

EMERSON INVESTMENT INC.
2003 WATER Year
Shasto River

Stored water from Dwinell Res. was started on June 26 @ 6 C.F.S.

ON 8-1-03 release for Emerson was up to 8 CFS, and continued until September Sept. 30.

Due to Dwinell Res almost filling and late snow run off water supply stayed above 100% all water master season for the Shasto River,

Water was spilling over Emerson's diversion Dams all season

Flows for EMERSON Spring are Est.

GRAVITY Div. has a 2' PARSHALL Flume with a F-Type recorder - v

Elec Pumps also has 2' Parshall Flume with F-Type Recorder

Est. Flows over 2 Six Foot Bays @ Lower Dam

		1-6'	1.6'	
5-30-03	.48	6.5	6.5	13 cfs
7-8-03	.38	4.6	4.6	9.2 cfs
8-13-03	.28	2.9	2.9	5.8 cfs
9-30-03	.10	.63	.63	1.2 cfs

Fish bypass were open and cleaned each visit

WATER MASTER
K.B. Dick

2003 WATER YEAR EMERSON INVESTMENT, INC.

Date	April		MAY	
	Elect. Pumps GHT cfs	Gravity GHT cfs	Elect. Pumps	Gravity
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12	^{12 Hr} 162 1.9	^{12 Hr} 70 2.3		
13	3.8	4.6		0
14	3.8	4.6		.76 5.2
15	3.8	4.6		.80 5.7
16	3.8	4.6		.78 5.4
17	3.8	4.6		.75 5.1
18	3.8	4.6	0	.75 5.1
19	3.8	4.6	1.0 8.0	.75 5.1
20	62 3.8	4.6	.76 5.2	.70 4.6
21	62 3.6	4.6	.76 5.2	.75 5.1
22	.98 7.8	4.6	.76 5.2	.80 5.7
23	.98 7.8	4.6	.70 4.6	.82 5.8
24	.98 7.8	4.6	.77 5.3	.80 5.7
25	.98 7.8	4.6	1.0 8.0	.76 5.2
26	.98 7.8	4.6	1.0 8.0	.75 5.1
27	.98 7.8	4.6	1.0 8.0	.75 5.1
28	.98 7.8	4.6	1.0 8.0	.75 5.1
29	.98 7.8	4.6	1.0 8.0	.75 5.1
30	.76 5.2	^{12 Hr} 70 2.3	1.0 8.0	.72 4.8
31	- - -	- - -	1.0 8.0	.70 4.6

105.5 cfs

78.2 cfs

89.5 cfs

93.5 cfs

* 209.4 ac ft

155 ac ft

* 178 ac ft

185 ac ft

* Includes 2.0 cfs From Springs

No stored water was used in April and May

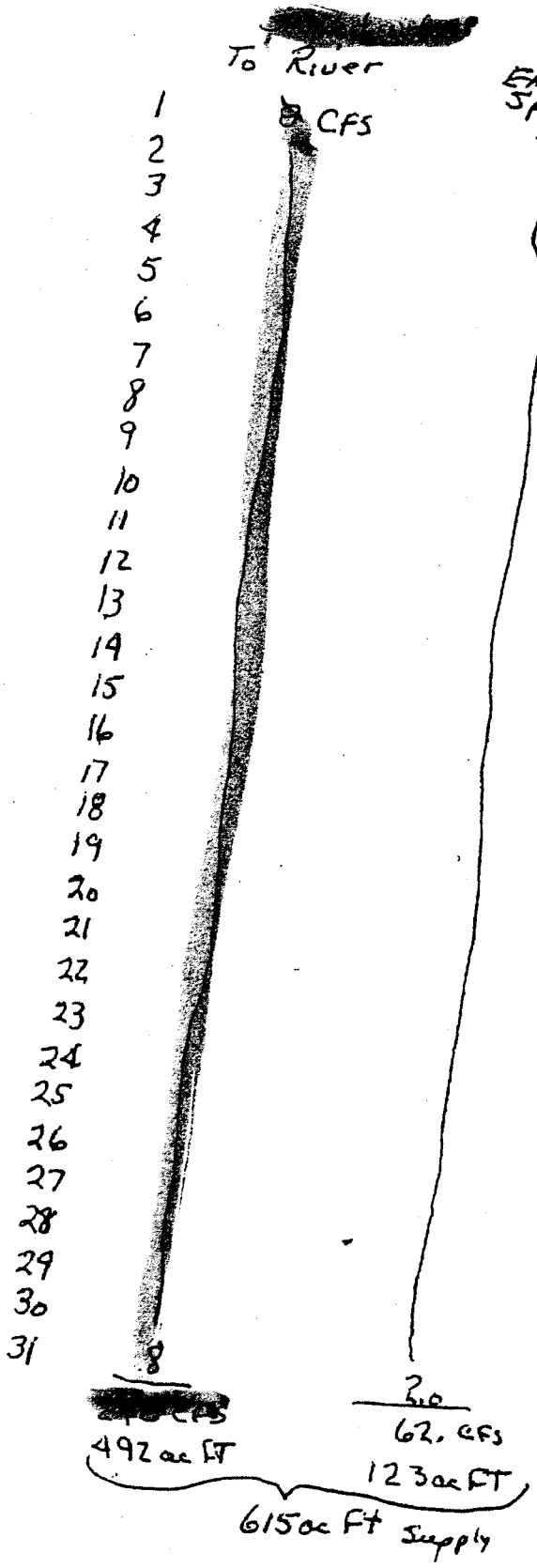
This is not low

EMERSON Investment, Inc

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June Elect. Pumps		Gravity		July 21st to 31st ^{15th} To River		July Elect Pumps		GRA	
GHT	CFS	GHT	CFS	RAFS	2.0	GHT	CFS	GHT	
1	1.0	8.0	.70	4.6		.75	5.1	.68	
2		8.0	.70	4.6			5.1	.68	
3		8.0	.70	4.6			5.1	.68	
4		8.0	.68	4.4			5.1	.68	
5		8.0	.68	4.4			5.1	.68	
6		8.0	.70	4.6		.75	5.1	.65	
7		8.0	.65	4.1		.76	5.2	.65	
8		8.0	.70	4.6			5.2	.65	
9		8.0	.65	4.1			5.2	.68	
10		8.0	.70	4.6			5.2	.68	
11		8.0	.70	4.6			5.2	.66	
12		8.0	.70	4.6			5.2	.68	
13		8.0	.72	4.8			5.2	.70	
14		8.0	.72	4.8			5.2		
15	1.0	8.0	.70	4.6		.76	5.2		
16	1.05	8.6	.70	4.6		.75	5.1		
17		8.6	.70	4.6		.75	5.1		
18		8.6	.70	4.6		.75	5.1		
19		8.6	.65	4.1		.80	5.7		
20		8.6	.65	4.1			5.7		
21	1.05	8.6	.65	4.1			5.7		
22	1.04	8.5	.65	4.1			5.7		
23		8.5	.65	4.1			5.7	.70	
24		8.5	.65	4.1			5.7	.68	
25	1.04	8.5	.65	4.1			5.7	.68	
26	1.02	8.2	.68	4.4			5.7	.68	
27	1.0	8.0	.68	4.4			5.7	.70	
28	1.0	8.0	.68	4.4			5.7	.70	
29	1.0	8.0	.68	4.4			5.7	.70	
30	1.0	8.0	.68	4.4			5.7	.70	
31								.70	
30cfs		2458cfs		123cfs		249cfs		E:	
59acft		488acft		244acft		62cfs		2	
						123acft			
						615acft supply			
						1668cfs		606acft used	
						331acft			

EMERSON INVESTMENT, INC.
AUG



Elect. Pumps		Gravity	
GHT. NO.	FT CFS		
.80	5.7	.75	5.1 CFS
.80	5.7	.75	5.1
.80	5.7	.75	5.1
.80	5.7	.74	5.0
.78	5.4	.74	
.78	5.4		
.78	5.4		
.80	5.7		
.80	5.7		
.80	5.7		
.80	5.7		
.80	5.7	.74	5.0
.80	5.7	.72	4.8
.78	5.4	.75	5.1
.76	5.2		5.1
.76	5.2		5.1
.76	5.2		5.1
.76	5.2		5.1
.75	5.1	.75	5.1
.75	5.1	.72	4.8
.75	5.1	.72	4.8
.66	4.2	.70	4.6
.67	4.3	.70	4.6
.67	4.3	.69	4.5
.68	4.4	.69	4.5
.70	4.6	.74	5.0
.62	3.8	.74	5.0
.62	3.8	.74	5.0
.64	3.7	.74	5.0
158.9 cfs		148.6 cfs	
315 ac FT		295 ac FT	
610 ac FT used			

EMERSON INVESTMENT, INC.
September

