0	15	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	388
STEWART	10	13	13	7	5	15	13	12	13	12	18	21	6	9	8	9	21	3	3	7	17	6	10	202
PINCOCK - BYINGTON	10	4	4	4	4	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	321
PINCOCK - GARNER	14	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	288
GARDNER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	391
TETON ISLAND FEEDER	415	411	393	413	401	407	394	394	394	394	404	405	397	365	365	361	357	373	359	371	367	375	367	11945
ROXANA	28	26	26	24	24	24	16	34	32	33	34	34	36	30	27	29	20	19	21	20	20	20	20	651
ISLAND WARD	14	13	13	13	3	1	0	0	0	0	19	20	10	1	0	0	0	0	0	0	0	0	0	104
WOODMANSEE - JOHNSON	33	27	30	27	27	25	24	24	18	25	24	24	23	22	21	20	19	18	15	15	14	13	14	657
EAMES - THOMPSON	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	19
MC CORMICK - ROWE	27	24	27	23	27	26	25	21	21	20	25	25	25	25	27	27	27	27	27	27	27	27	27	785
CITY OF REXBURG	27	24	27	23	27	26	25	21	21	20	25	25	25	25	27	27	27	27	27	27	27	27	27	6237
REXBURG IRRIGATION	219	224	208	216	214	208	200	206	206	206	206	206	206	206	206	206	206	206	206	206	206	206	206	604
SAURY - SOMMERS	25	25	24	25	24	28	26	25	25	25	26	26	26	26	26	26	26	26	26	26	26	26	26	28424
TOTAL TETON RIVER	1045	1066	1024	1017	1483	980	980	978	972	985	1004	1001	992	948	921	894	888	878	865	850	836	821	804	28424

[illegible]

HENRY'S FORK - DAILY SEGREGATION OF FLOW 19

24 HOUR SECOND-FEET EXCEPT AS NOTED

HENRY'S FORK ASHTON	GRASSY LAKE STORAGE RELEASE ①	STORED DIVERSIONS ASHTON TO ST ANTHONY	HENRY'S FORK AT ST ANTHONY			STORED DIVERSIONS STANTHONY TO REXBURG		DATE	HENRY'S FORK NEAR REXBURG		
			STORED	NORMAL	TOTAL	HENRY'S FORK	TETON RIVER		STORED	NORMAL	TOTAL
1320		7	-7	1267	1260			JULY 8			
1470		64	-68	1218	1150			9	-7	1797	1790
1440		194	-198	1298	1100			10	-68	1588	1520
1810		179	12	1308	1320	10	13	11	-221	1671	1450
1560		239	81	1209	1290	56	10	12	-54	1744	1690
1750		229	85	1195	1280	102	215	13	-236	1996	1760
1720		223	96	1074	1170	29	213	14	-157	1937	1780
1770		230	108	1062	1170	1	184	15	-89	1739	1650
1700		256	58	938	996	0	186	16	-78	1568	1490
1610		266	37	775	812	4	132	17	-78	1358	1280
2160		249	249	831	1080	0	87	18	-50	1210	1160
2400		222	593	707	1300	0	91	19	158	1172	1330
2360		277	616	724	1340	43	97	20	453	1087	1540
2360		242	646	794	1440	60	92	21	464	1196	1660
2040		248	528	682	1210	33	88	22	525	1245	1770
2060		244	454	706	1160	0	75	23	453	1037	1490
2000		235	458	632	1090	0	64	24	390	900	1290
2040		387	301	779	1080	0	52	25	406	804	1210
2120	50	476	331	729	1060	7	91	26	203	877	1080
2140	50	441	429	721	1150	12	87	27	244	816	1060
2020	50	425	430	660	1090	7	155	28	262	818	1080
2140	50	397	444	796	1240	0	150	29	273	837	1110
2000	50	476	370	740	1110	0	144	30	300	920	1220
2120	50	518	335	835	1170	0	308	31	62	1098	1160
2080	55	478	392	758	1150	0	376	AUG. 1	-41	1221	1180
1980	60	437	449	651	1100	0	273	2	119	1121	1240
2080	60	509	378	722	1100	0	281	3	168	1022	1190
2060	60	489	387	723	1110	13	255	4	122	1018	1140
2040	60	487	389	751	1140	1	284	5	90	1110	1200
2040	60	794	82	1078	1160	344	244	6	144	1056	1200
2040	60	786	78	1172	1250	362	237	7	-499	1739	1240
2060	60	797	79	1041	1120	348	228	8	-512	1712	1200
2060	60	803	83	1047	1110	357	231	9	-500	1610	1110
2400	60	775	82	1018	1100	357	235	10	-529	1649	1120
2240	60	747	207	1083	1290	355	242	11	-517	1727	1210
2340	60	769	244	996	1240	277	258	12	-406	1866	1460
2300	60	725	288	1032	1320	279	253	13	-286	1796	1510
2240	60	713	300	1080	1380	283	226	14	-217	1837	1620
2300	60	708	305	1035	1340	281	165	15	-148	1758	1610
2060	60	692	311	1049	1360	281	180	16	-156	1756	1600
2000	60	703	202	1088	1290	300	156	17	-126	1736	1670
2040	60	674	144	1096	1240	279	146	18	-244	1784	1540
2040	60	644	174	1186	1360	277	144	19	-279	1869	1590
1980	60	626	182	1178	1360	256	125	20	-247	1857	1610
2040	60	618	200	1200	1400	242	125	21	-199	1749	1550
2020	60	618	151	1319	1470	242	130	22	-167	1857	1690
1900	60	580	140	1260	1400	244	116	23	-221	1931	1710
								24	-220	1920	1700

DATE	HENRY'S LAKE CONTENTS ACRE-FEET	HENRY'S FORK NEAR LAKE			STORED LOSS LAKE TO ISLAND PARK	STORED DIVERSIONS LAKE TO SLAY
		STORED	NORMAL	TOTAL		
AUG. 22		108	18	126	4	
23		106	18	124	4	
24		108	18	126	4	
25		108	18	126	4	
26		109	18	127	4	
27		111	18	129	5	
28		111	18	129	5	
29		112	18	130	5	
30	70,580	106	30	136	4	
31		103	40	143	4	
SEPT. 1		100	40	140	4	
2		100	40	140	4	
3		100	34	134	4	
4		94	30	124	4	
5		93	30	123	4	
6		96	28	124	4	
7		95	28	123	4	
8		97	26	123	4	
9		94	26	120	4	
10		94	26	120	4	
11		67	26	93	2	
12		22	25	47	1	
13	68,720	22	25	47	1	
14		22	25	47	1	
15		22	25	47	1	
16		23	25	48	1	
17		23	25	48	1	
18	68,260	5	25	30	0	
19		0	13	13		
20						
21						
22						
23						
24						
25						
26						
TOTAL		5,908			236	

1957

STORAGE	F.M. DIST.	STORAGE	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	STORAGE DIVERSIONS ASHTON TO ST ANTHONY	HENRYS FORK AT ST ANTHONY			STORAGE DIVERSIONS ST ANTHONY TO RESERVOIR	
					STORAGE	NORMAL	TOTAL	STORAGE LOSS	STORAGE DIVERSION		STORAGE	NORMAL	TOTAL			STORAGE	NORMAL	TOTAL	HENRYS FORK	STORAGE DIVERSIONS ST ANTHONY TO RESERVOIR
8	12	108	AUG 23	73,970	680	500	1,180	17	3	AUG 24	660	1280	1940		567	93	1287	1385	238	116
8	12	106	24	72,880	670	500	1,170	17	3	25	650	1290	1940		555	65	1275	1365	234	114
8	12	108	25	71,805	670	500	1,170	17	3	26	650	1290	1940		521	129	1221	1350	230	112
8	12	108	26	70,585	670	500	1,170	17	3	27	650	1330	1980		538	112	1248	1360	230	115
8	12	109	27	69,490	660	500	1,160	16	3	28	641	1319	1960		545	96	1264	1360	238	112
8	12	110	28	68,255	660	500	1,160	16	3	29	641	1379	2020		530	111	1389	1350	228	110
8	12	110	29	67,390	650	500	1,150	16	3	30	641	1379	2020		561	80	1500	1380	230	115
8	12	111	30	66,345	650	500	1,150	16	3	31	631	1449	2080		547	84	1626	1370	230	115
8	12	106	31	65,405	600	500	1,100	15	3	SEPT 1	582	1298	1880		473	109	1601	1370	230	115
8	12	103	SEPT 1	64,675	550	500	1,050	14	3	2	533	1237	1770		457	76	1504	1360	203	79
8	12	108	2	63,950	530	500	1,030	13	3	3	514	1256	1770		377	137	1483	1350	204	78
8	12	108	3	63,235	520	500	1,020	13	3	4	504	1246	1750		359	145	1475	1350	207	78
8	12	108	4	62,430	520	500	1,020	13	3	5	504	1216	1720		328	176	1394	1370	202	78
8	12	102	5	61,590	486	500	986	12	3	6	471	1139	1610		325	146	1344	1370	202	78
8	12	101	6	60,855	385	500	885	10	3	7	372	1128	1500		336	36	1324	1350	214	32
8	12	104	7	60,490	341	500	841	8	3	8	330	1110	1440		323	7	1253	1350	206	30
8	12	103	8	60,035	336	500	836	8	3	9	325	1145	1470		323	2	1258	1340	212	47
8	12	105	9	59,540	336	500	836	8	3	10	325	1155	1480		322	3	1257	1360	212	57
8	12	102	10	59,095	331	500	831	8	3	11	320	1180	1500		331	-11	1311	1350	216	50
8	12	102	11	58,605	331	500	831	8	3	12	320	1200	1520		327	-7	1307	1350	212	28
8	12	67	12	58,165	326	500	826	8	3	13	315	1215	1530		328	-13	1333	1350	212	18
8	12	33	13	57,815	326	500	826	8	3	14	315	1165	1480		398	-83	1363	1340	258	19
8	12	33	14	57,120	326	500	826	8	3	15	315	1265	1580		402	-87	1427	1340	286	17
8	12	33	15	56,480	326	500	826	8	3	16	315	1205	1520		407	-92	1472	1360	358	17
8	12	33	16	56,140	400	500	900	10	3	17	387	1363	1750		408	-21	1431	1400	250	13
8	12	34	17	55,385	510	500	1010	13	3	18	494	1386	1880		430	64	1406	1470	298	12
8	12	34	18	54,385	510	500	1010	13	3	19	494	1506	2000		473	21	1579	1500	242	12
8	12	17	19	53,650	510	500	1010	13	3	20	494	1486	1980		417	77	1563	1460	196	11
8	12	12	20	52,765	497	500	997	12	3	21	482	1418	1900		391	91	1539	1470	148	25
8	12	12	21	51,815	341	500	841	8	3	22	333	1117	1450		367	-34	1434	1400	148	26
8	12	12	22	51,540	218	500	718	5	3	23	213	1177	1390		358	-145	1425	1380	145	4
8	12	12	23	51,190	189	500	689	5	3	24	184	1146	1330		353	-169	1389	1370	127	28
8	12	12	24	50,995	164	500	664	4	3	25	160	1200	1360		283	-123	1333	1370	125	25
8	12	12	25	50,765	160	500	660	4	3	26	156	1234	1390		283	-127	1347	1370	122	17
8	12	12	26	50,535	155	500	655	4	3	27	151	1239	1390		334	-183	1393	1370	122	17
8	12	12	27	50,230	110	500	610	3	3	28	107	1223	1330		334	-227	1417	1340	125	13
8	12	12	28	50,190	76	500	576	2	3	29	74	1166	1240			74	1026	1300		
88	972	6,156			48,544			1,205	249		47,090			1,675	36,518	12,247		3,044	3,350	

① LISTED HERE ONE DAY LATER THAN RELEASE AT RESERVOIR

AND PARK ASHTON		DATE	HENRYS FORK NEAR ASHTON			GRASSY LAKE STORAGE RELEASE (1)	STORED DIVERSIONS ASHTON TO ST. ANTHONY		HENRYS FORK AT ST. ANTHONY			STORED DIVERSIONS ST. ANTHONY TO REXBURG		DATE	HENRYS FORK NEAR REXBURG		
RED	STORED		STORED	NORMAL	TOTAL		ASHTON TO ST. ANTHONY		STORED	NORMAL	TOTAL	HENRYS FORK	TETON RIVER		STORED	NORMAL	TOTAL
7	3	AUG 24	850	1280	1940		567	93	1287		1380	228	116	AUG 25	-251	1901	1650
7	3	25	850	1290	1940		565	85	1275		1360	234	114	26	-263	1873	1610
7	3	26	850	1290	1940		521	129	1221		1350	230	115	27	-216	1786	1570
7	3	27	850	1330	1980		538	112	1248		1360	220	129	28	-237	1817	1580
6	3	28	841	1319	1960		545	96	1264		1360	218	112	29	-232	1932	1700
6	3	29	841	1379	2020		530	111	1389		1500	226	120	30	-235	2095	1860
6	3	30	841	1379	2020		561	80	1500		1580	230	133	31	-283	2343	2060
6	3	31	831	1449	2080		547	84	1626		1710	230	76	SEPT. 1	-222	2482	2260
6	3	1	582	1298	1880		473	109	1601		1710	203	73	2	-167	2377	2210
6	3	2	533	1237	1770		457	76	1504		1580	203	75	3	-202	2312	2110
6	3	3	514	1256	1770		377	137	1483		1620	204	76	4	-143	2203	2060
6	3	4	504	1246	1750		359	145	1475		1620	207	36	5	-98	2018	1920
6	3	5	504	1216	1720		328	176	1394		1570	202	19	6	-45	1805	1760
6	3	6	471	1139	1610		325	146	1344		1490	214	32	7	-100	1760	1660
6	3	7	372	1128	1500		336	36	1324		1360	214	30	8	-208	1708	1500
6	3	8	330	1110	1440		323	7	1253		1260	206	30	9	-229	1659	1430
6	3	9	325	1145	1470		323	2	1258		1260	212	47	10	-257	1657	1400
6	3	10	325	1155	1480		322	3	1257		1260	212	57	11	-266	1696	1430
6	3	11	320	1180	1500		331	-11	1311		1300	216	50	12	-277	1717	1440
6	3	12	320	1200	1520		327	-7	1307		1300	212	28	13	-247	1707	1460
6	3	13	315	1215	1530		328	-13	1333		1320	212	18	14	-243	1703	1460
6	3	14	315	1165	1480		398	-83	1363		1280	258	19	15	-360	1780	1420
6	3	15	315	1268	1580		402	-87	1427		1340	256	17	16	-360	1920	1560
6	3	16	315	1205	1520		407	-92	1472		1380	258	17	17	-367	1887	1520
6	3	17	387	1363	1750		408	-21	1431		1410	250	13	18	-284	1844	1560
6	3	18	494	1386	1880		430	64	1406		1470	258	12	19	-206	1866	1660
6	3	19	494	1508	2000		473	21	1579		1600	242	12	20	-233	2153	1920
6	3	20	494	1486	1980		417	77	1583		1660	198	11	21	-132	2072	1940
6	3	21	482	418	1900		391	91	1539		1630	148	23	22	-80	1910	1830
6	3	22	333	1117	1450		367	-34	1434		1400	148	26	23	-208	1818	1610
6	3	23	213	1177	1390		358	-145	1425		1280	145	14	24	-304	1844	1540
6	3	24	184	1146	1330		353	-169	1389		1220	122	28	25	-319	1779	1460
6	3	25	160	1200	1360		283	-123	1333		1210	125	29	26	-277	1747	1470
6	3	26	156	1234	1390		283	-127	1347		1220	125	25	27	-277	1747	1470
6	3	27	151	1238	1390		334	-183	1393		1210	122	17	28	-322	1762	1440
6	3	28	107	1223	1330		334	-227	1417		1190	125	13	29	-365	1765	1400
6	3	29	74	1166	1240			74	1026		1100			30	74	1276	1350
249			47,090			1,675	36,518	12,247				13,054	9,350		-10,157		

(1) LISTED HERE ONE DAY LATER THAN RELEASE AT RESERVOIR

1

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24 HOUR SECOND-FEET EXCEPT AS NOTED

AUGUST

①	RENTED FROM FREMONT MADISON DISTRICT	⑤	AFTER TRANSFER
②	AFTER TRANSFER OF 70 A.F. FROM BOOM TO SQUIRREL CANAL	⑥	AMERICAN FALLS
③	220 A.F. FROM INDIAN LAKE, 222 A.F. FROM BERGMAN RESERVOIR	⑦	INCLUDES
④	AFTER TRANSFER OF 28 A.F. TO ALMY, 83 A.F. TO BELL	⑧	AFTER TRANSFER

⑤

⑧

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PLATE NO. 22

SEPTEMBER

SEPTEMBER																														NO.	TOTAL		RESERVOIR ALLOTMENTS IN ACRE-FEET																				
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	SECOND- FEET	ACRE- FEET	FREMONT MADISON	HENRY'S LAKE	OTHER RESERVOIRS	RENTALS	TOTAL	HEADGATE EQUIVALENT																												
3	3	3	3	3	3	3	3	3	0									1	488	968	1,350				1,350	1,350																											
																		2	249	494	570				570	559																											
4	4	4	4	4	4	4												3	241	478	543				543	530																											
																		4	1,222	2,424	1,891			① 541	2,402	2,342																											
																		5	288	571	② 130			① 441	571	557																											
2	2	7	7	7	8	7	6	5	2	2	2	2	2	2	2			6	512	1,016	② 170		③ 442	① 404	1,016	1,002																											
9	9	9	9	9	9	9	10	9	9	9	9	9	9	9	9			7	830	1,646	1,643				1,643	1,502																											
4	64	64	64	64	65	64	66	66	67	67	67	66	0	0	51	51		8	7,275	14,430	④ 18,960				18,960	18,490																											
53	6	26	29	29	31	30	25	31	30	28	25	25	22	22	22	22		9	3,051	6,051	8,650				8,650	8,435																											
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		10	51	101	⑤ 138				138	135																											
50	11	101	101	101	101	101	99	144	155	153	151	153	151	151	151	151		11	12,044	23,889	10,135		⑥ 16,071		26,206	24,787																											
2																		12	108	214	⑦ 223				223	217																											
0																		13	1,476	2,927	⑧ 7,403				7,403	7,219																											
8	9	10	10	10	7	7	6	7	6	8	9	8	8	7	7	7		14	0	0	80				80	78																											
																		15	1,026	2,035	⑨ 1,723				1,723	1,680																											
																		16	0	0	504				504	492																											
																		17	0	0	60				60	59																											
23	4	14	16	16	16	15	18	18	18	16	15	11	11	10	11	11	23	18	1,109	2,199	⑩ 1,078	1,120			2,199	2,100																											
21	53	53	51	53	53	53	53	53	53	53	53	45	45	45	45	45		19	3,813	7,563	1,847	10,860			12,707	11,368																											
																		20	0	0	3,418	5,320			8,738	8,314																											
5	35	35	21	23	24	24	54	63	73	56	36	36	35	35	35	35	34	21	3,010	5,970	⑪ 7,036				7,036	6,862																											
			75	75	77	81	79	75										22	462	916	⑫ 4,561				4,561	4,488																											
																		23	0	0	⑬ 7,697	18,950			26,647	25,247																											
7	27	328	398	402	407	408	430	473	417	391	367	358	353	283	283	334	334	24	36,518	72,430	77,890	36,250	16,513	1,356	132,009	126,564																											
																		25	100	198	2,397	5,320			7,717	7,319																											
																		26	12,226	24,250	9,082	20,990			30,072	28,508																											
2	212	216	212	214	210	214	196	198	148	148	145	122	125	125	122	125		27	714	1,418	⑭ 4,805	15,740			20,545	19,422																											
		42	44	44	40	44	44											28	14	28	28				28	27																											
2	212	258	256	256	250	258	242	198	148	148	145	122	125	125	122	125		29	13,054	25,892	16,312	42,050			58,362	55,276																											

TRANSFER OF 30 A.F. FROM FALL R. CANAL, 28 FROM MARYSVILLE
CAN FALLS, 2,882 A.F., JACKSON LAKE, 13,189 A.F.

DES 83 A.F. TRANSFER FROM MARYSVILLE

DES 83A.F. TRANSFER FROM MARYSVILLE
TRANSFER OF 30A.F. TO ALMY; 270A.F. TO DEWEY; 190A.F. TO CHESTER

(9) INCLUDES 190 A.F. TRANSFER FROM FALL R. CANAL

10 INCLUDES 189 A.F. FROM TETON LRR ; 270 A.F. FROM FALL R. CANAL

(11) INCLUDES 1,322 A.F. FROM TWIN GROVES

(12) AFTER TRANSFER OF 1,322 A.F. TO FARMERS FRIEND

(13) BELOW REXBURG

(14) AFTER TRANSFER OF 155 AF TO HOXANA

(15) AFTER TRANSFER OF 60 A.F. TO ROXRNA

[illegible]

AGE DIVERSIONS FROM TETON RIVER 1957

24 HOUR SECOND-FEET EXCEPT AS NOTED

AUGUST

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
63	63	63	63	58	58	58	56	56	52	52	52	52	45	45	45	44	44	44	44	40	40	21	4	4	4	
15	15	15	15	15	15	11	11	10	10	10	10	10	8	8	8	8	5	5	5	5	3	3	3	3	3	

6 3

65	81	78	78	73	73	69	67	66	62	62	62	62	53	53	53	52	49	49	49	45	40	24	7	7	7	
53	52	50	48	48	45	45	42	41	41	38	38	38	38	33	33	33	32	30	30	30	28	26	15	4	4	4
9	18	18	17	17	15	16	15	14	14	13	13	13	14	14	14	13	13	13	13	12	12	12	12	12	12	12

71	70	68	65	65	61	61	57	55	55	51	51	51	52	47	47	46	45	43	43	42	40	38	27	16	16	16
83	89	83	78	71	66	60	60	95	95	63	67	65	56	67	16	16	13	24	31	36	4	28	34	67	56	60
21	19	38	24	24	20	18	18	18	24	17	19	19	15	14	9	9	11	9	8	12	1	18	18	20	24	0

9	9	5	6	8	7	9	9	5	0	0	2	2	0	2	2	2	4	2	4	3	4	0				
0	0	4	6	0					0	4	3	1	0													
0	6	4	3	4	3	9	12	12	0		0	12	0	0	0	8	0									

1	2	2	2	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	
3	6	6	6	6	6	5	5	7	4	3	3	3	2	3	3	3	3	3	2	2						
													0	3	0											

35	35	27	27	27	27	37	33	25	0	30	0															
8	8	0	18	16	17	18	18	20	14	11	11	13	4	3	5	4	4	4	4	0						
2	0	0	0	3																						

69	78	70	70	76	76	76	76	78	63	63	60	50	52	70	51	56	50	50	50	50	50	50	50	50	50	50
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2	2	2

SEPTEMBER

12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
84	87	82	3	0																									

- ① FROM FREMONT MADISON DISTRICT
- ② TOTAL ALLOTMENT X 1.42
- ③ LINE 12 DIVIDED BY 1.625 AND LISTED 1 DAY LATER

- ④ AFTER TRAIL
- ⑤ AFTER TRAIL
- ⑥ INCLUDES

M B E R

PLATE NO. 23

NO.	TOTAL		RESERVOIR ALLOTMENT-ACRE-FEET			
	SECOND- FEET	ACRE- FEET	FREMONT MADISON	RENTALS	TOTAL	HEADGATE EQUIVALENT
1	2,314	4,590	3,024	①		
2	908	1,801	1,299	209	3,233	② 4,590
3	213	423			1,299	② 1,845
4	96	190		298	298	② 423
5	452	697		134	134	② 190
6	0	0	768		768	② 1,090
7	417	827	112		112	② 159
8	0	0	666	80	746	② 1,060
9	83	165	181		181	② 257
10	77	153	247		247	② 343
11	105	208	120		120	② 170
			173		173	② 245
12	4,665	9,254	6,590			
13	2,869	5,691		721	7,311	10,372
14	874	1,734	1,568		1,568	1,451
15	3,743	7,425	8,158			
16	2,243	4,449		721	8,879	11,823
17	0	0	486		486	450
18	772	1,531	2,977		2,977	2,754
19	25	50	④ 1,244		1,244	1,151
20	207	411	367		367	340
21	64	127	⑤ 136		136	126
22	199	398	464		464	429
23	116	230	285		285	264
24	143	284	484		484	448
25	0	0	137		137	127
26	98	194	⑥ 135		135	125
27	525	1,041	9,264		9,264	8,569
28	443	879	⑦ 914		914	845
29	38	75	1,455		1,455	1,345
30	354	702	3,688		3,688	3,412
31	2,369	4,699	4,790		4,790	4,432
32	0	0	103		103	95
33	254	504	545		545	504
34	5,607	11,122	27,474		27,474	25,417
35	9,350	18,547	35,632	721	36,353	37,240

ER TRANSFER OF 189 A.F. TO DEWEY

ER TRANSFER OF 15 A.F. TO EAMES-THOMPSON

DOES 18 A.F. FROM PIONEER

⑦ INCLUDES 155 A.F. FROM CONSOLIDATED FARMERS, 60 A.F. FROM SALEM UNION

OPERATION OF CROSS CUT CANAL DURING 1957

24 HOUR SECOND- FEET

[illegible]

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	276	280	267	263	270	274	276	269	271	268	273	273	282	267	238	248	245	204	221	163	157	154	151	147	147	147	157	152	160	137	122	6,759
INFLOW FROM FALL RIVER CANAL	38	18	17	29	31	36	32	24	18	17	18	16	18	16	22	23	24	24	36	40	41	44	38	38	39	39	38	47	67	73	80	1,041
NORTH BRANCH DIVERSION	105	14	92	98	100	97	97	96	96	99	100	100	83	83	92	93	93	94	96	91	96	97	95	87	88	87	85	88	87	87	79	2,796
MIDDLE BRANCH DIVERSION	129	146	103	102	103	106	107	103	111	110	94	95	101	93	93	98	100	81	83	88	88	88	72	74	74	75	60	86	95	71	54	2,893
BELOW FALL RIVER CANAL DIVERSIONS	80	138	89	92	98	107	104	94	82	78	97	94	116	107	75	80	76	53	78	24	14	3	21	24	24	24	50	25	45	52	59	2,111
CROSS CUT AT END	70	128	78	81	83	89	83	78	71	66	80	80	95	95	63	67	65	56	67	16	16	13	24	31	36	46	28	34	67	56	60	1,922

[illegible]

SEASON LOSS : 228 - 2,471 = 9.2%

TOTAL INTO TETON RIVER = 2,243 S.F. = 4,450 A.F.

24 HOUR SECOND-FOOT EXCEPT AS NOTED

LOCATION	AUGUST																															TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
NORTH SQUIRREL CREEK BELOW SO. BOONE DIV.																																
NORTH SQUIRREL CREEK AT RANGER STATION				16			15				12		12							11			10	10		9			9			
INDIAN LAKE (ACRE- FEET)													10																			
BERGMAN RESERVOIR (ACRE- FEET)				821			800				776									723			699		680			675				
BOOM CREEK CANAL				252			247				182									148			127		105			82				
SQUIRREL CREEK AT BRIDGE BELOW BOOM CANAL	9	8	8	8	8	8	8	8	8	8	8	7	6	6	6	6	6	5	6	6	6	9	7	8	5	5	7	6	6	7	8	215
BERGMAN OUTLET	13	12	11	11	10	10	9	9	10	11	12	14	12	13	13	13	13	12	12	12	11	10	10	9	10	10	11	7	11	11	11	
SQUIRREL CREEK CANAL	12	11	10	10	9	9	9	9	8	10	11	13	12	12	12	12	12	11	11	11	11	8	9	9	10	9	12	10	11	13	12	328

IRRIGATION ON SQUIRREL MEADOWS FOR FEW DAYS STARTING JULY 18
RELEASE FROM BERGMAN RESERVOIR STARTED AUG. 5
TOTAL DIVERSIONS FOR SEASON: BOOM CANAL 546 S.F., SQUIRREL CANAL 811 S.F.

STREAM	MAY												JUNE																										
	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
UPPER TETON RIVER																																							
TRAIL CREEK ABOVE STRING CANAL																																							
GAME CREEK NEAR MOUTH																																							
STRING CANAL																																							
KIMBALL																																							
RICKS-KIRSLEY																																							
TOWN																																							
SPENCER																																							
HUMBLE																																							
TONKS																																							
FOX CREEK ABOVE DIVERSIONS																																							
NORTH CANAL																																							
MIDDLE (VAIL)																																							
SOUTH																																							
DARRY CREEK ABOVE DIVERSIONS																																							
WINGER CANAL (WYO.)																																							
HILL																																							
TODD																																							
CANNON																																							
CHERRY GROVE																																							
TETON CREEK ABOVE DIVERSIONS																																							
MILL CREEK																																							
NORTH CANAL																																							
SOUTH																																							
CENTRAL																																							
WADDELL																																							
TOTAL WYOMING DIVERSIONS																																							
GRAND TETON CANAL																																							
TETON CREEK BELOW GRAND TETON CANAL																																							
CENTRAL CANAL (IDAHO)																																							
CHRISTENSEN-CORDON																																							
PRICE-FAIRBANKS																																							
SOUTH LEIGH CREEK AT STATE LINE																																							
LEIGH CREEK CANAL EAST OF STATE LINE																																							
DESERT																																							
KILPACK																																							
GALE MOFFATT																																							
BELL MCCrackEN																																							
NORTH LEIGH CREEK AT FOREST BOUNDARY																																							
NORTH CANAL																																							
HUBBARD																																							
BI																																							
WEAVER																																							
SPRING CREEK AT HIGHWAY																																							
TETONIA CANAL																																							
BRECKENRIDGE																																							
FULLMER																																							

① INCLUDES DIVERSION FROM WARM CREEK

1957

24 HOUR SECOND- FEET

JULY

[illegible]

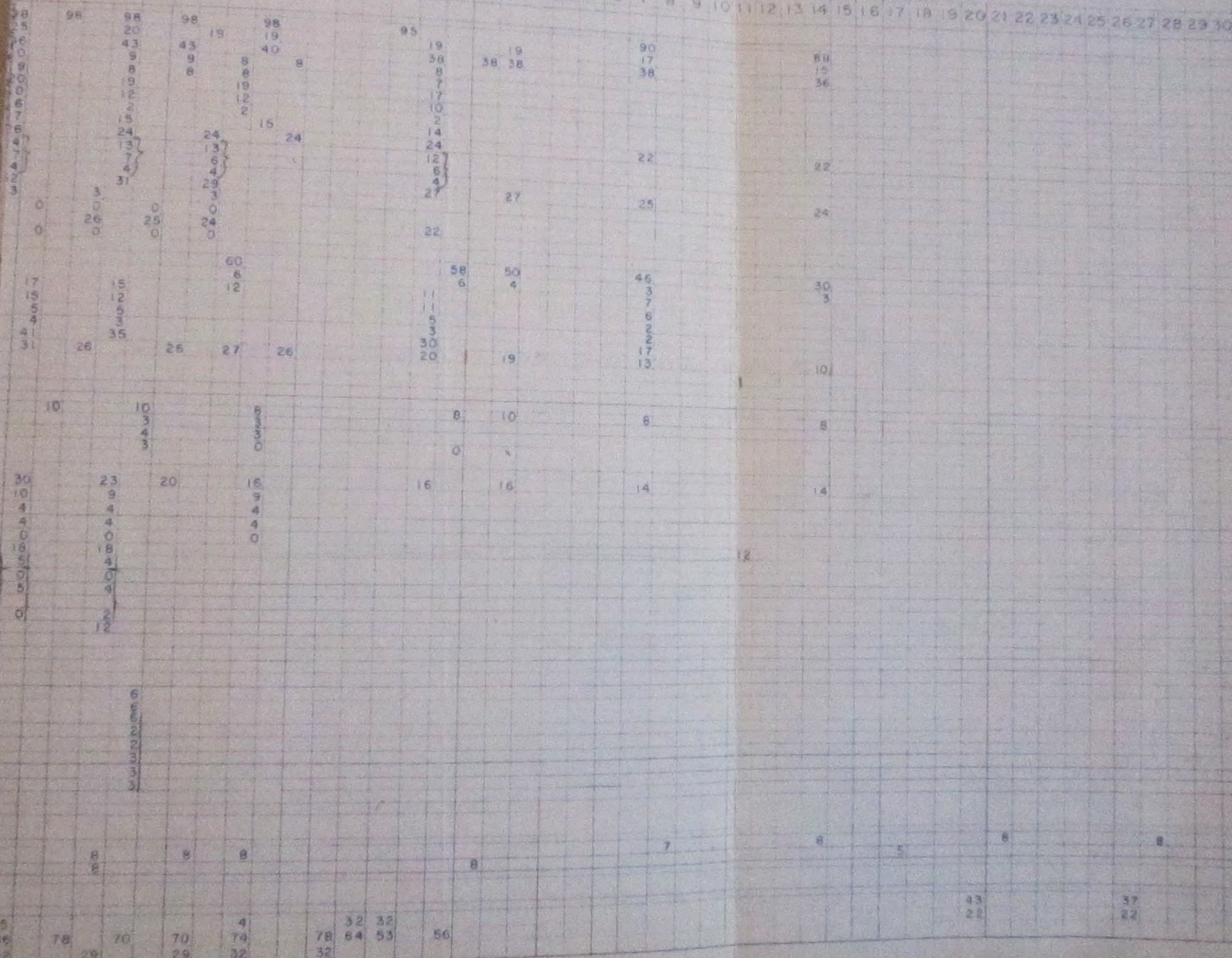
GUST

PLATE NO. 24

5 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

SEPTEMBER

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



[illegible]

Year	18.0	3,009	4,280	47.1	53.2	166	34.2	29.1	34.8	3,371	2,631	1,272
Age-Per	1,110	179,000	263,200	2,900	2,960	10,200	2,040	1,790	20,720	207,300	161,800	75,670

Year 1,283
Miles 928,690
Age-Per 1,283

Year	18.0	3,009	4,280	47.1	53.2	166	34.2	29.1	34.8	3,371	2,631	1,272
Age-Per	1,110	179,000	263,200	2,900	2,960	10,200	2,040	1,790	20,720	207,300	161,800	75,670
1	13	15	6950	50	50	40	107	60	25	36	3320	2870
2	26	17	7120	50	50	40	107	60	28	34	3320	2870
3	26	17	6910	50	50	40	107	60	29	34	3320	2870
4	26	16	6740	50	50	40	107	60	38	34	3300	2840
5	26	14	6690	50	50	40	107	60	39	35	3300	2840
6	26	14	6440	50	50	40	107	60	39	35	3300	2840
7	26	14	6180	50	50	40	107	60	39	35	3300	2840
8	26	13	5990	50	50	40	107	60	39	35	3300	2840
9	26	13	5760	50	50	40	107	60	41	36	3300	2840
10	26	13	5570	50	50	40	107	60	41	36	3300	2840
11	26	13	5220	50	50	40	107	60	41	36	3300	2840
12	26	13	4680	50	50	40	107	60	41	36	3300	2840
13	26	13	4190	50	50	40	107	60	41	36	3300	2840
14	26	13	3790	50	50	40	107	60	41	36	3300	2840
15	26	13	3350	50	50	40	107	60	41	36	3300	2840
16	26	13	3010	50	50	40	107	60	41	36	3300	2840
17	26	13	2700	50	50	40	107	60	41	36	3300	2840
18	26	13	2400	50	50	40	107	60	41	36	3300	2840
19	26	13	2150	50	50	40	107	60	41	36	3300	2840
20	26	13	1900	50	50	40	107	60	41	36	3300	2840
21	26	13	1740	50	50	40	107	60	41	36	3300	2840
22	26	13	1570	50	50	40	107	60	41	36	3300	2840
23	26	13	1410	50	50	40	107	60	41	36	3300	2840
24	26	13	1260	50	50	40	107	60	41	36	3300	2840
25	26	13	1110	50	50	40	107	60	41	36	3300	2840
26	26	13	960	50	50	40	107	60	41	36	3300	2840
27	26	13	810	50	50	40	107	60	41	36	3300	2840
28	26	13	660	50	50	40	107	60	41	36	3300	2840
29	26	13	510	50	50	40	107	60	41	36	3300	2840
30	26	13	360	50	50	40	107	60	41	36	3300	2840

1,791	1,214	5,795	1,508	1,316	1,354	1,855	7,358	12,350	10,430	5,054	3,099
110,100	252,500	356,300	92,730	73,070	83,230	110,400	452,400	735,000	641,500	310,700	184,400
Year Mean Acres-Fruit 3,402,330 4,700											

1920	1660	1660	7540	1650	1350	1310	1480	4000	12000	11300	7090	1850
1890	1520	8150	8260	1650	1300	1280	1510	6000	15400	13900	6720	1770
1870	1680	7840	8100	1550	1300	1220	1570	8300	18700	11800	6380	2760
1850	1660	8100	1550	1550	1300	1220	1570	8300	18700	11800	6380	2760
1830	1600	7930	8350	1600	1300	1290	1510	8200	17700	12600	6450	3150
1820	1620	7710	1550	1500	1300	1560	1640	15000	10500	10500	3680	2070
1800	1620	7540	1550	1550	1300	1510	1690	8200	14600	12600	3360	1940
1830	1620	7380	1550	1550	1300	1380	1660	7800	14100	12300	4220	1940
1830	1600	7620	1550	1550	1300	1330	1680	7500	12900	12100	5140	2690
1790	1450	7490	1550	1300	1340	1780	7200	11200	11200	11900	5190	4470
1780	1480	7300	1450	1400	1320	1840	7000	9620	11500	11500	5240	5240
1750	4690	6330	1500	1430	1950	1870	6860	8370	11000	11000	5140	5500
1730	7190	6170	1500	1420	1920	7060	7500	7060	10700	10700	5000	4880
1720	7520	5900	1500	1400	1870	7990	7990	7810	11300	11300	5000	3220
1680	7570	5370	1480	1230	1880	7260	9550	9550	10700	10700	4880	2360
1670	7650	4840	1450	1410	1940	6380	9300	9300	10200	10200	4860	2230
1720	7570	4620	1450	1280	2080	5800	8180	8180	9710	9710	4860	2200
1770	7490	4320	1450	1240	2050	5580	8240	8240	9360	9360	4770	2170
1720	7440	2800	1450	1250	2000	5600	9390	9040	9040	9040	4680	2140
1770	7330	1730	1450	1280	2000	5870	9810	6720	6720	6720	4880	2120
1830	7250	1720	1450	1250	2000	6750	9940	5360	5360	5360	4880	2100
1770	7540	1700	1400	1240	2100	7990	11300	6120	6120	6120	4840	2080
1720	7680	1690	1400	1300	2800	9330	12200	6070	6070	6070	4840	2060
1660	1680	1680	1350	1370	3400	10200	13700	6720	6720	6720	4840	2040

322	21.9	221	193	192	215	413	2,012	2,684	1,237	506	368
19,830	14,830	13,750	11,860	10,650	13,240	24,560	123,700	159,700	76,040	31,130	21,870

1	350	278	230	200	180	201	252	994	2790	2350	667
2	342	252	230	200	180	201	249	1270	3080	2280	639
3	338	246	230	200	180	212	263	1450	3470	2160	625
4	338	278	230	200	180	212	263	1450	3760	1940	599
5	334	282	230	200	180	215	269	2350	3970	1730	592
6	330	286	220	200	190	198	318	2350	4010	1640	580
7	330	278	200	200	190	210	282	2440	4110	1590	560
8	330	269	190	200	190	226	269	2420	3830	1490	548
9	330	266	190	200	190	229	278	2130	3590	1430	530
10	346	269	220	200	190	229	306	2170	3420	1390	524
11	330	272	250	200	190	212	318	2300	3030	1450	518
12	334	269	284	200	190	226	303	2360	2820	1430	518
13	342	269	280	200	190	212	300	2080	3140	1290	506
14	334	263	260	200	190	190	334	1990	2680	1220	495
15	326	232	240	200	190	204	370	1880	2300	1170	500
16	318	245	230	190	204	405	405	1800	2000	1110	495
17	318	250	190	190	207	455	1790	1760	1070	480	355
18	314	245	190	190	204	470	1870	1660	1000	470	360
19	314	232	225	190	207	445	1780	1780	1060	470	400
20	306	196	220	190	215	440	2250	2070	986	465	375
21	303	226	215	190	229	445	1910	2250	930	460	365
22	303	238	215	190	221	500	1710	1910	890	470	355
23	310	229	210	190	204	660	1600	1730	858	450	346
24	322	229	210	190	204	632	1570	1800	826	470	342
25	300	229	210	190	221	518	1630	1920	794	435	338
26	330	229	210	180	221	465	1760	2080	770	465	334
27	330	232	210	180	212	470	2020	2220	740	450	330
28	314	230	210	180	221	500	2460	2310	702	445	326
29	300	230	210	180	235	725	2610	2480	695	440	326
30	278	278	210	180	243	906	2560	2550	681	435	326
31	303	278	210	180	249	2540	2560	2550	667	425	326

638	631	545	483	452	463	762	1,870	1,573	1,028	789	764
39,250	37,560	33,490	29,670	25,110	28,490	45,330	115,000	93,600	63,210	48,500	45,480

[illegible]

17.0	16.8	16.4	12.1	14.3	18.8	122	606	245	77.7	34.8	22.7
1,050	1,000	885	742	795	1,150	7,260	37,240	14,570	4,780	2,140	1,350

[illegible]

[illegible][illegible]

42.1	35.2	29.8	24.6	23.3	20.3	27.7	175	282	122	73.7	54.1
2,590	2,099	1,830	1,510	1,290	1,250	1,650	10,780	16,770	7,490	4,530	3,220

[illegible]

1,760	1,780	1,330	1,270	1,130	1,470	4,220	23,010	14,840	5,750	3,180	2,350
28.5	24.8	21.6	20.6	20.3	23.8	71.1	376	249	93.5	51.7	38.5

[illegible]

Year	Mean	Range	Agree-Disagree
187,300	5,801	4,200,070	
75,590			
104,700			
94,430			
92,450			
204,300			
296,000			
741,400			
652,800			
773,200			
578,200			
399,200			

[illegible]

3,507	1,691	2,176	1,988	2,069	3,726	5,492	13,530	12,260	13,020	9,990	7,248
215,700	100,600	133,800	122,200	117,900	229,100	326,800	831,800	729,500	800,700	614,200	431,300

[illegible]

Acute-Phase

[illegible]

11.6	est. 13	est. 16	est. 20	24.5	29.8	35.6	79.4	190	136	125	61.1
716	776	984	1,230	1,360	1,830	2,120	4,880	11,310	8,390	7,700	3,630

[illegible]

29,260	36,660	9,100	4,120	20,760	29,420	29,330	74,630	67,310	67,900	79,660	79,380
676	616	118	67.1	374	479	493	1,214	1,131	1,104	1,295	830

[illegible]

1,240	1,393	861	679	1,090	1,236	1,519	3,355	2,313	1,854	2,072	1,571
76,220	82,860	52,950	41,750	60,560	75,990	90,390	206,300	137,600	114,000	127,400	99,460
1,240	1,393	861	679	1,090	1,236	1,519	3,355	2,313	1,854	2,072	1,571
1,240	1,393	861	679	1,090	1,236	1,519	3,355	2,313	1,854	2,072	1,571

Year
Mean
1,601
1,159,480

1210	1340	749	598	1030	1190	1300	1860	2820	1940	2080	1770
1130	1170	2680	770	1030	1230	1230	2300	2800	1680	1980	1770
1170	1200	2680	770	1050	1260	1260	2590	2760	1660	2060	1750
1160	1190	2660	749	1010	1260	1380	3210	2700	1550	2040	1720
1130	1130	2260	676	1050	1260	1380	2040	2590	1330	2040	1500
1200	1200	2280	718	1040	1280	1380	2970	2570	1320	2060	1440
1190	1190	2240	728	964	1300	1380	3350	2570	1440	2060	1480
1170	1170	1660	770	1080	1320	1390	4310	2400	1660	2240	1520
1240	1240	1750	770	1030	1300	1380	4220	2340	1750	2340	1530
1200	1200	1330	770	1100	1230	1420	4140	2340	1720	2300	1480
1300	1300	1080	738	1120	1230	1400	4170	2300	1770	2240	1580
1280	1280	847	528	1090	1210	1380	3930	2280	1700	2300	1520
1260	1260	749	494	1100	1210	1500	3720	2240	1610	2060	1750
1320	1320	618	627	1120	1200	1550	3980	2080	2160	2000	1880
1230	1230	627	676	1130	1200	1560	4480	2020	2360	1980	1980
1200	1200	696	646	1130	1210	1580	4440	2200	2360	2040	1900
1230	1230	1040	646	1170	1210	1600	3980	2160	2040	2020	1450
1270	1270	738	676	1170	1210	1700	3600	2060	2060	1900	1390
1340	1340	728	676	1200	1200	1920	3350	2020	2000	1940	1330
1270	1270	749	646	1210	1200	1730	3280	1940	2040	1940	1360
1340	1340	738	562	1190	1230	2040	3100	1900	2120	1940	1390
1440	1440	718	770	1280	1210	1750	3010	1900	2140	1980	1390
1320	1320	1000	952	1280	1230	1680	3010	1860	2020	1960	1240
1230	1230	988	964	1240	1260	2100	2950	1980	2140	2020	1240
1280	1280	964	1000	1190	1260	2910	2910	1960	2000	2020	1210
1340	1340	707	1000	1000	1000	2890	2890	2120	2080	2080	1210

* Interpolated

[illegible]

5,058	3,543	1,369	1,303	1,378
311,000	200,800	84,150	80,110	82,020

1	2060	16840	2770	1750
2	2750	4950	2420	1750
3	2960	5520	2330	1620
4	3370	5360	2150	1580
5	4760	5090	1830	1570
6	4650	5060	1720	1490
7	4220	5010	1640	1360
8	5150	4680	1260	1260
9	5240	4380	1150	1260
10	5330	4300	1100	1260
11	5520	4100	1320	1300
12	7270	3770	1290	1300
13	6690	3490	1280	1320
14	6760	3410	1170	1280
15	6660	3250	1170	1340
16	5960	2850	996	1380
17	5460	2620	812	1410
18	5300	2140	1080	1470
19	5770	2070	1360	1600
20	7080	2130	1340	1660
21	6790	2900	1440	1630
22	5400	3120	1210	1400
23	4780	2980	1160	1280
24	4490	2710	1090	1220
25	4430	2620	1080	1210
26	4410	2620	1060	1220
27	4520	2540	1150	1210
28	4650	2370	1090	1190
29	4730	2560	1240	1100
30	4780	2860	1110	1100
31	4870		1170	

34.8	21,410	19,350	17,430	190	277	313	414	639	1,177	958	523	426
	21,410	19,350	17,430	11,690	15,390	19,270	21,640	39,260	70,040	58,910	32,170	25,340

[illegible]

60L	530	122	37L	182	518	64.6	1,769	2,807	1,569	875	669
37,160	31,540	25,950	22,970	26,750	31,860	38,450	108,800	167,000	96,460	53,810	39,830

[illegible]

STATIONING ON THE RIGHT

Year	Acres	211,300	214,300	198,700	138,700	189,400	330,100	382,500	1,062,000	603,100	340,600	289,200	233,700
3,437	3,601	3,232	2,256	3,411	5,369	6,428	17,270	10,140	5,539	4,703	3,927		

MEAN
5,792
ACRE-FEET
4,193,600

3280	3120	4940	5000	3300	3360	2650	2650	2250	5790	5600	5100	5150	5150	9830	16600	7500	5250	12910	12910	12910
2970	2870	4040	5190	3430	2640	2600	2600	4400	4700	5150	5150	5150	5150	8310	12800	6670	5310	5060	4910	4910
2870	2870	3820	3440	2800	2250	2800	2800	4250	5250	5310	8350	11800	6150	5410	11800	6150	5410	5410	5410	5410
2830	2830	3820	3790	3080	2040	2250	2250	3770	9260	10300	10300	10700	5000	4820	10700	5000	4820	3030	3030	3030
2800	2800	3720	3150	2300	2040	2300	2300	3870	5060	17100	12400	12400	5030	5000	12400	5030	5000	3320	3320	3320
2780	2780	3520	3000	2180	3820	3000	3000	5030	17500	12200	12200	12200	5090	5030	12200	5090	5030	4240	4240	4240
2780	2780	3470	3470	2180	3890	3890	3890	5280	17600	11500	11500	11500	4790	4820	11500	4790	4820	3770	3770	3770
2830	2830	3430	3450	2350	3990	3990	3990	5600	18000	14900	14900	14900	4970	4970	14900	4970	4970	3540	3540	3540
3030	3030	3360	3470	2400	3870	3870	3870	5920	18900	14000	14000	14000	5380	5120	14000	5380	5120	3720	3720	3720
3090	3090	3240	3680	2650	3940	3940	3940	5950	18700	11100	11100	11100	6270	5090	11100	6270	5090	3870	3870	3870
3190	3190	3220	3790	2780	4110	4110	4110	5890	19700	9040	9040	9040	6600	4970	9040	6600	4970	4110	4110	4110
3280	3280	3050	3700	2750	5950	5950	5950	5670	21200	9080	9080	9080	6210	4940	9080	6210	4940	4260	4260	4260
3300	3300	3170	3560	2320	5950	5950	5950	6210	21400	8840	8840	8840	4970	4680	8840	4970	4680	4240	4240	4240
3320	3320	3220	3430	2260	5860	5860	5860	6800	21000	8560	8560	8560	4740	4550	8560	4740	4550	4160	4160	4160
3320	3320	3400	3460	1800	5920	5920	5920	6930	20600	7940	7940	7940	5030	4490	7940	5030	4490	3820	3820	3820
3320	3320	3400	3460	1800	5950	5950	5950	7030	20300	7060	7060	7060	5150	4290	7060	5150	4290	4110	4110	4110
3360	3360	2950	3560	1850	5950	5950	5950	7030	20200	6670	6670	6670	5510	4520	6670	5510	4520	4260	4260	4260
3320	3320	3070	3300	1780	6150	6150	6150	6930	20800	7060	7060	7060	5860	4520	7060	5860	4520	4420	4420	4420
3360	3360	2950	3040	1830	6830	6830	6830	6930	22000	8280	8280	8280	5860	4490	8280	5860	4490	4420	4420	4420
3300	3300	3280	2500	2200	6830	6830	6830	6540	22200	9220	9220	9220	5280	4240	9220	5280	4240	4360	4360	4360
3680	3680	3360	2900	2300	6670	6670	6670	6400	21000	9430	9430	9430	4760	4080	9430	4760	4080	4160	4160	4160
3960	3960	3450	3100	2300	4240	4240	4240	6400	19700	8840	8840	8840	4630	4260	8840	4630	4260	3890	3890	3890
4160	4160	3470	3230	2180	4910	4910	4910	8660	18300	8380	8380	8380	4660	4360	8380	4660	4360	3790	3790	3790
4310	4310	3430	3080	2100	7100	7100	7100	9120	18500	8010	8010	8010	4570	4180	8010	4570	4180	3610	3610	3610
4680	4680	3410	2700	2000	6630	6630	6630	9180	18500	7390	7390	7390	4910	4180	7390	4910	4180	3410	3410	3410
4820	4820	3430	2700	1830	5350	5350	5350	9150	18500	6900	6900	6900	5280	4210	6900	5280	4210	3170	3170	3170
4760	4760	3390	2800	2000	5190	5190	5190	9610	17800	6960	6960	6960	5440	4420	6960	5440	4420	2760	2760	2760

11,330	184	320	157	74.9	167	184	380	902	152	25.4	46.5	72.1
19,030	9,660	4,610	9,290	11,340	22,600	55,440	9,070	1,560	2,860	4,290		

1	1.18	1.54	1.64	90	75	86	73	41	62	58	92	114	209	234	227	210	206	189	184	159	129	117	94	106	164	221	318	431	466	457	433	
2	2.00	3.28	4.72	447	427	386	369	360	353	344	335	327	320	312	304	306	359	339	285	285	220	195	261	293	285	247	256	265	271	241	76	
3	2.66	2.89	2.93	73	72	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	120	200	400	600	620	562	500	---	---	---	---
4	3.81	2.70	2.51	245	240	203	200	200	235	226	253	259	893	924	937	370	433	478	516	516	470	439	460	522	632	678	675	1030	1020	986	960	908
5	1.80	1.81	1.63	170	163	205	270	278	244	226	253	259	893	924	937	155	137	153	146	110	127	132	134	108	1040	1040	1030	1020	986	960	908	
6	656	621	367	340	207	53	16	38	57	84	73	72	67	100	163	155	137	153	146	110	110	127	132	134	108	1040	1040	1030	1020	986	960	908
7	42	16	10	18	16	8	20	10	11	30	16	32	48	38	53	26	16	12	23	28	35	31	23	27	21	11	10	28	45	49	35	
8	29	46	63	68	81	99	44	44	31	21	32	70	94	45	44	53	39	47	47	35	52	53	51	43	23	24	34	52	35	40	43	
9	76	66	42	40	48	35	27	25	59	67	54	52	42	48	61	71	61	32	38	61	108	130	137	176	169	118	117	88	72	66	66	

1011	1021	1031	1041	1056	1064	1074	1083	1085	1092	1092	1252	1259	1266	1269	1272	1274	1275	1277	1283	1288	1290	1293	1295	1297	1300	1306	1311	1310	1309	1307
762	791	801	816	829	839	847	853	859	868	880	891	893	901	907	910	914	927	941	946	952	957	961	966	977	987	992	996	1001	1005	1005
621	622	624	627	628	632	637	644	641	641	642	643	643	654	653	665	667	669	668	676	686	696	700	700	708	715	728	743	756	761	771
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

[illegible]

18,220	0	0	0	0	9,870	66,680	70,710	79,400	74,480	50,370
296	0	0	0	0	166	759	1,188	1,291	1,211	846

[illegible]

[illegible]

[illegible][illegible]

		0	388	329	321	299	878	2,124	2,531	2,855	2,764	2,009
35,380	575	0	23,870	20,220	18,020	18,360	52,260	130,600	150,600	175,600	169,900	119,500
									1,263			

1700	0	371	335	336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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2,150	1,797	2,130	3,120	2,127	1,643	5,803	9,695	1,037	174	283	273
132,200	106,900	130,700	191,800	134,800	285,500	345,300	596,100	61,680	10,690	17,410	16,250
2,803	MEAN										
2,029,330	AGRS-1987										

398	2040	2040	2930	4740	2570	8350	2560	7290	61	266	279
731	2030	2010	3390	3040	2620	8330	1640	6690	59	282	279
626	2010	1990	3650	2380	2620	8330	3100	6220	58	282	279
290	1990	1970	3650	2380	2620	7780	3860	4770	131	285	296
296	2390	1990	4110	2230	2790	6720	3650	1640	119	279	296
1340	2540	1980	4090	2200	3370	5710	2860	180	64	279	279
2480	2320	2000	3700	2180	3750	5520	2900	161	71	303	279
2330	2320	2000	3120	2180	4590	4690	3910	161	70	301	279
1990	2180	2000	2900	2210	5560	4740	3740	163	66	266	279
554	2050	2000	2980	2260	5300	4890	4560	666	67	285	285
1870	1790	1960	3230	2240	4890	5020	7040	988	64	333	285
4370	1720	2000	3300	2230	4060	4960	8650	229	48	330	282
5240	1480	2000	3220	2200	3580	5050	9700	221	41	285	298
4200	1520	2060	2920	2200	3690	5030	11700	532	39	271	226
3910	1260	2120	2860	2210	3730	5030	13100	109	119	274	200
2080	1150	2120	2910	2230	4240	5760	12300	75	279	274	205
924	936	2180	2880	2230	4580	5550	12300	120	246	279	207
2290	858	2320	2750	2230	4570	5110	12800	74	253	279	205
2260	1060	2390	2940	2210	4540	5170	15100	53	256	279	221
2390	1440	2340	3090	2170	4530	6310	16100	52	258	282	431
2370	1760	2220	2910	2180	4160	6600	17600	52	271	285	822
2450	1870	2100	2520	2190	4560	5820	16800	55	285	279	336
2420	1870	2190	2580	2190	4790	5490	15900	100	279	274	205
2250	1870	2230	2630	2210	4760	6350	16000	91	266	274	202
2490	1860	2220	2640	2230	4740	6570	16000	103	282	279	214
2750	1860	2210	2610	2210	4760	6200	16000	63	261	277	214
2620	1860	2200	2610	2210	6170	5900	14600	59	256	277	205
2390	1880	2210	2670	2210	7810	5210	11300	58	271	274	202
2290	1960	2200	3030	2490	7830	4220	8920	59	282	277	202
2050	2030	2210	3820	---	7900	3150	7900	62	285	279	202