Measurements of Discharge.

ONTARIO DRAIN TUNNEL.

Measurements taken at station near Hailstone Ranch.

Measuring Device 8 foot suppressed weir.

1915	Discharge
May 10	15.9 sec. ft.
19	14.6 "
24	14.2 "
27	15.6 "
June 9	15.4 "
28	15.9 "
July 8	16.5 "
17	16.4 "
18	16.4 "
19	16.4 "
27	16.4 "
Aug. 12	15.6 "
13	15.7 "
17	16.6 "
20	16.80 "
23	16.6 "
26	16.6 "
30	15.8 "

Of the above 5.5 second feet was delivered to Midway Irrigation Company and the balance which was taken as a constant of 10.5 second feet was delivered to the Provo Reservoir Company.

NATURAL PROVO RIVER AT THE WASATCH DAM

Storage and Ontario Drain Tunnel water deducted.

Tunnel flow taken at 16.0 sec.ft.

	1915	Discharge
July	1	121.0 sec. ft.
	6	120.0 "
	7	117.0 "
	8	103.0 "
	9	89.0 "
	12	51.0 "
	14	81.0 "
	18	74.0 "
	19	76.0 "
	20	70.0 "
	23	63.0 "
	25	85.0 "
	26	76.0 "
August	2	75.0 "
	5	54.0 "
	7	58.0 "
	9	41.0 "
	10	50.00 "
	11	50.0 "
	13	40.0 "
	14	45.0 "
	16	43.0 "
	17	44.0 "
	18	41.0 "
	23	33.0 "
	24	36.0 "
	25	34.0 "
	26	35.0 "
	31	28.0 "
Sept.	2	27.0 "

Storage Water.

Discharged from Union Reservoirs. 1915.

Measured over 19 feet. Suppressed weir 3 ft. high
at Junction of Trial and Washington Lakes.
Gage Heights by Gardie Clegg and L. D. Clyde.

Date		G.H	Discharge Sec. Ft.	Assumed Inflow Sec. ft.	Net Discharge Sec. ft.	Remarks
July	4	0.90	55.48	3.75	49.98	
	5	0.79	45.22	3.75	41.87	
	6	0.78	44.84	3.75	41.09	
	7	0.75	42.27	3.75	38.52	
	8	0.75	42.27	3.75	38.52	
	9	0.73	40.56	3.75	36.81	
	10	0.72	39.61	3.75	35.86	
	11	0.70	37.90	3.75	34.15	
	12	0.73	40.56	3.75	36.81	
	13	0.82	48.64	3.75	44.89	
	14	0.83	49.02	3.75	45.27	
	15	0.95	60.42	2.0	58.42	
	16	0.92	58.04	2.0	56.04	
	17	1.02	66.64	2.0	64.64	
	18	1.05	70.87	2.0	68.87	
	19	1.05	70.87	2.0	68.87	
	20	1.05	70.87	2.0	68.87	
	21	1.05	70.87	2.0	68.87	
	22	1.05	70.87	2.0	68.87	
	23	1.05	70.87	2.0	68.87	
	24	0.80	45.96	2.0	43.96	
	25	0.80	45.96	2.0	43.96	
	26	0.82	48.64	2.0	46.64	
	27	0.83	49.02	2.0	47.02	
	28	0.83	49.02	2.0	47.02	
	29	0.73	40.56	2.0	38.56	
	30	0.74	41.14	2.0	39.14	
	31	0.73	40.56	2.0	38.56	
Aug.	1	0.74	41.14	2.0	39.14	
	2	0.74	41.14	2.0	39.14	
	3	0.74	41.14	2.0	39.14	
	4	0.74	41.14	2.0	39.14	
	5	0.74	41.14	2.0	39.14	
	6	0.74	41.14	2.0	39.14	
	7	0.74	41.14	2.0	39.14	
	8	0.54	25.36	2.0	23.36	
	9	0.53	24.89	2.0	22.89	
	10	0.54	25.36	2.0	23.36	
	11	0.42	17.55	1.0	16.55	
	12	0.42	17.55	1.0	16.55	
	13	0.44	17.71	1.0	16.71	
	14	0.435	18.52	1.0	17.52	
	15	0.43	18.18	1.0	17.18	
	16	0.45	19.28	1.0	18.28	
	17	0.44	18.71	1.0	17.71	
	18	0.45	19.28	1.0	18.28	
	19	0.44	18.71	1.0	17.71	
	20	0.44	18.71	1.0	17.71	
	21	0.45	19.28	1.0	18.28	
	22	0.43	18.18	1.0	17.18	
	23	0.43	18.18	1.0	17.18	
	24	0.43	18.18	1.0	17.18	
	25	0.425	18.00	1.0	17.00	
	26	0.43 Assumed	18.18	1.0	17.18	
	27	0.43	18.18	1.0	17.18	
	28	0.42	17.55	1.00	16.55	
	29	0.32	11.97	1.00	10.97	
	30		11.00	1.0	10.00	
	31		8.00	1.0	7.00	
Sept.	1		29.13	1.0	28.13	
	2		26.18	1.0	25.18	
	3		26.18	1.0	25.18	
	4		24.17	1.0	23.17	
	5		18.21	1.0	17.21	
	6		18.21	1.0	17.21	
	7		17.77	1.0	16.77	
	8		19.50	1.0	18.50	
	9		20.00	1.0	19.00	

Distribution of Storage Water 1915.

from

UNION RESERVOIRS.

Total estimated storage at reservoirs according to data furnished by Union Reservoir Co.,	5130	Acre feet.
Deduct 10%	513	
Total Storage assumed----------	4617	
Wasatch Irrigation assumed portion 7/28----------	1154	" "
Timpanogos " " " 7/28----------	1154	" "
Provo Reservoir Co. " 14/28----------	2309	" "
Sego Irrigation Co., Total	4617	" "

DELIVERED.

Timpanogos Irrigation Co. From July 6 at 7 A.M. to July 25 at 1 P.M.= 19.3 days, 30 second feet per day = 60 ac.ft.	1148	Acre feet.
Wasatch Irrigation Co. July9 at 6 A.M. to July 18 at 7 A.M. = 290 ac.ft. July 18 at 7 A.M. to July 31----- = 590 " " July 31------- to Aug. 9 at 6 A.M. = 276 " " =	1156	" "
Provo Reservoir Co. Sego Irrigation Co. From July 6 at 6 A.M. to August 14 at 6 A.M. = 39 days, 23 second feet per day= 46 ac.ft.=	1794	" "
From August 14 at 6 A.M. to Sept. 6 at 12 Noon= 23.25 days, 18 second feet per day = 36 ac.ft. =	837	" "
	2631	
Drawn from other lakes	440	
Storage from Union Reservoirs	2191	" "
Total Storage assumed at ----------	4617	" "
" " drawn from Reservoirs----------	4396	" "
Difference	221	
Provo Reservoir Co. assumed portion----------	2309	" "
Sego Irrigation Co. Drawed----------	2191	" "
Short----------	118	" "

The above dates are the dates of delivery of storage water at the Wasatch Dam.

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WATER DELIVERED THROUGH THE PROVO RESERVOIR COMPANIES FLUME, 1915.

Gate from the Wasatch canal near Heber Power Plant Rating Flume changed to a weir during the season.

Date	Discharge	Date	Discharge
June 30	20.70	Aug. 13	36.2
July 2	20.00	" 14	35.6
" 6	34.20	" 14	28.0
" 7	34.2	" 16	28.0
" 8	37.0	" 17	28.6
" 9	34.2	" 20	26.7
" 12	31.0	" 20	32.9
" 14	32.0	" 21	31.7
" 18	32.4	" 21	34.4
" 19	34.5	" 26	30.6
" 20	34.5	" 26	32.3
" 23	34.0	" 31	27.6
" 25	37.0	" 31	33.8
" 26	35.6	Sept. 2	33.8
Aug 1	30.7	" 2	30.9
" 2	41.0	" 6	34.9
" 5	32.8	" 6	15.0
" 7	34.4	" 6	19.0
" 9	28.1		
" 9	38.0		
" 10	39.3		
" 11	42.7		
" 11	36.0		
" 12	34.9		

The above shows the total flow of water through the Provo reservoirs Co. flume to the river below the Wasatch Dam. From July 6 to Aug. 12 the Provo Reservoir Co and Sego

Irrigation Company draw 33.5 second feet, of which 23 is storage from reservoirs and 10.5 second feet is Ontario Tunnel water. From Aug. 12 to Sept. 6 Provo Reservoir Company and Sego Irrigation Company draw 28.5 second feet, of which 18 second feet is storage water and 10.5 second feet Ontario tunnel water. The amount in excess of this amount was delivered to the Midway Irrigation Company and others.

The gate leading from the Wasatch Canal to the Provo Reservoir Co. flume was locked on July 12 and one key was delivered to the commissioner and one key kept by myself.

Storage Water Discharge from the

Lost Lake Reservoir System, 1915.

Discharge regulated by L.D.Clyde and Cardie Clegg.

	Date	G.H.	Discharge	Inflow	Net Discharge
July	4		9 sec.ft.	6 sec.ft.	3 sec.ft.
	5		19	6	13
	6		20	5	15
	7		20	4	16
	8		10	4	6
	9		10	3	6
	10		10	3	7
	11		10	2	8
	12		8	2	6
	13		8	2	6
	14		6	2	4
	15		3.6	1.5	3.1
	16		5	1.4	3.6
	17		4	1	3
	18		4	1	3
	19		4	.6	3.4
	20		4	.6	3.4
	21		3	.5	2.5
	22		3	.5	2.5

Total storage 229 acre feet.

Storage Water Discharge from the North Fork

Reservoir System. 1915.

Discharge regulated by L.D.Clyde and Cardie Clegg.

Date	Discharge	Inflow	Net Discharge
July 10	20 sec.ft.	4.5 sec.ft	15.5 sec.ft.
11	20	4.0	16.0
12	20	4.0	16.0
13	12	3.5	8.5
14	12	3.5	8.5
15	8	3.0	5.0
16	6	2.5	3.5
17	6	2.5	3.5
18	6	2.5	3.5
19	4	2.5	1.5
20	4	2.5	1.5
			83.0

Total storage 166 acre feet.

Storage Water Discharged from the

Hay Stack Reservoir System 1915.

Discharge regulated by Cardie Clegg and L.D Clyde.

Date		Discharge	Inflow	Net Discharge
July	8	10 sec.ft.	.5 sec ft	9.5 sec ft
	9	10	.5	9.5
	10	2	.2	1.8
	11	2	.2	1.8
				22.6

Total storage 45 acre feet. (approximately)

Storage Water Discharged from the

Big Elk Lake Reservoir

Discharge regulated by Mr. Davis.

Date	Discharge	Inflow	Net Discharge
July 12	16 sec.ft.	1 sec.ft.	15 sec.ft.
13	16	1	15
14	16	1	15
15	16	1	15
16	16	1	15
17	16	1	15
18	16	1	15
19	16	1	15
20	16	1	15
21	16	1	15
22	16	1	15
23	16	1	15
24	16	1	15
25	16	1	15
26	16	1	15
27	16	1	15
28	16	1	15
29	16	1	15
30	16	1	15
31	16	1	15
Aug. 1	16	1	15
2	16	1	15

Total storage 660 acre feet.

List of Diversions and Measuring Devices.

Wasatch Division.

September 1, 1915.

Diversion	Measuring Device.
Union Reservoir at Reservoir	19 ft. Suppressed weir
1 Stewarts Ranch a b c d	4 Cippolettl weirs
2 Sunrise Canal	3.4 Rating flume
3 Stewarts Bros.	None
4 James Duncan	2 " Suppressed weir
4a	2 " Rating flume
5 South Kamas Canal	6 " "
6 Washington Canal	7 " "
7 Phillips Ditch Canal	4.4 Suppressed weir
8 Thomas White Ditch	None
9 Upper Moon Ditch	18 in. Cipproletti weir
10 Fitzgerald Hardman Ditch	None
11 Lowin Moon Ditch	12 in. Cippoletti weir
12 Larsen Cutler Ditch	3.7' Rating flume
13 James A Knight	24 in. Cippoletti weir
14 Turnbow & Gines	2.35 ft Rating flume
15 Ether Webb a b	18 in. Cippoletti weir
15 Ether Webb c	24 " Suppressed weir
16 James A. Knight	24 " Cippoletti weir
17 James A Knight	24 " "
18 Rasmus Larsen a b c	3 ft. Suppressed weir
19 William Lennon No. 1	18 in. Cippoletti weir
19 William Lennon No. 2	12 " "
20 Larsen & Bates	12 " "
21 Jack Bates a b c d	24 " Rating flumes
22 Harold C. Best	24 " Suppressed weir
23 Utah Power & Light Co. (Irrigation)	None
23 Utah Power & Light Co.(Power)	2-8' Contracted weirs
24 Walker Ditch	None
25 George Davis Ditch	None
26 Levi North Ditch	None
27 John Buttery "	18 in. Cippoletti weir
28 Davis Bros. "	3 ft. Suppressed weir
29 Monis Bros. "	3 "
30 Lawry Ditch	18 in. Cippoletti weir
31 Timpanogos Canal	8.6 Rating flume
32 Heber Light & Power Company	None
33 George Jordan Ditch	4 ft Suppressed weir
34 Isaac R. Baum "	None
35 North Field Canal	15 Suppressed weir
36 Wasatch Canal	18 "
37 Provo Reservoir Company	9 "
Lost Lake Reservoir System	Weir
Haystack "	None
North Fork "	None
Big Elk "	Planned

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