Estimated from Cuyamaca Rainfall + Tabulated Report #30

9-192 UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Daily gage height, in feet, and discharge, in second-feet, of S. S. L. R. River at near Warners Dam for 1899

Drainage area ..... square miles. [..... , observer.]

Day.	JANUARY. Gage height.	Discharge.	FEBRUARY Gage height.	Discharge.	MARCH Gage height.	Discharge.	APRIL Gage height.	Discharge.	MAY Gage height.	Discharge.	JUNE Gage height.	Discharge.
1	0	1	3	3	5.6	5	10.9	9			10.0	8
2	0	1	20	16	5.3	5	9.3	7			10.0	8
3	0	1	33	25	5.	5	9.0	7			0	1
4	0	1	13.3	9	4.7	4	8.6	7			0	1
5	0	1	14.9	12	4.1	4	8.1	6			0	1
6	0	1	10.1	8	3.6	3	7.8	6			0	1
7	0	1	10.2	8	3.6	3	7.3	6			0	1
8	0	1	10.2	8	3.6	3	6.5	5			0	1
9	0	1	9.3	7	3.6	3	6.2	5			0	1
10	0	1	9.0	7	3.6	3	5.9	5			0	1
11	24	19	8.6	6	3.6	3	5.3	4			0	1
12	0	10	7.8	6	3.6	3	4.9	4			0	1
13	0	7	7.8	6	3.6	3	4.6	4			0	1
14	10	8	7.8	6	3.6	3	4.4	3			0	1
15	0	7	7.8	6	3.6	3	4.1	3			0	1
16	6	5	7.3	6	3.6	3	3.9	3			0	1
17	6	5	6.9	6	24.4	20	3.6	3			0	1
18	6	5	5.9	6	24.4	20	0	2			0	1
19	5.6	5	5.6	6	11.2	9	0	2			0	1
20	5.3	5	5.3	4	11.7	9	0	2			0	1
21	4.9	4	4.9	4	25	20	0	1			0	1
22	4.7	4	4.7	4	18.5	15	0	1			0	1
23	3.	3	4.7	4	13.2	11	0	1			0	1
24	3.6	3	16.8	14	11.7	9	0	1			0	1
25	3.6	3	10.1	8	10.9	9	0	1			0	1
26	3.6	3	7.5	6	19.5	15	4.7	1			0	1
27	3.4	3	6.6	5	11.7	9	4.1	1			0	1
28	3.	3	5.9	5	10.9	9	0	1			0	1
29	3.	3			17.8	15	0	1			0	1
30	3	3			15.1	12	0	1			0	1
31	3	3			11.7	10						
Total	141		211		248		103		31		44	
Mean	4.55		7.5		8.0		3.43		1.0		1.47	
Sec.-ft. per square mile												
Run-off, depth in inches												
Run-off in acre-feet	282		422		496		206		62		88	
Maximum												
Minimum												
Accuracy												

1899

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Daily gage height, in feet, and discharge, in second-feet, of ..... River at near ..... for 1899

Drainage area ..... square miles. [..... , observer.]

Day.	JULY Gage height.	Discharge.	AUGUST Gage height.	Discharge.	SEPTEMBER Gage height.	Discharge.	OCTOBER Gage height.	Discharge.	NOVEMBER Gage height.	Discharge.	DECEMBER Gage height.	Discharge.
1									0	1	0	1
2									0	1	0	1
3									0	1	0	1
4									0	1	0	1
5									0	1	0	1
6									0	1	0	1
7									0	1	0	1
8									0	1	0	1
9									0	1	0	1
10									0	1	0	1
11									0	1	0	1
12									0	1	0	1
13									0	1	0	1
14									0	1	0	1
15									0	1	0	1
16									0	1	2	2
17									0	1	0	1
18									0	1	4.8	5
19									0	1	3.6	3
20									0	1	0	1
21									0	1	0	1
22									0	1	0	1
23									3.0	3	0	1
24									0	1	0	1
25									0	1	2.6	2
26									0	1	0	1
27									0	1	0	1
28									0	1	0	1
29									0	1	0	1
30									0	1	7.2	6
31											5.4	4
Total	22		15		18		18		32		47	
Mean	0.7		.5		.6		.6		1.07		1.52	
Sec.-ft. per square mile												
Run-off, depth in inches												
Run-off in acre-feet	44		30		36		36		64		94	
Maximum												
Minimum												
Accuracy												

Year period

Dist. Eng.

Gage hts. checked from obs. book ..... by .....

Gage hts. copied by .....

Discharge applied by .....

Discharge checked by .....

9—192

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Estimated from Cuyamaca Rainfall + Tabor R.S. Paper #300—

Daily gage height, in feet, and discharge, in second-feet, of S. F. R. River at or near Warner Dam for 1918

Drainage area 75 square miles. [, observer.]

1898

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Daily gage height, in feet, and discharge, in second-feet, of River at or near for 191

Drainage area square miles. [, observer.]

Day.	JANUARY. Gage height.	Discharge.	FEBRUARY Gage height.	Discharge.	MARCH Gage height.	Discharge.	APRIL Gage height.	Discharge.	MAY Gage height.	Discharge.	JUNE Gage height.	Discharge.	Day.	JULY Gage height.	Discharge.	AUGUST Gage height.	Discharge.	SEPTEMBER Gage height.	Discharge.	OCTOBER Gage height.	Discharge.	NOVEMBER Gage height.	Discharge.	DECEMBER Gage height.	Discharge.	Day.
1	5	4	16	13	8	6		11		100		5	1			1								1	1
2	5	4	16	13	8	6		11		100		5	2			1								1	2
3	9	7	16	13	8	6		11		100		5	3			1								1	3
4	—	6	15	12	8	6		11		50		5	4			1								1	4
5	6	5	15	12	8	6		11		30		5	5			1								1	5
6	8	7	13	10	8	6		10		25		4	6			1								1	6
7	8	7	15	12	8	6		10		23		4	7			1								1	7
8	50	40	—	30	8	6		10		21		4	8			1								1	8
9	—	40	22	18	8	6		10		19		4	9			1								1	9
10	—	40	19	15	27	22		10		17		4	10			1								1	10
11	—	30	17	14	33	26		9		15		3	11			1								1	11
12	—	25	15	12	21	17		9		14		3	12			1								1	12
13	—	20	12	10	17	14		9		13		3	13			1								1	13
14	19	15	10	8	18	15		9		12		3	14			1								1	14
15	19	15	10	8	24	19		9		200		3	15			1								2	15
16	21	17	10	8	17	14		8		150		2	16			1								2	16
17	26	21	13	10	22	18		8		130		2	17			1								2	17
18	38	31	22	18	21	17		8		100		2	18			1								2	18
19	19	15	17	14	26	21		8		70		2	19			1								2	19
20	18	14	13	10	28	22		8		40		2	20			1								2	20
21	14	11	12	10	20	16		7		25		2	21			1								1	21
22	13	10	10	8	17	14		7		20		2	22			2								1	22
23	40	35	10	8	18	15		7		18		2	23			2								1	23
24	35	28	9	7	15	12		7		16		2	24			2								1	24
25	26	21	9	7	—	12		7		14		2	25			2								1	25
26	20	16	9	7	—	12		7		12		1.5	26			1								1	26
27	14	11	9	7	—	11		7		10		1.5	27			1								1	27
28	19	15	9	7	—	11		7		8		1.5	28			1								1	28
29	22	18	—	7	—	11		30		7		1.5	29			1								1	29
30	19	15			—	11		30		6		1.5	30			1								1	30
31	16	13			—	11				6			31			1								1	31
Total	456		328		395		276		1371		87			37		35		30		31		30		37	
Mean	14.7		11.3		12.7		9.2		44.2		2.9			1.2		1.13		1.0		1.0		1.0		1.20	
Sec.-ft. per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet	912		656		790		552		2740		174			74		70		60		62		60		74	
Maximum																									
Minimum																									
Accuracy																									

Gage hts. checked from obs. book.

Computed by

Discharge applied by

Checked by

Discharge checked by

Dish. Eng.

Gage hts. copied by

Gage hts. checked by

Year period

9-192 UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Daily gage height, in feet, and discharge, in second-feet, of S L R River at near Wasmuo for 191

Drainage area ..... square miles. [..... observer.]

Estimated From Cuyamaca Rainfall + Tabr.

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Daily gage height, in feet, and discharge, in second-feet, of ..... River at near .....

Drainage area ..... square miles. [..... observer.]

1897 for 191

Day.	JANUARY. Gage height.	Discharge.	FEBRUARY Gage height.	Discharge.	MARCH Gage height.	Discharge.	APRIL Gage height.	Discharge.	MAY Gage height.	Discharge.	JUNE Gage height.	Discharge.	Day.	JULY Gage height.	Discharge.	AUGUST Gage height.	Discharge.	SEPTEMBER Gage height.	Discharge.	OCTOBER Gage height.	Discharge.	NOVEMBER Gage height.	Discharge.	DECEMBER Gage height.	Discharge.	Day.
1	7	7	–	26		10	–	100		11			1									1.8		4	1
2	7	7	–	25		10	–	80		10			2									1.8	4	4	2
3	6	6	–	25		40	79	65		10			3									1.8	4	4	3
4	6	6	–	25		35	–	53		9			4									1.8	4	4	4
5	6	6	–	25		30	–	45		8			5									1.8	4	4	5
6	6	6	–	24		25	–	40		7			6									1.8	3	3	6
7	5	5	–	24		26	–	35		6			7									1.8	3	3	7
8	5	5	–	23		25	–	32		6			8									1.8	3	3	8
9	5	5	–	23		25	–	28		6			9									1.8	2.5	2	9
10	10	10	24	22		25	31	25		6			10									1.8	2.5	2	10
11	18	15	21	20		20	26	21		6			11									1.8	2.5	2	11
12	37	30	21	20		20	31	25		6			12									1.8	2.5	2	12
13	21	17	21	20		20	35	28		6			13									1.8	2.5	2	13
14	–	15	21	20		20	33	26		6			14									1.8	2.5	2	14
15	–	15	19	18		20	28	23		6			15									1.8	2.5	2	15
16	–	30	19	18		15	27	22		5			16									1.8	7	6	16
17	–	20	21	20		15	24	20		5			17									1.8	6	5	17
18	–	15	29	25		15	24	20		5			18									1.8	10	8	18
19	–	15	–	24		15	22	19		5			19									1.8	–	8	19
20	–	20	–	23		15	22	19		5			20									1.8	10	8	20
21	24	23	–	22		10	–	17		4			21									1.8	10	8	21
22	21	20	–	21		10	–	16		4			22									1.8	–	8	22
23	19	18	–	20		10	–	15		4			23									1.8	–	7	23
24	19	18	300	240		10	–	15		4			24									2.	–	7	24
25	19	18	–	100		10	–	14		4			25									2.	9	7	25
26	19	18	–	50		10	–	14		4			26									2.	9	7	26
27	21	20	–	40		10	–	13		4			27									2.	9	7	27
28	19	18	–	30		200	–	13		4			28									10	8	6	28
29	24	22	–	20		160	–	12		4			29									6	8	6	29
30	30	25				160	–	12		4			30									5	8	6	30
31	33	27				130							31										6	5	31
TOTAL		382		893		1145		869		175		36			34		31		30		50		70		152	
Mean		12.3		30.8		36.9		29.0		5.6		1.20			1.10		1.0		1		1.6		2.3		5.0	
Sec.-ft. per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet		764		1786		2290		1738		350		72			68		62		60		100		140		304	
Maximum																										
Minimum																										
Accuracy																										

Dist. Eng.

Gage hts. checked from obs. book.....Gage hts. copied by.....

Computed by.....Discharge applied by.....

Checked by.....Discharge checked by.....

Year period

Estimated from Cuyamaca Rainfall and Tahoe readings

1896

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Daily gage height, in feet, and discharge, in second-feet, of SLR River at or near Wasmus for 191

Drainage area ____ square miles. [____, observer.]

Day.	JANUARY. Gage height.	JANUARY. Discharge.	FEBRUARY Gage height.	FEBRUARY Discharge.	MARCH Gage height.	MARCH Discharge.	APRIL Gage height.	APRIL Discharge.	MAY Gage height.	MAY Discharge.	JUNE Gage height.	JUNE Discharge.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Total												
Mean												
Sec.-ft. per square mile												
Run-off, depth in inches												
Run-off in acre-feet												
Maximum												
Minimum												
Accuracy												

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Daily gage height, in feet, and discharge, in second-feet, of ____ River at or near ____ for 191

Drainage area ____ square miles. [____, observer.]

Day.	JULY Gage height.	JULY Discharge.	AUGUST Gage height.	AUGUST Discharge.	SEPTEMBER Gage height.	SEPTEMBER Discharge.	OCTOBER Gage height.	OCTOBER Discharge.	NOVEMBER Gage height.	NOVEMBER Discharge.	DECEMBER Gage height.	DECEMBER Discharge.
1		1				1		1	3	3	5	5
2		1				1		1	3	3	5	5
3		1				1		1	2	2	5	5
4		1				1		1	2	2	5	5
5		1				2		1	2	2	5	5
6		1				2		1	3	3	5	5
7		1				2		1	3	3	5	5
8		1				2		1	3	3	5	5
9		1				2		1	3	3	4	4
10		1				2		1	4	4	4	4
11		1				1		1	5	5	5	5
12		1				1		1	5	5	5	5
13		1		31		1		1	4	4	5	5
14		1		1		1		1	3	3	5	5
15		1				1		1	2	2	40	40
16		1		Cater		1		1	3	3	13	13
17		1				1		1	3	2	9	9
18		1				1		1	2	2	8	8
19		1				1		2	2	2	7	7
20		1				1		2	3	3	6	6
21		2				1		2	3	3	5	5
22		2				1		2	3	3	5	5
23		2				1		2	3	3	5	5
24		2				1		2	7	7	5	5
25		2				1		2	17	17	4	4
26		1				1		2	1	10	4	4
27		1				1	7	7	7	7	4	4
28		1				1	10	10	7	7	13	11
29		1				1	8	8	7	7	38	30
30		1				1	4	4	5	5	10	10
31		1					3				7	7
Total		36		31		36		65		128		233
Mean		1.16		1.0		1.16		2.10		4.27		7.5
Sec.-ft. per square mile												
Run-off, depth in inches												
Run-off in acre-feet		72		62		72		130		254		466
Maximum												
Minimum												
Accuracy												

Dist. Eng.

Gage hts. copied by

Gage hts. checked by

Computed by ____ Discharge applied by ____

Checked by ____ Discharge checked by ____

Year period

e-xpe

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Estimated from Cuyamaca Rainfall

Daily gage height, in feet, and discharge, in second-feet, of Old R. River at or near Warners for 191

Drainage area ..... square miles. (..... , observer.)

1895

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.]

Daily gage height, in feet, and discharge, in second-feet, of ..... River at or near ..... for 191

Drainage area ..... square miles. (..... , observer.)

Day.	JANUARY. Gage height.	JANUARY. Discharge.	FEBRUARY Gage height.	FEBRUARY Discharge.	MARCH Gage height.	MARCH Discharge.	APRIL Gage height.	APRIL Discharge.	MAY Gage height.	MAY Discharge.	JUNE Gage height.	JUNE Discharge.	Day.	JULY Gage height.	JULY Discharge.	AUGUST Gage height.	AUGUST Discharge.	SEPTEMBER Gage height.	SEPTEMBER Discharge.	OCTOBER Gage height.	OCTOBER Discharge.	NOVEMBER Gage height.	NOVEMBER Discharge.	DECEMBER Gage height.	DECEMBER Discharge.	Day.
1		15		8	Tabn	10	Tabn	50	Tabn	34		6	1								1		2		5	1
2		10		8		10		45		30		6	2								1		2		4	2
3		9		8		10		45		50		6	3								1		2		3	3
4		8		8		10		50		40		6	4								1		20		2	4
5		7		8		10		55		38		6	5								1		20		2	5
6		150		8		10		60		36		6	6								1		10		2	6
7		60		8		10		65		35		6	7								1		5		2	7
8		30		8	152	122		70		33		6	8								1		5		2	8
9		28		8		80		75		32		6	9								1		5		2	9
10		26		100		50		80	39	× 31		6	10		2.0		1.00		1.20		1		5		2	10
11		24		100		45	100	× 80		30		6	11								1		6		2	11
12		22		100		40		80		28		5	12								1		5		2	12
13		20		100		35		75		26		5	13								1		5		2	13
14		18		60		150		75		24		5	14								1		5		2	14
15		200		30		100		70		22		4	15								1		5		2	15
16		300		30		70		65		20		4	16								1		4		10	16
17		500		30		50	72	× 58		78		4	17								1		4		5	17
18		300		25		50		55		16		3	18								1		4		5	18
19		350		25		45		50	19	× 15		3	19								1		4		4	19
20		200		25		40		45		14		3	20								1		4		4	20
21		250		20		35		40		13		3	21								2		4		6	21
22		120		20		30		35		12		3	22								2		40		5	22
23		70		20		25		32		11		2	23								2		30		4	23
24		50		15		20		28		10		2	24								1		20		3	24
25		30		15		15		25		9		2	25								1		25		2	25
26		20		10		10		23		8		2	26								1		20		2	26
27		15		10		10		20		7		2	27								1		15		2	27
28		10		10		100		50		7		2	28								2		10		2	28
29		10		10		100		40		6		2	29								2		15		2	29
30		10		10		70		37		6		2	30								2		10		2	30
31		10				60				6			31								1				2	31
Total		2872		827		1432		1578		667		124														
Mean		92.7		28.9		45.9		52.6		21.5		4.13														
Sec.-ft. per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet		5744		1654		2844		3156		1334		248														
Maximum																										
Minimum																										
Accuracy																										

average 2.0 / average 1.00

← don't use as no data next year →

Dist. Eng.

Gage hts. copied by .....

Gage hts. checked by .....

Discharge applied by .....

Compiled by .....

Discharge checked by .....

Checked by .....

Year period

9-192 Estimated UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.] Using Pgs 1894

Daily gage height, in feet, and discharge, in second-feet, of S. L. R. River at or near Warner Dam for 1894

Drainage area ____ square miles. From Rainfall at Cuyamaca

-523- U.S. Supply Paper #201.

UNITED STATES GEOLOGICAL SURVEY. [WATER RESOURCES BRANCH.] 1894

Daily gage height, in feet, and discharge, in second-feet, of ____ River at or near ____ for 191

Drainage area ____ square miles. [____, observer.]

Day.	JANUARY. Gage height.	JANUARY. Discharge.	FEBRUARY Gage height.	FEBRUARY Discharge.	MARCH Gage height.	MARCH Discharge.	APRIL Gage height.	APRIL Discharge.	MAY Gage height.	MAY Discharge.	JUNE Gage height.	JUNE Discharge.	Day.	JULY Gage height.	JULY Discharge.	AUGUST Gage height.	AUGUST Discharge.	SEPTEMBER Gage height.	SEPTEMBER Discharge.	OCTOBER Gage height.	OCTOBER Discharge.	NOVEMBER Gage height.	NOVEMBER Discharge.	DECEMBER Gage height.	DECEMBER Discharge.	Day.
1													1		1		.9		1	Taken	1		1	Taken	2	1
2													2		1		.9		1		1		1		2	2
3													3		1		.9		1		1		1		2	3
4													4		1		.9		1		1		1		2	4
5													5		1		.9		1		1		1		2	5
6													6		.9		1		1		1		1		26	6
7													7		.9		1		1		1		1		16	7
8													8		.9		1		1		1		1	10	18	8
9													9		.9		1		1		1		1		7	9
10													10		.9		1		1		1		1		6	10
11													11		.8		1		1		1		1		5	11
12													12		.8		1		1		1		1		5	12
13													13		.8		1		1		1		1		5	13
14													14		.8		1		1		1		1		9	14
15													15		.8		1		1		1		1		5	15
16													16		.7		1		1		1.5		1		5	16
17													17		.7		1		1		1		1		10	17
18													18		.7		1		1		1		1		90	18
19													19		.7		1		1		1		1		150	19
20													20		.7		1		1		1.		1	240	192	20
21													21		.7		1		1		1.		1	48	80	21
22													22		.7		1		1		1.		1		80	22
23													23		.7		1		1	Taken x Date?	1.5		1		45	23
24													24		.7		1		1		1.		1		40	24
25													25		.7		1		1		1.		1		35	25
26													26		.8		1		1		2		1		30	26
27													27		.8		1		1		3		1		25	27
28													28		.8		1.2		1		2		1		20	28
29													29		.8		1.2		1		1		1		30	29
30													30		.8		1.1		1		1		1		25	30
31													31		.8		1.1				1				20	31
Total															25.3		31.1		30.		35		30		949	
Mean															.82		1.00		1.00		1.13		1.00		304	
Sec.-ft. per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet															52		62		60		70		70		1898	
Maximum																										
Minimum																										
Accuracy																										

Gage hts. checked from obs. book ____ Dist. Eng.

Computed by ____ Discharge applied by ____ Gage hts. copied by ____

Checked by ____ Discharge checked by ____ Gage hts. checked by ____

Year period

Runoff at Warners Dam

Estimated from Tabor US Paper #300 and supplying missing data by by Cuyamaca Rainfall.

	1894-5	1896-97	1897-8	1898-99	1899-00
July	50	72	68	74	44
Aug	62	62	62	70	30
Sept	60	72	60	60	36
Oct	70	130	100	62	36
Nov	70	154	140	60	64
Dec.	1898	466	304	74	94
Jan	5744	764	912	282	
Feb	1657	1780	656	422	
Mar	7844	2290	790	496	
Apl	3156	1738	550	206	
May	1334	350	2740	62	
June	248	72	174	88	
	17,200	7956	6556	1956	

(?) Cancell

Cancell

O.K. W.S.P.

Rainfall 130% 109% 59% 54%

[redacted] for month of ..... 191.....

Station No. Discharge San Luis Rey At Warner's Weir

Case & Isell ..... Observer

Nov-1912

Date	[redacted] Gage Height	Comments
1	— 0.20	
2		
3		
4	— 0.18	
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15	10 AM-{auto 0.2 staff 0.18}	Metered - discharge - 2.0 sec.ft. Water in Automatic gage well higher than River - due to Bank seepage at low stage of Water - Case
16		" " " "
17	11 AM. {auto - 0.2 staff 0.18}	Metered - " 1.8 " "
18		
19		
20		
21		
22	2 P.M. {auto 0.21 staff 0.19	
23		
24		
25		
26		
27	9:50 AM. {auto 0.22 staff 0.19	
28		
29		
30	8:50 A.M. {auto 0.21 staff 0.19	
31		

entered W.S.P.

Note as comments: Clear; Cloudy; Trace of Rain, (T); Storm began ..... a. m. or p. m. Storm ended ..... a. m. or p. m. Rainfall may be measured at 7 a. m. and recorded for date preceding day. If measurement covers two or more days, bracket { dates covered.

9–212.

UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

entered ✓

Daily gage height, in feet, of San Luis Rey River at near Pala

....., for 19 ...

Day.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1												5.75
2												5.75
3												5.75
4												5.75
5												5.75
6												5.76
7												5.76
8												
9												
10												
11												
12												
13												
14												
15												
16												
17											5.69	
18											5.69	
19											5.69	
20											5.69	5.73
21											5.69	5.73
22											5.69	5.73
23											5.69	5.73
24											5.67	5.73
25											5.68	5.73
26											5.69	
27											5.72	
28											5.72	
29											5.73	
30											5.73	
31												

9–212.

UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

✓ entered

Daily gage height, in feet, of San Luis Rey River at near Pala

....., for 19 13

Day.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1												
2												
3												
4												
5	5.73											
6	5.73											
7	5.72											
8	5.7											
9	5.7											
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

9–207

UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Discharge measurements San Luis Rey River at near Pala, in 1912

Date	Hydrographer	Width	Area of section	Mean velocity	Gage height	Discharge	rating % error	Method	Coef.	Meas. pts.	G. Ht. change	Meter No.	No.
		Feet	Sq. ft.	Ft. per sec.	Feet.	Sec. ft.				No.	Total		
Jan 21	Ebert.				5.78	8.8							1
Feb 12	"				5.75	7.0							
" 13	"				5.77	7.5							
Mar 7	"				6.52	66.							
" 29	Davis				6.50	48.							
Apl. 2	Ebert.				6.58	64.							
" 4	Davis				7.13	132.							
May 2	Ebert.				6.33	38.							
" 22	"				~~6.83~~ 6.08	~~7.4~~ 18.							
Jun 15	Davis				5.83	7.4							
" 25	E.W. Case.				5.72	5.8							
July 12	Ebert.				5.77	3.3							
Aug 4	Case.				5.71	3.4							
" 17	Ebert.				5.73	2.8							
Sept 10	"				5.67	3.4							
" 11	"				5.67	3.1							
" 12	"				5.68	3.4							
" 14	"				5.68	3.6							
" 15	"				5.66	3.7							
" 16	"				5.66	3.1							
" 17	"				5.67	3.1							
" 18	"				5.68	3.4							
" 20	"				5.60	3.4							
Nov 14	"				5.69	5.2							
Dec. 18	"				5.73	7.7							

2–20–12

9–212.

UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Daily gage height, in feet, of San Luis Rey River at near Bonsal, for 1912

Day.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												1.25
12												1.38
13							Dam	"	"	"	"	1.38
14												1.38
15												1.41
16												1.4
17												1.4
18												1.4
19												1.4
20												1.4
21												1.4
22												1.3
23												1.4
24												1.4
25												1.4
26												1.4
27												1.4
28												1.4
29												1.4
30												1.4
31												1.4

SUMMARY OF STREAM GAGINGS.

July 1st, 1912 to June 30, 1913. ~~June 17~~ July 14, 1913.

SAN LUIS REY WATERSHED.

Run-off in Acre-feet.

Number=--	1	3	5	6	9	10	11	12	13	14	15
Station=-	Warner Dam	Pala U.S. Stn.	Bonsal	Ocean-side	Escondido Ditch	Rincon Ditch	Pala Indian Ditch	Moreno Ditch	S.L.R. Ditch	Libby Ditch	Goldbaum Ditch(a)
Elevation Feet --	2618	550	160	20	1800	900	500	400	70	70	50
Drainage Area Sq.Mi.	210	318	511	568	-	-	-	-	-	-	-
July	109	221	0	0	#	+40	208	+60	0	0	0
August	87	191	0	0		-20	195	-60	0	0	0
Sept	83	203	0	0		0	152	60	0	0	0
October	209	246	0	0		0	190	60	0	0	0
November	117	321	0	0		0	90	60	0	0	0
December	138	512	124	0		0	184	25	0	0	0
1913											
January	443	1099	1442	13						29	
February	2008	1194	2625	1522						39	
March	1758	1400	2432	1064			35			71	
April	744	572	417	12+							
May	252	✓	16	0+							
June	94	✓	12	0+							
Total	6042		7068	2611		(140)					

+ Revised Estimate
# Not yet reported
(a) Total diversion

1.5 3

Stream Measurements on the lower San Luis Rey.

March 27-1913 - Flow of Moon Ditch - 2 sq.ft.
" 28 - " " " " - 32 "
" 29 - " " " " - 30 "
" 30 - " " " " - Ditch began to run.
" 31 - " " " " -

March 28-29-1913 - Discharge of San Luis Rey at Government gaging station, about 4 mi. above Pala Mission - Gage ht. 6.50 - 48 s.f.

March 29 - 11 A.M. Pala Ditch at SLR. 1.33 s.f.
" " 2 P.M. " " " " 1.00 s.f.
" " 12 M. Puma creek highway at SLR 0.7 s.f.
Other small streams showing at SLR below Rincon - — — — —
Stream flowing into SLR at Rincon - estimated - 1.5 s.f.
Above Pala Mission - Gage ht. 6.50 - 48 s.f.

March 30-1913 - Discharge of San Luis Rey at Government gaging station, about 4 mi. above Pala Mission - Gage ht. 6.50 - 48 s.f.

March 31-1913 - Flow of Moon Ditch - 2 sq.ft.
" " " " " - 2 " "
" " " " " - 2 " "
" " " " " - 2 " "
" " " " " - 2 " "
" " " " " - 2 " "
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" " " " " - 2 " "
" " " " " - 2 " "
" " " " " - 2 " "

Please Grande Mesa & Davis
Ditch 4-1912

SUMMARY OF STREAM GAGINGS.

July 1st to Dec. 31st, 1912.

SAN LUIS REY WATERSHED.

In Acre-Feet.

Number - Station-	1 Warner's Dam	2 Rincon	3 Pala U.S. Station	5 Bonsal	6 Oceanside	16 Matagual Cr.	9 Escondido Ditch	Rincon Ditch	Pala Indian Ditch	Moreno Ditch	S.L.R Ditch	Libby Ditch	Goldbaum Ditch
Elevation feet	2618	900	550	160	20	3200	1800	900	500	400	70	70	50
Drainage Area sq.mi	210	268	318	511	568	7	-	-	-	-	-	-	-
July	109	55	221	0	0	51	#	*40	208	*60	0	0	0
August	87	11	191	0	0	24		20	196	60	0	0	0
September	83	26	203	0	0	26		0	152	60	0	0	0
October	209	50	246	0	0	43		0	190	60	0	0	0
November	117	@	321	0	0	47		0	90	60	0	0	0
December	134	@	512	124	0	55		0	184	25	0	0	0

@ Station abandoned.
* Revised Estimate.
# Not yet reported.

----oOo----

STREAM MEASUREMENTS

San Luis Rey River at Warner Dam, Month of September-1912. Hour Mean Gage Height. Daily Mean Discharge

Station No 1.

Day	Time of Reading	Gage Height	Discharge
1	8 AM	.14	1.4
2	"	.12	1.4
3	10 PM	.15	1.5
4	8 AM	.12	1.5
5	"	.12	1.4
6		.12	1.4
7	7 AM	.13	1.4
8	8:30 PM	.15	1.4
9			1.4
10	6 AM		1.4
11			1.4
12			1.4
13			1.4
14			1.4
15			1.4
16	6 AM	.16	1.4
17			1.4
18			1.4
19			1.4
20	5 PM		1.4
21			1.4
22			1.4
23			1.4
24			1.4
25	10:30 AM	.17	1.4
26			1.4
27			1.4
28			1.4
29			1.4
30	9:50	.19	1.4
		.17	1.4
Total			42.2
Mean			1.4
Acre Ft.			83

Ownerships in Moosa Canyon - by Ellis - Sept 1912

V L & W. Co

Sec. 14, T 10 S., R 3 W.

4		(N E ¼	A C Loveland	Bonsall, Calif.
3		(N W ¼	" " "	
8	NE¼	(S E ¼	" " "	
7		(S W ¼	State	
2		(N E ¼	A C Loveland	
1		(N W ¼	Chas Foreman	621 Electric Bldg, Los Angeles.
6	NW¼	(S E ¼	Mrs. Lorenzo, S Marron & Juan Marron	
5		(S W ¼	Mrs Lorenzo, S Marron, Juan Marron,	Oceanside
12		(N E ¼	State	
11		(N W ¼	Mrs Lorenzo, S Marron, & Juan Marron	
16	SE¼	(S E ¼	J M Patten	
15		(S W ¼	J M Patten	
10		(N E ¼	Mrs Lorenzo, S & Juan Marron	
9		(N W ¼	Geo L Frey	Bonsall Calif.
14	SW¼	(S E ¼	Eva Shelenz	
13		(S W ¼	Geo L Frey	

Sec. 21, T 10 S., R 3 W.

20		(N E ¼	Chas Foreman	
19		(N W ¼	" "	
24	NE¼	(S E ¼	Katherine E & H G Root	(Bennington
23		(S W ¼	" " " " " "	(Vermont
18		(N E ¼	Chas Foreman	
17		(N W ¼	" "	
22	NW¼	(S E ¼	Fallbrook Bank & I D Pruett,	Fallbrook Calif.
21		(S W ¼	" " " " " " "	" "
28		(N E ¼	Ida C Watson	
27		(N W ¼	Henry G Root	
32	SE¼	(S E ¼	Ida C Watson	
31		(S W ¼	Almos Serapio	
26		(N E ¼	Thomas K Travers	
25		(N W ¼	Mary A Kolb	
30	SW¼	(S E ¼	Nolia Freeman	Bonsal, Calif.
29		(S W ¼	Mary A Kolb	

Sec. 22, T 10 S., R 3 W.

36		(N E ¼	H A Eastman	338 N Mathew St Los Angeles
35		(N W ¼	" "	
40	NE¼	(S E ¼	John Thompson	1969 Estrella Ave " "
39		(S W ¼	Ida C Watson & Georgia Warrack	
34		(N E ¼	H A Eastman	
33		(N W ¼	Geo L Frey	
38	NW¼	(S E ¼	John Thompson	
37		(S W ¼	Henry G Root	
44		(N E ¼	Susan B Herlihy	San Diego, Cal.
43	SE¼	(N W ¼	John Thompson	
48		(S E ¼	Susan B Herlihy	
47		(S W ¼	" " "	
42		(N E ¼	Ida C Watson & Georgia Warrack	
41		(N W ¼	" " " " " "	
46	SW¼	(S E ¼	Susan B Herlihy	
45		(S W ¼	Ida C Watson & Georgia Warrack	

Sec. 6, T 11 S, R 3 W.

52		(N E ¼	Lot 1	Geotz & Horp	
51		(N W ¼	Lot 2	" " "	85.3 Acres
56	NE¼	(S E ¼		M W Goetz	
55		(S W ¼		O E Chamberlain	
50		(N E ¼	Lot 3	J Sepulveda	41.45 Acres
49		(N W ¼	Lot 4	(a) Mary E & R Swaile	5 A 3805 J St San Diego
				(b) Chas Foreman	15.13 A
				(c) Susie Senberoig	33.02 A
54	NW¼	(S E ¼		O E Chamberlain	
53		(S W ¼	Lot 5	Susie Senberoig	
60		(N E ¼		O E Chamberlain	
59		(N W ¼		" "	
64	SE¼	(S E ¼		Anna M Rennebeck	Vista, San Diego
63		(S W ¼		John Mason	3312 B St. San Diego, Cal.
58		(N E ¼		O E Chamberlain	2112 5th St San Diego, Cal.
57		(N W ¼	lot 6	" "	"
62	SW¼	(S E ¼		Jennie E Jones	
61		(S W ¼	lot 7	O E Chamberlain	

49 (a) Mary E Swaile, Portion lot 4 Sec. 6, T 11 S., R 3 W.

Beginning at stake in N W part of lot 4 (N W ¼ of N W ¼) on W line of Sec. 6. on N Side of San Luis Rey River thence easterly along bank of river 660 ft thence northwesterly by 330 ft., thence southwesterly by 660 ft to a point on W line Sec. 6, thence S 330 ft to beginning, being part of Sec 31, T 10 S, R 3 W. and Sec. 6, T 11 S, R 3 W, containing 5 acres.

49 (b) Chas Foreman, Portion lot 4, Sec. 6, T 11 S., R 3 W.

Beginning 2 chs N of S.W. corner lot 4 thence S 62° E 3.66 ch. Thence following Co Road N 48° E 5 Ch. Th N 42½° E 3 chs thence 52½° E 5 chs. Th. N 43° E 11 chs. Thence 50½° E 80/100 ch to N Line lot 4 & 2.27 chs W of N E Cor Lot 4 Th N 10.20 chs to Southeasterly bank of San Luis Rey River. Thence S64° 12' W 23.33 Chs to W Line of Lot 4 th 6.50 Ch to beginning, part of lot 4 Sec 6. T 11 S, R 3 W, Containing 15.13 Acres.

49 (c) Susie Senberoig, Portion Lot 4, Sec. 6, T 11 S., R 3 W.

(Excepting 5 acres of Swaile and 15.13 acres Foreman containing 33.02 acres)

Chas. Foreman — 621 Electric Bld Los Angeles
x A.C. Loveland — Bonsall, Calif.
Mrs. Lorenza S. Marron — Oceanside Calif
✓ Geo. L. Frey — Bonsall, Calif.
H Schlenz — No Address 1512 - D.W. Darby -
J.M. Patten — no address
x Fallbrook bank — I.D. Pruitt — Fallbrook, Calif.
Kathrine E. Root — ~~Bennington Vermont~~
x John Griffen — Oceanside, Calif.
Vilia Freeman — Bonsall, Calif.
x W.C. Armstrong — Vista San Diego, Co.
x H.A. Eastman — 338 N. Mathew St Los Angeles
x John Thompson — 1969 Estrella ave Los Angeles
x Mrs. H Herlihey — San Diego, Calif
x Mary E. Swaile — 3805 J. St San Diego, Calif.
~~Susie Senberoig~~ 3312 B St San Diego, Calif
✓ John Mason — Vista San Diego, Co
Ana N. Rennebeck — ~~[illegible]~~
O.C. Chamberlain — 2112 5th St. San Diego, Calif.
x P.B. Briley — Fallbrook
+ Myron Pine — Corona, Calif.

T 10 S, R 3 E.

Sec 2 6,	N E 1/4 of S E 1/4	I I Ir win
Sec 2 8,	W 1/2 of S E 1/4	F Loveland
Sec 2 9,	N E 1/4 of N W 1/4	I I Irwin
Sec 3 2,	N W 1/4 of N W 1/4	I I Ir win
Sec 33,	N W 1/4 of N E 1/4 and E 1/2 of N W 1/4	F Loveland and I I Irwin Resp/
Se c 30,	N W 1/4 of N E 1/4	I I Ir win

RUNOFF OF SAN LUIS REY RIVER

As Observed and Restored

Restored Runoffs shown by Star *

Values in Acre Feet

Month 1894-95	Near Mesa Grande	Escondido Diversion	Near Pala
July	30*		
August	30*		
September	30*		
October	246*		
November	119*		
December	1710*		
January	50200*		
February	7070*		
March	6670*		
April	3920*		
May	1510*		
June	386*		
Totals	71981		
1895-96			
July	133*		
August	111*		
September	89*		
October	73*		
November	170*		
December	135*		
January	461*		
February	226*		
March	1070*		
April	580*		
May	91*		
June	90*		
Totals	3229		
1896-97			
July	73*		
August	61*		
September	59*		
October	170*		
November	309*		
December	448*		
January	5300*		
February	10100*		
March	3480*		
April	1810*		
May	737*		
June	238*		
Totals	22785		

RUNOFF OF SAN LUIS REY RIVER, Cont'd.

1897-98	Near Mesa Grande	Escondido Diversion	Near Pala
July	180*		
August	180*		
September	149*		
October	103*		
November	59*		
December	314*		
January	1350*		
February	812*		
March	910*		
April	800*		
May	1590*		
June	96*		
Totals	6543		
1898-99			
July	32*		
August	32*		
September	30*		
October	32*		
November	51*		
December	111*		
January	216*		
February	420*		
March	643*		
April	328*		
May	12*		
June	60*		
Totals	1967		
1899-1900			
July	12*		
August	12*		
September	12*		
October	12*		
November	31*		
December	85*		
January	2390*		
February	167*		
March	282*		
April	825*		
May	286*		
June	95*		
Totals	4209		
1900-01			
July	50*		
August	32*		
September	30*		
October	32*		
November	2460*		
December	520*		
January	752*		
February	13700*		
March	1710*		
April	1210*		
May	1495*		
June	338*		
Totals	22229		

RUNOFF OF SAN LUIS REY RIVER, Cont'd.

NOTE:
b - Taken from U.S.Geological Survey Water Supply Paper No.300 Aud. 311.
c - Incomplete Season

1901-02	Near Mesa Grande	Escondido Diversion	Near Pala
July	111*		
August	91*		
September	83*		
October	85*		
November	119*		
December	121*		
January	675*		
February	1890*		
March	4800*		
April	998*		
May	252*		
June	95*		
Totals	9320		
1902-03			
July	62*		
August	62*		
September	48*		
October	50*		
November	279*		
December	1019*		
January	634*		
February	16000*		
March	3260*		
April	4960*		
May	798*		
June	238*		
Totals	27410		
1903-04			
July	98*		
August	93*		
September	60*		
October	62*		60b
November	36*		83b
December	62*		74b
January	62*		92b
February	269*		115b
March	2047*		2558b
April	594*		2595b
May	184*		996b
June	89*		643b
Totals	3656		7216c

RUNOFF OF SAN LUIS REY RIVER, Cont'd

1904-05	Near Mesa Grande	Escondido Diversion	Near Pala
July	32*		234b
August	32*		123b
September	30*		119b
October	32*		154b
November	24*		143b
December	69*		227b
January	1515*		1174b
February	15700*		8386b
March	30580*	898	20660b
April	3580*	1452	3862b
May	3820*	607	5417b
June	1350*		1369b
Totals	56764	2957	41868
1905-06			
July	168		252b
August	123		184b
September	104		155b
October	131		197b
November	750		1059b
December	446		1125b
January	778	384	1320b
February	2511	1116	1590b
March	47012	242	68900b
April	10343		17900b
May	2921		9720b
June	1670		3900b
Totals	66957	1742	106302
1906-07			
July	214*		1170b
August	123*		633b
September	107*		220b
October	123*	128	184b
November	434*	164	494b
December	2760*	1039	4880b
January	29500*	207	33300b
February	2130*	95	8550b
March	4190*	285	20000b
April	1540*	527	9940b
May	800*	447	3840b
June	297*	427	1360b
Totals	42218	3319	84571
1907-08			
July	123*	55	201b
August	123*		87b
September	103*		132b
October	438*		1730b
November	254*		1650b
December	368*	511	818b
January	3100*	418	3850b
February	11400*	251	10100b
March	2340*	358	3760b
April	1900*	595	1270b
May	572*	517	812b
June	179*		440b
Totals	20900	2705	24850

RUNOFF OF SAN LUIS REY RIVER, Cont'd.

1908-09	Near Mesa Grande	Escondido Diversion	Near Pala
July	105*		184b
August	91*		209b
September	89*		119b
October	111*		215b
November	230*	88	363b
December	244*	342	529b
January	14700*	492	12200b
February	4680*	307	18400b
March	4100*	759	8420b
April	1190*	684	5410b
May	613*	529	1700b
June	237*	287	371b
Totals	26350	3488	48120
1909-10			
July	123*	84	329b
August	123*		315b
September	119*		298b
October	112*		307b
November	1360*		738b
December	8500*		6580b
January	8360*	428	26500b
February	1720*	686	3700b
March	2220*	646	4340b
April	1824*	378	3040b
May	430*	378	614b
June	298*	86	325b
Totals	25189	2686	47086
1910-11			
July	111*		
August	111*		
September	107*		
October	111*		
November	131*		
December	147*	12	
January	4364*	422	3080b
February	6621*	444	10700b
March	3602*	965	11500b
April	1241*	963	4640b
May	301*	406	695b
June	119*		402b
Totals	16966	3212	
1911-12			
July	108		
August	72		
September	101		
October	111		
November	100		
December	168		
January	290	466	
February	212	301	
March	4640	447	
April	4730	335	5200
May	1270	1002	8521
June	228	11	385
Totals	12030	2562	

RUNOFF OF SAN LUIS REY RIVER, Cont'd.

1912-13	Near Mesa Grande	Escondido Diversion	Near Pala
July	109		221
August	87		191
September	83		203
October	209		246
November	117		321
December	138	230	512
January	443	288	1097
February	2008	786	1191
March	1758	1930	1398
April	744	1002	569
May	252	20	333
June	94		269
Totals	6042	4256	6551
1913-14			
July	54		192
August	138		207
September	56		143
October	61		168
November	111		229
December	200	240	400
January	4740	791	5680
February	12600	1123	14000
March	2210	1760	3280
April	1313	791	2500
May	795	870	1020
June	243	208	270
Totals	22521	5783	28089
1914-15			
July	85		163
August	46		66
September	57		83
October	60		
November	77		
December	390		
January			
February			
March			
April			
May			
June			

RUNOFF OF SAN LUIS REY RIVER

As Observed and Restored

Restored Runoffs shown by Star *

Values in Acre Feet

Month 1894-95	Near Mesa Grande	Escondido Diversion	Near Pala
July	30*		
August	30*		
September	30*		
October	246*		
November	119*		
December	1710*		
January	50200*		
February	7070*		
March	6670*		
April	3920*		
May	1510*		
June	386*		
Totals	71981		
1895-96			
July	133*		
August	111*		
September	89*		
October	73*		
November	170*		
December	135*		
January	461*		
February	226*		
March	1070*		
April	580*		
May	91*		
June	90*		
Totals	3229		
1896-97			
July	73*		
August	61*		
September	59*		
October	170*		
November	309*		
December	448*		
January	5300*		
February	10100*		
March	3480*		
April	1810*		
May	737*		
June	238*		
Totals	22785		

RUNOFF OF SAN LUIS REY RIVER, Cont'd.

1897-98	Near Mesa Grande	Escondido Diversion	Near Pala
July	180*		
August	180*		
September	149*		
October	105*		
November	59*		
December	314*		
January	1350*		
February	818*		
March	910*		
April	800*		
May	1590*		
June	96*		
Totals	6543		
1898-99			
July	32*		
August	32*		
September	30*		
October	32*		
November	51*		
December	111*		
January	216*		
February	420*		
March	545*		
April	328*		
May	12*		
June	60*		
Totals	1967		
1899-1900			
July	12*		
August	12*		
September	12*		
October	12*		
November	31*		
December	85*		
January	2390*		
February	167*		
March	282*		
April	825*		
May	286*		
June	95*		
Totals	4209		
1900-01			
July	50*		
August	32*		
September	30*		
October	32*		
November	2460*		
December	520*		
January	752*		
February	15700*		
March	1710*		
April	1210*		
May	1495*		
June	256*		
Totals	22829		

RUNOFF OF SAN LUIS REY RIVER, Cont'd.

NOTE:
b - Taken from U.S.Geological Survey Water Supply Paper No.300 Aud. 311.
c - Incomplete Season

1901-02	Near Mesa Grande	Escondido Diversion	Near Pala
July	111*		
August	91*		
September	85*		
October	85*		
November	119*		
December	121*		
January	675*		
February	1890*		
March	4800*		
April	998*		
May	252*		
June	95*		
Totals	9320		
1902-03			
July	62*		
August	62*		
September	48*		
October	50*		
November	279*		
December	1019*		
January	634*		
February	16000*		
March	3260*		
April	4960*		
May	798*		
June	238*		
Totals	27410		
1903-04			
July	98*		60b
August	93*		85b
September	60*		74b
October	52*		92b
November	36*		115b
December	62*		2558b
January	62*		2595b
February	269*		996b
March	2047*		645b
April	594*		7216c
May	184*		
June	89*		
Totals	3656		

1904-05	Near Mesa Grande	Escondido Diversion	Near Pala
July	32*		284b
August	32*		125b
September	30*		119b
October	32*		154b
November	24*		145b
December	69*		227b
January	1515*		1174b
February	15700*		8386b
March	30580*	898	20660b
April	3580*	1452	3862b
May	3820*	607	5417b
June	1350*		1369b
Totals	55764	2957	41858
1905-06			
July	168		252b
August	123		184b
September	104		155b
October	131		197b
November	750		1059b
December	446		1125b
January	778	384	1320b
February	2511	1116	1590b
March	47012	242	68900b
April	10343		17900b
May	2921		9720b
June	1670		3900b
Totals	66957	1742	106302
1906-07			
July	214*		1170b
August	123*		633b
September	107*		220b
October	123*	128	184b
November	434*	164	494b
December	2760*	1039	4880b
January	29500*	207	33300b
February	2130*	95	8550b
March	4190*	285	20000b
April	1540*	527	9940b
May	800*	447	5840b
June	297*	427	1560b
Totals	42218	3319	84571
1907-08			
July	123*	55	201b
August	123*		87b
September	105*		132b
October	458*		1736b
November	254*		1650b
December	366*	511	818b
January	5100*	418	5850b
February	11400*	251	10100b
March	2340*	358	5760b
April	1900*	595	1270b
May	572*	517	812b
June	179*		440b
Totals	20900	2705	24850

RUNOFF OF SAN LUIS REY RIVER, Cont'd.

1908-09	Near Mesa Grande	Escondido Diversion	Near Pala
July	105*		184b
August	91*		209b
September	89*		119b
October	111*		215b
November	230*	88	365b
December	244*	342	529b
January	14700*	492	18200b
February	4680*	307	18400b
March	4100*	759	8420b
April	1190*	684	5410b
May	615*	529	1700b
June	237*	287	371b
Totals	26350	3488	48120
1909-10			
July	125*	84	329b
August	125*		515b
September	119*		298b
October	112*		307b
November	1360*		758b
December	8500*		6580b
January	8360*	428	26500b
February	1720*	686	3700b
March	2220*	646	4340b
April	1824*	378	3040b
May	430*	378	614b
June	298*	86	325b
Totals	25189	2686	47086
1910-11			
July	111*		
August	111*		
September	107*		
October	111*		
November	121*		
December	147*	12	
January	4364*	422	5080b
February	6621*	444	10700b
March	3602*	965	11500b
April	1241*	963	4640b
May	301*	406	695b
June	119*		402b
Totals	15966	3212	
1911-12			
July	108		
August	72		
September	101		
October	111		
November	100		
December	168		
January	290	466	
February	212	301	
March	4640	447	
April	4730	355	5200
May	1270	1002	2521
June	228	11	385
Totals	12030	2562	

RUNOFF OF SAN LUIS REY RIVER, Cont'd.

1912-13	Near Mesa Grande	Escondido Diversion	Near Pala
July	109		221
August	87		191
September	83		203
October	209		246
November	117		321
December	138	230	512
January	445	288	1097
February	2008	786	1191
March	1758	1930	1398
April	744	1002	569
May	252	20	333
June	94		269
Totals	6042	4256	6551
1913-14			
July	54		192
August	138		207
September	56		143
October	61		168
November	111		229
December	200	240	400
January	4740	791	5680
February	12600	1123	14000
March	2210	1760	3280
April	1313	791	2500
May	795	870	1020
June	243	208	270
Totals	22521	5783	28089
1914-15			
July	85		163
August	46		66
September	57		83
October	60		
November	77		
December	390		
January			
February			
March			
April			
May			
June			

Discharge of San Luis Rey River at Warner Dam-site - 1911.

Day of month	Discharge May	Discharge June	Discharge July	Discharge August	Discharge September	Discharge October at Warner Dam
1		2.4	1.8	1.1	1.3	1.1
2		2.4	1.8	1.1	1.4	1.1
3		2.3	1.8	× 1.1	1.5	1.1
4		2.3	1.8	1.1	1.7	1.1
5		2.2	1.8	× 1.1	1.7	1.3
6		2.2	1.8	1.1	1.7	1.3
7		2.1	1.8	1.1	1.7	1.5
8		2.1	1.8	1.2	1.7	1.1
9		2.0	1.9	× 1.2	1.7	1.1
10		2.0	2.1	1.2	1.7	1.1
11		× 1.9	2.0	× 1.3	1.7	1.1
12		× 1.9	2.0	× 1.3	1.8	1.1
13		2.0	× 2.1	1.2	1.8	1.1
14	× 7.0	2.0	2.4	× 1.2	1.7	1.1
15	× 6.3	2.0	× 2.7	× 1.2	1.7	1.1
16	5.7	2.0	2.8	× 1.1	1.7	1.1
17	5.2	2.0	2.6	× 1.1	1.7	1.1
18	4.8	2.0	2.0	1.1	1.8	1.2
19	4.4	2.0	× 1.9	1.1	1.8	1.3
20	4.1	2.3	× 1.4	× 1.1	1.8	1.3
21	3.8	2.3	× 1.6	× 1.1	1.8	1.1
22	3.5	2.2	1.3	1.1	1.8	1.3
23	3.2	2.2	1.4	× 1.2	1.8	1.3
24	3.0	2.1	× 1.3	1.2	1.8	1.3
25	2.9	2.1	× 1.2	1.2	1.8	1.3
26	2.8	× 2.0	× 1.2	1.2	1.8	1.4
27	2.7	1.9	× 1.4	1.2	1.8	2.0
28	2.6	1.9	× 1.2	1.2	1.8	1.6
29	2.6	1.8	× 1.1	1.2	1.9	1.6
30	2.5	1.8	1.1	1.2	1.9	1.6
31	2.5		× 1.2	1.2		1.6
Total	69.6	62.4	54.3	36.0	51.8	39.4
Mean	3.87	2.08	1.75	1.16	1.73	1.27
Acre ft.	420 +	124	108	72	101	78

× Gaging with floats

Original notes are in Level Book No 14 - inclusive. Discharge estimated May 16 to June 10 2nd. Daily gage readings of Yakim for rest of time. Apr 26 1912.

Current Meter Measurements of San Luis Rey at Warner Weir cont.

Date	Observer	Place of Measurement	Gage Ht	Area	Mean Veloc	Width	Discharge	
3-15-12 9:20-10:00	HLD	Warner Weir	.675	18.2	3.19		58	
3-23-12 8:25-9:15	HLD	" "	.51	12.7	2.29		29	
3-31-12 10 AM	FCE	" "	.65				46	With current meter 86
3-31-12 11 AM	HLD	" "	.64	17.4	2.63		46	With current meter 84
4-1-12 3:15-3:25	HLD	1200' above Warner Weir	.58	15.3	2.12		32	
4-8-12 10:20-11:00	HLD	Warner Weir	.52	12.8	2.27		29	
8-27-12 10:10-11:00	HLD	" "	.61	16.6	2.57		43	
4-4-12 10:25-10:50	HLD	" "	.495	11.4	2.32		26	
4-11-12 1:15-2:15	HLD	Cable at Dam site	2.15	104	4.05	96	420	
4-12-12 2:40-3:40	HLD	" "	2.28	124	4.02	96	498	At flood crest
4-13-12 1:10-2:10	HLD	" "	1.14	53	2.77	88	147	
4-24-12 3:00-3:30	HLD	Warner Weir	.56	15.5	2.08	30	32	

Current Meter Measurements of San Luis Rey at Warner Weir cont.

Date	observer	Place of Measurement	Gage Ht	Area	Mean Veloc	Width	Discharge	
3-15-12 9:20-10:00	HLD	Warner Weir	.675	18.2	3.19		58	
3-23-12 8:25-9:15	HLD	"	.51	12.7	2.29		29	
3-31-12 10 AM	FCE	"	.65				48	with current meter 3.86
3-31-12 11 AM	HLD	"	.64	17.4	2.63		46	with current meter = 3.46
4-1-12 3:15-3:25	HLD	1200' above Warner Weir	.58	15.3	2.12		33	Measurement taken [illegible]
4-3-12 10:30-11:00	HLD	Warner Weir	.82	12.8	2.27		29	
8-27-12 10:45-11:00	HLD	"	.61	16.6	2.57		43	
4-4-12 10:09-10:30	HLD	"	.495	11.4	2.32		26	
4-11-12 1:15-2:15	HLD	Cable at Dam site	2.15	104	4.05	96	420	
4-12-12 2:40-3:40	HLD	"	2.28	124	4.02	96	496	At Flood Crest
4-13-12 1:10-2:10	HLD	"	1.14	53	2.77	88	147	
4-24-12 3:00-3:30	HLD	Warner Weir	.56	15.5	2.08	30	32	

Current Meter Measurements on Lower San Luis Rey River

Date	Observers	Place of Measurement	Gage Ht.	Area	Mean Veloc.	Width	Discharge	Comments
3-29-12 11 AM	HLD WSP	Agua Tibia at rock 30' above old road crossing	.35	1.4	.90		1.3	
3-29-12 Noon	HLD EWC	Paoma Ct. 150' above Highway crossing	1.00	8.8	1.14		10.0	
3-28-12 4 to 5 PM	HLD	At ford at Pala Mission No water in Pala Ditch		24.3	2.64		64	
3-29-12 10 - 10:20	HLD WSP EWC	SLR at U.S. Sta. nr. Pala	6.50	21.2	2.27		48	
4-18-12 2 - 3:45	HLD EWC	Oceanside Bridge 50' upstream	3.00	77	2.15	120	165	
4-19-12 11:25 11-55	HLD EWC	Mission Bridge	55.23	74	226	88	167	
4-19-12 2-55 3-40	HLD EWC	Bonsall Bridge	3.33	78	2.22	125	174	
4-20-12 10:40 11:10	HLD EWC	Ford at mouth of Cañon at Rincon	0.85 down	40	2.20	72	88	
4-20 2:30 - 2:20	HLD EWC	Agua Tibia at rock 30' above old road crossing	.44	2.1	1.24	5.5	2.7	
4-20-12 1:15 - 1:30	HLD EWC	Paoma Ct. 150' above Highway Crossing	1.18	12.3	1.79	18.3	22	Road which forms control at section cut down some since last measurement
4-20-12 2:45 2:15	HLD EWC	U.S. Gaging Sta. nr. Pala	7.13	46	2.84	55	131	
4-20-12 1:10 1:45	HLD EWC	300' above Pala Bridge	3.45	55	2.26	73	126	

Current Meter Measurements on Lower San Luis Rey River

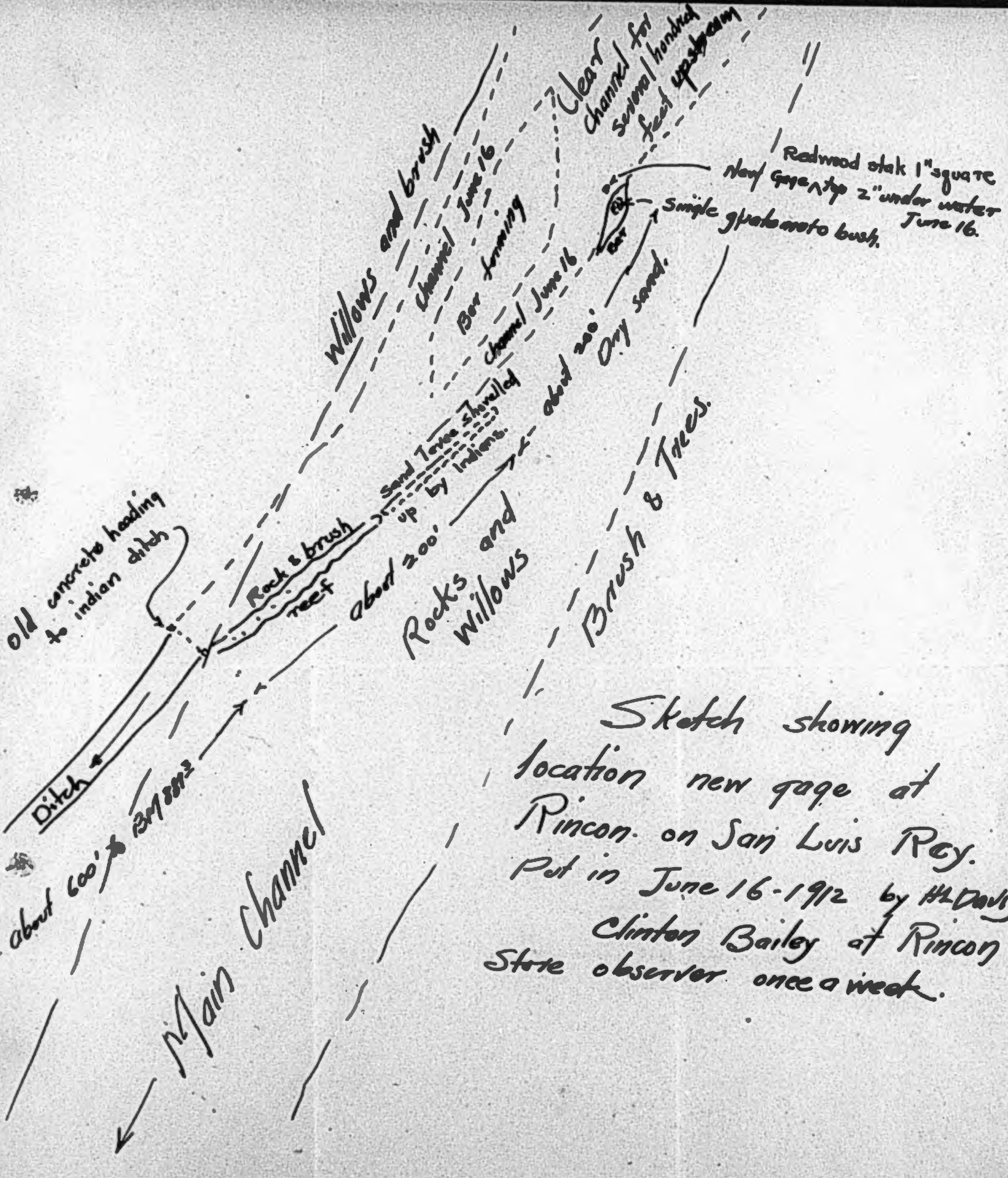
Date	Observers	Place of Measurement	Gage Ht.	Area	Mean Veloc.	Width	Discharge	Comments
3-29-12 11 AM	HLD WSP	Agua Tibia at rock 30' above old road crossing	.35	1.4	.90		1.3	
3-29-12 Noon	HLD EWC	Paoma Cr. 150' above Highway crossing	1.00	.8.8	1.14		10.0	
3-28-12 4to5 P.M.	HLD	At ford at Pala Mission No water in Pala Ditch		24.3	.64		64	
3-29-12 10 - 10:30	HLD WSP EWC	SLR at U.S. Sta. nr. Pala	6.50	212	227		48	
4-18-12 2 - 3.45	HLD EWC	Oceanside Bridge 50' upstream	2.00	77	2.15	120	165	
4-19-12 11 25 11-55	HLD EWC	Mission Bridge	55.23	74	226	88	167	
4-19-12 2-55 3-40	HLD EWC	Bonsall Bridge	3.33	78	2.22	125	174	1155
4-20-12 10:40 11:10	HLD EWC	Ford at mouth of Cañon at Rincon	0.85 down from Top of Stake	40	2.20	72	88	
4-20 2:10 - 2:20	HLD EWC	Agua Tibia at rock 30' above old road crossing	.44	2.1	1.24	5.5	2.7	
4-20-12 1:15 - 1:30	HLD EWC	Paoma Cr. 150' above Highway Crossing	1.18	12.3	1.79	18.3	22	Road which forms control of section is cut down some since last measurement
4-20-12 2:45 3:15	HLD EWC	U.S. Gaging Sta. nr. Pala	7.13	46	2.84	55	131	
4-20-12 4:10 4:45	HLD EWC	300' above Pala Bridge	3.45	55	2.26	73	126	

Current Meter Measurements on Santa Ysabel River

Date	Observer	Place of Measurement	Gage Ht.	Area	Mean Veloc.	Width	Discharge	Comments
2-5-12 Noon	HLD	1000' below Ross Camp	0.30	2.8	1.32		3.7	
2-5-12 11 AM	HLD	50' above Gage - Ross Camp	.30	2.7	1.22		3.3	
2-17-12 1 PM	HLD	50 above gage Ross Camp	.28	2.4	1.22		3.0	
3-8-12 1:30-2:10	HLD	500' below gage Ross Camp	6.05	9.5	1.86		17.7	
4-5-12 1:15-1:45	HLD	500' below gage Ross Camp	.85	16.2	2.54		41	
4-14-12 2:35 3:10	HLD	12' above gage Ross Camp	1.70	64	2.39	62.6	154	
4-14-12 3:30 4:10	HLD	100' above gage Ross Camp	1.715	56	2.74	54	153	
4-15-12 8-10 8:45	HLD	100' above gage Ross Camp	1.675	55	2.54	54.3	141	
4-23-12 10:20 -	HLD EWC	1000' above gage Ross Camp	0.84	27	2.01	37	53	
4-22-12 3:20-3:55	HLD EWC	Gov. Gaging Sta. above San Pasqual	0.18	30	2.08	15.	62	
4-22-12 10:25-10:55	HLD EWC	Bernardo Bridge 15' upstream.	1.92	34	1.95	33.5	66	

Current Meter Measurements on Santa Ysabel River

Date	Observer	Place of Measurement	Gage Ht.	Area	Mean Veloc.	Width	Discharge	Comments
2-5-12 Noon	HLD	1000' below Ross Camp	0.30	2.8	1.32		3.7	
2-5-12 11 AM	HLD	50' above Gage - Ross Camp	.30	2.7	1.22		3.3	
2-17-12 1 PM	HLD	50 above gage Ross Camp	.28	2.4	1.22		3.0	
3-8-12 1:30-2:10	HLD	500' below gage Ross Camp	1.05	9.5	1.86		17.7	
4-5-12 1:15-1:45	HLD	500' below gage Ross Camp	.85	16.2	2.54		41	
4-14-12 2:35 3:10	HLD	12' above gage Ross Camp	1.70	64	2.39	62.6	154	
4-14-12 3:30 4:10	HLD	100' above gage Ross Camp	1.715	56	2.74	54	153	
4-15-12 8-10 8-45	HLD	100' above gage Ross Camp	1.675	55	2.54	54.3	141	
4-23-12 10:20 10-35	HLD EWC	1000' above gage Ross Camp	0.84	27	2.01	37	53	
4-22-12 3:20-3:55	HLD EWC	Gov. Gaging Sta. above San Pasqual	0.18	30	2.08	15	62	
4-22-12 10:25-10:55	HLD EWC	Bernardo Bridge 15' upstream.	1.92	34	1.95	33.5	66	



Sketch showing location new gage at Rincon. on San Luis Rey. Put in June 16-1912 by H.L. Davis. Clinton Bailey at Rincon Store observer once a week.

12000×4000

48000000 : 43569 = 1102 ac

414
-9

1102 × 0.00302

33060
2204

332804 should be reading of setting error of 31.9

3282 : 1102 = 0.00298

1078
-86

1102 × 0.00302

33060
2204

332804

Cont 2630 = 0.057 : 2948 - 19 ac. D.R. 0.111 : 2 = 0.0555 = 18.7 17

Cont 2640 = 0.187 : 00298 = 62 ac D.R. 0.372 : 2 = 0.186 = 62.4 ac 58

Cont 2650 = 0.784 : 00298 = 263 ac D.R. 1.568 : 2 = 0.784 = 263 ac 260

Cont 2660 = 2.644 : 00298 = 887 ac D.R. 5286 : 2 = 2643 = 887 ac 875

Cont 2670 = 4.209 : 00298 = 1412 D.R. 8.413 : 2 = 4206 : 01411 1411

Cont 2680 = 5.434 : 00298 = 1823 D.R. 10867 : 2 = 54335 : 01823 1823

Cont 2690 = 6810 : 00298 = 2285 2285 2300

Cont 2700 = 8875 : 00298 = 2970 2970 ac

Reading per acre on 1000' Scale = 0.00298 Planimeter set at 31.9

Warner Reservoir

determining proportion of dry & Marsh land for Evaporation allowance

Contour. U.S.G.S. Datum	Depth in ft	Acres Flooded Dry	Marsh	Total	Ac feet		
2625	0	0	0	Banks			
2630	10	2	19	19	58	17	58
2640	20	14	48	62	463	58	381
2650	30	105	158	263	2088	260	1871
2660	40	444	443	887	7838	875	7646
2670	50	776	635	1411	19328	1027 (X)	17156
2680	60	1012	811	1823	35498	1822	31400
2690	70	1289	996	2285	56038	2300	52010
2700	80	1634	1336	2970	82313	2960	78310
2710	90			4057	117448	4055	113390
2720	100			5310	164289	5740 X	162360

Above Areas were checked by MS Chung July 24 1914
All contour areas agree fairly well with Drawing Table #347 F 8.30
excepting 2670 and 2720. They were corrected also acre feet on negative
(print made of it. One Blue print was also corrected

July 25th 1914

Barth

Composite Record
of
Daily Rainfall
San Diego Co
~~for~~ 1889 to 1893
Sheet 2

429
F 60

Plaintiff's Proof
Warren Reservoir
from Original Rainfall Book
File B-20

Sheet 20 Figure

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914.

Month	In Reservoir beginning of Month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rain-fall Inches Mean	Rain-fall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of month	Elevation of Water Surface	
Season 1894 - 95.															
July	117000	30	117030	4000	4.32	-	-	4.32	.36	1440	1440	1810	113780	2708	
Aug.	113780	30	117060	3840	3.95	.26	.23	3.72	.31	1190	2630	1810	110810	2707	
Sept.	110810	30	117090	3800	3.93	.16	.14	3.79	.33	1250	3880	1810	107780	2707	Note: Started with 117,000 ac.ft. instead of full reservoir to prevent over-flowing in Jan. 1895.
Oct.	107780	246	117336	3700	2.57	-	-	2.57	.21	770	4650	1810	105446	2706	
Nov.	105446	119	117455	3650	1.69	-	-	1.69	.14	512	5162	1810	103243	2706	
Dec.	103243	1710	119165	3600	2.14	5.64	5.0	-	-	-	5162	1810	103143	2706	
Jan.	103143	50200	169365	3580	1.65	16.04	14.4	-	-	-	5162	1810	151533	2716	
Feb.	151533	7070	176435	4850	1.66	2.40	2.16	-	-	-	5162	1810	156793	2718	
Mar.	156793	6670	183105	5000	1.91	3.10	2.79	-	-	-	5162	1810	161653	2719	
Apr.	161653	3980	187085	5100	2.51	.57	.51	2.00	.17	868	6030	1810	162955	2719	
May	162955	1510	188595	5120	2.83	.60	.54	2.29	.19	975	7005	1810	161680	2718	
June	161680	386	188981	5080	4.16	-	-	4.16	.35	1780	8785	1810	158476	2718	
Totals		71981				28.77		24.54		8785		21720			
Season 1895 - 96.															
July	158476	133	189114	5000	4.32	-	-	4.32	.36	1800	10585	1810	154999	2717	
Aug.	154999	111	189225	4950	3.95	-	-	3.95	.33	1630	12215	1810	151670	2716	
Sept.	151670	89	189314	4800	3.93	.02	.02	3.91	.33	1580	13795	1810	148369	2716	
Oct.	148369	73	189387	4700	2.57	.53	.46	2.11	.18	845	14640	1810	145787	2715	
Nov.	145787	170	189557	4600	1.69	3.59	3.24	-	-	-	14640	1810	144147	2715	
Dec.	144147	135	189692	4580	2.14	.87	.78	1.36	.11	505	15145	1810	141967	2714	
Jan.	141967	461	190153	4580	1.65	3.02	-	-	-	-	15145	1810	140618	2714	
Feb.	140618	226	190379	4500	1.66	.12	.11	1.55	.13	585	15730	1810	138449	2714	
Mar.	138449	1070	191449	4500	1.91	3.99	3.6	0	0	-	15730	1810	137709	2714	
Apr.	137709	580	192029	4480	2.51	.92	.81	1.7	.14	629	16359	1810	135850	2713	
May	135850	91	192120	4400	2.83	.48	.40	2.43	.20	880	17239	1810	133251	2713	
June	133255	90	192210	4300	4.16	0	0	4.16	.345	1480	18719	1810	130051	2712	
Totals		3229				13.54		25.49		9934		21720			

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914

Month	In Reservoir beginning of Month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rain-fall Inches Mean	Rain-fall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of month	Elevation of Water Surface
Season 1896 - 97.														
July	130051	73	192283	4300	4.32	.68	.61	3.71	.31	1330	20049	1810	126984	2711
Aug.	126984	61	192344	4200	3.95	.45	.40	3.55	.29	1230	21279	1810	124005	2711
Sept.	124005	59	192403	4160	3.93	.0	-	3.93	.33	1370	22649	1810	120884	2710
Oct.	120884	170	192573	4000	2.57	2.42	2.18	.39	.03	120	22769	1810	119124	2709
Nov.	119124	309	192882	3980	1.69	1.71	1.54	.15	.01	40	22809	1810	117583	2709
Dec.	117583	448	193330	3950	2.14	2.10	1.89	.25	.02	79	22888	1810	116142	2708
Jan.	116142	5300	198630	3920	1.65	4.52	4.07	-	-	-	22888	1810	119532	2709
Feb.	119532	10100	208730	4000	1.66	6.15	5.55	-	-	-	22888	1810	127922	2711
Mar.	127922	3480	212210	4250	1.91	4.15	3.74	-	-	-	22888	1810	129592	2712
Apr.	129592	1810	214020	4300	2.51	.01	.01	2.50	.21	900	23788	1810	128692	2712
May	128692	737	214757	4270	2.85	.07	.06	2.77	.23	985	24773	1810	125634	2711
June	125634	238	214995	4200	4.16	.0	-	4.16	.35	1470	26243	1810	123592	2710
Totals		22785				22.25		21.41		7524		21720		
Season 1897 - 98														
July	123592	180	215175	4080	4.32	-	-	4.32	.36	1470	27713	1810	120492	2710
Aug.	120492	180	215355	4000	3.95	-	-	3.95	.33	1320	29033	1810	117542	2709
Sept.	117542	149	215504	3900	3.93	.04	.04	3.89	.32	1250	30283	1810	114631	2708
Oct.	114631	103	215607	3850	2.57	2.13	1.90	.67	.06	231	30514	1810	112693	2708
Nov.	112693	59	215666	3800	1.69	.27	.24	1.45	.12	456	30970	1810	110486	2708
Dec.	110486	314	215980	3750	2.14	1.40	1.26	.88	.07	262	31232	1810	108728	2707
Jan.	108728	1350	217330	3700	1.65	4.11	3.70	-	-	-	31232	1810	108268	2707
Feb.	108268	812	218142	3700	1.66	.65	.58	1.08	.09	332	31564	1810	106938	2707
Mar.	106938	910	219052	3650	1.91	2.42	2.18	-	-	-	31564	1810	106038	2706
Apr.	106038	800	219852	3600	2.51	1.11	1.00	1.51	.13	468	32032	1810	104560	2706
May	104560	1590	221442	3600	2.83	1.55	1.39	1.44	.12	432	32464	1810	103908	2706
June	103908	96	221538	3580	4.16	-	-	4.16	.35	1250	33714	1810	100944	2706
Totals		6543				13.68		23.35		7471		21720		

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914.

Month	In Reservoir beginning of Month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rain-fall Inches Mean	Rain-fall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of month	Elevation of Water Surface
Season 1898 - 99.														
July	100944	32	221570	3530	4.32	-	-	4.32	.36	1270	34984	1810	97896	2705
Aug.	97896	32	221602	3400	3.95	.53	.30	3.65	.30	1020	36004	1810	95098	2704
Sept.	95098	30	221632	3300	3.93	-	-	3.93	.33	1090	37094	1810	92228	2704
Oct.	92228	32	221664	3250	2.57	-	-	2.57	.21	685	37779	1810	89765	2703
Nov.	89765	51	221715	3200	1.69	.67	.60	1.09	.09	288	38067	1810	87718	2702
Dec.	87718	111	221826	3300	2.14	1.29	1.15	.99	.08	256	38323	1810	85763	2702
Jan.	85763	216	222042	3180	1.65	3.50	3.16	-	-	-	38323	1810	84169	2702
Feb.	84169	420	222462	3080	1.66	1.20	1.17	.49	.04	123	38446	1810	82656	2702
Mar.	82656	645	223105	3000	1.91	2.65	2.38	-	-	-	38446	1810	81489	2701
Apr.	81489	328	223433	3000	2.51	.24	.22	2.29	.19	570	39016	1810	79437	2700
May	79437	12	223445	2990	2.83	.10	.09	2.74	.23	689	39705	1810	76950	2700
June	76950	60	223505	2900	4.16	1.34	1.20	2.96	.25	725	40430	1810	74475	2699
Totals		1957				11.41		25.05		6716		21720		
Season 1899 - 1900														
July	74475	12	223517	2850	4.32	-		4.32	.36	1020	41450	1810	71657	2698
Aug.	71657	12	223529	2700	3.95	-		3.95	.33	891	42341	1810	68968	2697
Sept.	68968	12	223541	2650	3.93	-		3.93	.33	875	43216	1810	66295	2696
Oct.	66295	12	223553	2600	2.57	1.42	1.28	1.29	.11	286	43502	1810	64211	2696
Nov.	64211	31	223584	2600	1.69	2.05	1.84	-	-	-	43502	1810	62432	2695
Dec.	62432	85	223669	2550	2.14	1.29	1.16	.98	.09	204	43706	1810	60503	2694
Jan.	60503	2390	226059	2500	1.65	4.17	3.76	-	-	-	43706	1810	61083	2695
Feb.	61083	167	226226	2525	1.66	.13	.11	1.55	.13	328	44034	1810	59112	2693
Mar.	59112	282	226508	2460	1.91	.96	.86	1.05	.09	221	44255	1810	57363	2692
Apr.	57363	825	227333	2400	2.51	2.62	2.36	.15	.01	24	44279	1810	56354	2691
May	56354	286	227619	2380	2.83	-	-	2.83	.24	571	44850	1810	54259	2691
June	54259	95	227714	2350	4.16	.04	.04	4.12	.34	800	45650	1810	51744	2690
Totals		4209				12.68		24.17		5220		21720		

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR FARMERS RESERVOIR

Computed July 1914.

Month	In Reservoir beginning of month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rain-fall Inches Mean	Rain-fall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of Month	Elevation of Water Surface
Season 1900 - 1901														
July	51744	50	227764	2200	4.32	.03	.03	4.29	.36	790	46440	1810	49194	2688
Aug.	49194	32	227796	2150	3.95	-	-	3.95	.33	710	47150	1810	46706	2687
Sept.	46706	30	227826	2100	3.93	.07	.06	3.87	.32	670	47820	1810	44256	2686
Oct.	44256	32	227858	2050	2.57	.28	.25	2.35	.19	390	48210	1810	42088	2684
Nov.	42088	2460	230318	1950	1.69	4.85	4.30	-	-	-	48210	1810	42738	2684
Dec.	42738	520	230838	1940	2.14	-	-	2.14	.18	350	48560	1810	41098	2684
Jan.	41098	752	231590	1940	1.65	3.64	3.28	-	-	-	48560	1810	40040	2683
Feb.	40040	13700	245290	1900	1.66	7.81	7.04	-	-	-	48560	1810	51930	2690
Mar.	51930	1710	247000	2200	1.91	1.21	1.09	.82	.07	154	48714	1810	51676	2690
Apr.	51676	1210	248210	2200	2.51	.29	.25	2.25	.19	418	49132	1810	50658	2689
May	50658	1495	249705	2200	2.83	1.63	1.47	1.36	.11	242	49374	1810	50101	2688
June	50101	238	249943	2200	4.16	.01	.01	4.15	.34	749	50123	1810	47780	2687
		22229				19.82		25.18		4473		21720		
Season 1901 - 1902														
July	47780	111	250054	2180	4.32	-	-	4.32	.36	785	50908	1810	45296	2686
Aug.	45296	91	250145	2150	3.95	.02	.02	3.93	.33	710	51618	1810	42867	2684
Sept.	42867	83	250228	1900	3.93	.05	.05	3.88	.32	609	52227	1810	40531	2683
Oct.	40531	85	250313	1800	2.57	.63	.57	2.00	.16	288	52515	1810	38518	2683
Nov.	38518	119	250432	1800	1.69	.61	.55	1.14	.09	157	52672	1810	36670	2682
Dec.	36670	121	250553	1800	2.14	.09	.08	2.06	.17	306	52978	1810	34675	2680
Jan.	34675	675	251228	1800	1.65	3.39	3.04	-	-	-	52978	1810	33540	2679
Feb.	33540	1890	253118	1800	1.66	3.58	3.22	-	-	-	52978	1810	33620	2679
Mar.	33620	4800	257918	1800	1.91	5.00	4.48	-	-	-	52978	1810	35610	2681
Apr.	35610	998	258916	1840	2.51	.87	.78	1.73	.14	259	53236	1810	35540	2681
May	35540	252	259168	1800	2.83	.04	.04	2.79	.23	413	53649	1810	33569	2681
June	33569	95	259263	1790	4.16	.03	.03	4.13	.34	609	54258	1810	31245	2678
		9320				14.31		25.98		4156		21720		

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914.

Month	In Reservoir beginning of month	Run-off Acre feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rainfall Inches Mean	Rainfall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of Month	Elevation of Water Surface
Season 1902 - 1903														
July	31245	62	259325	1700	4.32	.71	.64	3.68	.30	510	54768	1810	28987	2676
Aug.	28987	62	259387	1650	3.95	-	-	3.95	.33	545	55313	1810	26694	2675
Sept.	26694	48	259435	1550	3.93	-	-	3.93	.33	510	55823	1810	24422	2674
Oct.	24422	50	259485	1520	2.57	.36	.32	2.25	.19	288	56111	1810	22374	2673
Nov.	22374	279	259764	-	1.69	2.91	2.62	-	-	-	56111	1810	20843	2671
Dec.	20843	1019	260783	-	2.14	3.77	3.39	-	-	-	56111	1810	20052	2670
Jan.	20052	634	261417	1390	1.65	1.66	1.49	.16	.01	14	56125	1810	18862	2669
Feb.	18862	16000	277417	-	1.66	4.42	3.96	-	-	-	56125	1810	33052	2679
Mar.	33052	3260	280677	-	1.91	3.88	2.95	-	-	-	56125	1810	34502	2680
Apr.	34502	4960	285637	-	2.51	3.64	3.45	-	-	-	56125	1810	37652	2682
May	37652	798	286435	1800	2.83	.23	.21	2.62	.22	396	56521	1810	36244	2681
June	36244	238	286673	1800	4.16	-	-	4.16	.35	630	57151	1810	34042	2680
		27410				21.18		20.75		2893		21720		
Season 1903 - 1904														
July	34042	98	286771	1800	4.32	-	-	4.32	.36	649	57800	1810	31661	2678
Aug.	31661	93	286864	1700	3.95	.03	.03	3.92	.33	561	58361	1810	29403	2677
Sept.	29403	60	286924	1680	3.93	.30	.27	3.66	.30	505	58866	1810	27148	2675
Oct.	27148	62	286986	1650	2.57	.20	.18	2.39	.20	330	59196	1810	25070	2674
Nov.	25070	36	287022	1600	1.69	.01	.01	1.68	.14	224	59420	1810	23072	2673
Dec.	23072	62	287084	1500	2.14	.15	.14	2.00	.17	255	59675	1810	21069	2671
Jan.	21069	62	287146	1450	1.65	.35	.31	1.34	.11	160	59835	1810	19161	2670
Feb.	19161	269	287415	-	1.66	2.78	2.50	-	-	-	59835	1810	17620	2667
Mar.	17620	2047	289462	-	1.91	5.23	4.71	-	-	-	59835	1810	17857	2668
Apr.	17857	594	290056	1300	2.51	.67	.60	1.91	.16	208	60043	1810	16433	2667
May	16433	184	290240	1300	2.83	.37	.33	2.50	.21	273	60316	1810	14554	2666
June	14534	89	290329	1250	4.16	-	-	4.16	.35	438	60754	1810	12375	2663
		3656				10.09		27.88		3603		21720		

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914.

Month	In Reservoir beginning of month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rain-fall Inches Mean	Rain-fall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of Month	Elevation of Water Surface	
Season 1904 - 1905															
July	12375	32	290361	1100	4.32	.01	.01	4.31	.36	396	61150	1810	10201	2661	
Aug.	10201	32	290393	1000	3.95	.12	.11	3.84	.32	320	61470	1810	8103	2658	
Sept.	8103	30	290423	900	3.93	.01	.01	3.92	.32	288	61758	1810	6035	2656	
Oct.	6035	32	290455	600	2.57	.39	.35	2.22	.18	108	61866	1810	4149	2654	
Nov.	4149	24	290479	550	1.69	-	-	1.69	.14	77	61943	1810	2286	2650	
Dec.	2286	69	290548	-	2.14	2.63	2.37	-	-	-	61943	1810	545	2648	
Jan.	545	1515	292063	-	1.65	4.77	4.30	-	-	-	61943	1810	250	2635	
Feb.	250	15700	307763	-	1.66	11.34	10.2	-	-	-	61943	1810	14140	2666	
Mar.	14140	30580	338343	-	1.91	7.94	7.14	-	-	-	61943	1810	42910	2685	
Apr.	42910	3580	341923	2100	2.51	1.09	.98	1.53	.13	273	62216	1810	44407	2686	
May	44407	3820	345743	2150	2.83	3.01	2.70	.13	.01	21	62237	1810	46396	2687	
June	46396	1350	347093	2180	4.16	-	-	4.16	.35	762	62999	1810	45174	2686	
Totals		56754				31.31		21.80		2245		21720			
Season 1905 - 1906															
July	45174	168	347261	2100	4.32	.05	.05	4.27	.36	756	63755	1810	42776	2684	
Aug.	42776	123	347384	2000	3.95	-	-	3.95	.33	660	64415	1810	40429	2684	
Sept.	40429	104	347488	1950	3.93	.46	.41	3.52	.29	566	64981	1810	38157	2683	
Oct.	38157	131	347619	1900	2.57	.19	.17	2.40	.20	380	65361	1810	36098	2681	
Nov.	36098	750	348369	-	1.69	5.59	5.04	-	-	-	65361	1810	35038	2680	
Dec.	35038	446	348815	1800	2.14	1.17	1.05	1.09	.09	162	65523	1810	33512	2679	
Jan.	33512	778	349593	-	1.65	2.54	2.28	-	-	-	65523	1810	32480	2678	
Feb.	32480	2511	352104	-	1.66	4.24	3.82	-	-	-	65523	1810	33181	2678	
Mar.	33181	47012	399116	-	1.91	14.01	12.60	-	-	-	65523	1810	78383	2700	Run-off by actual measurements.
Apr.	78383	10343	409459	2900	2.51	2.15	1.93	.58	.04	116	65639	1810	86800	2702	
May	86800	2221	412380	3200	2.83	1.64	1.47	1.36	.11	352	65991	1810	87559	2703	
June	87559	1670	414050	3210	4.16	.04	.04	4.12	.34	1090	67081	1810	86329	2702	
Totals		66957				32.08		21.29		4082		21720			

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914.

Month	In reservoir beginning of month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rain-fall Inches Mean	Rain-fall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of Month	Elevation of Water Surface
Season 1906 - 1907														
July	86329	214	414264	3200	4.32	.03	.03	4.29	.36	1150	68251	1810	83585	2702
Aug.	83585	123	414387	3100	3.95	.56	.51	3.44	.29	900	69151	1810	80996	2700
Sept.	80996	107	414494	3000	3.93	.57	.33	3.60	.30	900	70051	1810	78393	2700
Oct.	78393	123	414617	2950	2.57	.28	.25	2.32	.19	560	70591	1810	76146	2699
Nov.	76146	434	415051	-	1.69	2.17	1.95	-	-	-	70591	1810	74770	2699
Dec.	74770	2760	417811	-	2.14	6.36	5.82	-	-	-	70591	1810	75720	2699
Jan.	75720	29500	447311	-	1.65	6.51	5.86	-	-	-	70591	1810	103410	2706
Feb.	103410	2130	449441	3600	1.66	1.64	1.48	.18	.01	36	70627	1810	103694	2706
Mar.	103694	4190	453631	-	1.91	4.28	3.86	-	-	-	70627	1810	106074	2707
Apr.	106074	1540	455171	3700	2.51	.56	.51	2.00	.16	592	71219	1810	105212	2707
May	105212	800	455971	3670	2.85	.28	.25	2.58	.21	770	71989	1810	103432	2706
June	103432	297	456268	3640	4.16	.50	.27	3.89	.32	1170	73159	1810	100749	2705
Totals		42218				25.24		22.30		6078		21720		
Season 1907 - 1908														
July	100749	123	456391	3500	4.32	.01	.01	4.31	.36	1260	74419	1810	97802	2704
Aug.	97802	123	456514	3450	3.95	-	-	3.95	.33	1140	75559	1810	94975	2704
Sept.	94975	103	456617	3400	3.93	-	-	3.93	.33	1120	76679	1810	92148	2703
Oct.	92148	438	457055	3300	2.57	3.76	3.38	-	-	-	76679	1810	90776	2703
Nov.	90776	254	457309	3290	1.69	.43	.39	1.30	.11	362	77041	1810	88858	2702
Dec.	88858	368	457677	3200	2.14	.95	.85	1.29	.11	352	77393	1810	87064	2702
Jan.	87064	3100	460777	-	1.65	5.51	4.96	-	-	--	77393	1810	88354	2702
Feb.	88354	11400	472177	-	1.66	5.01	4.50	-	-	-	77393	1810	97944	2705
Mar.	97944	2340	474517	3450	1.91	1.85	1.66	.25	.02	69	77462	1810	98405	2705
Apr.	98405	1900	476417	3480	2.51	1.31	1.18	1.33	.11	382	77844	1810	98113	2705
May	98113	572	476989	3480	2.83	.48	.43	2.40	.20	696	78540	1810	96179	2704
June	96179	179	477168	3420	4.16	-	-	4.16	.35	1190	79730	1810	93358	2703
Totals		20900				19.51		22.92		6571		21720		

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914.

Month	In reservoir beginning of month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rain-fall Inches Mean	Rain-fall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of Month	Elevation of Water Surface
Season 1908 - 1909														
July	93358	105	477273	3350	4.32	-	-	4.32	.36	1206	80936	1810	90447	2703
Aug.	90447	91	477364	3240	3.95	.91	.82	3.13	.26	843	81779	1810	87885	2702
Sept.	87885	89	477453	3200	3.93	.67	.60	3.33	.28	900	82679	1810	85264	2702
Oct.	85264	111	477564	3150	2.57	.66	.59	1.98	.16	504	83183	1810	83061	2701
Nov.	83061	230	477794	3100	1.69	1.01	.91	.78	.06	186	83369	1810	81295	2701
Dec.	81295	244	478038	3050	2.14	1.21	1.09	1.05	.09	274	83643	1810	79455	2700
Jan.	79455	14700	492738	-	1.65	8.23	7.41	-	-	-	83643	1810	92345	2704
Feb.	92345	4640	497378	-	1.66	5.05	4.55	-	-	-	83643	1810	95175	2704
Mar.	95175	4100	501478	-	1.91	4.15	3.73	-	-	-	83643	1810	97465	2705
Apr.	97465	1190	502668	3400	2.51	.08	.07	2.44	.20	680	84323	1810	96165	2705
May	96165	613	503281	3400	2.83	.05	.05	2.78	.23	782	85105	1810	94186	2704
June	94186	237	503518	3375	4.16	-	-	4.16	.35	1180	86285	1810	91433	2703
Totals		26350				22.02		28.97		6555		21720		
Season 1909 - 1910														
July	91433	125	503641	3300	4.32	.25	.22	4.10	.34	1120	87405	1810	88626	2702
Aug.	88626	123	503764	3200	3.95	.86	.77	3.18	.26	830	88235	1810	86109	2702
Sept.	86109	119	503883	3180	3.93	.16	.14	3.79	.31	985	89220	1810	85483	2702
Oct.	83433	112	503995	3140	2.57	-	-	2.57	.21	660	89880	1810	81075	2701
Nov.	81075	1360	505355	-	1.69	3.91	3.51	-	-	-	89880	1810	80625	2701
Dec.	80625	8500	513855	-	2.14	7.28	6.55	-	-	-	89880	1810	87315	2702
Jan.	87315	8360	522215	-	1.65	4.27	3.83	-	-	-	89880	1810	93865	2704
Feb.	93865	1720	523935	3300	1.66	.57	.51	1.15	.09	297	90177	1810	93478	2704
Mar.	93478	2220	526155	-	1.91	2.56	2.30	-	-	-	90177	1810	93868	2704
Apr.	93888	1824	527979	3300	2.51	.42	.38	2.13	.18	594	90771	1810	93308	2704
May	93308	430	528409	3296	3.83	-	-	2.83	.24	790	91561	1810	91138	2703
June	91138	298	528707	3270	4.16	-	-	4.16	.35	1140	92701	1810	88486	2702
Totals		25189				20.28		23.91		6416		21720		

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914.

Month	In reservoir beginning of month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rain-fall Inches Mean	Rain-fall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre feet	Accumulated Evap.	Draft	In reservoir at end of Month	Elevation of Water Surface	
Season 1910 - 1911															
July	88486	111	528818	3220	4.32	.73	.66	3.66	.30	966	93667	1810	85821	2702	
Aug.	85821	111	528929	3100	3.95	.01	.01	3.94	.33	1020	94687	1810	83102	2702	
Sept.	83102	107	529036	3100	3.93	.25	.22	3.71	.31	962	95649	1810	80437	2701	
Oct.	80437	111	529147	3050	2.57	1.15	1.05	1.52	.13	397	96046	1810	78341	2700	
Nov.	78341	131	529278	2970	1.69	1.46	1.31	.38	.03	89	96135	1810	76573	2700	
Dec.	76573	147	529425	2900	2.14	.48	.43	1.71	.14	406	96541	1810	74504	2699	
Jan.	74504	4364	533789	-	1.65	5.77	5.20	-	-	-	96541	1810	77058	2700	
Feb.	77058	6621	540410	-	1.66	6.14	5.52	-	-	-	96541	1810	81869	2701	
Mar.	81869	3602	544012	-	1.91	2.32	2.08	-	-	-	96541	1810	83661	2702	
Apr.	83661	1241	545253	3100	2.51	1.10	.99	1.52	.12	372	96913	1810	82720	2702	
May	82720	301	545554	3050	2.83	.02	.02	2.81	.23	702	97615	1810	80509	2701	
June	80509	119	545673	3000	4.16	-	-	4.16	.35	1050	98665	1810	77768	2700	
Totals		16966				19.45		23.41		5964		21720			
Season 1911 - 1912															
July	77768	108	545781	2900	4.32	.18	.16	4.16	.35	1015	99680	1810	75051	2700	
Aug.	75051	72	545853	2850	3.95	-	-	3.95	.33	940	100620	1810	72373	2698	
Sept.	72373	101	545954	2800	3.93	.33	.30	3.63	.30	840	101460	1810	69824	2697	
Oct.	69824	111	546065	2700	2.57	.29	.26	2.31	.19	514	101974	1810	67611	2696	
Nov.	67611	100	546165	2690	1.69	.13	.12	1.57	.13	350	102324	1810	65551	2695	
Dec.	65551	168	546333	2600	2.14	1.72	1.55	.59	.05	130	102454	1810	63779	2695	Run-off
Jan.	63779	290	546623	2580	1.65	.77	.69	.96	.08	206	102660	1810	62053	2694	actually
Feb.	62053	212	546835	2500	1.66	-	-	1.66	.14	300	102960	1810	60155	2694	measured
Mar.	60155	4640	551475	-	1.91	10.18	9.10	-	-	-	102960	1810	62985	2695	
Apr.	62985	4730	556205	-	2.51	3.52	3.17	-	-	-	102960	1810	65905	2696	
May	65905	1270	557475	2600	2.83	1.43	1.29	1.54	.13	338	103298	1810	65027	2696	
June	65207	228	557703	2590	4.16	.31	.28	3.88	.32	829	104127	1810	62616	2694	
Totals		12030				18.86		24.25		5462		21720			

VOLCAN LAND AND WATER COMPANY

MASS CURVE TABULATIONS FOR WARNERS RESERVOIR

Computed July 1914.

Month	In reservoir beginning of month	Run-off Acre Feet	Accumulated Run-off + 117,000	Area acres flooded	Mean Evaporation Inches	Rainfall Inches Mean	Rainfall Inches 90%	Net Evaporation Inches	Net Evaporation Feet	Evaporation Acre Feet	Accumulated Evap.	Draft	In reservoir at end of Month	Elevation of Water Surface	
Season 1912 - 1913															
July	62616	109	557812	2500	4.32	.19	.17	4.15	.34	850	104977	1810	60065	2694	
Aug.	60065	87	557899	2490	3.95	.39	.35	3.60	.30	749	105726	1810	57593	2692	
Sept.	57593	83	557982	2400	3.93	.02	.02	3.91	.33	791	106517	1810	55075	2691	
Oct.	55075	209	558191	2350	2.57	1.77	1.59	.98	.08	188	106705	1810	53286	2691	Run-off
Nov.	53286	117	558308	2300	1.69	.86	.77	.92	.08	184	106889	1810	51409	2689	actually
Dec.	51409	138	558446	2250	2.14	.05	.05	2.09	.17	383	107272	1810	49354	2688	measured.
Jan.	49354	443	558889	-	1.65	2.57	2.31	-	-	-	107272	1810	47987	2687	
Feb.	47987	2008	560897	-	1.66	5.27	4.74	-	-	-	107272	1810	48185	2687	
Mar.	48185	1758	562655	2180	1.91	1.49	1.34	.57	.05	109	107381	1810	48024	2687	
Apr.	48024	744	563399	2150	2.51	.44	.39	1.12	.09	193	107574	1810	46765	2686	
May	46765	252	563651	2100	2.83	.29	.26	2.57	.21	442	108016	1810	44765	2685	
June	44765	94	563745	2000	4.16	.28	.25	3.91	.32	640	108656	1810	42409	2684	
Totals		6042				13.62		23.82		4529		21720			
Season 1913 - 1914															
July	42409	54	563799	1960	4.32	.21	.19	4.13	.34	666	109522	1810	39987	2683	
Aug.	39987	138	563937	1900	3.95	.96	.86	3.09	.26	494	109816	1810	37821	2681	
Sept.	37821	56	563993	1850	3.93	.06	.07	3.86	.32	593	110409	1810	35474	2680	
Oct.	35474	61	564054	1800	2.57	.13	.12	2.45	.20	360	110769	1810	33365	2679	
Nov.	33365	111	564165	-	1.69	3.03	2.72	-	-	-	110769	1810	31666	2678	
Dec.	31666	200	564365	1700	2.14	1.50	1.35	.79	.07	119	110888	1810	29937	2677	
Jan.	29937	4740	569105	-	1.65	7.06	6.35	-	-	-	110888	1810	32867	2678	Run-off
Feb.	32867	12600	581705	-	1.66	4.89	4.40	-	-	-	110888	1810	45657	2685	actually
Mar.	43657	2210	583915	2080	1.91	1.27	1.14	.77	.06	125	111013	1810	43932	2685	measured.
Apr.	43932	1313	585228	2090	2.51	2.10	1.89	.62	.05	104	111117	1810	43331	2685	
May	43331	795	586023	2060	2.83	.27	.24	2.59	.21	433	111550	1810	41883	2684	
June	41883	243	586266	2000	4.16	-	-	4.16	.35	750	112300	1810	39566	2683	
Totals		22521				21.50		22.46		3644		21720			

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Business Records - Water Companies - Volcan Land and Water Company - San Dieguito System - Warner Dam (Lake Henshaw) and associated projects - Reservoir notes

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