LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

E. C. EATON
CHIEF ENGINEER

RUNOFF REPORT
SEASON 1928-1929

RUNOFF REPORT

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDROGRAPHIC DEPARTMENT

SEASON 1928-1929

RUNOFF REPORT SEASON 1928-1929

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDROGRAPHIC DEPARTMENT.

In April, 1927, Mr. E. C. Eaton, Chief Engineer of the Los Angeles County Flood Control District, created the Hydrographic Department, with Francis H. Hay as Chief Hydrographer, one of the duties of this department being the collection and compilation of stream flow data in Los Angeles County.

Current meters, automatic water stage recorders and other necessary equipment was purchased and locations established for the installation of the stream flow measurement stations. The County Flood Control District received the active co-operation of the United States Geological Survey, Water Resources Branch, Mr. H. D. McGlashan, District Engineer, for California and Mr. F. C. Ebert, Engineer in charge of this District.

Stream flow measurement stations were established in the mountain canyons below the Flood Control dams to measure the discharge from the dams. Installation of gaging stations throughout the county has continued until at the end of the water year 1928-1929, the Flood Control has constructed and is operating twenty-seven (27) stations. Of these stations, thirteen (13) are equipped with au continuous water stage recorders, and the balance of fourteen (14), with the drum or weekly record type of recorder.

The Flood Control District also operates eleven (11) stations in co-operation with the United States Geological Survey, Water Resources Branch, and two stations formerly operated by the Pasadena Water Department.

This makes a total of forty (40) stations equipped with automatic water stage recorders in operation.

Sixty-four (64) staff gages have been installed on various streams and washes where the gage height can be read during storms.

Approximately 1800 stream flow measurements were made at various locations on streams and washes in Los Angeles County by the Flood Control District hydrographers during the 1928-1929 runoff season.

The following automatic recording gaging stations were established during the water year 1928-1929:-

Brown Canyon, at Devonshire Avenue, December 11, 1928.
Verdugo Storm Drain, at Glen Oaks Blvd., Glendale, December 12, 1928.
Walnut Creek, at Covina Boulevard, December 15, 1928.
Los Angeles River, at Van Nuys Blvd., December 19, 1928.
Little Tujunga, at State Highway, December 26, 1928.
Los AngelesRiver, at Willow Street, Long Beach, December 26, 1928.
Pacoima Creek, at Porthenia Avenue, December 26, 1928.
San Jose Creek, at Workman Mill Road, January 1, 1929.
Little Dalton Creek, above mouth of canyon January 7, 1929.
Little Santa Anita, below dam, January 28, 1929.

Hydrographs of storms, station descriptive sheets, lists of measurements, daily gage height and discharge sheets, monthly discharge sheets and measurements of percolation in various streams throughout the county are included in this report.

On the following page will be found a list of stream measurement stations operated by the Hydrographic Department of the Los Angeles County Flood Control District, in Los Angeles County during the water year 1928-1929.

RUNOFF REPORT 1928-1929

ALPHABETICAL INDEX

ALPHABETICAL INDEX

STAFF GAGE STATIONS

RUNOFF 1928-1929

STATION	RUNOFF IN ACRE-FT.
East Fork San Gabriel River, Camp Bonita	17,670.96
West Fork San Gabriel River, Camp Rincon	14,959.46
Combined Flow East and West Forks San Gabriel	32,630.42
San Gabriel River at Edison Intake	36,155.96
San Gabriel River at Mouth of Canyon, USGS Station	35,800
Roger's Creek at USGS Station	459
Fish Creek at USGS Station	1,040
Sawpit Creek at USGS Station (including Monrovia P.L.)	782.20
Big Santa Anita Creek below Dam	1,256.39
Sierra Madre Creek below Dam (Jan.28 to Sept.30)	40.06
Eaton Creek at USGS Station	174
Walnut Creek at Covina Blvd. (Dec.15 to Sept.30)	111.85
San Jose Creek at Workman-Hill Road (Jan.2 to Sept.30)	309.68
San Gabriel River at Whittier Bridge	2,852.20
East San Gabriel River at Spring St. Long Beach	0
Rio Hondo River at Mission Bridge	15,978.90
Rio Hondo River at Stewart and Gray Road	2,461.62
Big Tujunga Creek at USGS Station	4,130
Little Tujunga Creek at State Highway (Dec.26 to Sept.30)	0
Pacoima Creek at USGS Station	876
Pacoima Wash at Parthenia Ave. (Dec.26 to Sept.30)	0
Brown Canyon Wash at Devonshire Ave. (Dec.11 to Sept.30)	0
Los Angeles River at Van Nuys Blvd.(Dec.19 to Sept.30)	720.12
Los Angeles River at Universal City	13,037.30
Verdugo Wash at Glen Oaks Blvd. Glendale	139.77
Upper Sycamore Storm Drain, Glendale, Chevy Chase Drive	77.18
Lower Sycamore Storm Drain, Glendale, Adams Square	252.93
Los Angeles River at Stewart & Gray Road	9,830.95
Compton Creek at Rosecrans Road, Compton	2,265.34
Long Beach Channel at Willow St. Long Beach (Dec.26-Sept.30)	9,339.86
Ballona Creek at Centinela Blvd.	14,904.57
Puddingstone Creek below Dam	30.39
San Antonio Creek, Spreading Diversion	37.45
Big Dalton Creek at USGS Station	36.10
Little Dalton Creek above Mouth of Canyon (Jan.7 to Sept.30)	58.34
San Dimas Creek at USGS Station	787
Live Oak Creek below Dam	0
Monrovia Creek above Sawpit Creek	57.24
Arroyo Seco Creek at USGS Station above Dam	1380

SAN GABRIEL RIVER - EDISON INTAKE

Location:
In SE ¼ Sec. 31, T 2 N. R.9 W.
About 500' above diversion dam and intake of Southern California Edison's conduit, about 8 miles North of Azusa, Los Angeles County, California.
At same location as U.S.G.S. gage washed out by flood of February 1914.

Drainage Area:
201.97 square miles. Elevation is about 1200' above sea level.

Installed by:
U.S.G.S., Water Resources Branch in 1912.

Reestablished:
November 6, 1927 by Los Angeles County Flood Control District.

Records Available:
For 1912 - '14 see page 374, U.S.G.S. Water Supply Paper # 447. For Oct.1, 1927 to Sept.30, 1929 at Los Angeles County Flood Control District offices.

Gage:
Vertical staff gage on wall of concrete stilling well, on west bank of stream. An continuous water stage recorder installed in house on concrete stilling well on west bank of stream.

Discharge Measurements:
High water measurements made from cable car 600' above gage or at cable near gage. Low water measurements are made by wading at gage.

Channel and Control:
Channel - gravel and boulders. Low water flow controlled by boulder dam in stream. Control changed during season 1928-1929. High water flow controlled by diversion dam 500' below gage.

Extremes of Discharge:
Maximum 1928-1929 990 c.f.s. March 10, 1929.
Minimum 1928-1929 3.5 c.f.s. August 13, 1929.

San Gabriel River - Edison Intake, Continued.

Diversions:
None above gage. Southern California Edison Co. diverts up to 85 second-feet at diversion dam and intake, 500' below gage.

Regulation:
None. Small crib-dam constructed on West Fork for contractor's use at San Gabriel damsite, flow retarded, only.

Accuracy:
Good.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S., Water Resources Branch.

SAN GABRIEL RIVER
EDISON INTAKE
STORM OF MARCH 10:11:12
1929

DISCHARGE IN SECOND FEET.

1000
900
800
700
600
500
400
300
200
100

12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12

MID. NOON MARCH 10 MID. NOON MARCH 11 MID. NOON MARCH 12 MID.

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of San Gabriel River

near Edison Intake, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	10-3	Roger P. Dalton	12.2	8.12	1.18	3.84	9.61		.6		11	0	1/3	647
2	10-12	do	28.0	18.8	1.51	4.26	28.36		do		14	0	1/2	do
3	10-19	do	26.0	13.6	.88	3.97	11.91		do		13	0	1/4	do
4	11-2	do	26.0	13.8	.97	3.99	13.32		do		14	0		do
5	11-11	Gilbert Patterson	27.5	14.8	.97	4.02	14.4		do		15	0	1/2	271 640
6	11-12	do	27.5	15.2	.97	4.03	14.7		do		15	0	1/2	271 640
7	11-16	Patterson & Scott	30.7	19.0	1.25	4.24	23.9		do		17	0	1/2	271 640
8	11-24	do do	29.7	17.6	1.11	4.21	19.5		do		16	0	1/2	do
9	11-30	do do	30.2	17.7	1.09	4.23	19.3		do		16	0	1/2	do
10	12-3	do do	56.0	47.8	2.10	4.73	100.4		do		28	.06	3/4	do
11	12-3	do do	56.9	54.1	2.61	4.86	141.3		do		19	.02	1/2	do
12	12-6	do do	30.0	25.9	1.23	4.42	31.8		do		17	0	5/6	do
13	12-8	do do	31.7	22.3	1.28	4.37	28.5		do		12	0	1/3	do
14	12-13	Gilbert Patterson	54.9	52.3	1.89	4.72	98.8		do		19	.01	1/2	do
15	12-13	do	55.2	53.5	1.97	4.77	105.4		do		19	.02	1/2	do
16	12-13	Patterson&Scottt	56.5	54.4	2.31	4.84	125.7		do		19	0	1/2	do
17	12-18	do do	51.6	32.6	1.51	4.54	49.12		do		18	0	1/2	do
18	12-27	do do	32.8	23.3	1.25	4.37	29.2		do		11	0	1/3	do
19	12-28	do do	32.8	23.0	1.33	4.38	30.7		do		12	0	1/3	do
20	1-3	do do	32.8	22.2	1.31	4.38	29.0		do		12	0	1/3	do
21	1-16	do do	52.5	35.8	1.73	4.57	61.8		do		18	.01	1/2	do
22	1-21	Gilbert Patterson	53.6	41.0	1.82	4.63	74.8		do		19	0	1/2	do
23	2-2	Patterson&Lindsey	57.3	67.2	2.92	5.05	196.4		do		19	.01	1/2	do
24	2-2	do do	57.5	68.9	2.84	5.04	196.0		do		16	0	1/2	do
25	2-13	do do	52.0	36.7	1.56	4.53	57.4		do		14	0	1/2	do
26	2-13	do do	52.0	36.2	1.58	4.53	57.1		do		18	0	1/2	do
27	2-18	do do	55.3	45.1	2.06	4.65	92.7		do		15	0	1/2	do

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of San Gabriel River

at Edison Intake, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	2-19	Patterson&Lindsey	53.5	40.4	1.93	4.60	78.0		.6		14	0	1/2	640
29	2-21	do do	52.0	38.8	1.68	4.56	65.3		do		20	0	1/3	do
30	2-28	do do	33.0	38.1	1.70	4.50	51.0		do		12	0	1/2	do
31	3-7	do do	33.0	30.0	1.74	4.48	52.1		do		12	0	1/4	do
32	3-8	do do	51.5	33.0	1.58	4.48	52.2		do		13	0	1/3	do
33	3-10	do & Green	68.0	151.1	5.03	6.02	760		do		15	0	2/3	do
34	3-10	do do	70.0	160.9	5.35	6.13	861.5		do		15	0	1/2	do
35	3-10	do do	71.0	165.8	5.94	6.14	984.5		do		15	0	2/3	do
36	3-10	do do	93.0	135.0	3.83	5.44	517.0		do		13	.06	5/6	262 556
37	3-11	do do	92.5	128.0	3.78	5.33	484.7		do		19	.02	2/3	do
38	3-11	Patterson&Lindsey	57.0	90.51	3.35	5.06	302.91		do		14	0	1/2	do
39	3-12	do do	55.5	80.5	3.15	4.82	253.3		do		15	0	1/2	do
40	3-12	do & Green	55.0	72.4	3.15	4.63	229.0		do		14	0	1/2	do
41	3-13	do & Lindsey	54.5	69.0	2.60	4.68	179.4		do		14	0	1/3	do
42	3-14	do do	54.0	65.3	2.48	4.63	161.8		do		14	0	1/2	do
43	3-15	do do	53.5	59.2	2.34	4.60	138.8		do		14	0	1/3	271 640
44	3-17	do & Green	53.0	55.0	2.22	4.51	121.9		do		14	0	1/2	do
45	3-18	do do	53.0	53.1	2.19	4.49	116.4		do		14	0	1/2	do
46	3-19	do & Lindsey	53.5	54.0	2.08	4.47	112.3		do		14	0	1/3	do
47	3-20	do do	53.0	51.4	2.01	4.43	103.4		do		14	0	1/3	do
48	3-21	do do	53.0	50.9	1.91	4.41	97.7		do		14	0	1/3	do
49	3-22	do & Green	53.5	51.5	2.04	4.41	105.2		do		14	0	1/2	do
50	3-22	do do	53.5	51.5	2.04	4.41	103.0		do		14	0	1/3	do
51	3-24	do do	53.3	51.2	1.97	4.40	100.7		do		14	0	1/2	do
52	3-25	do do	52.5	49.9	1.97	4.37	98.5		do		14	0	1/2	do
53	3-26	do & Lindsey	52.5	48.5	1.65	4.47	79.9		do		14	0	1/2	do
54	3-26	do do	52.5	48.9	1.81	4.48	88.6		do		14	0	1/3	do

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of San Gabriel River

at Edison Intake, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent dif.			No.	Total	Hours	271
55	3-27	Patterson&Lindsey	52.2	46.5	1.85	4.46	86.0		.6		14	0	1/3	640
56	3-28	do do	52.0	46.0	1.72	4.95	79.3		do		14	0	1/2	do
57	3-29	do do	51.9	46.2	1.75	4.45	80.9		do		14	0	1/3	do
58	4-3	do do	51.5	44.7	1.73	4.42	77.5		do		14	0	1/3	do
59	4-4	do do	54.7	65.0	2.50	4.67	162.2		do		14	0	1/2	do
60	4-4	do do	55.6	67.5	2.55	4.76	172.0		do		14	0	1/2	do
61	4-4	do do	57.5	82.5	3.54	5.01	291.4		do		14	0	1/2	262 556
62	4-4	do do	58.5	101.5	4.30	5.23	436.0		do		15	0	1/2	do
62A	4-4	do do	110	200.8	3.82	5.81	768.1		do	.85	23	.04	2/3	271 640
62B	4-4	do & Green	105	177.5	3.70	5.72	657.2		do	.85	21	.02	1/2	do
62C	4-5	do & Meyers	104	175.6	3.64	5.60	640.0		do	.85	21	.03	1/2	do
63	4-5	do & do	60.5	116.0	4.31	5.22	499.9		do		12	.01	1/2	262 556
64	4-5	do & Green	93.0	142.9	3.95	5.19	480.2		do	.85	19	.03	3/4	271 640
65	4-5	do do	59.0	102.1	3.94	5.08	401.7		do		15	.01	1/2	262 556
66	4-6	do do	58.0	93.9	3.52	4.93	330.6		do		15	0	1/2	do
67	4-7	do do	56.0	79.5	2.98	4.83	236.5		do		14	0	1/2	do
68	4-9	do do	54.5	66.5	2.70	4.80	179.8		do		14	0	1/2	do
69	4-10	do & Lindsey	54.5	64.0	2.63	4.75	168.3		do		14	0	1/3	do
70	4-11	do do	54.0	63.1	2.56	4.70	161.5		do		14	0	1/4	do
71	4-12	do do	54.5	63.6	2.53	4.68	160.6		do		14	0	1/3	271 640
72	4-16	do & Green	52.5	59.3	2.20	4.62	130.5		do		14	0	1/3	do
73	4-18	do & Lindsey	54.0	58.3	2.33	4.60	135.9		do		14	0	1/3	do
74	4-23	do & Green	54.5	57.0	2.06	4.56	117.2		do		14	0	1/3	do
75	4-24	do & Lindsey	53.5	53.4	2.16	4.54	115.6		do		14	0	1/3	do
76	4-30	do do	53.0	49.9	1.98	4.57	98.8		do		14	0	1/3	do
77	5-4	do & Green	53.0	49.1	1.91	4.52	93.8		do		14	0	1/2	do
78	5-17	do & Lindsey	52.5	43.4	1.57	4.40	68.3		do		14	0	1/3	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of San Gabriel River

at Edison Intake, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
79	5-24	Patterson&Lindsey	51.0	39.6	1.51	4.35	59.7		.6		14	0	1/3	640
80	5-31	do & Green	47.0	34.1	1.39	4.28	47.3		do		12	0	do	do
81	6-6	do & Lindsey	47.5	32.7	1.45	4.25	47.4		do		12	0	do	do
82	6-15	do	47.5	30.9	1.23	4.16	38.0		do		12	0	do	do
83	6-22	do	47.0	28.4	1.13	4.11	32.0		do		12	0	do	do
84	6-29	do	31.5	30.9	.77	4.04	23.8		do		11	0	do	do
85	7-6	do	32.0	30.2	.74	4.00	22.2		do		12	0	do	do
86	7-12	do	13.5	17.6	1.08	3.99	19.0		do		14	0	do	do
87	8-3	do	20.5	10.7	1.24	3.90	13.3		do		11	0	do	do
88	9-7	do	13.2	15.8	.79	4.54	12.4		do		10	0	do	do
89	9-21	do	13.5	13.2	1.00	4.50	13.2		do		7	0	do	do
90	9-28	do	13.0	13.2	1.01	4.50	13.1		do		7	0	do	do

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for San Gabriel River - Edison Intake

10 a.m
, *from* March 10, 19 29, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Fe	Sec.-ft.	Sec.-ft.
3.71	0		3.91	14.11		4.11	30.65		4.31	54.95		4.51	97.42	
		.70			.81			.95						
.72	.70		.92	14.91		.12	31.60		.32	56.53		.52	100.0	3.10
.73	1.40		.93	15.72		.13	32.55		.33	58.12		.53	103.1	
.74	2.10		.94	16.52		.14	33.50		.34	59.70	1.88	.54	106.2	
.75	2.80		.95	17.33		.15	34.62	1.12	.35	61.58		.55	109.3	
.76	3.50		.96	18.13		.16	35.73		.36	63.47		.56	112.4	
.77	4.20		.97	18.94		.17	36.85		.37	65.35		.57	115.5	3.50
.78	4.90		.98	19.74		.18	37.97		.38	67.23		.58	119.0	
.79	5.60		.99	20.55		.19	39.08		.39	69.12		.59	122.5	
3.80	6.30		4.00	21.36		4.20	40.20	1.20	4.40	71.00	2.25	4.60	126.0	4.07
.81	7.00		.01	22.16		.21	41.40		.41	73.25		.61	130.1	
.82	7.70		.02	22.97		.22	42.60		.42	75.50		.62	134.1	
.83	8.40		.03	23.77		.23	43.80		.43	77.75		.63	138.2	
.84	9.10		.04	24.58		.24	45.00	1.30	.44	80.00		.64	142.3	
.85	9.80		.05	25.38		.25	46.30		.45	82.25		.65	146.3	
.86	10.50		.06	26.19		.26	47.60		.46	84.50	2.58	.66	150.4	4.72
.87	11.20		.07	26.99		.27	48.90		.47	87.08		.67	155.1	
.88	11.90		.08	27.80	.95	.28	50.20	1.58	.48	89.67		.68	159.9	
.89	12.60		.09	28.75		.29	51.78		.49	92.25		.69	164.6	
3.90	13.30	.81	4.10	29.70		4.30	53.37		4.50	94.83		4.70	169.3	5.17

The above table is not applicable for obstructed channel conditions. It is based on 61 discharge measurements made during March 10, 1929 - Sept. 28, 1929

and is fairly well defined between 13 second-feet and 175 second-feet.

Correction curve applied during entire period

Computed by MAR

Checked by LWJ

Date Oct. 30, 1929

F. C. Dist. Form 103—$00—9-28

#2

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for San Gabriel River. Edison Intake
10:30 a.m.
, from March 10 *, 19* 29 *, to* Sept. 30 *, 1929*

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
4.71	174.5	5.17	4.92	292.2	5.675	5.32	519.2	5.675	5.72	746.1	5.675	6.12	973.1	5.675
.72	179.7		.94	303.5		.34	530.5		.74	757.5		.14	984.5	
.73	184.8		.96	314.8		.36	541.9		.76	768.9		.16		
.74	190.0		.98	326.2		.38	553.2		.78	780.2		.18		
.75	195.7	5.675	5.00	337.6		5.40	564.6		5.80	791.5		6.20		
.76	201.3		.02	348.9		.42	575.9		.82	802.9				
.77	207.0		.04	360.2		.44	587.2		.84	814.2				
.78	212.7		.06	371.6		.46	598.6		.86	825.6				
.79	218.4		.08	382.9		.48	610.0		.88	837.0				
4.80	224.0		5.10	394.3		5.50	621.3		5.90	848.3				
.81	229.7		.12	405.7		.52	632.7		.92	859.6				
.82	235.4		.14	417.0		.54	644.0		.94	871.0				
.83	241.1		.16	428.3		.56	655.3		.96	882.3				
.84	246.8		.18	439.7		.58	666.7		.98	893.7				
.85	252.4		5.20	451.1		5.60	678.1		6.00	905.1				
.86	258.1		.22	462.4		.62	689.4		.02	916.4				
.87	263.8		.24	473.8		.64	700.8		.04	727.7				
.88	269.5		.26	485.1		.66	712.1		.06	939.1				
.89	275.1		.28	496.5		.68	723.4		.08	850.5				
4.90	280.8		5.30	507.8		5.70	734.8		6.10	961.8				

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by MAR

Checked by LMJ

Date Oct. 30, 1929

F. C. Dist. Form 103—500—9-28

#1

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for San Gabriel - Edison Intake

10:20 a.m.

, from Oct. 1 *, 19* 28 *, to* March 10 *, 1929*

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
5.60	466.6	6.40	6.00	747.3	7.267									
.62	479.4		.02	761.9										
.64	492.2		.04	776.4										
.66	505.0	6.625	.06	790.9										
.68	518.3		.08	805.5										
5.70	531.5		6.10	820.0										
.72	545.4	6.975												
.74	559.4													
.76	573.6	7.10												
.78	587.8													
5.80	602.													
.82	616.5	7.267												
.84	631.1													
.86	645.6													
.88	660.1													
5.90	674.7													
.92	689.2													
.94	703.7													
.96	718.3													
.98	732.8													

The above table is not applicable for obstructed channel conditions. It is based on 33 discharge measurements made during Oct. 3, 1929 - 10:30 a.m. March 10, 1929

and is well defined between 9 second-feet and 200 second-feet.

Computed by MAR

Checked by GP

Date Oct. 24, 1929

P. C. Dist.—Form 105—500—9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of San Gabriel **River**

At Edison Intake **for the Year Ending September 30, 19** 29

Drainage Area 201.97 **Square Miles.** [Av Continuous Water Stage Recorder **Observer.]**

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Gage Read to Continuous **Day.** **Used rating table dated** October 24, 1929

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1	3.79	6.47	3.98	12.94	4.25	22.26	4.38	29.80	H	63.93	4.50	50.00	1	4.40	71.00	4.50	94.83	4.26	47.60	4.03	23.77	3.90	13.30	3.76	3.50	1
2	3.80	6.81	3.98	12.94	4.27	23.17	4.38	29.80	H	199.68	4.49	48.20	2	4.41	73.25	4.49	92.25	4.26	47.60	4.04	24.58	3.88	11.90	3.76	3.50	2
3	3.82	7.49	3.98	12.94	H	79.28	4.38	29.80	4.88	141.2	4.49	48.20	3	4.43	77.75	4.50	94.83	4.25	46.30	4.03	23.77	3.88	11.90	3.78	4.90	3
4	3.87	9.20	3.99	13.28	4.59	67.95	4.38	29.80	4.76	108.1	4.48	46.40	4	H	82.	4.51	97.42	4.23	43.80	4.01	22.16	3.86	10.50	3.81	7.00	4
5	3.84	8.18	3.99	13.28	4.47	44.60	4.37	29.07	4.69	90.36	4.48	46.40	5	H	97.	4.52	100.0	4.25	46.30	3.99	20.55	3.85	9.80	3.84	9.10	5
6	3.82	7.49	3.99	13.28	4.41	34.22	4.37	29.07	4.64	78.70	4.48	46.40	6	5.01	3.3	4.52	100.0	4.26	47.60	4.02	22.97	3.81	7.00	3.88	11.90	6
7	3.79	6.47	3.99	13.28	4.39	31.15	4.37	29.07	4.64	78.70	4.48	46.40	7	4.83	41.1	4.51	97.42	4.26	47.60	4.02	22.97	3.79	5.60	3.89	12.60	7
8	3.78	6.13	4.00	13.63	4.38	29.80	4.37	29.07	4.62	74.35	4.48	46.40	8	4.76	01.3	4.49	92.25	4.26	47.60	4.00	21.36	3.79	5.60	3.89	12.60	8
9	3.78	6.13	4.00	13.63	4.36	28.35	4.37	29.07	4.60	70.00	4.49	48.20	9	4.74	79.7	4.47	87.08	4.25	46.30	3.99	20.55	3.79	5.60	3.86	10.50	9
10	3.79	6.47	4.01	13.97	4.38	29.80	4.37	29.07	4.58	65.90	H	600.	10	4.72	79.7	4.48	89.67	4.24	45.00	4.01	22.16	3.79	5.60	3.85	9.80	10
11	3.85	8.52	4.02	14.31	4.47	44.60	4.36	28.35	4.57	63.85	H	366.	11	4.6	89.9	4.46	84.50	4.23	43.80	3.99	20.55	3.81	7.00	3.83	8.40	11
12	4.23	21.46	4.03	14.65	4.44	39.37	4.36	28.35	4.54	57.70	H	242.	12	4.6	55.1	4.43	77.75	4.21	41.40	3.98	19.74	3.81	7.00	3.82	7.70	12
13	4.13	18.05	4.19	20.10	H	98.80	4.36	28.35	4.53	55.77	4.74	190.0	13	4.66	50.4	4.41	73.25	4.18	37.97	3. 97	18.94	3.76	3.50	3.80	6.30	13
14	4.08	16.35	H	34.73	4.61	72.17	4.36	28.35	4.52	53.85	4.69	164.6	14	4.6	38.2	4.41	73.25	4.18	37.97	3.94	16.52	3.78	4.90	3.77	4.20	14
15	4.05	15.33	4.33	26.18	4.54	57.70	4.36	28.35	4.50	50.00	4.64	142.3	15	4.5	15.5	4.40	71.00	4.18	37.97	3.93	15.72	3.77	4.20	3. 78	4.90	15
16	4.02	14.31	4.25	22.26	4.49	48.20	4.53	55.77	4.50	50.00	4.62	134.1	16	4.5	2.4	4.38	67.23	4.22	42.60	3.94	16.52	3.77	4.20	3. 76	3.50	16
17	4.00	13.63	4.21	20.78	4.47	44.60	4.49	48.20	4.49	48.20	4.59	122.5	17	4.5	15.0	4.38	67.23	4.22	42.60	3.95	17.33	3.77	4.20	3.78	4.90	17
18	3.99	13.28	4.19	20.10	4.45	41.09	4.44	39.37	4.59	67.95	4.57	115.5	18	4.6	98.2	4.38	67.23	4.21	41.40	3.95	17.33	3.78	4.90	3.92	14.91	18
19	3.97	12.60	4.17	19.42	4.42	35.93	4.47	44.60	4.61	72.18	4.55	109.3	19	4.6	84.1	4.36	63.47	4.16	35.73	3.95	17.33	3.78	4.90	3.94	16.52	19
20	3.97	12.60	4.17	19.42	4.42	35.93	4.62	74.35	4.57	63.85	4.53	103.1	20	4.58	79.0	4.36	63.47	4.15	34.62	3.94	16.52	3.78	4.90	3.90	13.30	20
21	3.98	12.94	4.17	19.42	4.41	34.22	4.63	76.53	4.56	61.80	4.51	97.42	21	4.5	76.2	4.36	63.47	4.13	32.55	3.93	15.72	3.78	4.90	3.90	13.30	21
22	3.98	12.94	4.19	20.10	4.40	32.50	4.58	65.90	4.55	59.75	4.53	103.1	22	4.5	72.4	4.35	61.58	4.10	29.70	3.92	14.91	3.78	4.90	3.91	14.11	22
23	3.97	12.60	4.20	20.44	4.40	32.50	4.55	59.75	4.53	55.77	4.54	106.2	23	4.5	69.0	4.33	58.12	4.11	30.65	3.93	15.72	3.78	4.90	3.91	14.11	23
24	3.97	12.60	4.21	20.78	4.39	31.15	4.54	57.70	4.52	53.85	4.52	100.0	24	4.5	2.4	4.33	58.12	4.10	29.70	3.92	14.91	3.78	4.90	3.90	13.30	24
25	3.98	12.94	4.22	21.12	4.39	31.15	4.49	48.20	4.51	51.92	4.49	92.25	25	4.	3.1	4.32	56.53	4.09	28.75	3. 92	14.91	3.77	4.20	3.90	13.30	25
26	3.98	12.94	4.23	21.46	4.38	29.80	4.49	48 .20	4.51	51.92	4.45	82.25	26	4.	33	4.32	56.53	4.07	26.99	3.92	14.91	3.76	3.50	3.90	13.30	26
27	3.98	12.94	4.24	21.80	4.38	29.80	4.49	48.20	4.50	50.00	4.47	87.08	27	4.	25	4.32	56.53	4.07	26.99	3.94	16.52	3.76	3.50	3.90	13.30	27
28	3.99	13.28	4.24	21.80	4.38	29.80	4.48	46.40	4.50	50.00	4.44	80.00	28	4.	25	4.28	50.20	4.07	26.99	3.95	17.33	3.76	3.50	3.89	12.60	28
29	3.99	13.28	4.23	21.46	4.37	29.07	4.47	44.60	-	-	4.47	87.08	29	4.	25	4.27	48.90	4.03	23.77	3.95	17.33	3.76	3.50	3.88	11.90	29
30	3.99	13.28	4.23	21.46	4.36	28.35	4.47	44.60	-	-	4.47	87.08	30	4.5	42	4.26	47.60	4.05	25.38	3 .94	16.52	3.76	3.50	3.87	11.20	30
31	4.00	13.63	-	-	4.38	29.80	4.47	44.60	-	-	4.43	77.75	31	-	-	4.26	47.60	-	-	3.93	15.72	3.76	3.50	-	-	31
TOTAL,	360.34		554.96		1247.11		1282.34		1989.28		3716.21				00	2259.31		1143.23		575.84		181.30		300.45		PERIOD
Mean Daily Discharge in Second-feet	11.62		18.50		40.23		41.37		71.05		119.88				93	72.87		38.11		18.58		5.85		10.02		YEAR
Second-feet per square mile																										59.17
Run-off, depth in inches																										
Run-off in acre-feet	714.73		1100.76		2473.64		2543.52		3945.74		7371.10				30	4481.34		2267.60		1142.18		359.61		595.94		36,155.96
Maximum Mean Daily Discharge in Second-feet	21.46		34.73		98.80		76.53		199.68		600.					100.00		47.60		24.58		13.30		16.52		
Minimum Mean Daily Discharge in Second-feet	6.13		12.94		22.26		28.35		50.00		46.40				00	47.60		23.77		14.91						

Maximum stage 6.15 feet at 2:00 PM on March 10, 1929
Minimum stage 3.76 feet at Aug. 13 on 1929

Maximum Discharge 990 second-feet.
Minimum Discharge 3.50 second-feet.

	Fourth	Third	Second	First	Quarter	Computed	Checked	Date
	MAR	MAR	MAR	MAR		MAR	MAR	Dec. 11, 1929

	Second	First	Quarter	Disch. applied	Disch. checked	Date
	MAR	MAR		MAR	MAR	October 25, 1929

	Third	Second	First	Quarter	G. H. Copied	G. H. checked	Date
	MAR	MAR	MAR		LWJ	LWJ	Oct. 21, 1929

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Monthly discharge of San Gabriel River

at Edison Intake for the year ending Sept. 30, 1929

(Drainage area 201.97 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	21.46	6.13	11.62			714.73	
November	34.73	12.94	18.50			1100.76	
December	98.80	22.26	40.23			2473.64	
January	76.53	28.35	41.37			2543.52	
February	199.68	50.00	71.05			3945.74	
March	600.	46.40	119.88			7371.10	
April	487	71.00	153.93			9159.80	
May	100	47.60	72.87			4481.34	
June	47.60	23.77	38.11			2267.60	
July	24.58	14.91	18.58			1142.18	
August	13.30	3.50	5.85			359.61	
September	16.52	3.50	10.02			595.94	
The year			50.17			36,155.96	

NOTE:

P 1 WEST FORK SAN GABRIEL RIVER - RINCON P.W.D.

Location:
About one half mile above San Gabriel Canyon Forks on West Fork near Camp Rincon - about 12 miles North of Azusa, Los Angeles County, California.

Drainage Area:
106.23 sq.miles measured on USGS topographic sheets.

Installed by:
Pasadena Water Department.

Records Available:
From Oct 1,1927 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Staff gage installed on south bank of stream at recorder well. Stevens Continuous water stage recorder installed in corrugated iron stilling well.

Discharge Measurements:
Low water flow measured near gage. High water measurements made from cable car located about one quarter mile above the gage.

Channel and Control:
Channel at gage sand, gravel and boulders. Rock banks, no control.

Extremes of Discharge:
Maximum 775 c.f.s. April 4,1929
Minimum Dry at various times during year.

Diversions:
No diversions above gage.

Regulation:
No regulation.

Accuracy:
Fair.

Cooperation:
Operated by Pasadena Water Department previous to Oct.1,1927. Now operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch.

West Fork San Gabriel River
Near Camp Rincon

Hydrograph of Storm
April 4-5, 1929

Discharge in Second-Feet

800
700
600
500
400
300
200
100

12 Mid. 2 4 6 8 10 12 Noon 2 4 6 8 10 12 Mid 2 4 6 8 10 12 Noon 2 4 6 8 10 12 Mid.

April 4, 1929

April 5, 1929

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 1

Discharge measurements of West Fork- San Gabriel River Creek

at= near Camp Rincon, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	10-3	R.P.Dalton	3.6	1.72	1.59	1.45	2.74		.6		7	0	1/9	647
2	10-12	do	10	5.02	1.18	1.76	5.92		do		10	0	1/9	do
3	10-29	do	9.5	3.36	.88	1.53	2.94		do		9	0	1/6	do
4	11-8	do	9.5	3.96	1.05	1.62	4.15		do		9	0	1/9	do
5	11-22	G.Patterson	16.9	12.1	.54	1.70	6.6		do		14	0	1/3	do
6	11-22	Patterson & Scott	21.2	18.6	.30	1.98	5.6		do		11	0	1/4	271 640
	1929													
7	1-21	G.Patterson	32.2	23.9	1.58	2.04	37.7		do		16	0	1/2	do
8	1-31	Patterson & Lindsey	29.5	17.0	1.24	1.84	21.0		do		10	0	1/4	do
9	2-4	do do	34.0	32.8	1.69	2.20	55.5		do		12	0	1/4	do
10	2-18	do do	32.5	23.8	1.74	2.08	41.5		do		11	0	1/4	do
11	2-21	do do	31.8	22.5	1.39	1.99	31.3		do		11	0	1/4	do
12	2-21	do do	31.8	22.3	1.34	1.99	29.8		do		11	0	1/4	do
13	2-28	do do	31.0	20.4	1.21	1.91	24.7		do		11	0	1/4	do
14	2-28	do do	31.0	19.5	1.09	1.91	21.3		do		10	0	1/4	do
15	3-7	do do	30.5	18.9	1.06	1.86	20.1		do		15	0	1/4	do
16	3-13	do do	36.0	41.8	2.36	2.31	99.3		do		12	0	1/4	do
17	4-2	do do	28.0	18.3	1.38	1.76	25.3		do		10	0	1/4	do
18	4-9	do do	38.0	39.8	2.26	2.33	90.0		do		19	0	1/2	do
19	4-24	do do	30.0	23.6	1.61	1.90	38.0		do		10	0	1/3	do
20	5-3	do do	28.0	19.9	1.41	1.77	28.0		do		9	0	1/4	do
21	5-17	do do	26.0	15.8	1.18	1.64	18.7		do		9	0	1/4	do
22	5-24	do do	22.0	14.2	1.15	1.58	16.4		do		11	0	1/4	do
23	5-31	do & Green	23.0	13.0	.97	1.53	12.6		do		12	0	1/3	do
24	6-6	do & Lindsey	23.0	12.8	1.00	1.52	12.8		do		12	0	1/4	do
25	6-13	do do	22.5	12.7	.90	1.48	11.4		do		12	0	1/4	do
26	6-21	do & Green	22.0	10.9	.70	1.42	7.6		do		11	0	1/4	do
27	6-28	do & Lindsey	12.5	12.9	.47	1.27	6.1		do		9	0	1/4	do
28	7-11	do do	8.5	5.5	.85	1.22	4.7		do		7	0	1/6	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 1

Discharge measurements of West Fork San Gabriel River

at
near , during the year ending September 30, 19

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
29	7-19	Patterson & Lindsey	5	3.3	1.03	1.53	3.4		.6		5	0	1/6	640
30	7-25	do do	5	2.8	.79	1.43	2.2		do		5	0	1/6	do
31	8-1	do do	5	3.0	.83	1.47	2.5		do		5	0	1/6	do
32	8-8	do do	5	2.8	.71	1.45	1.9		do		5	0	1/6	do
33	8-16	do do	5	2.8	.82	1.49	2.3		do		5	0	1/6	do
34	8-22	do	4	2.4	.83	1.48	2.0		do		4	0	1/4	do
35	8-30	do do	5	2.9	.55	1.54	1.60		do		5	0	1/6	do
36	9-5	do do	4.8	2.7	.82	1.58	2.2		do		5	0	1/6	do
37	9-12	do & Green	4.7	2.4	.63	1.47	1.5		do		5	0	1/6	do
38	1928 12-3	do & Scott	36.2	35.2	2.77	2.41	97.5		do		19	.01	1/3	do
39	12-8	do do	28	14.8	.89	1.69	13.2		do		14	0	1/3	do
40	12-13	do do	35.5	31.8	2.23	2.31	70.9		do		18	.01	1/4	do
41	12-27	do	29.2	13.7	.98	1.73	13.4		do		10	0	1/3	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P1

Rating table for West Fork- San Gabriel River

Camp Rincon, *from* Oct. 1, 1928, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
1.30	0		1.70	18.3		2.10	52.1		2.50	146.5		3.50	446	
		0			.65			1.45			2.99			2.99
.32	0		.72	19.6		.12	55.0		.55	161		.55	461	
		.40												
.34	80		.74	20.9		.14	57.9		2.60	176		3.60	476	
.36	1.60		.76	22.2		.16	60.8		.65	191		.65	491	
.38	2.40		.78	23.5		.18	63.7		2.70	206		3.70	506	
1.40	3.20		1.80	24.8		2.20	66.6		.75	221		.75	521	
		.46			.75			2.14						
.42	4.12		.82	26.3		.22	70.9		2.80	236		3.80	536	
.44	5.04		.84	27.8		.24	75.2		.85	251		.85	551	
.46	5.96		.86	29.3		.26	79.4		2.90	266		3.90	566	
.48	6.88		.88	30.8		.28	83.7		.95	281		.95	581	
1.50	7.80		1.90	32.3		2.30	88.00		3.00	296		4.00	596	
		.49			.91			2.90						
.52	8.78		.92	34.1		.32	93.8		.05	311		.05	611	
.54	9.76		.94	35.9		.34	99.6		3.10	326		4.10	626	
.56	10.74		.96	37.8		.36	105		.15	341		.15	641	
.58	11.72		.98	39.6		.38	111		3.20	356		4.20	655	
1.00	12.70	.56	2.00	41.4	1.07	2.40	117.0	2.95	.25	371		.25	670	
.62	13.82		.02	43.5		.42	125		3.30	386		4.30	685	
.64	14.94		.04	45.7		.44	129		.35	401		.40	715	
.66	16.06		.06	47.8		.46	135		3.40	416		4.50	745	
.68	17.18		.08	50.0		.48	141		.45	431		.60	775	

The above table is not applicable for obstructed channel conditions. It is based on 37 discharge measurements made during Oct. 3, 1928- Sept.12, 1929

and is fairly well defined between 0 second-feet and 100 second-feet.

Computed by MAR

Checked by LWJ-10/16/29

Date Oct. 10, 1929

F. C. Dist.-Form 105--500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P1

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of West Fork- San Gabriel River

At Camp Rincon P.W.D. **for the Year Ending September 30, 1929**

Drainage Area 103.8 **Square Miles.** [Stevens Continuous Water Stage Recorder **Observer.**]

Gage Read to Continuous **a Day.** **Used rating table dated** Oct. 10, 1929

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1	1.38	2.40	1.44	5.04	1.52	8.78	1.49	7.34	1.88	30.80	1.77	22.85	1	1.81	25.55	1.87	30.05	I	12.63	I	5.78	1.38	2.40	1.33	.40	1
2	1.36	1.60	1.43	4.58	1.56	10.74	1.50	7.80	2.45	131.95	1.76	22.20	2	1.80	24.80	1.85	28.55	I	12.67	I	5.67	1.40	3.20	1.33	.40	2
3	1.37	2.00	1.42	4.12	1.79	24.15	1.51	8.29	2.24	75.20	1.75	21.55	3	1.81	25.55	1.84	27.80	I	12.70	I	5.56	1.40	3.20	1.35	1.20	3
4	1.37	2.00	1.44	5.04	1.49	7.34	1.50	7.80	2.14	57.90	1.75	21.55	4	H	363.93	1.83	27.05	I	12.74	I	5.45	1.40	3.20	1.35	1.20	4
5	1.33	.40	1.43	4.58	1.35	1.20	1.51	8.29	2.07	48.87	1.74	20.90	5	H	415.08	1.82	26.30	I	12.77	I	5.35	1.40	3.20	1.37	2.00	5
6	1.30	Dry	1.42	4.12	1.31	Dry	1.53	9.27	2.05	46.77	1.73	20.25	6	2.73	214.97	1.82	26.30		12.80	I	5.24	1.39	2.80	1.41	3.66	6
7	1.27	"	1.43	4.58	1.30	"	1.52	8.78	2.02	43.50	1.73	20.25	7	2.48	141.0	1.81	25.55	I	12.60	I	5.13	1.39	2.80	1.43	4.58	7
8	1.24	"	1.44	5.04	1.29	"	1.53	9.27	1.97	38.71	1.76	22.2	8	2.36	105.00	1.79	24.15	I	12.40	I	5.02	1.39	2.80	1.43	4.58	8
9	1.20	"	1.45	5.50	1.27	"	1.54	9.76	1.95	36.81	1.80	24.8	9	2.29	85.84	1.78	23.50	I	12.20	I	4.92	1.38	2.40	1.43	4.58	9
10	1.18	"	1.44	5.04	1.31	"	1.54	9.76	1.93	35.01	H	421.5	10	2.25	77.34	1.76	22.20	I	12.00	I	4.81	1.37	2.00	1.42	4.12	10
11	1.18	"	1.45	5.50	1.40	3.20	1.55	10.25	1.91	33.21	2.75	221.0	11	2.21	68.74	1.74	20.90	I	11.80		4.70	1.39	2.80	1.44	5.04	11
12	1.40	3.20	1.47	6.42	1.38	2.40	1.56	10.74	1.88	30.80	2.43	126	12	2.17	62.25	1.73	20.25	I	11.60	I	4.54	1.37	2.00	1.45	5.50	12
13	1.36	1.60	1.62	13.82	1.86	29.30	1.55	10.25	1.86	29.30	2.34	99.6	13	2.13	56.45	1.71	18.95		11.40	I	4.38	1.37	2.00	1.44	5.04	13
14	1.38	2.40	H	23.96	1.65	15.50	1.56	10.74	1.85	28.55	2.23	73.0	14	2.11	53.55	1.70	18.30	I	10.93	I	4.21	1.35	1.20	1.44	5.04	14
15	1.39	2.80	1.75	21.55	1.54	9.76	1.57	11.23	1.84	27.80	2.18	63.7	15	2.09	51.07	1.70	18.30	I	10.45	I	4.05	1.35	1.20	1.43	4.58	15
16	1.38	2.40	1.63	14.38	1.49	7.34	1.79	24.15	1.82	26.30	2.12	55.00	16	2.05	46.77	1.69	17.74	I	9.97	I	3.89	1.34	.80	1.44	5.04	16
17	1.39	2.80	1.58	11.72	1.47	6.42	1.71	18.95	1.81	25.55	2.07	48.87	17	2.04	45.70	1.69	17.74	I	9.50	I	3.73	1.33	.40	1.46	5.96	17
18	1.40	3.20	1.54	9.76	1.45	5.50	1.67	16.62	1.95	36.81	2.05	46.77	18	2.01	42.47	1.68	17.18	I	9.03	I	3.56	1.33	.40	1.53	9.27	18
19	1.42	4.12	1.51	8.29	1.45	5.50	1.72	19.60	1.96	37.80	2.01	42.47	19	2.03	44.57	1.68	17.18	I	8.55	1.38	2.40	1.32	Dry	1.52	8.78	19
20	1.41	3.66	1.50	7.80	1.45	5.50	1.94	35.90	1.90	32.30	1.98	39.60	20	2.00	41.40	1.67	16.62	I	8.07	1.38	2.40	1.31	Dry	1.52	8.78	20
21	1.43	4.58	1.49	7.34	1.45	5.50	1.99	40.51	1.88	30.80	1.95	36.81	21	1.99	40.51	1.67	16.62		7.60	1.38	2.40	1.32	Dry	1.52	8.78	21
22	1.42	4.12	1.46	5.96	1.44	5.04	1.91	33.21	1.86	29.30	1.93	35.01	22	1.98	39.60	1.68	17.18	I	7.38	1.39	2.80	1.35	1.20	1.50	7.80	22
23	1.43	4.58	1.46	5.96	1.46	5.96	1.86	29.30	1.84	27.80	1.95	36.81	23	1.97	38.71	1.66	16.06	I	7.17	1.39	2.80	1.35	1.20	1.49	7.34	23
24	1.43	4.58	1.47	6.42	1.46	5.96	1.81	25.55	1.82	26.30	1.93	35.01	24	1.97	38.71	1.65	15.50	I	6.96	1.40	3.20	1.36	1.60	1.49	7.34	24
25	1.43	4.58	1.48	6.88	1.47	6.42	1.80	24.80	1.81	25.55	1.92	34.01	25	1.95	36.81	1.64	14.94	I	6.74	1.41	3.66	1.35	1.20	1.49	7.34	25
26	1.44	5.04	1.48	6.88	1.46	5.96	1.78	23.50	1.80	24.80	1.90	32.30	26	1.95	36.81	1.65	15.50	I	6.53	1.41	3.66	1.34	.80	1.48	6.88	26
27	1.45	5.50	1.49	7.34	1.47	6.42	1.76	22.20	1.78	23.50	1.88	30.80	27	1.95	36.81	1.65	15.50	I	6.31	1.41	3.66	1.33	.40	1.48	6.88	27
28	1.43	4.58	1.50	7.80	1.48	6.88	1.76	22.20	1.77	22.85	1.86	29.30	28	1.94	35.90	1.63	14.38		6.10	1.41	3.66	1.33	.40	1.48	6.88	28
29	1.41	3.66	1.51	8.29	1.48	6.88	1.76	22.20	--	---	1.84	27.80	29	1.92	34.10	1.63	13.82	I	5.99	1.41	3.66	1.35	1.20	1.48	6.88	29
30	1.42	4.12	1.52	8.78	1.49	7.34	1.75	21.55	--	---	1.83	27.05	30	1.90	32.30	1.61	13.26	I	5.88	1.41	3.66	1.34	.80	1.48	6.88	30
31	1.44	5.04	--	---	1.49	7.34	1.75	21.55	--	---	1.82	26.30	31	-	--	1.61	13.26			1.39	2.80	1.34	.80	1.47	6.42	31
TOTAL,	84.96		242.49		212.33		541.36		1064.84		1785.26			2362.29		610.63		293.47		126.75		48.40		169.17		7541.95
Mean Daily Discharge in Second-feet	2.74		8.08		6.85		17.46		38.03		57.59			78.74		19.70		9.78		4.09		1.56		5.46		
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet	168.52		480.98		421.16		1073.79		2112.11		3541.06			4685.60		1211.18		582.10		251.41		96.00		335.55		14959.46
Maximum Mean Daily Discharge in Second-feet	5.50		23.96		29.30		40.51		131.95		421.5			415.08		30.05		12.80		5.78		3.20		9.27		
Minimum Mean Daily Discharge in Second-feet	Dry		4.12		Dry		7.34		22.85		20.25			24.80		13.26		5.88		2.40		Dry		.40		

Maximum stage 4.60 feet at 4:00PM on April 4, 29 Discharge 775 second-feet.

Minimum stage Dry feet at Various on Times during year Discharge second-feet.

	Fourth	Third	Second	First	Quarter	Computed	Checked	Date
	MAR	MAR	MAR	MAR	MAR	MAR		Oct. 18, 1929
	Fourth	Third	Second	First	Quarter	Disch. applied	Disch. checked	Date
	MAR	MAR	LWJ	LWJ	MAR	LWJ	LWJ	Oct. 14, 1929
	Fourth	Third	Second	First	Quarter	G. H. Copied	G. H. checked	Date
	MAR	MAR	LWJ	LWJ	MAR	LWJ	LWJ	Oct. 14, 1929

PERIOD YEAR

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 1

Monthly discharge of West Fork - San Gabriel River

at Camp Rincon P.W.D. for the year ending Sept. 30, 19 29.

(Drainage area 103.8 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	5.50	Dry	2.74			168.52	
November	24.0	4.12	8.08			480.98	
December	29.3	Dry	6.85			421.16	
January	40.5	7.34	17.5			1073.79	
February	131.9	22.85	38.0			2112.11	
March	421.5	20.25	57.59			3541.06	
April	415.08	24.80	78.74			4685.60	
May	30.05	13.26	19.70			1211.18	
June	12.80	5.88	9.78			582.10	
July	5.78	2.40	4.09			251.41	
August	3.20	Dry	1.56			96.00	
September	9.27	.40	5.46			335.55	
The year						14959.46	

NOTE:

P 2. EAST FORK SAN GABRIEL RIVER - CAMP BONITA P.W.D.

Location:
At Camp Bonita on East Fork San Gabriel River about 500 feet above junction of Cattle Canyon and the East Fork. Four miles above the San Gabriel Forks. Sixteen miles northeast of Azusa, Los Angeles County, Calif.

Drainage Area:
60.33 square miles measured on USGS topographic sheets.

Installed by:
Pasadena Water Department.

Records available:
From Oct.1,1927 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Staff gage installed on east bank of stream at recorder. Stevens Continuous Water Stage Recorder installed in corrugated iron stilling well.

Discharge Measurements:
Low water measurements made near the gage. High water measurements made from cable car located about 50' below recorder.

Channel and Control:
Channel at gage sand, gravel and boulders. Rock banks, no control.

Extremes of Discharge:
Maximum 448 c.f.s. March 10,1929
Minimum 4.6[illegible] on Oct.7 to 10,1929

Diversions:
No diversions above the gage.

Regulation:
None.

Accuracy:
Poor due to lack of control and backwater effects from Cattle Canyon during high flows.

Cooperation:
Operation by Pasadena Water Department previous to Oct.1,1927. Now operated by Los Angeles County Flood Control District in cooperation with Pasadena Water Department and U.S.G.S. Water Resources Branch.

East Fork - San Gabriel River
Near Camp Bonita

Hydrograph of Storm
March 10, 1929

Discharge in Second-Feet

450
400
350
300
250
200
150
100
50

12 Mid 1 2 3 4 5 6 7 8 9 10 11 12 Noon 1 2 3 4 5 6 7 8 9 10 11 12 Mid

F. C. Dist.—Form 104—500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 2

Discharge measurements of East Fork San Gabriel River

at Camp Bonita, Pasadena Recorder Stat during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	10-3	Roger P. Dalton	11.5	5.77	1.26	2.18	7.29		.6		11	0	1/4	647
2	10-12	do	12.5	7.70	1.44	2.30	11.08		do		12	0	1/6	do
3	10-19	do	11.5	6.30	1.27	2.23	8.02		do		11	0	1/2	do
4	11-2	do	12.0	6.38	1.45	2.22	9.25		do		11	0	1/4	do
	1929													271
5	2-21	Patterson&Lindsey	24.6	18.4	1.32	2.51	24.3		do		12	0	1/2	640
6	2-28	do do	22	17.8	1.22	2.50	21.7		do		11	0	1/4	do
7	3-7	do do	22.9	18.2	1.39	2.51	25.2		do		12	0	1/4	do
														262
8	3-14	do do	23.0	26.7	2.16	2.76	57.6		do		8	0	1/4	556
														271
9	3-29	do do	22.5	19.8	1.95	2.60	38.4		do		12	0	1/3	640
10	4-26	do do	24	24.3	2.41	2.77	58.6		do		9	0	1/4	do
11	6-7	do do	21.5	18.6	1.42	2.52	26.5		do		11	0	1/4	do
12	6-27	do do	20.5	15.5	1.15	2.39	17.8		do		11	0	1/4	do
13	7-26	do do	20.0	14.0	.88	2.29	12.3		do		10	.01	1/4	do
14	8-2	Richard Lindsey	19.5	13.2	.91	2.29	12.0		do		11	0	1/4	do
15	8-9	do	19.5	11.8	.82	2.27	9.7		do		10	0	1/4	do
16	8-16	do	19.5	11.0	.83	2.26	9.1		do		10	0	1/4	do
17	8-23	Patterson&Lindsey	20.0	11.1	.80	2.26	8.9		do		10	0	1/4	do
18	8-29	do do	17	9.3	.82	2.22	7.6		do		9	0	1/4	do
19	9-5	do do	16.5	9.9	.94	2.24	9.3		do		9	0	1/4	do
20	9-12	do & Green	16	9.2	.92	2.24	8.5		do		8	0	1/4	do
	1928 12-8	do & Scott	17.5	18.6	.55	2.30	10.2		do		10	0	1/4	do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P2

Rating table for EAST FORK-SAN GABRIEL RIVER

CAMP BONITA, *from* Oct. 1, 1928, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
2.07	0		2.27	11.12		2.47	21.85		2.67	45.12		3.04	1.03	
.08			.28	11.66	.5366	.48	22.39	.5366	.68	46.48	1.36	.06	1.06	1.74
.09			.29	12.20	"	.49	22.93	"	.69	47.84	"	.08	110	"
2.10	2.00		2.30	12.73	"	2.50	23.46	"	2.70	49.20	"	3.10	113.40	
.11	2.54	.5366	.31	13.27	"	.51	24.00	"	.72	52.12	1.46	.12	117	1.88
.12	3.07		.32	13.80	"	.52	25.25	1.25	.74	55.04	"	.14	121	"
.13	3.61		.33	14.34	"	.53	26.50	"	.76	57.96	"	.16	125	"
.14	4.15		.34	14.88	"	.54	27.75	"	.78	60.88	"	.18	128	"
.15	4.68		.35	15.41	"	2.55	29.00	"	2.80	63.80	"	3.20	132.20	"
.16	5.22		.36	15.95	"	.56	30.32	1.32	.86	66.92	1.56	.22	136	2.02
.17	5.76		.37	16.49	"	.57	31.64	"	.84	70.04	"	.24	140	"
.18	6.29		.38	17.02	"	.58	32.96	"	.86	73.15	"	.26	144	"
.19	6.83		.39	17.56	"	.59	34.28	"	.88	76.28	"	.28	148	"
2.20	7.37		2.40	18.10	"	2.60	35.60	"	2.90	79.40	"	3.30	152.40	"
.21	7.90		.41	18.63	"	.61	36.96	1.36	.92	82.72	1.66	.32	157	2.16
.22	8.44		.42	19.17	"	.62	38.32	"	.94	86.04		.34	161	"
.23	8.98		.43	19.71	"	.63	39.68	"	.96	89.36		.36	165	"
.24	9.51		.44	20.24	"	.64	41.04	"	.98	92.68		.38	170	"
.25	10.05		.45	20.78	"	2.65	42.40	"	3.00	96.00	1.74	3.40	174.00	"
.26	10.59		.46	21.32	"	.66	43.76	1.36	.02	99.48		.42	179	2.30

The above table is not applicable for obstructed channel conditions. It is based on 20 discharge measurements made during October 3, 1928 - Sept. 12, 1929.

and is fairly well defined between 0 second-feet and 60 second-feet.

curve extended by using 1927-28 curve.

Computed by MAR

Checked by JWJ

Date Oct. 15, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P2

Rating table for EAST FORK - SAN GABRIEL RIVER

CAMP BONITA, *from* OCT. 1, 1928, *to* SEPT. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
3.44	183		3.84	288		4.24	418							
		2.30			3.00			3.60						
.46	188	"	.86	294	"	.26	426	"						
.48	192	"	.88	300	"	.28	433	"						
3.50	197.0		3.90	306		4.30	440							
		2.50			3.10			3.80						
.52	202	"	.92	312	"	.32	448	"						
.54	207	"	.94	318	"	.34	445	"						
.56	212	"	.96	325	"	.36	463	"						
.58	217	"	.98	331	"	.38	470	"						
3.60	222		4.00	337		4.40	478	"						
		2.60			3.30			3.90						
.62	227	"	.02	344	"	.42	486	"						
.64	232	"	.04	350	"	.44	494	"						
.66	238	"	.06	357	"	.46	501	"						
.68	243	"	.08	363	"	.48	509	"						
3.70	248		4.10	370		.50	517							
		2.80			3.40									
.72	254	"	.12	377	"									
.74	259	"	.14	384	"									
.76	265	"	.16	390	"									
.78	270		.18	397	"									
3.80	276		4.20	404										
		3.00			3.60									
.82	282	"	.22	411	"									

The above table is not applicable for obstructed channel conditions. It is based on 20 discharge measurements made during

and is well defined between second-feet and second-feet.

Computed by M.A.R.

Checked by L.W.J.

Date

C. Dist. Form 105 500 9-28

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of EAST FORK - SAN GABRIEL River

At CAMP BONITA for the Year Ending September 30, 1929 — File No. P2

Drainage Area 58.0 Square Miles. [Stevens Continuous Water Stage Recorder Observer.] Gage Read to Continuous a Day. Used rating table dated Oct. 15, 1929.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	2.18	6.29	2.22	8.44	2.26	10.59	2.28	11.66	H	23.80	2.50	23.46
2	2.18	6.29	2.22	8.44	2.26	10.59	2.28	11.66	2.94	86.04	2.50	23.46
3	2.18	6.29	2.22	8.44	2.43	19.71	2.28	11.66	2.77	59.42	2.49	22.93
4	2.17	5.76	2.22	8.44	2.39	17.56	2.28	11.66	2.71	50.56	2.50	23.46
5	2.17	5.76	2.22	8.44	2.35	15.41	2.28	11.66	2.66	43.76	2.50	23.46
6	2.16	5.22	2.22	8.44	2.33	14.34	2.28	11.66	2.65	42.40	2.51	24.00
7	2.15	4.68	2.22	8.44	2.31	13.27	2.28	11.66	2.64	41.04	2.51	24.00
8	2.15	4.68	2.23	8.98	2.30	12.73	2.28	11.66	2.61	36.96	2.51	24.00
9	2.15	4.68	2.23	8.98	2.29	12.20	2.28	11.66	2.58	32.96	2.51	24.00
10	2.15	4.68	2.21	7.90	2.30	12.73	2.28	11.66	2.55	29.00	H	241.63
11	2.17	5.76	2.21	7.90	2.35	15.41	2.28	11.66	2.54	27.75	H	119.62
12	2.29	12.20	2.21	7.90	2.33	14.34	2.28	11.66	2.54	27.75	2.90	79.40
13	2.26	10.59	2.28	11.66	2.46	21.32	2.27	11.12	2.53	26.50	2.83	68.48
14	2.26	10.59	2.33	14.34	2.38	17.02	2.27	11.12	2.52	25.25	2.77	59.42
15	2.24	9.51	2.30	12.73	2.35	15.41	2.27	11.12	2.51	24.00	2.74	55.04
16	2.24	9.51	2.27	11.12	2.34	14.88	2.36	15.95	2.50	23.46	2.73	53.58
17	2.24	9.51	2.25	10.05	2.33	14.34	2.31	13.27	2.49	22.93	2.70	49.20
18	2.23	8.98	2.25	10.05	2.32	13.80	2.31	13.27	2.52	25.25	2.69	47.84
19	2.23	8.98	2.25	10.05	2.32	13.80	2.34	14.88	2.55	29.00	2.68	46.48
20	2.22	8.44	2.24	9.51	2.31	13.27	2.47	21.85	2.52	25.25	2.66	43.76
21	2.22	8.44	2.23	8.98	2.30	12.73	2.44	20.24	2.51	24.00	2.65	42.40
22	2.22	8.44	2.24	9.51	2.30	12.73	2.39	17.56	2.50	23.46	2.64	41.04
23	2.21	7.90	2.24	9.51	2.30	12.73	2.38	17.02	2.50	23.46	2.67	45.12
24	2.21	7.90	2.24	9.51	2.30	12.73	2.36	15.95	2.52	25.25	2.65	42.40
25	2.21	7.90	2.24	9.51	2.30	12.73	2.35	15.41	2.51	24.00	2.64	41.04
26	2.20	7.37	2.25	10.05	2.30	12.73	2.34	14.88	2.52	25.25	2.63	39.68
27	2.20	7.37	2.25	10.05	2.30	12.73	2.34	14.88	2.51	24.00	2.62	38.32
28	2.20	7.37	2.25	10.05	2.30	12.73	2.34	14.88	2.50	23.46	2.60	35.60
29	2.20	7.37	2.25	10.05	2.29	12.20	2.34	14.88	-	--	2.60	35.60
30	2.20	7.37	2.26	10.59	2.28	11.66	2.34	14.88	-	--	2.60	35.60
31	2.21	7.90	---	----	2.28	11.66	2.35	15.41	-	--	2.61	36.96
TOTAL		233.73		288.06		430.08		428.49		895.96		1510.98
Mean Daily Discharge in Second-feet		7.54		9.60		13.87		13.82		32.00		48.74
Second feet per square mile												
Run-off, depth in inches												
Run-off in acre feet		463.60		571.37		853.06		849.91		1777.14		2997.03
Maximum Mean Daily Discharge in Second-feet		12.20		14.34		21.32		21.85		86.04		241.63
Minimum Mean Daily Discharge in Second-feet		4.68		7.90		10.59		11.12		23.46		22.93

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Year
1	2.62	38.32	2.76	57.96	2.54	27.75	2.44	20.24	2.30	12.73	2.20	7.37	
2	2.61	36.96	2.76	57.96	2.54	27.75	2.44	20.24	2.29	12.20	2.20	7.37	
3	2.62	38.32	2.76	57.96	2.53	26.50	2.44	20.24	2.28	11.66	2.21	7.90	
4	H	100.34	2.76	57.96	2.52	25.25	2.42	19.17	2.28	11.66	2.22	8.44	
5	3.11	115.28	2.76	57.96	2.52	25.25	2.42	19.17	2.28	11.66	2.23	8.98	
6	2.98	92.68	2.75	56.50	2.52	25.25	2.42	19.17	2.28	11.66	2.25	10.05	
7	2.92	82.72	2.75	56.50	2.52	25.25	2.41	18.63	2.28	11.66	2.25	10.05	
8	2.88	76.28	2.74	55.04	2.52	25.25	2.42	19.17	2.27	11.12	2.26	10.59	
9	2.85	71.60	2.73	53.58	2.51	24.00	2.42	19.17	2.26	10.59	2.25	10.05	
10	2.83	68.48	2.72	52.12	2.51	24.00	2.42	19.17	2.26	10.59	2.24	9.51	
11	2.83	68.48	2.71	50.56	2.51	24.00	2.41	18.63	2.26	10.59	2.23	8.98	
12	2.84	70.04	2.69	47.84	2.50	23.46	2.39	17.56	2.26	10.59	2.23	8.98	
13	2.83	68.48	2.68	46.48	2.49	22.93	2.38	17.02	2.26	10.59	2.22	8.44	
14	2.82	66.92	2.67	45.12	2.50	23.46	2.38	17.02	2.26	10.59	2.22	8.44	
15	2.81	65.36	2.65	42.40	2.49	22.93	2.37	16.49	2.25	10.05	2.21	7.90	
16	2.80	63.80	2.65	42.40	2.52	25.25	2.36	15.95	2.24	9.51	2.20	7.37	
17	2.81	65.36	2.64	41.04	2.53	26.50	2.36	15.95	2.23	8.98	2.20	7.37	
18	2.82	66.92	2.63	39.68	2.52	25.25	2.36	15.95	2.23	8.98	2.22	8.44	
19	2.83	68.48	2.63	39.68	2.49	22.93	2.35	15.41	2.22	8.44	2.24	9.51	
20	2.82	66.92	2.63	39.68	2.48	22.39	2.34	14.88	2.23	8.98	2.23	8.98	
21	2.80	63.80	2.61	36.96	2.46	21.32	2.33	14.34	2.25	10.05	2.23	8.98	
22	2.80	63.80	2.61	36.96	2.45	20.78	2.33	14.34	2.24	9.51	2.24	9.51	
23	2.79	62.34	2.60	35.60	2.44	20.24	2.32	13.80	2.22	8.44	2.24	9.51	
24	2.78	60.88	2.59	34.28	2.42	19.17	2.32	13.80	2.22	8.44	2.23	8.98	
25	2.77	59.42	2.58	32.96	2.41	18.63	2.31	13.27	2.22	8.44	2.22	8.44	
26	2.77	59.42	2.58	32.96	2.41	18.63	2.30	12.73	2.22	8.44	2.22	8.44	
27	2.77	59.42	2.58	32.96	2.40	18.10	2.30	12.73	2.21	7.90	2.22	8.44	
28	2.76	57.96	2.57	31.64	2.45	20.78	2.30	12.73	2.21	7.90	2.22	8.44	
29	2.76	57.96	2.56	30.32	2.45	20.78	2.30	12.73	2.22	8.44	2.22	8.44	
30	2.76	57.96	2.55	29.00	2.44	20.24	2.30	12.73	2.21	7.90	2.21	7.90	
31	--	--	2.54	27.75	-	---	2.30	12.73	2.21	7.90	-	-	
TOTAL		1994.70		1359.81		694.02		505.16		306.19		261.80	8908.98
Mean Daily Discharge in Second-feet		66.49		43.86		23.13		16.30		9.88		8.73	
Second feet per square mile													
Run-off, depth in inches													
Run-off in acre feet		3956.49		2697.18		1376.59		1001.98		607.33		519.28	17,670.96
Maximum Mean Daily Discharge in Second-feet		115.28		57.96		27.75		20.24		12.73		10.59	
Minimum Mean Daily Discharge in Second-feet		36.96		27.75		18.10		12.73		7.90		7.37	

Minimum stage 2.15 feet at ... on ... Discharge ...

Quarter	Computed	Checked	Date
First	MAR	MAR	Oct. 18-1929
Second	MAR	MAR	
Third	MAR	MAR	
Fourth	MAR	MAR	

Quarter	Disch. applied	Disch. checked	Date
First	MAR	LWJ	Oct. 15-1929
Second	MAR	LWJ	
Third	MAR	LWJ	
Fourth	MAR	LWJ	

Quarter	G. H. Copied	G. H. checked	Date
First	MAR	LWJ	Oct. 15-1929
Second	MAR	LWJ	
Third	MAR	LWJ	
Fourth	MAR	LWJ	

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P2

Monthly discharge of EAST FORK - SAN GABRIEL River / Creek

near CAMP BONITA for the year ending Sept. 30, 19 29

(Drainage area 58.0 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	12.20	4.68				465.60	
November	14.34	7.90				571.37	
December	21.32	10.59				853.06	
January	21.85	11.12				849.91	
February	86.04	23.46				1777.14	
March	241.63	22.93				2997.03	
April	115.28	36.96				3956.49	
May	57.96	27.75				2697.18	
June	27.75	18.10				1376.59	
July	20.24	12.73				1001.98	
August	12.73	7.90				607.33	
September	10.59	7.37				519.28	
The year						17,670.96	

NOTE:

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 29

Discharge measurements of Cattle Canyon ~~Creek~~ Creek

~~above~~ above junction with East Fork, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	10-12	Roger P.Dalton	6.0	1.36	1.18	-	1.60		.6		6	0	1/1	2647
2	10-19	do	4.8	1.66	.95	-	1.57		do		8	0	1/6	do
3	11-2	do	4.8	1.89	.97	-	1.84		do		10		do	do
4	1929 3-7	G.Patterson	7.9	4.4	1.25		5.53		do		9		do	do
5	3-14	do & Lindsey	2.5	7.6	2.00		15.17		do		10		do	do
6	3-29	do do	10	6.3	1.48		9.3		do		10		do	do
7	4-26	do do	17	9.6	1.51		14.5		do		11		do	do
8	6-7	do do	11	6.2	1.08		6.7		do		11		do	do
9	6-27	do do	10.5	5.3	.77		4.1		do		do		do	do
10	7-26	do do	8.5	4.1	.59		2.4		do		8		do	do
11	8-2	Richard Lindsey	8.5	3.4	.71		2.4		do		8		do	do
12	8-9	do	9.0	3.3	.58		1.9		do		8		do	do
13	8-16	do	9.5	3.7	.60		2.2		do		9		do	do
14	8-23	Patterson &Lindsey	8.5	3.3	.55		1.8		do		6		do	do
15	8-29	do do	8.3	3.24	.29		.94		do		8		do	do
16	9-6	do do	9.0	3.9	.44		1.70		do		7		do	do
17	9-12	do & Green	9.0	3.8	.39		1.50		do		5		do	do
	1928 10-3	R.P.Dalton	3.0	1.41	.92		.94		do		6		do	do
	11-24	do	7.4	1.90	.95		.		do		8		do	do
	12-1	do	5.9	2.40	.96				do		6		do	do
	12-8	Patterson &Scott	6.4	2.9	.93				do		11		do	do
	12-28	do do	7.0	3.0	1.03				do		7		do	do
	1929 1-21	do	7.1	4.0	1.61				do		7		do	do
	2-25	do & Lindsey	9.0	4.8	1.62				do		8		do	do
	2-28	do do	8.0	5.1	1.30				do		8		do	do

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 76

Discharge measurements of West Fork San Gabriel River

~~XXX~~ Above Bear Creek, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	1-31	Patterson & Lindsey	12.9	9.6	1.00	1.52	9.6		.6		9	0	1/6	640
2	2-26	do do	11.0	10.9	.95	1.53	10.5		do		11	0	1/4	do
3	3-8	do do	11.2	10.7	.80	1.81	8.52		do		11	0	1/4	do
4	3-21	do do	20.0	9.8	1.87	1.99	18.23		do		10	0	do	do
5	4-18	do do	20.0	12.9	1.77	2.05	22.85		do		10	0	1/6	do
6	6-6	do do	9.5	5.7	.79	1.71	4.5		do		9	0	1/4	do
7	7-11	do do	2.8	1.00	.32	1.46	.32		do		3	0	1/6	do
8	7-25	do do	2.0	.62	.32	1.36	.20		do		4	0	do	do
9	8-1	do do	1.9	.34	.62	1.40	.21		do		4	0	do	do
10	8-8	do do	2.0	.38	.53	1.33	.20		do		4	0	do	do
11	8-30	do do	1.0	.17	.60	-	.10		do		1	0	do	do
12	9-5	do do	1.5	.27	.52	-	.14		do		1	0	do	do
	1928 11-12	do	3.0	1.07	.54		.58		do		6	0	do	do
	11-30	do & Scott	5.9	3.0	.77		2.3		do		11	0	do	do
	12-7	do do	7.4	6.0	.83		5.0		do		8	0	do	do
	12-27	do	10.7	5.7	1.02		5.8		do		11	0	do	do

F. C. Dist. Form 104--500--9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 24

Discharge measurements of West Fork San Gabriel River

at Narrows, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	262
1	11-12	G.Patterson	4.4	1.54	.54	-	.83		.6		9	-	1/4	556
2	3-8	Patterson &Lindsey	12	6.8	.82	1.72	5.56		do		9	0	1/3	do
3	3-21	do do	20	14.9	.97	3.63	14.5		do		10	0	1/4	do
4	4-2	do do	12	7.0	.93	1.73	6.5		do		9	0	do	do
5	4-18	do do	11	7.4	1.07	1.79	7.91		do		8	0	do	do
6	4-25	do do	12.3	7.8	1.04	1.77	8.11		do		9	0	do	do
7	5-24	do do	10.5	5.5	.84	1.68	4.60		do		8	0	1/6	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 77

Discharge measurements of West Fork San Gabriel River

~~XXX~~ above junction North Fork of West, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	10-12	Roger P. Dalton	6.0	2.69	.56	-	1.50		.6		6	-	1/6	647
2	10-19	do	7.2	2.22	.49	-	1.08		do		7	-	do	do
3	11-2	do	7.0	2.52	.58	-	1.45		do		7	-	do	do
4	1929 1-3	Patterson& Scott	19.5	11.8	.79	1.82	9.3		do		11	0	do	do
5	2-14	do & Lindsey	25.5	13.8	1.62	1.91	22.4		do		9	.02	do	271 640
6	2-26	do do	25.5	11.8	1.37	1.92	16.1		do		11	0	do	do
7	3-21	do do	25.5	19.3	1.87	-	36.0		do		9	-	1/4	do
8	4-2	do do	11.5	8.5	2.33	1.83	19.8		do		8	0	do	do
9	4-11	do do	29.0	27.7	2.13	2.33	59.0		do		10	0	do	do
10	4-18	do do	26.0	22.7	1.80	2.01	40.7		do		9	0	do	do
11	4-25	do do	26.0	16.4	1.87	1.93	30.6		do		10	0	do	do
12	5-2	do do	24.0	18.3	1.20	1.80	21.9		do		12	0	do	do
13	5-17	do do	10.0	6.8	2.12	1.64	14.4		do		9	0	1/6	do
14	5-24	do do	11.5	10.0	1.06	1.58	10.6		do		11	0	do	do
15	6-13	do do	11.6	9.0	.83	1.44	7.5		do		10	0	do	do
16	6-21	do & Green	8.5	4.3	1.16	1.34	5.0		do		9	0	do	do
17	6-28	do & Lindsey	6.0	2.7	1.04	1.23	2.8		do		6	0	do	do
18	7-5	do do	5.5	2.3	.74	1.16	1.7		do		6	0	do	do
19	7-11	do do	4.5	1.8	.83	1.14	1.5		do		5	0	do	do
20	7-18	do do	4.0	1.5	.73	1.09	1.1		do		4	0	do	do
21	7-25	do do	4.6	1.3	.36	1.04	.47		do		5	0	do	do
22	8-1	do do	2.5	.8	.61	1.05	.49		do		5	0	do	do
23	8-8	do do	2.8	.8	.56	1.04	.45		do		5	0	do	do
24	8-22	do do	2.2	.7	.44	1.03	.31		do		4	0	do	do
25	8-30	do do	1.9	.6	.43	1.03	.24		do		4	0	do	do
26	9-5	do do	2.0	.4	.95	1.07	.38		do		1	0	do	do

WALNUT CREEK - COVINA BOULEVARD

Location:
On downstream side of highway bridge crossing Walnut Wash at Covina Blvd. Approximately one-half mile southwest of Baldwin Park, Los Angeles County, California.

Drainage Area:
99.6 square miles.

Installed by:
Los Angeles County Flood Control District Dec.15, '28.
Originally installed by D.W.R. 1923-1924

Records Available:
Dec.15,1928 to Sept.30,1929 at L.A.F.C.D.
See D.W.R. Bulletins for previous records.

Gage:
Rational 7 day water stage recorder installed in shelter house on corrugated iron stilling well attached to downstream end of highway bridge pier. Vertical staff gage installed on bridge pier at the stilling well.

Discharge Measurements:
High water flows are measured from bridge. Low water measurements by wading near gage.

Channel and Control:
Channel - sand and gravel.
Control - none.

Extremes of Discharge:
Maximum - 302 c.f.s. March 10,1929.
Minimum - Dry at various times during year.

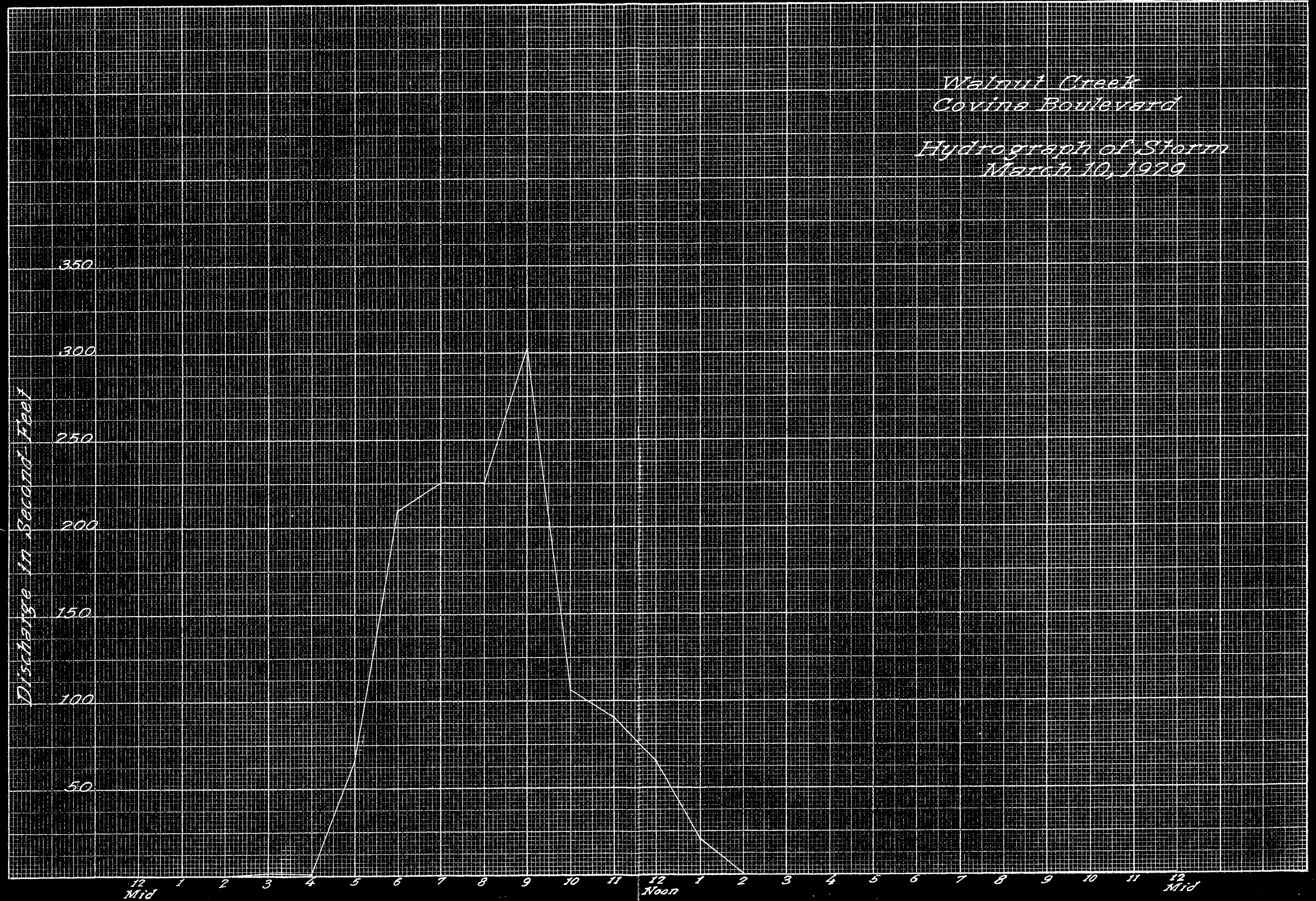
Diversions:
None above gage.

Regulation:
None.

Accuracy:
Fair.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S., Water Resources Branch.

Walnut Creek
Covina Boulevard
Hydrograph of Storm
March 10, 1929



Walnut Creek
Covina Boulevard

Hydrograph of Storm
March 10, 1929

Discharge in Second-Feet

350
300
250
200
150
100
50

12 Mid 1 2 3 4 5 6 7 8 9 10 11 12 Noon 1 2 3 4 5 6 7 8 9 10 11 12 Mid

F. C. Dist. Form 104 - 500 -9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 47

Discharge measurements of Walnut ~~River~~ Creek

at ~~Irwindale~~ Covina Boulevard, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	3-10	C.L.Brewster	88	37.05	2.46	2.85	91.5		.6		10	.10	1/2	666
2	3-10	do	17	6.31	1.68	2.39	10.6		do		9	.02	-	do
3	4-4	do	15	8.25	2.52	2.50	20.8		do		8	0	1/4	do

Dist. Form 105 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 47

Gage Height, in Feet, and Discharge, in Second-Feet, of Walnut ~~Xxxx~~ Creek

At ~~Xxx~~ Covina Blvd. for the Year Ending September 30, 19 29

Gage Area 99.6 Square Miles. [Rational 7 day Water Stage Recorder Observer.]

Gage Read to Continuous ~~Xxx~~ a Day. Used rating table dated July 11, 1929

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1												Dry	1		Dry										1
2												"	2		"										2
3												"	3		"										3
4												"	4	H	1.27										4
5												"	5	.04	0.40										5
6												"	6		Dry										6
7												"	7		"										7
8												"	8		"										8
9												"	9		"										9
10											H	54.72	10		"										10
11												Dry	11		"										11
12												"	12		"										12
13												"	13		"										13
14												"	14		"										14
15		Inst. Dec. 15		Dry								"	15		"										15
16		"		"								"	16		"										16
17		"		"								"	17		"										17
18		"		"								"	18		"										18
19		"		"								"	19		"										19
20		"		"								"	20		"										20
21		"		"								"	21		"										21
22		"		"								"	22		"										22
23		"		"								"	23		"										23
24		"		"								"	24		"										24
25		"		"								"	25		"										25
26		"		"								"	26		"										26
27		"		"								"	27		"										27
28		"		"								"	28		"										28
29		"		"								"	29		"										29
30		"		"								"	30		"										30
31		"		"								"	31		"										31
							FLOW		FLOW							FLOW		FLOW		FLOW		FLOW		FLOW	
							NO		NO							NO		NO		NO		NO		NO	
TOTAL,		0.00		0.00		0.00		54.72							1.67		0.00		0.00		0.00		0.00	56.39
scharge in								1.77							.05										
r square mile																									
in inches																									
e-feet								108.54							3.31										111.85
n Daily								54.72							1.27										
n Second-feet																									
n Daily								Dry							Dry										
Second-feet																									

	First	Second	Third	Fourth
Quarter				
Computed				
Checked				
Date				

	First	Second	Third	Fourth
Quarter	MAR	MAR	MAR	MAR
Disch. applied	MAR	MAR	MAR	MAR
Disch. checked	MAR	MAR	MAR	MAR
Date	July 11, 1929			

	First	Second	Third	Fourth
Quarter				
G. H. Copied				
G. H. checked				
Date				

	First	Second	Third	Fourth
Quarter	MAR	MAR	MAR	MAR
Disch. applied	MAR	MAR	MAR	MAR
Disch. checked	MAR	MAR	MAR	MAR
Date	July 11, 1929			

	First	Second	Third	Fourth
Quarter				
G. H. Copied				
G. H. checked				
Date				

PERIOD ~~Year~~

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 47

Monthly discharge of Walnut ~~Dixie~~ Creek

at ~~Dixie~~ Covina Blvd. for the year ending Sept. 30, 19 29

(Drainage area 99.6 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean Daily	Per square mile	Depth in inches on drainage area	Total in acre feet	
October						-	
November						-	
December	Installed Dec. 15, 1928					Dry	
January						Dry	
February						Dry	
March	302	0	1.77			108.54	
April	15	0	.05			3.31	
May						Dry	
June						Dry	
July						Dry	
August						Dry	
September						Dry	
The ~~year~~ period						111.85	

NOTE:

Station Installed Dec. 15, 1928

LITTLE DALTON - ABOVE MOUTH OF CANYON

Location:
About 500' above mouth of Little Dalton Canyon, approximately 2 and one tenth miles northeast of Glendora, Los Angeles County, California.

Drainage Area:
3.18 square miles.

Installed by:
Los Angeles County Flood Control District Jan.28,1929

Records Available:
Jan.28,1929 to Sept 30,1929 at L.A.C.F.C.D.

Gage:
Vertical staff gage 10' upstream from weir on west side of channel. Rational 7 day water-stage recorder installed in wooden shelter house on corrugated iron pipe stilling well 10' upstream from weir.

Discharge Measurements:
High water measurements will be made from footbridge at recorder house. Low water measurements made by wading near gage.

Channel and Control:
Channel- rocky bottom and sides. Low water flow controlled by 10' Cippoletti weir. High water flow controlled by 20' Cippoletti weir. Crest of 10' Cippoletti weir on 0.00 of staff gage. Control completed in December 1928.

Extremes of Discharge:

Maximum 1928-1929	5.78 c.f.s. on March 10,1929
Minimum 1928-1929	Dry at various times during the year

Diversions:
No diversions above station.

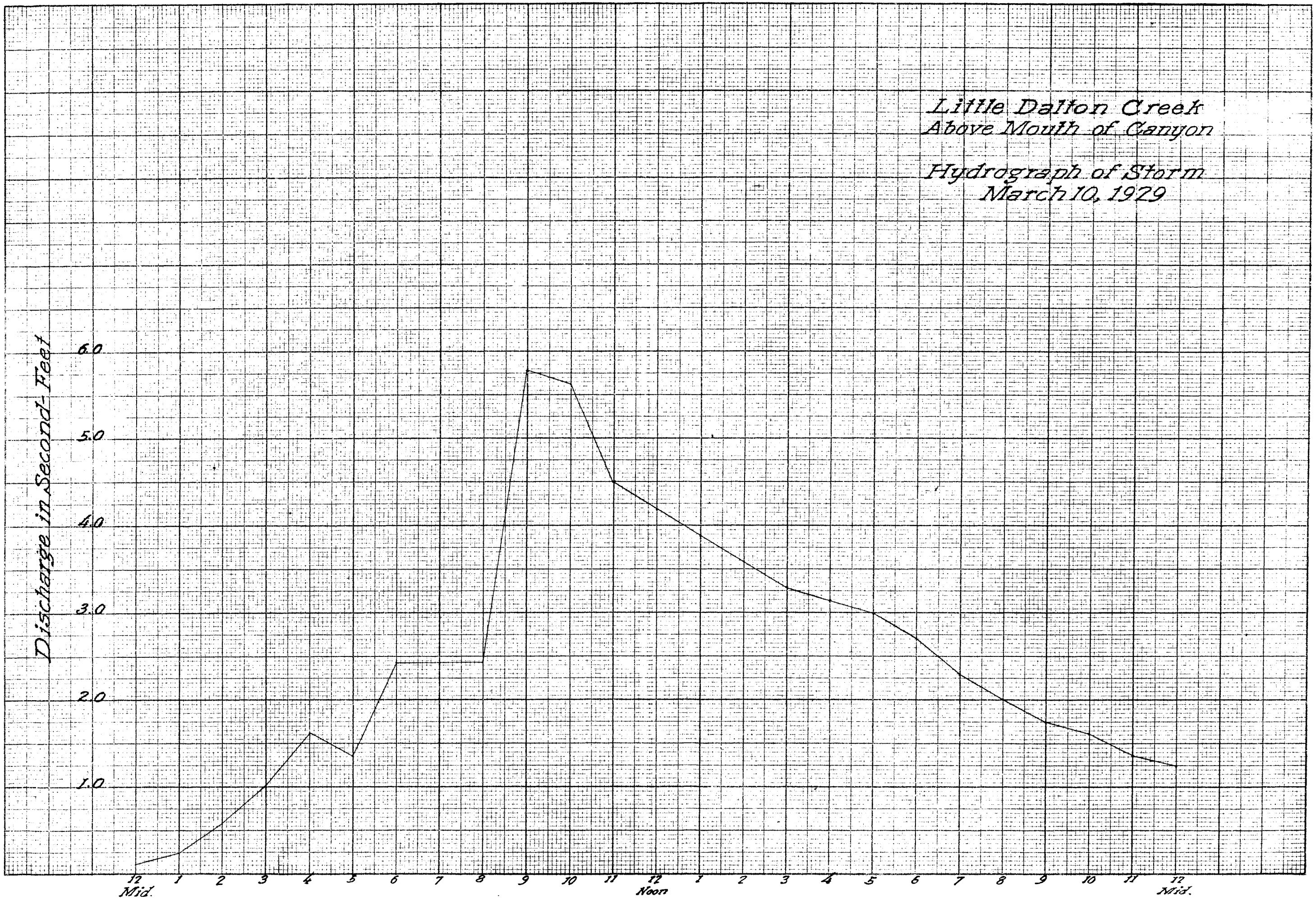
Regulation:
None.

Accuracy:
Good.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S. G.S. Water Resources Branch.

Little Dalton Creek
Above Mouth of Canyon

Hydrograph of Storm
March 10, 1929



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 65

Discharge measurements of Little Dalton Creek

~~at~~ above Mouth Canyon, during the year ending September 30, 1929.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	2-18	C.L.Brewster	1.5	.45	1.09	.05	.49		.6		3	0	1/12	666
2	2-19	do	1.7	.51	.88	.06	.45		do		3	0	1/6	do
3	2-22	do	3.0	.53	.26	.03	.14		do		5	0	do	do
4	3-10	do	10.5	2.65	2.06	.43	5.46		do		5	.02	1/4	do
5	3-13	do	2.0	.32	1.56	.15	.50		do		4	0	do	do
6	3-25	R.P.Dalton	1.0	.27	.85	.04	.23		do		1	0	1/12	271 647
7	3-29	C.L.Brewster	1.0	.24	.54	.04	.13		do		2	0	1/4	271 666
8	4-12	do	1.4	.42	1.05	.09	.44		do		2	0	do	do
9	4-19	do	1.5	.39	.74	.04	.29		do		2	0	do	do
10	5-10	do	Estimated			.01	.05							

Std. Form 105 500 9-29

Gage Height, in Feet, and Discharge, in Second-Feet, of Little Dalton XXXX Creek

XX XXX above mouth of canyon for the Year Ending September 30, 19 29

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 65

...ge Area . . . . .28 Square Miles. [Rational 7 day water stage register Observer.] Gage Read to continuous XXXX XXXX Day. Used rating table dated Jan. 17, 1930

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1										Dry	.03	0.17
2									.05	.32	.02	.11
3									.05	.32	.02	.11
4									.05	.32	.02	.11
5									.03	.17	.02	.11
6									.02	.11	.02	.11
7					Installed			Dry	.02	.11	.02	.11
8					Jan. 7			"	.02	.11	.02	.11
9								"	.02	.11	.02	.11
10								"	.02	.11	H	2.56
11								"	.02	.11	.08	.58
12								"	.02	.11	.07	.49
13								"	.02	.11	.06	.40
14								"	.02	.11	.05	.32
15								"	.02	.11	.04	.24
16								"	.02	.11	I.04	.24
17								"	.02	.11	I.04	.24
18								"	.04	.24	I.04	.24
19								"	.06	.40	I.04	.24
20								"	.05	.32	I.04	.24
21								"	.04	.24	I.04	.24
22								"	.03	.17	I.04	.24
23								"	.03	.17	I.04	.24
24								"	.03	.17	I.04	.24
25								"	.03	.17	.04	.24
26								"	.03	.17	.04	.24
27								"	.03	.17	.04	.24
28								"	.03	.17	.04	.24
29								"	-	-	.03	.17
30								"	-	-	.03	.17
31								"	-	-	.03	.17
TOTAL.								0		4.84		9.27
...harge in								0		.17		.30
square mile												
in inches												
feet								0		9.60		18.39
Daily Second-feet										.40		2.56
Daily Second-feet										Dry		0.11

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY	PERIOD
1	.03	.17	.03	0.17		Dry		Dry		Dry		Dry	1	
2	.03	.17	.03	.17		"		"		"		"	2	
3	.03	.17	.02	.11		"		"		"		"	3	
4	.11	.90	.02	.11		"		"		"		"	4	
5	.12	1.01	.02	.11		"		"		"		"	5	
6	.12	1.01	.02	.11		"		"		"		"	6	
7	I.12	1.01	.02	.11		"		"		"		"	7	
8	.12	1.01	.01	.05		"		"		"		"	8	
9	.10	.79	.01	.05		"		"		"		"	9	
10	.09	.68	.01	.05		"		"		"		"	10	
11	.09	.68	.01	.05		"		"		"		"	11	
12	.09	.68	.01	.05		"		"		"		"	12	
13	.09	.68		Dry		"		"		"		"	13	
14	.09	.68		"		"		"		"		"	14	
15	.08	.58		"		"		"		"		"	15	
16	.07	.49		"		"		"		"		"	16	
17	.06	.40		"		"		"		"		"	17	
18	.04	.24		"		"		"		"		"	18	
19	I.04	.24		"		"		"		"		"	19	
20	.04	.24		"		"		"		"		"	20	
21	.04	.24		"		"		"		"		"	21	
22	.04	.24		"		"		"		"		"	22	
23	.04	.24		"		"		"		"		"	23	
24	.04	.24		"		"		"		"		"	24	
25	.04	.24		"		"		"		"		"	25	
26	.04	.24		"		"		"		"		"	26	
27	.04	.24		"		"		"		"		"	27	
28	.04	.24		"		"		"		"		"	28	
29	.04	.24		"		"		"		"		"	29	
30	.03	.17		"		"		"		"		"	30	
31	-	-		"	-	-		"		"	-	-	31	XXXX
TOTAL.		14.16		1.14		0		0		0		0		29.41
...harge in		.47		.04		0		0		0		0		
square mile														
in inches														
feet		28.09		2.26		0		0		0		0		58.34
Daily Second-feet		1.01		..17		0		0		0		0		2.56
Daily Second-feet		.17		Dry		0		0		0		0		Dry

Quarter	Computed	Checked	Date
Fourth	MAR	MAR	
Third	MAR	MAR	
Second	MAR	MAR	
First	MAR	MAR	Jan. 20, 1930

Quarter	Disch. applied	Disch. checked	Date
Fourth	MAR	MAR	
Third	MAR	MAR	
Second	MAR	MAR	
First	MAR	MAR	Jan. 20, 1930

Quarter	G. H. Copied	G. H. checked	Date
Fourth	MAR	MAR	
Third	MAR	MAR	
Second	MAR	MAR	
First	MAR	MAR	Jan. 17, 1930

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 65

Monthly discharge of Little Dalton ~~River~~ Creek

~~at~~ above mouth of canyon for the year ending Sept. 30, 1929

(Drainage area 5.18 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January	Installed Jan. 7, 1929					0	
February	.40	Dry	.17			9.60	
March	2.56	0.11	.30			18.39	
April	1.01	.17	.47			28.09	
May	.17	Dry	.04			2.26	
June	Dry	Dry	Dry			0	
July	Dry	Dry	Dry			0	
August	Dry	Dry	Dry			0	
September	Dry	Dry	Dry			0	
The ~~year~~ period	2.56	Dry				58.34	

NOTE:

SPREADING DIVERSION FROM
SAN ANTONIO CREEK - MOUTH OF CANYON

Location:
Head of flume at Mouth of San Antonio Canyon, 4 miles northeast of Claremont, Los Angeles County, California.

Drainage Area:
29.0 square miles.

Installed by:
Los Angeles County Flood Control District-1928.April 3

Records Available:
April 3,1928 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Rational 7 day water stage recorder installed in shelter house, mounted on iron pipe stilling well at head of flume. Outside vertical staff gage installed on stilling well.

Discharge Measurements:
High water measurements made from planks across flume. Low water measurements made by wading in flume at gage.

Channel and Control:
Channel- soil at top of flume is rocky and filled in with fine silt and gravel. Bottom and sides of channel covered with loose rock and gravel, also scattered large loose rock and boulders. Good control, flume 18' wide by approx.4' deep-rough rubble and cement.

Extremes of Discharge:
Maximum 1928-1929 17.0 c.f.s. March 10,1929
Minimum 1928-1929 Dry at various times during year.

Diversions:
This station is on a diversion. No diversions above this station.

Regulation:
None.

Accuracy:
Good normally. Only one measurement this year.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperstion with the U.S.G.S., Water Resources Branch.

San Antonio Creek
Spreading Cone

Hydrograph of Spreading
March 10-11, 1929

Discharge in Second-Feet

20
18
16
14
12
10
8
6
4
2
0

12 Mid. 2 4 6 8 10 12 Noon March 10 2 4 6 8 10 12 Mid. 2 4 6 8 10 12 Noon March 11 2 4 6 8 10 12 Mid

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 33

Discharge measurements of San Antonio Spreading Cone **River / Creek**

near Claremont, **during the year ending September 30, 19** 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		*Feet*	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*			*No.*	*Total*	*Hours*	271
1	3-10	Brewster&Bonebrake	14.6	5.42	2.44	.75	13.27		.6		7	0	1/4	666

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 33

to continuous One Twice a Day. Used rating table dated No rating table

DAY	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12		No Flow		No Flow		No Flow		No Flow		No Flow
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										

Quarter	First	Second	Third	Fourth
G. H. Copied	MAR	MAR	MAR	MAR
G. H. checked	CLB	CLB	CLB	CLB
Date	July 10, 1929		Dec. 5, 1929	
Disch. applied	CLB	CLB	CLB	CLB
Disch. checked	MAR	MAR	MAR	MAR
Date		Dec. 4, 1929		

PERIOD
YEAR 17.37

34.45
9.21
Dry

t.—Form 105—500—9-28

Gage Height, in Feet, and Discharge, in Second-Feet, of San Antonio Spreading Cone ~~XXXX~~ ~~XXXX~~

At Head Gate
Near

for the Year Ending September 30, 19

e Area 29.9 Square Miles. [Rational 7 day water Stage Recorder Observer.]

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	Gage heigh
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		
1													1	
2													2	
3													3	
4													4	
5													5	
6													6	
7													7	
8													8	
9													9	
10											H	7.61	10	
11											H	9.21	11	
12											.05	.55	12	
13												Dry	13	
14												"	14	
15												"	15	
16												"	16	
17												"	17	
18												"	18	
19												"	19	
20												"	20	
21												"	21	
22												"	22	
23												"	23	
24												"	24	
25												"	25	
26												"	26	
27												"	27	
28												"	28	
29												"	29	
30												"	30	
31												"	31	

No Flow (OCTOBER)
No Flow (NOVEMBER)
No Flow (DECEMBER)
No Flow (JANUARY)
No Flow (FEBRUARY)

TOTAL,	17.37
charge in	.56
r square mile	
in inches	
-feet	34.45
t Daily Second-feet	9.21
Daily Second-feet	Dry

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 33

Monthly discharge of San Antonio Spreading Cone ~~River~~ ~~Creek~~

~~at~~ near Claremont for the year ending Sept. 30, 19 29

(Drainage area 16.9 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February							
March	9.21	Dry	.56			34.45	
April							
May							
June							
July							
August							
September							
The year ~~period~~						34.45	

NOTE:

HUDDLESTONE CANAL NEAR DAM

Location:
Concrete shelter house and stilling well on east side of Paddlestone Channel approximately 1000' below Paddlestone Dam near San Dimas, Los Angeles County, California.

Drainage Area:
34.3 Square Miles.

Installed By:
Los Angeles County Flood Control District, Hydrographic Department on December 28, 1927.

Records available:
December 28, 1927 to Sept. 30, 1929

Gage:
An continuous water stage recorder located in concrete house on east bank of stream.

Discharge Measurements:
Made by wading near recorder house. Staff gage attached to recorder house.

Channel & Control
Channel of sand and gravel, bed rock near gage. Reinforced concrete with 3" inch crest, cippoleti weir 18'.

Extremes of Discharge:
2.05 c.f.s. Dec.13, 1928.
Dry from Aug 29, 1929 - Sept.2, 1929.

Diversions:
No diversions above gage.

Regulation:
Flow regulated by construction of Los Angeles County Flood Control Dam 1000' above gage.

Accuracy:
Good.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control in cooperation with the U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Discharge measurements of Puddingstone ~~River~~ Creek

~~XXX~~ below dam, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	C. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*			*No.*	*Total*	*Hours*	
1	3-4	Brewster&Pollard	4	gal.in	67	sec.	.03 .008							
2	4-29	do do					.008							
3	5-29	do	1	gal.in	32.5	sec.	.004							

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Rating table for Puddingstone Creek

Below Dam, *from* Oct. 1, 1928, *to* Sept. 30, 1929

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.00	.00		.20	.60										
.01	.01		.21	.65										
.02	.02		.22	.69										
.03	.04		.23	.74										
.04	.05		.24	.79										
.05	.08		.25	.84										
.06	.10													
.07	.12													
.08	.15													
.09	.18													
.10	.21													
.11	.25													
.12	.28													
.13	.32													
.14	.35													
.15	.39													
.16	.43													
.17	.47													
.18	.51													
.19	.56													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Two foot Cippoletti Weir Table used. Seepage and underflow at weir will balance measurements showing lower discharges.

Computed by M. Rupert

Checked by C. E. B.

Date July 10, 1929

t.—Form 105 500 9 23

Gage Height, in Feet, and Discharge, in Second-Feet, of Puddingstone [XX] Creek

[XX] below Puddingstone Dam for the Year Ending September 30, 1929

e Area 34.8 Square Miles. [Au Continuous Water Stage Recorder Observer.]

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	Gag
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		heigh
1	.04	.05	.04	.05	.04	.05	.04	.05	.06	.10	.03	.04	1	.03
2	.04	.05	.04	.05	.04	.05	.04	.05	.06	.10	.03	.04	2	.0
3	.04	.05	.04	.05	.04	.05	.04	.05	.04	.05	.03	.04	3	.0
4	.04	.05	.04	.05	.04	.05	.04	.05	.04	.05	.03	.04	4	.1
5	.03	.04	.04	.05	.04	.05	.04	.05	.04	.05	.03	.04	5	.0
6	.02	.02	.04	.05	.04	.05	.04	.05	.04	.05	.03	.04	6	.03
7	.02	.02	.04	.05	.04	.05	.04	.05	.04	.05	.03	.04	7	.03
8	.02	.02	.04	.05	.04	.05	.04	.05	.04	.05	.03	.04	8	.03
9	.02	.02	.04	.05	.04	.05	.05	.08	.04	.05	.03	.04	9	.03
10	.03	.04	.04	.05	.05	.08	.05	.08	.04	.05	.14	.35	10	.03
11	.04	.05	.04	.05	.04	.05	.05	.08	.04	.05	.05	.08	11	.03
12	.04	.05	.04	.05	.04	.05	.05	.08	.04	.05	.03	.04	12	.03
13	.04	.05	.06	.10	.12	.28	.05	.08	.04	.05	.03	.04	13	.03
14	.04	.05	.10	.21	.05	.08	.06	.10	.03	.04	.03	.04	14	.03
15	.04	.05	.06	.10	.04	.05	.07	.12	.03	.04	.03	.04	15	.03
16	.04	.05	.05	.08	.04	.05	.09	.18	.03	.04	.03	.04	16	.03
17	.04	.05	.04	.05	.04	.05	.08	.15	.03	.04	.03	.04	17	.03
18	.04	.05	.04	.05	.04	.05	.05	.08	.03	.04	.03	.04	18	.03
19	.04	.05	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	19	.03
20	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	20	.03
21	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	21	.03
22	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	22	.03
23	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	23	.03
24	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	24	.03
25	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	25	.03
26	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	26	.03
27	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	27	.03
28	.04	.05	.04	.05	.04	.05	.03	.04	.03	.04	.03	.04	28	.03
29	.04	.05	.04	.05	.04	.05	.03	.04	--	--	.03	.04	29	.04
30	.04	.05	.04	.05	.04	.05	.03	.04	--	--	.03	.04	30	.03
31	.04	.05	---	---	.04	.05	.03	.04	--	--	.03	.04	31	--
TOTAL,	1.41		1.79		1.84		1.96		1.35		1.59			
charge in	.04		.06		.06		.06		.05		.05			
square mile														
in inches														
-feet	2.80		3.55		3.65		3.89		2.68		3.15			
Daily Second-feet	.05		.21		.28		.18		.10		.35			
Daily Second-feet	.02		.05		.05		.04		.04		.04			

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Gage Read to Continuous ~~Once~~ a Day. Used rating table dated July 10, 1929

DAY	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	.04	.03	.04	.02	.02	.02	.02	.02	.02	Dry	0
2	.04	.03	.04	.03	.04	.03	.04	.02	.02	Dry	0
3	.04	.03	.04	.02	.02	.02	.02	.02	.02	.01	.01
4	.25	.03	.04	.03	.04	.03	.04	.02	.02	.02	.02
5	.05	.03	.04	.02	.02	.02	.02	.02	.02	.02	.02
6	.04	.03	.04	.03	.04	.03	.04	.01	.01	.02	.02
7	.04	.03	.04	.02	.02	.02	.02	.01	.01	.02	.02
8	.04	.03	.04	.03	.04	.03	.04	.01	.01	.02	.02
9	.04	.03	.04	.02	.02	.02	.02	.02	.02	.02	.02
10	.04	.03	.04	.03	.04	.03	.04	.02	.02	.02	.02
11	.04	.03	.04	.02	.02	.02	.02	.02	.02	.02	.02
12	.04	.03	.04	.03	.04	.03	.04	.02	.02	.02	.02
13	.04	.03	.04	.04	.05	.02	.02	.02	.02	.02	.02
14	.04	.03	.04	.04	.05	.02	.02	.02	.02	.02	.02
15	.04	.03	.04	.03	.04	.02	.02	.01	.01	.02	.02
16	.04	.03	.04	.02	.02	.02	.02	.01	.01	.02	.02
17	.04	.03	.04	.03	.04	.02	.02	.02	.02	.01	.01
18	.04	.03	.04	.02	.02	.01	.01	.02	.02	.04	.05
19	.04	.03	.04	.03	.04	.01	.01	.02	.02	.02	.02
20	.04	.03	.04	.02	.02	.01	.01	.02	.02	.02	.02
21	.04	.03	.04	.03	.04	.02	.02	.02	.02	.02	.02
22	.04	.04	.05	.02	.02	.02	.02	.02	.02	.02	.02
23	.04	.03	.04	.03	.04	.01	.01	.02	.02	.02	.02
24	.04	.03	.04	.03	.04	.01	.01	.02	.02	.02	.02
25	.04	.03	.04	.03	.04	.02	.02	.02	.02	.02	.02
26	.04	.03	.04	.03	.04	.02	.02	.01	.01	.02	.02
27	.04	.03	.04	.02	.02	.02	.02	.01	.01	.02	.02
28	.04	.03	.04	.03	.04	.02	.02	.01	.01	.02	.02
29	.05	.03	.04	.02	.02	.02	.02	Dry	0	.02	.02
30	.04	.02	.02	.03	.04	.02	.02	Dry	0	.02	.02
31	--	.03	.04	--	--	.02	.02	Dry	0	--	--
	1.43		1.23		0.98		0.69		0.48		0.57
	.05		.04		.03		.02		.01		.02
	2.84		2.44		1.94		1.37		.95		1.13
	.25		.05		.05		.04		.02		.05
	.04		.02		.02		.01		Dry		Dry

PERIOD
YEAR — 15.32 — 30.39

Quarter	First	Second	Third	Fourth
G. H. Copied	MAR	MAR	MAR	MAR
G. H. checked	CLB	CLB	CLB	CLB
Date	July 9, 1929			

Quarter	First	Second	Third	Fourth
Disch. applied	M. A. R.	MAR	MAR	MAR
Disch. checked	CLB	CLB	CLB	CLB
Date	July 9, 1929			

Quarter	First	Second	Third	Fourth
Computed	MAR	MAR	MAR	MAR
Checked	CLB	CLB	CLB	CLB
Date	Oct. 10, 1929			

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Monthly discharge of Puddingstone ~~River~~ Creek

~~XXX~~ below Puddingstone Dam for the year ending Sept. 30, 1929

(Drainage area 34.80 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	.05	.02	.04			2.80	
November	.21	.05	.06			3.55	
December	.28	.05	.06			3.65	
January	.18	.04	.05			3.89	
February	.10	.04	.05			2.68	
March	.35	.04	.05			3.15	
April	.25	.04	.05			2.84	
May	.05	.02	.04			2.44	
June	.05	.02	.03			1.94	
July	.04	.01	.02			1.37	
August	.02	Dry	.01			.95	
September	.05	Dry	.02			1.13	
The year ~~passed~~						30.39	

NOTE:

LIVE OAK CREEK NEAR LA VERNE, CALIFORNIA

Location:
Near mouth of canyon about 1 mile below Los Angeles County Flood Control Dam, about 3 miles northeast of La Verne, Los Angeles County, California.

Drainage Area:
2.57 square miles

Installed by:
Los Angeles County Flood Control District Jan.4,1928

Records Available:
Jan.4,1928 to Sept.30,1929

Gage:
Rational 7 day recorder installed in concrete house on west bank of stream. Staff gage on concrete stilling well of shelter house.

Discharge Measurements:
Low water flows by wading at gage.
High flows from bridge across stream 200' below gage

Channel and Control:
Channel - sand and gravel, bed rock near gage. Small concrete control, with 24" crest cippoletti weir, 12" deep.

Extremes of Discharge:
No flow 1928-1929

Diversions:
None above gage

Regulation:
Flow regulated by Los Angeles County Flood Control Dam

Accuracy:
Will be good at low flows

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S. G.S. Water Resources Branch.

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 31

Monthly discharge of Live Oak Creek

below Dam for the year ending Sept. 30, 19 29

(Drainage area 2.57 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February		NO FLOW 1928-1929					
March							
April		NO MEASUREMENTS.					
May							
June							
July							
August							
September							
The year period							

NOTE:

BIG DALTON CREEK NEAR GLENDORA, CALIF.

Location:
In center of Section 21, T 1.N., R.9W., at Glendora Consolidated Mutual Water Company's Dam, ¼ mile above mouth of canyon and 2½ miles northeast of Glendora, Los Angeles County, California.

Drainage Area:
6.53 square miles.

Installed by:
U.S.G.S. Water Resources Branch.

Records Available:
1919 to 1929 at U.S.G.S.

Gage:
Stevens continuous water stage recorder installed in concrete well and house on west bank of stream.

Discharge Measurements:
Low water flow measured by wading near gage.
High water flow measurements from cable 50' above gage

Channel and Control:
Control is a rubble masonry dam. Crest of the dam slopes from the wings to center. It is 5' lower at the center. Pool at dam fills with silt and control is not effective.

Extremes of Discharge:

Maximum 1928-1929	4.8 c.f.s. April 4, 1929
Minimum 1928-1929	Dry at various times during year.

Diversions:
The Glendora Consolidated Mutual Water Co. diverts water ½ mile and 1½ miles above gage through 10 " pipes. A 12" pipe line diverts water at the control. The total diversion is measured over a 20 inch weir. See U.S.G.S. Records for diversions.

Regulation:
Flow regulated by Flood Control Dam above gage.

Accuracy:
Good.

Cooperation:
Constructed by U.S.G.S. Water Resources Branch. Operated in cooperation with Los Angeles County Flood Control District.

F. C. Dist. -Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 9

Discharge measurements of Big Dalton U.S.G.S Creek

near Glendora, below Flood Control Dam, during the year ending September 30, 1929.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	3-10	Brewster&Bonebrake	5	1.78	1.40	.94	2.53		.6		5	0	1/4	666
2	3-13	C.L.Brewster	3.6	.98	1.12	.85	1.10		do		5	0	do	do
3	3-29	do	1.0	.22	.50	.62	.11		do		2	0	do	do
4	4-4	do	4.0	.90	.77	.83	.69		do		4	0	do	do
5	4-4	do	4.0	1.11	1.26	.89	1.40		do		4	0	1/10	do
6	4-12	do	4.0	.94	.96	.84	.90		do		4	0	1/4	do
7	6-14	do	1.0	.07	.71	-	.05		do		2	0	1/6	do
		U.S.G.S. Measurements												
U1	1929 1-21	F.C.Ebert	3	.60	.80	.72	.48		do		4	0	do	27214
U2	2-19	do	3	.51	.58	.76	.29		do		4	0	do	do
U3	3-11	do	5	1.8	1.33	.93	2.40		do		8	0	do	do
U4	3-13	do	4	1.0	.85	.85	1.00		do		6	0	do	do
U5	3-15	do	4	.90	.89	.81	.80		do		6	0	do	do
U6	3-21	H.J.Tompkins	1	.40	2.38	.78	.95		do		2	0	1/12	885
U7	4-4	F.C.Ebert	4.3	1.40	1.29	.90	1.8		do		8	0	do	27214
U8	4-5	do	10	4.4	1.39	1.06	6.1		do		11	0	1/3	do
U9	4-6	H.J.Tompkins	4	2.2	1.23	.96	2.7		do		4	0	1/12	885
U10	4-12	do	2	.65	1.38	.84	.90		do		3	0	do	do

~~Daily gage height, in feet,~~
Daily discharge in second-feet, of [illegible] for the year ending Sept. 29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	.	.	.	.	.	0.2	0.1	.	.	.	.	.
2	.	.	.	.	.	.1	.	.	.	.	.	.
3	.	.	.	.	.	.1	.	.	.	.	.	.
4	.	.	.	.	.	.1	.9	.	.	.	.	.
5	.	.	.	.	.	.1	4.0	.	.	.	.	.
6	.	.	.	.	.	.1	3.3	.	.	.	.	.
7	.	.	.	.	.	.1	2.4	.	.	.	.	.
8	.	.	.	.	.	.	1.7	.	.	.	.	.
9	.	.	.	.	.	.	1.5	.	.	.	.	.
10	.	.	.	.	.	.3	1.3	.	.	.	.	.
11	.	.	.	.	.	.7	1.2	.	.	.	.	.
12	.	.	.	.	.	1.5	1.1	.	.	.	.	.
13	.	.	.	.	.	1.2	.7	.	.	.	.	.
14	.	.	.	.	.	1.0	1.1	.	.	.	.	.
15	.	.	.	.	.	.8	.7	.	.	.	.	.
16	.	.	.	.	.	.7	.5	.	.	.	.	.
17	.	.	.	.	.	.7	.1	.	.	.	.	.
18	.	.	.	.	0.1	.7	.	.	.	.	.	.
19	.	.	.	.	.1	.7	.2	.	.	.	.	.
20	.	.	.	.	.2	.6	.9	.	.	.	.	.
21	.	.	.	0.1	.2	.7	.8	.	.	.	.	.
22	.	.	.	.1	.2	.7	.4	.	.	.	.	.
23	.	.	.	.2	.2	.7	.1	.	.	.	.	.
24	.	.	.	.1	.2	.7	.	.	.	.	.	.
25	.	.	.	.2	.2	.7	.	.	.	.	.	.
26	.	.	.	.1	.2	.7	.	.	.	.	.	.
27	.	.	.	.	.2	.8	.	.	.	.	.	.
28	.	.	.	.	.2	.8	.	.	.	.	.	.
29	.	.	.	.	.	.8	.	.	.	.	.	.
30	.	.	.	.	----	.1	.	.	.	.	.	.
31	.	----	.	.	----	.1	----	.	----	.	.	----

1.0 * 8.5 * 10.3 * 2.5 *

MEAN	----	----	----	.03	.08	.60	.79	----	----	----	----	----
ACRE-FEET				1.8	4.4	36.9	47.0					

YEAR OR PERIOD MEAN .12
ACRE-FEET 90.1

Dalton or Burroughs—August, 1926.

6-72.3

SAN DIMAS CREEK NEAR SAN DIMAS, CALIFORNIA

Location:
In SW¼,NE¼ Sec.25,T.1 N.,R.9 W.at mouth of San Dimas Canyon,3 miles northeast of San Dimas,about 1 mile below Los Angeles [illegible] Flood Control Dam.

Drainage Area:
18.39 square miles.

Elevation:
About 1250 ft. above sea level.

Installed by:
U.S.G.S.Water Resources Branch Nov.8,1916.

Records Available:
From Nov.8,1916 to Sept. 30,1929 at U.S.G.S.

Gage:
Staff gage on recorder house wall (concrete) on east side of stream. Stevens continuous water-stage recorder installed in concrete stilling well just above concrete control.

Discharge Measurements:
Low water measurements made by wading near gage.
High water measurements made from cable car 50' above gage.

Channel and Control:
Channel- sandy bottom,concrete control rebuilt in 1927. Low water flow carried through notch in control,crest of notch is at zero on gage. Datum of gage was changed when control was rebuilt.

Extremes of Discharge:
Maximum 1928-29. 5.5 c.f.s. Feb.2,1929.
Minimum 1928-29. Dry at various times during year.

Diversions:
No diversions above gage.

Regulation:
Flow regulated by discharge from Los Angeles County Flood Control Dam.

Accuracy:
Good.

Cooperation:
Constructed by U.S.G.S. Water Resources Branch. Operated 1927-28,1928-29 by U.S.G.S. in cooperation with Los Angeles County Flood Control District.

San Gabriel River
Whittier Boulevard

Hydrograph of Storm
March 10, 1979

Discharge in Second-Feet

400
350
300
250
200
150
100
50

12 Mid. 1 2 3 4 5 6 7 8 9 10 11 12 Noon 1 2 3 4 5 6 7 8 9 10 11 12 Mid

F. C. Dist.—Form 104—500 -9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 63

Discharge measurements of E. San Gabriel River

at Whittier Blvd. Bridge, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	11-15	H.D.Harting	18	7.80	1.14	.99	8.90		.6		18	0	1/2	655
2	12-3	Cornick&Harting	22	8.04	1.10	1.09	8.84		do		9	.02	do	271 588
3	12-13	Harting& Laird	235	49.8	1.08	1.33	53.8		do		19	.07	do	271 655
4	12-15	H.D.Harting	22	13.7	1.77	1.22	24.2		do		12	0	1/3	do
5	12-28	do	22	12.4	1.58	1.20	19.6		do		15	0	do	do
6	1929 1-5	do	32	10.9	1.61	1.20	17.5		do		21	0	1/2	do
7	1-28	do	Estimated				5.0							
8	2-1	do	Estimated				6.0							
9	2-8	do	24	9.52	1.08	1.17	10.19		do		18	0	1/2	do
10	2-15		Estimated				10.0							
11	2-22		Estimated				12.0							
12	3-1	do	Estimated				4.0							
13	3-8	do	Estimated				8.0							
14	3-10	do Cornick	123	127	2.34	1.72	296.2		do		17	.12	do	do
15	3-10	Harting & Laird	114	90.8	2.35	1.56	212.7		do		20	.05	2/3	do
16	3-15	do	32.5	17.6	1.77	1.28	31.2		do		13	0	1/2	do
17	3-22	do	9.0	3.08	1.95	1.04	5.99		do		10	0	1/3	do
18	4-4	do do	Estimated				10.0							
19	4-12	do	Estimated				2.0							
20	4-19	do	Estimated				1.0							

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 63

Rating table for East San Gabriel River

Whittier Blvd., *from* Oct. 1, 19 28, *to* Sept. 30, 19 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.90	0.00	.4347	1.10	8.70	.4347	1.30	41.00	3.00	1.50	134.5	6.75	1.70	317.0	11.00
.91	.43		.11	9.13		.31	44.00		.51	141.2		.71	328.0	
.92	.87		.12	9.57		.32	47.00	3.675	.52	148.0	7.75	.72	339.0	11.50
.93	1.30		.13	10.00	.45	.33	50.68		.53	155.8		.73	350.5	
.94	1.74		.14	10.45		.34	54.35		.54	163.5		.74	362.0	
.95	2.17		.15	10.90		.35	58.02		.55	171.3		.75	373.5	
.96	2.61		.16	11.35		.36	61.70	4.075	.56	179.0	8.625	.76	385.0	12.25
.97	3.04		.17	11.80	1.73	.37	65.77		.57	187.6		.77	397.2	
.98	3.48		.18	13.53		.38	69.85		.58	196.2		.78	409.5	
.99	3.91		.19	15.27		.39	73.92		.59	204.9		.79	421.8	
1.00	4.35		1.20	17.00	1.975	1.40	78.00	4.975	.60	213.5	9.625	1.80	434.0	
.01	4.78		.21	18.97		.41	82.97		.61	22311				
.02	5.22		.22	20.95		.42	87.95		.62	232.8				
.03	5.65		.23	22.92		.43	92.92		.63	242.4				
.04	6.09		.24	24.90	2.525	.44	97.90	5.775	.64	252.0	10.75			
.05	6.52		.25	27.42		.45	103.7		.65	262.8				
.06	6.96		.26	29.95		.46	109.4		.66	273.5				
.07	7.39		.27	32.48		.47	115.2		.67	284.2				
.08	7.83		.28	35.00	3.00	.48	121.0	6.75	.68	295.0	11.00			
.09	8.26		.29	38.00		.49	127.8		.69	306.0				

The above table is not applicable for obstructed channel conditions. It is based on 15 discharge measurements made during 1928-1929

and is fairly well defined between 5 second-feet and 20 second-feet.

Computed by MAR

Checked by MAR

Date Jan. 9, 1930.

P. C Dist.—Form 105 500 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of S. San Gabriel River

At Whittier Bridge for the Year Ending September 30, 19 29

Drainage Area 380 Square Miles. [Av. continuous Water Stage recorder Observer.]

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	A
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		Gage height
1	Dry	0.00	Dry	0.00	.88	Dry	1.19	15.27	1.14	10.45	Intakeclosed		1	Dry
2	"	"	"	"	.60	Dry	1.19	15.27	1.22	20.95	"	"	2	"
3	"	"	"	"	.99	3.91	1.20	17.00	1.20	17.00	"	"	3	" 10hr
4	"	"	"	"	1.12	9.57	1.18	13.53	1.12	9.57	"	"	4	1.17
5	"	"	"	"	1.09	8.26	1.19	15.27	1.13	10.00	"	"	5	1.30
6	"	"	"	"	1.08	7.83	1.16	11.35	1.14	10.45	"	"	6	1.22
7	"	"	"	"	1.03	5.65	1.15	10.90	1.15	10.90	"	"	7	1.22
8	"	"	"	"	.95	2.17	1.15	10.90	1.15	10.90	"	"	8	1.00
9	"	"	"	"	.98	3.48	1.08	7.83	1.15	10.90	"	"	9	Inta
10	"	"	"	"	1.00	4.35	Dry	0	1.15	10.90	H	92.73	10	"
11	"	"	"	"	1.03	5.65	"	0	1.15	10.90	1.38	69.85	11	"
12	"	"	"	"	1.03	5.65	"	0	1.17	11.80	1.25	27.42	12	"
13	"	"	"	"	1.23	22.92	"	0	1.15	10.90	1.23	22.92	13	"
14	"	"	5 hrs 1.08	1.63	1.23	22.92	"	0	1.13	10.00	1.20	17.00	14	"
15	"	"	.98	3.48	1.21	18.97	"	0	1.15	10.90	1.27	32.48	15	"
16	"	"	.99	3.91	1.21	18.97	"	0	1.12	9.57	1.27	32.48	16	"
17	"	"	1.08	7.83	1.20	17.00	"	0	1.14	10.45	1.26	29.95	17	"
18	"	"	1.00	4.35	1.18	13.53	"	0	1.16	11.35	1.26	29.95	18	"
19	"	"	.92	.87	1.18	13.53	"	0	1.17	11.80	1.28	35.00	19	"
20	"	"	.93	1.30	1.17	11.80	"	0	1.17	11.80	1.27	32.48	20	"
21	"	"	.90	0	1.17	11.80	"	0	1.18	13.53	1.25	27.42	21	"
22	"	"	.96	2.61	1.16	11.35	"	0	1.18	13.53	1.02	5.22	22	"
23	"	"	.98	3.48	1.16	11.35	"	0	1.18	13.53	.45	0	23	Dry
24	"	"	.98	3.48	1.16	11.35	.93	1.30	1.18	13.53	Dry	0	24	"
25	"	"	.97	3.04	1.17	11.80	1.08	7.83	1.20	17.00	"	0	25	"
26	"	"	.98	3.48	1.19	15.27	1.06	6.96	1.10	8.70	"	0	26	"
27	"	"	1.00	4.35	1.19	15.27	1.07	7.39	1.00	4.35	"	0	27	"
28	"	"	.99	3.91	1.20	17.00	1.08	7.83	.75	0	"	0	28	"
29	"	"	.99	3.91	1.20	17100	1.08	7.83	-	-	"	0	29	"
30	"	"	.99	3.91	1.19	15.27	1.08	7.83	-	-	"	0	30	"
31	"	"	-	-	1.18	13.53	1.09	8.26	-	-	"	0	31	-
TOTAL,		0		55.54		347.15		172.55		315.66		454.90		
Daily Discharge in second-feet		0		1.85		11.20		5.58		11.25		14.65		
second-feet per square mile														
, depth in inches														
in acre-feet		0		110.16		688.57		342.25		626.11		902.29		
m Mean Daily harge in Second-feet		Dry		7.83		22.92		17.00		20.95		92.73		
n Mean Daily harge in Second-feet		Dry		Dry		Dry		Dry		Dry		Dry		

...imum stage ... Dry ... feet at Various times during ... year ... second-feet.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 63

Gage Read to Continuous ~~XXX~~ a Day. Used rating table dated Jan. 9, 1930.

DAY	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	0	Dry	0	Dry	0	Dry	0	Dry	0	Dry	0
2	0	"	0	"	0	"	0	"	0	"	0
3	0	"	0	"	0	"	0	"	0	"	0
4	4.92	"	0	"	0	"	0	"	0	"	0
5	41.00	"	0	"	0	"	0	"	0	"	0
6	20.95	"	0	"	0	"	0	"	0	"	0
7	20.95	"	0	"	0	"	0	"	0	"	0
8	4.35	"	0	"	0	"	0	"	0	"	0
9	e closed	"	0	"	0	"	0	"	0	"	0
10	0	"	0	"	0	"	0	"	0	"	0
11	0	"	0	"	0	"	0	"	0	"	0
12	0	"	0	"	0	"	0	"	0	"	0
13	0	"	0	"	0	"	0	"	0	"	0
14	0	"	0	"	0	"	0	"	0	"	0
15	0	"	0	"	0	"	0	"	0	"	0
16	0	"	0	"	0	"	0	"	0	"	0
17	0	"	0	"	0	"	0	"	0	"	0
18	0	"	0	"	0	"	0	"	0	"	0
19	0	"	0	"	0	"	0	"	0	"	9
20	0	"	0	"	0	"	0	"	0	"	0
21	0	"	0	"	9	"	0	"	0	"	0
22	0	"	0	"	0	"	0	"	0	"	0
23	0	"	0	"	0	"	0	"	0	"	0
24	0	"	0	"	0	"	0	"	0	"	0
25	0	"	0	"	0	"	0	"	0	"	0
26	0	"	0	"	0	"	0	"	0	"	0
27	0	"	0	"	0	"	0	"	0	"	0
28	0	"	0	"	0	"	0	"	0	"	0
29	0	"	0	"	0	"	0	"	0	"	0
30	0	"	0	"	0	"	0	"	0	"	0
31	-	"	0	-	-	"	0	"	0	"	-
	92.17		0		0		0		0		0
	3.07		0		0		0		0		0
	182.82		0		0		0		0		0
	41.00		Dry		Dry		Dry		Dry		Dry
	Dry		"		"		"		"		"

Quarter: First | Second | Third | Fourth
Computed: MAR | MAR | MAR | MAR
Checked: MAR | MAR | MAR | MAR
Date: Jan. 11, 1930

Quarter: First | Second | Third | Fourth
G. H. Copied: MAR | MAR | MAR | MAR
G. H. checked: MAR | MAR | MAR | MAR
Date: Jan. 10, 1930

Quarter: First | Second | Third | Fourth
Disch. applied: MAR | MAR | MAR | MAR
Disch. checked: MAR | MAR | MAR | MAR
Date: Jan. 9, 1930

~~XXXXXX~~ YEAR: 1437.97 | 2852.20

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 63

Monthly discharge of N. San Gabriel River

at Whittier Blvd. Bridge for the year ending Sept. 30, 19 29

(Drainage area 386 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	Dry	Dry	Dry			0	
November	7.83	Dry	1.85			110.16	
December	22.92	Dry	11.20			688.57	
January	17.00	Dry	5.58			342.25	
February	20.95	Dry	11.25			626.11	
March	92.73	Dry	14.65			902.29	
April	41.00	Dry	3.07			182.82	
May	Dry	Dry	Dry			0	
June	Dry	Dry	Dry			0	
July	Dry	Dry	Dry			0	
August	Dry	Dry	Dry			0	
September	Dry	Dry	Dry			0	
The year						2852.20	

NOTE:

SAN JOSE CREEK - WORKMAN-MILL ROAD

Location:
On highway bridge crossing San Jose Creek at Workman-Mill Road about 1 mile north of Whittier, Los Angeles County, California.

Drainage Area:
74.9 square miles.

Installed by:
Los Angeles County Flood Control District Jan.2,'29. Cable station established by Division of Water Rights, State of California 1923-'24 about 2000' above Workman-Mill Road.

Records Available:
Previous to Jan.2,'29 in D.W.R.Bulletins.
Jan.2,1929 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
An continuous water stage recorder installed in wooden shelter house on corrugated iron stilling well on downstream side of bridge pier. Vertical staff gage set on bridge pier near stilling well.

Discharge Measurements:
High water flows are measured from cable station 2000' above bridge. Low water flows by wading near gage.

Channel and Control:
Channel - Sand and silt, shifting slightly.
Control - none.

[illegible] of Discharge:
Maximum 1929 77 c.f.s. March 10,1929
Minimum 1929 Dry at various times during year.

Diversions:
None above gage.

Regulation:
None.

Accuracy:
Good.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch.

San Jose Creek
Workman Mill Road

Hydrograph of Storm
March 10, 1929

Discharge in Second-Feet

80
70
60
50
40
30
20
10

12 Mid. 1 2 3 4 5 6 7 8 9 10 11 12 Noon 1 2 3 4 5 6 7 8 9 10 11 12 Mid

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 48

Discharge measurements of San Jose Creek

at Workman-Mill Road, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet D.W.R.	Sec.-ft.							271
1	12-13	Harting & Laird	13	18.6	0.56	1.94	10.4		.6		9	-.03	1/4	655
	1929													
2	2/18	do	19.5	14.9	1.15	1.93	17.22		do		8	+.15	1/3	do
3	3/10	do	12.0	22.65	1.89	2.33	44.95		do		7	-.02	1/3	do
4	4/4/	do	3.0	1.51	.78	1.78	1.18		do		6	0	1/6	do
5	4/4	do	3.0	20.89	.61	2.13	12.65		do		15	+.02	1/3	do
6	4/26	H. D. Harting	2.5	.47	.64	1.76	00.30		do		5	0	1/6	do
7	5/3	do	2.0	.37	.46	1.73	0.17		do		4	0	1/6	do
														271
8	5/17	Brewster & Harting	2.0	.46	.33	1.75	0.15		do		4	0	1/6	666
9	5/24	C. L. Brewster	2.0	.50	.56	1.78	0.28		do		4	0	1/6	do
10	5/31	do	2.0	.24	.42	1.58	0.10		do		4	0	1/6	do
11	6/7	do	1.0	.14	.43	1.52	0.06		do		3	0	1/6	do
12	6/14	do	2.0	.34	.47	1.66	0.16		do		4	0	1/6	do
13	6/21	do	2.0	.29	.24	1.57	0.07		do		4	0	1/6	do
14	6/28	do	2.0	.32	.44	1.54	0.14		do		4	0	1/6	do
15	7/5	do	2.0	.33	.64	1.58	0.21		do		4	0	1/6	do
16	7/12	do	2.0	.28	.36	1.58	0.10		do		4	0	1/6	do
17	7/19	do	2.0	.22	.36	1.60	0.08		do		4	0	1/6	do
18	7/26	do	2.0	.26	.38	1.64	0.10		do		4	0	1/6	do
19	8/2	do	1.4	.14	.43	1.61	0.06		do		3	0	1/6	do
20	8/16	do	1.5	.11	.18	1.52	.02		do		3	0	1/6	do
21	8/23	do	1.5	.17	.29	1.52	.05		do		3	0	1/6	do
22	9/20	do	2.0	.65	.80	1.66	.52		do		4	0	1/6	do
23	9/27	do	3.5	1.25	.61	1.70	.76		do		4	0	1/5	do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 48

Rating table for San Jose Creek

Workman-Mill Road, *from* Jan. 2., 19 29, *to* Sept. 30, 1929

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
1.40	0.00		1.80	1.42		2.20	32.70		2.60	71.29				
		.0178			.47			.915						
.42	.04		.82	2.36		.22	34.53		.62	73.25				
.44	.07		.84	3.30		.24	36.36		.64	75.22				
					.61			.925						
.46	.11		.86	4.52		.26	38.21		.66	77.19				
.48	.14		.88	5.75		.28	40.06		.68	79.15				
					.74			.94						
1.50	.18		1.90	7.22		2.30	41.94		2.70	81.12				
.52	.21		.92	8.70		.32	43.82							
					.80			.97						
.54	.25		.94	10.30		.34	45.76							
.56	.29		.96	11.90		.36	47.70							
					.83			.98						
.58	.32		.98	13.56		.38	49.66							
1.60	.36		2.00	15.22		2.40	51.62							
					.87			.983						
.62	.39		.02	16.96		.42	53.59							
.64	.43		.04	18.70		.44	55.55							
.66	.46		.06	20.44		.46	57.52							
.68	.50		.08	22.18		.48	59.49							
		.018												
1.70	.54		2.10	23.92		2.50	61.45							
.72	.57		.12	25.66		.52	63.42							
.74	.61		.14	27.40		.54	65.39							
.76	.64		.16	29.14		.56	67.35							
					.89									
.78	.68		.18	30.92		.58	69.32							
		.37												

The above table is not applicable for obstructed channel conditions. It is based on 23 discharge measurements made during Dec. 13, 1928 to Sept. 30, 1929

and is not well defined between ..... second-feet and ..... second-feet.

14 Estimates of flow were used in forming the rating curve

Computed by MAR

Checked by CLB

Recorder installed Jan. 2, 1929.

Date July 12, 1929

P. C. Dist. - Form 105 - 500 - 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of San Jose Creek

At Workman-Mill Road for the Year Ending September 30, 1929

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 48

Drainage Area 74.9 Square Miles. [Au. continuous water stage recorder Observer.] Gage Read to Continuous a Day. Used rating table dated July 12, 1929

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY
1							-	-	1.78	0.68	1.68	0.50	1
2			Recorder		Installed		1.58	0.32	1.89	6.49	1.69	.52	2
3							1.61	.38	1.83	2.83	1.70	.54	3
4							1.63	.41	1.73	.59	1.70	.54	4
5							1.63	.41	1.71	.55	1.72	.57	5
6							1.64	.43	1.69	.52	1.72	.57	6
7							1.65	.44	1.68	.50	1.73	.59	7
8							1.64	.43	1.68	.50	1.72	.57	8
9							1.65	.45	1.69	.52	1.73	.59	9
10							1.65	.44	1.69	.52	H	34.83	10
11							1.65	.45	1.70	.54	1.85	3.91	11
12							1.65	.44	1.70	.54	1.83	2.83	12
13							1.66	.46	1.70	.54	1.78	.68	13
14							1.64	.43	1.71	.55	1.80	1.42	14
15							1.64	.43	1.69	.52	1.80	1.42	15
16							1.72	.57	1.65	.44	1.79	1.05	16
17							1.71	.55	1.64	.43	1.78	.68	17
18							1.64	.43	H	5.07	1.78	.68	18
19							1.64	.43	1.83	2.83	1.78	.68	19
20							1.66	.46	1.71	.55	1.78	.68	20
21							1.76	.64	1.69	.52	1.77	.66	21
22							1.67	.48	1.69	.52	1.78	.68	22
23							1.66	.46	1.69	.52	1.79	1.05	23
24							1.66	.46	1.69	.52	1.79	1.05	24
25							1.66	.46	1.69	.52	1.79	1.05	25
26							1.67	.48	1.69	.52	1.79	1.05	26
27							1.67	.48	1.68	.50	1.78	.68	27
28							1.68	.50	1.68	.50	1.79	1.05	28
29							1.68	.50	-	-	1.79	1.05	29
30							1.67	.48	-	-	1.80	1.42	30
31							1.71	.56	-	-	1.79	1.05	31
TOTAL,								13.86Inc		29.83		64.64	
an Daily Discharge in Second-feet								.46		1.07		2.08	
ond-feet per square mile													
-off, depth in inches													
-off in acre-feet								27.49		59.17		128.20	
imum Mean Daily Discharge in Second-feet								.64		6.49		34.83	
imum Mean Daily Discharge in Second-feet								.32		.43		.50	

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1	1.79	1.05	1.56	0.29	1.48	0.14	-	dry	-	Dry	1.59	0.34	1
2	1.76	.64	1.54	.25	1.47	.12	-	do	1.45	0.09	1.59	.34	2
3	1.77	.66	1.53	.23	1.46	.11	1.57	0.30	1.45	.09	1.60	.36	3
4	1.83	2.83	1.57	.30	1.47	.12	1.55	.27	1.46	.11	1.60	.36	4
5	1.74	.61	1.60	.36	1.47	.13	1.52	.21	1.42	.04	I1.62	.39	5
6	1.61	.38	1.62	.39	1.46	.11	1.50	.18	-	Dry	I1.62	.39	6
7	1.57	.30	1.64	.43	1.47	.12	1.51	.19	-	do	I1.62	.39	7
8	1.55	.27	1.62	.39	1.50	.18	1.51	.20	-	do	I1.63	.41	8
9	1.55	.27	1.62	.39	1.52	.21	1.47	.12	-	do	I1.63	.41	9
10	1.54	.25	1.60	.36	1.52	.21	1.44	.07	-	do	I1.64	.43	10
11	1.54	.25	1.58	.32	1.49	.16	1.48	.14	-	do	I1.64	.43	11
12	1.52	.21	1.57	.31	1.49	.16	1.47	.12	-	do	I1.64	.43	12
13	1.50	.18	1.56	.29	1.51	.19	I1.47	.13	-	do	I1.65	.44	13
14	1.51	.20	1.53	.23	1.52	.21	I1.47	.12	-	do	I1.65	.45	14
15	1.51	.19	1.52	.21	1.57	.30	I1.46	.11	1.41	0.02	I1.66	.46	15
16	1.51	.19	1.51	.20	1.60	.36	I1.47	.13	1.42	.04	I1.66	.46	16
17	1.51	.20	1.50	.18	1.59	.34	I1.46	.11	1.42	.04	I1.67	.48	17
18	1.54	.25	1.54	.25	1.55	.27	I1.46	.11	1.43	.05	I1.68	.50	18
19	1.57	.30	1.57	.30	1.51	.19	1.46	.11	1.43	.06	I1.69	.52	19
20	1.55	.27	1.59	.34	1.49	.16	1.47	.13	1.43	.05	I1.69	.52	20
21	1.54	.25	1.56	.29	1.47	.12	1.47	.12	1.44	.07	I1.73	.59	21
22	1.53	.23	1.58	.32	1.50	.18	1.48	.14	1.44	.07	I1.71	.56	22
23	1.54	.25	1.61	.37	1.49	.16	1.48	.14	1.48	.14	I1.69	.52	23
24	1.58	.32	1.60	.36	1.49	.16	1.45	.09	1.55	.27	I1.66	.46	24
25	1.58	.32	1.56	.29	1.47	.12	1.44	.07	1.55	.27	I1.73	.59	25
26	1.58	.32	1.54	.25	1.49	.16	1.45	.09	1.55	.27	I1.77	.66	26
27	1.58	.32	1.52	.21	1.48	.14	1.44	.07	1.56	.29	I1.77	.66	27
28	1.57	.30	1.49	.16	1.48	.14	1.45	.09	1.57	.30	I1.78	.68	28
29	1.56	.29	1.49	.16	1.45	.09	1.46	.11	1.57	.31	I1.76	.64	29
30	1.58	.32	1.50	.18	1.43	.06	1.45	.09	1.58	.32	I1.72	.57	30
31	-	-	1.48	.14	-	-	1.45	.09	1.58	.32	-	-	31
TOTAL,		12.42		8.75		5.12		3.85		3.22		14.44	156.13
an Daily Discharge in Second-feet		.41		.28		.17		.12		.10		.48	
ond-feet per square mile													
-off, depth in inches													
-off in acre-feet		24.64		17.35		10.16		7.64		6.39		28.64	309.68
imum Mean Daily Discharge in Second-feet		2.83		.43		.36		.30		.32		.68	
imum Mean Daily Discharge in Second-feet		.18		.14		.06		Dry		Dry		.34	

Minimum stage Dry feet at various times during xxxxx year

	Fourth	Third	Second	First	Quarter
Computed	MAR	MAR	MAR	MAR	Jan. 9, 1929
Checked	MAR	MAR	MAR	MAR	
Date	MAR	MAR	MAR	MAR	
Fourth	MAR	CLB	CLB	CLB	
Third	MAR	CLB	CLB	CLB	
Second	MAR	CLB	CLB	CLB	
First	MAR	CLB	CLB	CLB	
Quarter	CLB	CLB	CLB	CLB	Oct. 6, 1929
Diach. applied					
Diach. checked					
Date					
Fourth	MAR	MAR	MAR	MAR	
Third	MAR	MAR	MAR	MAR	
Second	MAR	MAR	MAR	MAR	
First	MAR	MAR	MAR	MAR	
Quarter	CLB	CLB	CLB	CLB	Oct. 6, 1929
G. H. Copied					
G. H. checked					
Date					

PERIOD xxxx

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 48

Monthly discharge of San Jose Creek

at Workman-Mill Road for the year ending Sept. 30, 1929

(Drainage area 74.9 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October		Not installed					
November		Not installed					
December		Not installed					
January Inst. Jan. 2	.64	.32	.46			27.49	
February	6.49	.43	1.07			59.17	
March	34.83	.50	2.08			128.20	
April	2.83	.18	.41			24.64	
May	.43	.14	.28			17.35	
June	.36	.06	.17			10.16	
July	.30	Dry	.12			7.64	
August	.32	Dry	.10			6.39	
September	.68	.34	.48			28.64	
The period						309.68	

NOTE:

Recorder installed Jan. 2, 1929.

RIO HONDO RIVER - MISSION BRIDGE

Location:
On high bank, west side of stream approximately 1000' above the Mission Bridge, Montebello Oil Fields, 2 miles northeast of Montebello, Los Angeles County, California.

Drainage Area:
120 square miles. (Approximate)

Installed by:
Los Angeles County Flood Control District July 1928.
Originally installed by the D.W.R. in 1923-1924

Records Available:
July 1928 to Sept.30,1929 at L.A.F.C.D.
See State D.W.R. Bulletins for records prior to this date.

Gage:
An continuous water stage recorder installed in wooden shelter house. Stilling well with wooden staff gage attached. Vertical metal staff gage attached to stilling well.

Discharge Measurements:
High water measurements from cable 50' below recorder.
Low water measurements from wading near recorder.

Channel and Control:
Shifting sand channel.
No control.

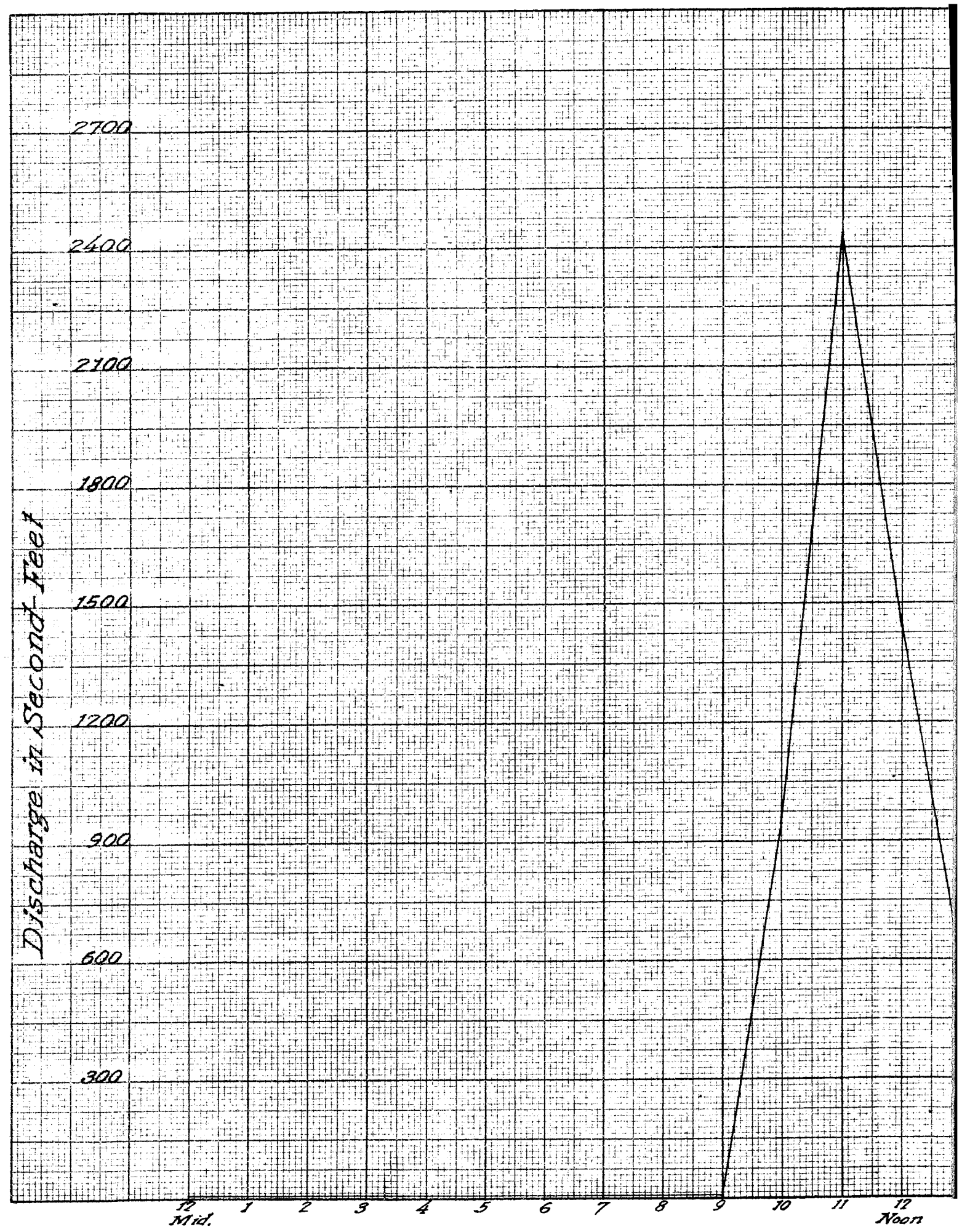
Extremes of Discharge:
Maximum 1928-'29 2400 c.f.s. Nov.14,1928.
Minimum 1928-'29 6.23 c.f.s. Aug.23,1929.

Diversions:
None above gage.

Regulation:
None.

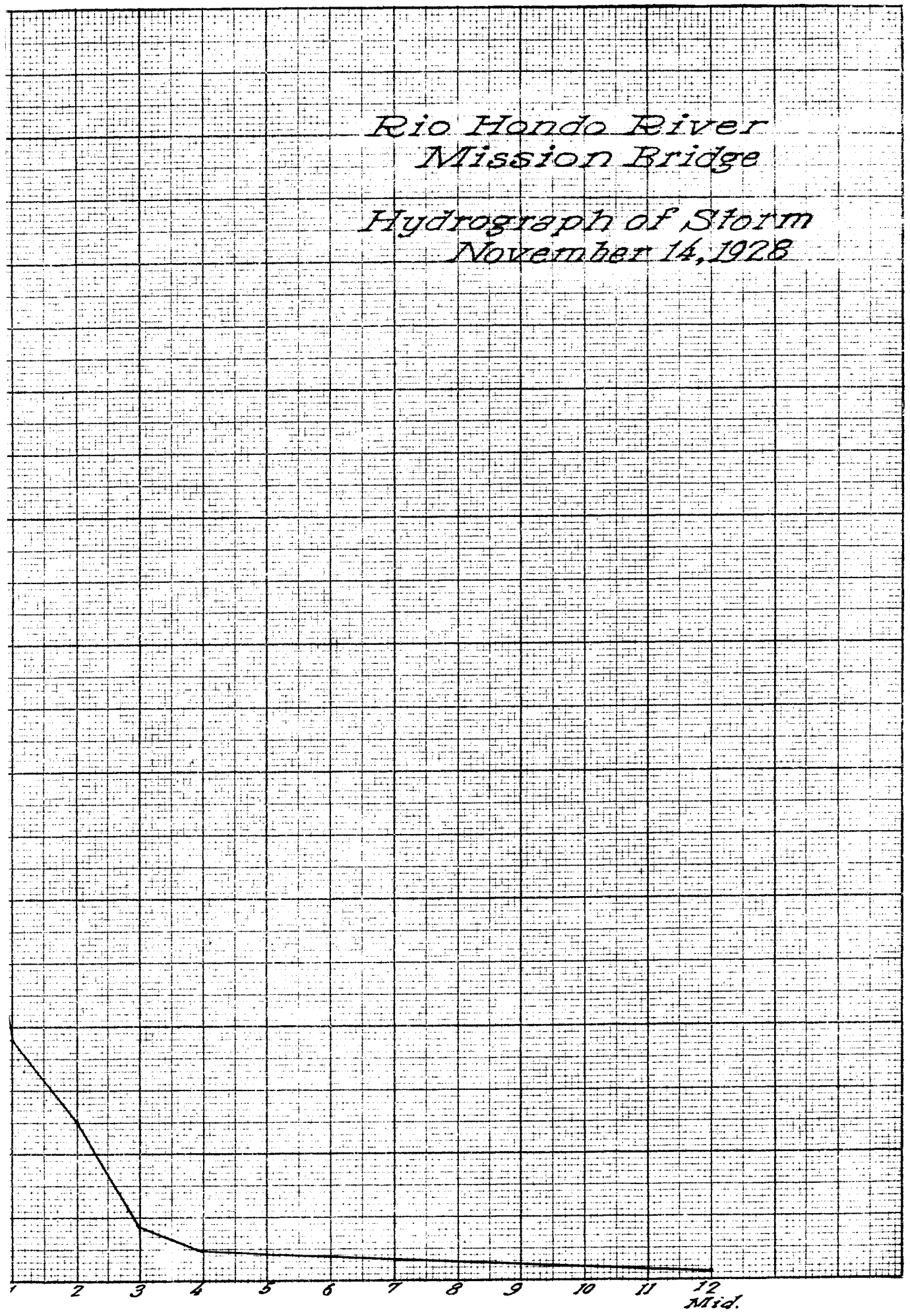
Accuracy:
Fair.

Cooperation:
Operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch.


2700
2400
2100
1800
1500
1200
900
600
300
Discharge in Second-Feet
12 Mid.
1
2
3
4
5
6
7
8
9
10
11
12 Noon

Rio Hondo River
Mission Bridge

Hydrograph of Storm
November 14, 1928



F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 64

Discharge measurements of Rio Hondo River ~~Creek~~

at ~~Near~~ Mission Bridge, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	10-2	H.D.Harting	15	7.44	1.61	-	12.0		.6		14	-	2/3	655
2	10-15	do	15.5	8.62	1.46	-	12.6		do		13	-	1/2	do
3	11-1	do	16.6	8.99	1.46	-	13.1		do		18	-	1/3	do
4	12-1	do	31.5	12.6	1.20	1.08	15.1		do		19	0.	1/2	do
5	12-3	Harting & Laird	55	43.2	1.60	1.76	68.9		do		13	.21	1	do
6	12-13	do do	54	57.9	1.04	1.44	60.1		do		11	.08	3/4	do
7	12-15	do	41	14.7	1.33	1.26	19.6		do		18	.01	1/2	do
8	12-28	do	41.5	15.1	1.09	1.20	16.5		do		19	0	2/3	do
9	1-5	do	40	13.0	1.18	1.24	15.4		do		21	0	1/2	do
10	1-12	do	40	10.8	1.20	1.24	13.0		do		19	0	1/2	do
11	1-20	Harting & Laird	94	74.4	3.76	1.95	280		do		18	.34	3/4	do
12	1-28	do	39.5	14.0	1.23	1.25	17.2		do		22	0	1/2	do
13	2-1	Estimate				1.74	160							
14	2-8	H.D.Harting	40	14.1	1.29	1.32	18.1		do		19	0	1/3	do
15	2-15	do	40	14.1	1.15	1.28	16.2		do		19	0	1/2	do
16	2-18	Harting & Cornick	107	110	3.51	2.01	387		do		9	.11	do	do
17	2-18	do & Laird	65	51.7	2.11	1.80	109		do		14	.12	3/4	do
18	2-22	do	40	13.0	1.22	1.20	15.9		do		17	0	1/4	do
19	3-1	do	38	12.2	1.18	1.24	14.4		do		17	0	1/2	do
20	3/8	do	39	13.4	1.23	1.25	16.4		do		16	0	1/3	do
21	3-10	Harting & Laird	68	91.6	2.74	2.04	251		do		10	.04	1/2	do
22	3-11	do	60	52.2	2.85	1.85	149		do		9	.04	1/2	do
23	3-15	do	41	16.9	1.15	1.34	19.4		do		19	0	1/2	do
24	3-22	do	39	13.8	1.33	1.40	18.4		do		12	.01	1/3	do
25	3-29	do	39	13.9	1.17	1.36	16.3		do		17	0	1/2	do
26	4-4	Harting & Laird	140	117	3.05	2.48	553		do		11	.44	1/2	do
27	4-12	do	25	11.0	1.71	1.48	18.9		do		11	0	1/4	do

F. C. Dist. Form 104 --500 --9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 64

Discharge measurements of Rio Hondo River ~~Creek~~

at ~~mouth~~ Mission Bridge, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
28	4-19	H.D.Harting	24	9.97	1.49	1.48	14.8		.6		11	0	1/4	655
29	4-26	do	22	9.83	1.54	1.45	15.1		do		11	0	do	do
30	5-3	do	28	9.90	1.38	1.44	13.7		do		17	0	1/2	do
31	5-10	do	27	10.6	1.36	1.48	14.4		do		18	0	do	do
32	5-17	Brewster & Harting	28	9.49	1.16	1.48	10.9		do		16	0	1/4	271 666
33	5-24	do	22	7.60	1.31	1.48	9.93		do		16	0	do	do
34	5-31	do	34	8.21	1.05	1.47	8.62		do		14	0	1/3	do
35	6-7	do	35	10.1	1.16	1.46	11.7		do		18	0	1/2	do
36	6-14	do	31	8.11	1.18	1.45	9.53		do		19	0	do	do
37	6-21	do	30.8	8.50	1.17	1.44	9.97		do		16	0	1/4	do
38	6-28	do	32.5	7.79	1.12	1.44	8.78		do		10	0	1/3	do
39	7-5	do	30	7.62	1.16	1.45	8.85		do		14	0	1/3	do
40	7-12	do	36.8	7.66	.88	1.40	6.71		do		19	0	1/2	do
41	7-19	do	29	7.71	1.05	1.40	8.06		do		16	0	do	do
42	7-26	do	27	7.19	1.16	1.42	8.34		do		14	0	do	do
43	8-2	do	30.5	7.07	.96	1.42	6.81		do		17	0	1/4	do
44	8-16	do	24	6.70	1.05	1.40	7.04		do		12	0	1/3	do
45	8-23	do	29	5.67	1.10	1.41	6.23		do		15	0	1/2	do
46	9-18	do Harting	56	45.6	1.56	1.93	71.0		do		17	.03	do	271 655
47	9-20	C.L.Brewster	34	16.6	1.34	1.60	22.3		do		9	0	1/3	271 666
48	9-27	do	32	8.16	.96	1.42	7.81		do		9	0	1/2	do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

High Water

File No. 64

Rating table for Rio Hondo River

Mission Bridge, *from* Oct. 1, 19 28, *to* Sept. 30, 19 29

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
1.00	0.00		1.40	12.0		1.80	98.0		2.20	449		2.60	946	12.417645
.02	.60	.30	.42	12.6	.30	.82	108	5.20	.22	474	12.4	.62	970	
.04	1.2		.44	13.2		.84	119		.24	499		.64	995	
.06	1.8		.46	13.8		.86	129		.26	523		.66	1020	
.08	2.4		.48	14.4		.88	140		.28	548		.68	1045	
1.10	3.0		1.50	15.0	1.96	1.90	150	7.70	2.30	573	12.41 7645	2.70	1070	
.12	3. 6		.52	18.9		.92	165		.32	598		.72	1095	
.14	4.2		.54	22.8		.94	181		.34	623		.74	1119	
.16	4.8		.56	26.8		.96	196		.36	648		.76	1144	
.18	5.4		.58	30.7		.98	212		.38	672		.78	1169	
1.20	6.0		1.60	34.6	2.66	2.00	227	10.30	2.40	697		2.80	1194	
.22	6.6		.62	39.9		.02	248		.42	722		.82	1219	
.24	7.2		.64	45.2		.04	268		.44	747		.84	1244	
.26	7.8		.66	50.6		.06	289		.46	772		.86	1268	
.28	8.4		.68	55.9		.08	309		.48	797		.88	1293	
1.30	9.0		1.70	61.2	3.68	2.10	330	11.90	2.50	821		2.90	1318	
.32	9.6		.72	68.6		.12	354		.52	846		.92	1343	
.34	10.2		.74	75.9		.14	378		.54	871		.94	1368	
.36	10.8		.76	83.3		.16	401		.56	896		.96	1393	
.38	11.4		.78	90.6		.18	425		.58	921		.98	1417	

The above table is not applicable for obstructed channel conditions. It is based on 48 discharge measurements made during 1928-1929

and is not well defined between second-feet and second-feet.

Curve extended in a straight line above gage height of 2.25 to meet estimated discharge

Computed by MAR

Checked by MAR

Date Jan. 12, 1930

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 64

Rating table for Rio Hondo River

Mission Bridge, *from* Oct. 1, 19 28, *to* Sept. 30, 19 29.

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
3.00	1442		3.40	1939		3.80	2436							
.02	1467	12,417 / 645	.42	1964		.82	2460							
.04	1492		.44	1989		.84	2485							
.06	1517		.46	2013		.86	2510							
.08	1542		.48	2038		.88	2535							
3.10	1566		3.50	2063		3.90	2560							
.12	1591		.52	2088		.92	2585							
.14	1616		.54	2113		.94	2609							
.16	1641		.56	2138		.96	2634							
.18	1666		.58	2162		.98	2659							
3.20	1691		3.60	2187		4.00	2684							
.22	1715		.62	2212										
.24	1740		.64	2237										
.26	1765		.66	2262										
.28	1790		.68	2287										
3.30	1815		3.70	2311										
.32	1840		.72	2336										
.34	1864		.74	2361										
.36	1889		.76	2386										
.38	1914		.78	2411										

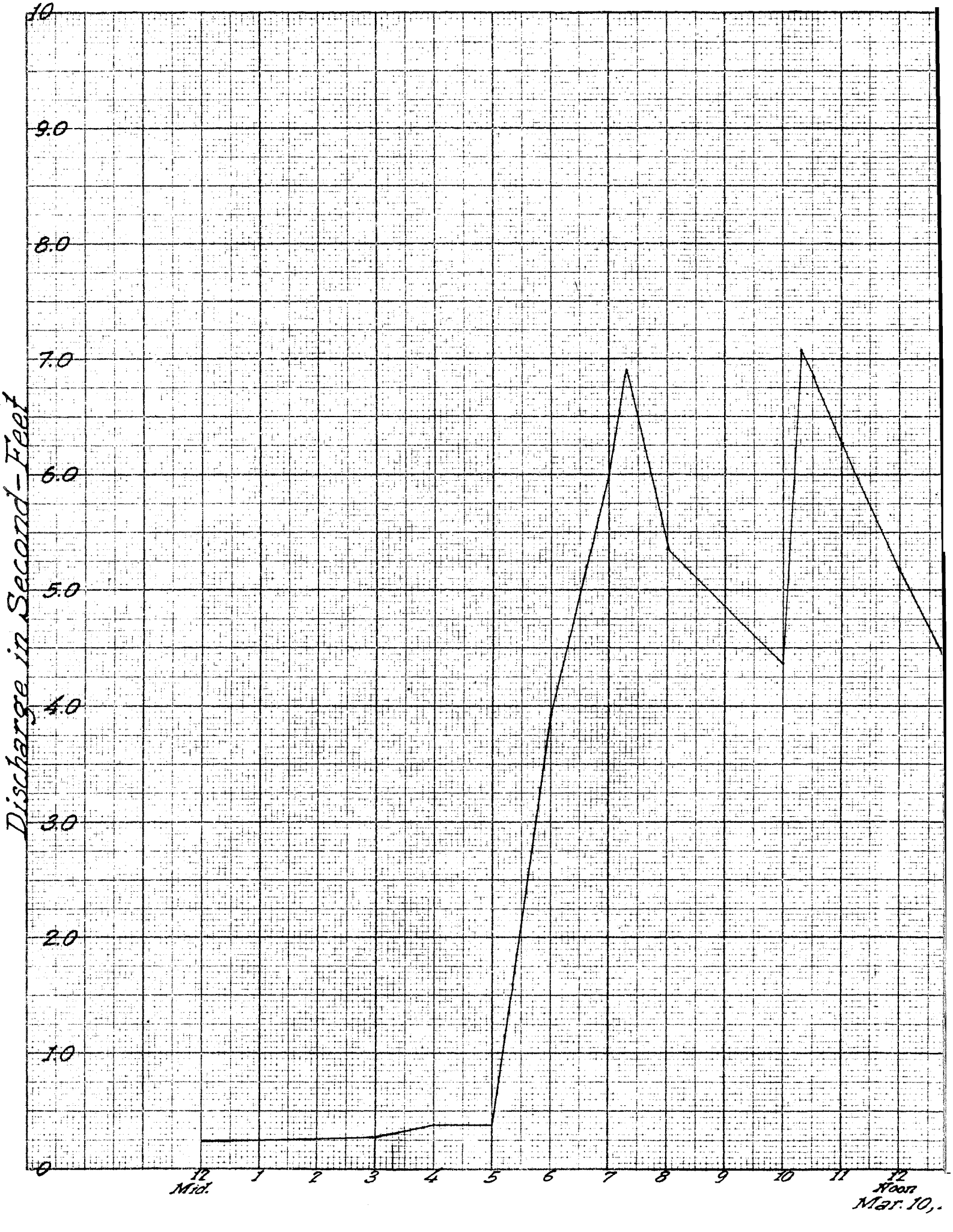
The above table is not applicable for obstructed channel conditions. It is based on 48 discharge measurements made during 1928-1929

and is not well defined between ..... second-feet and ..... second-feet.

Computed by MAR

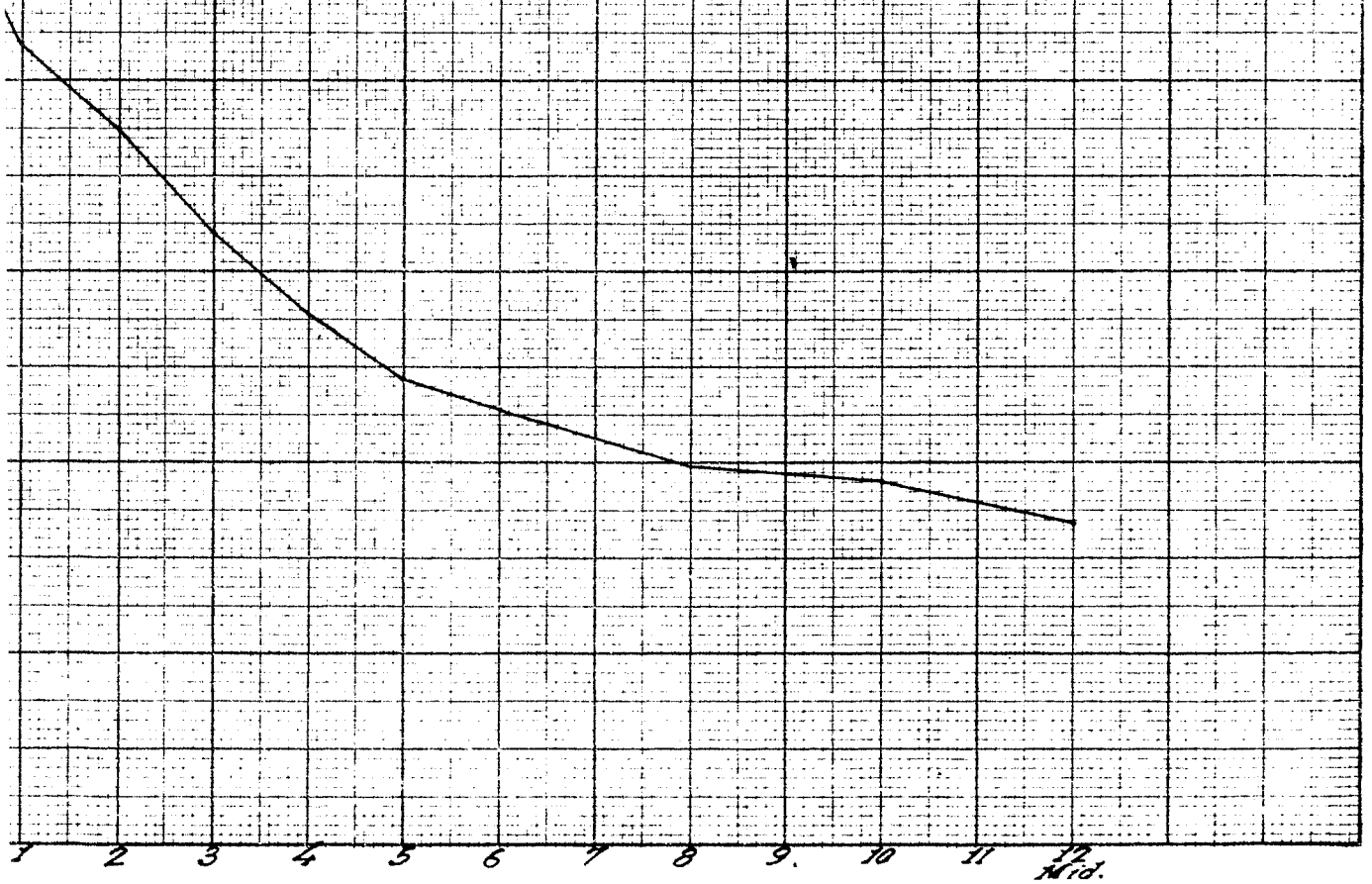
Checked by MAR

Date Jan. 12, 1930


Discharge in Second-Feet
10
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0
12 Mid.
1
2
3
4
5
6
7
8
9
10
11
12 Noon
Mar. 10,

Monrovia Creek
Flood Control Station

Hydrograph of Storm
March 10, 1929



929

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Discharge measurements of Monrovia ~~XXXXX~~ Creek

~~XX~~ Flood Control Station ~~XXXX~~, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	12-13	R.P.Dalton	2.3	.53	.85	.20	.45		.6		4	0	1/12	647
2	12-14	do	2.0	.38	.53	.12	.20		do		4	0	do	do
3	12-21	do	1.5	.25	.24	.10	.06		do		3	0	do	do
4	1929 3-1	do	1.0	.30	.23	.10	.07		do		2	0	do	do
5	3-10	F.C.Ebert	6.8	3.40	.76	.52	2.60		do		12	0	1/3	27-214
6	3-11	R.P.Dalton	3.8	1.19	.93	.30	1.11		do		7	0	1/4	271 647
7	3-13	do	3.4	.76	.41	.17	.31		do		6	0	1/12	do
8	3-19	do	1.5	.36	.33	.12	.12		do		3	0	do	do
9	3-23	do	1.0	.24	.50	.10	.12		do		2	0	do	do
10	4-4	do	1.4	.24	.75	.15	.18		do		3	0	do	do
11	4-4	do	4.0	1.22	1.00	.36	1.23		do		8	0	do	do
12	4-19	do	1.0	.20	.60	.10	.12		do		2	0	do	do
13	4-26	do	1.0	.20	.50	.10	.10		do		2	0	do	do
14	5-3	do	1.0	.20	.40	.08	.08		do		1	0	do	do
15	5-18	do	.70	.14	.29	.07	.04		do		1	0	do	do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Rating table for Monrovia Creek

Above Sawpit Creek, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
0	0		0.20	.42		0.40	1.68		0.60	3.30		0.80	5.10	
		.005						0.75			.09			.09
.01	.01		.21	.46		.41	1.75		.61	3.39		.81	5.19	
					.05									
.02	.01		.22	.51		.42	1.83		.62	3.48		.82	5.28	
.03	.02		.23	.56		.43	1.90		.63	3.57		.83	5.37	
		.01												
.04	.02		.24	.61		.44	1.98		.64	3.66		.84	5.46	
.05	.03		.25	.66	.06	.45	2.05		.65	3.75		.85	5.55	
.06	.04		.26	.72		.46	2.13		.66	3.84		.86	5.64	
.07	.05		.27	.78		.47	2.20		.67	3.93		.87	5.73	
		.02						.08						
.08	.06		.28	.84		.48	2.28		.68	4.02		.88	5.82	
.09	.08		.29	.90	.07	.49	2.36		.69	4.11		.89	5.91	
0.10	.10		0.30	.97		0.50	2.44		0.70	4.20		0.90	6.00	
.11	.12		.31	1.04		.51	2.52		.71	4.29		.91	6.09	
		.03												
.12	.15		.32	1.11		.52	2.60		.72	4.38		.92	6.18	
								.085						
.13	.18		.33	1.18		.53	2.69		.73	4.47		.93	6.27	
.14	.21		.34	1.25		.54	2.78		.74	4.56		.94	6.36	
.15	.24		.35	1.32		.55	2.86		.75	4.65		.95	6.45	
.16	.27		.36	1.39		.56	2.95		.76	4.74		.96	6.54	
.17	.30	.04	.37	1.46		.57	3.03		.77	4.84		.97	6.63	
.18	.34		.38	1.53		.58	3.12		.78	4.92		.98	6.72	
								.09						
.19	.38		.39	1.60	0.75	.59	3.21		.79	5.01		.99	6.81	
												1.00	6.90	

The above table is not applicable for obstructed channel conditions. It is based on 15 discharge measurements made during Dec. 13, 1929 - Sept. 30, 1929

and is well defined between 0 second-feet and .20 second-feet.

The table is extended above a gauge height of .67 using a constant of .09 per .01 increase in gauge height.

Computed by M. Rupert

Checked by J.L-1024-29

Date June 18, 1929

F. C. Dist.—Form 105—500—9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Monrovia ~~Creek~~ Creek

~~Above~~ Above Sawpit Creek for the Year Ending September 30, 19 29

Drainage Area 1.9 Square Miles. [An Continuous Water Stage Recorder ~~Observer~~]

Maximum stage .05 feet at Various times during yr. Discharge .02 second-feet.

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		G he
1	.05	0.03	.05	0.03	0.05	0.03	.09	0.08	.10	0.10	.10	0.10	1	
2	.05	.03	.05	.03	.05	.03	.09	.08	.11	.12	.10	.10	2	
3	.05	.03	.05	.03	.07	.05	.08	.06	.11	.12	.10	.10	3	
4	.05	.03	.05	.03	.06	.04	.08	.06	.11	.12	.09	.08	4	
5	.05	.03	.05	.03	.06	.04	.08	.06	I.11	.12	.09	.08	5	
6	.05	.03	.05	.03	.08	.06	.08	.06	.11	.12	.09	.08	6	
7	.05	.03	.05	.03	.08	.06	.08	.06	.11	.12	.09	.08	7	
8	.05	.03	.05	.03	.07	.05	.08	.06	.11	.12	.09	.08	8	
9	.05	.03	.05	.03	.07	.05	.08	.06	.11	.12	.10	.10	9	
10	.05	.03	.05	.03	.11	.12	.08	.06	I.11	.12	H	2.76	10	
11	.05	.03	.05	.03	.12	.15	.08	.06	I.11	.12	.30	.97	11	
12	.05	.03	.05	.03	.11	.12	.08	.06	I.10	.10	.19	.38	12	
13	.05	.03	.05	.03	.20	.42	.08	.06	.10	.10	.17	.30	13	
14	.05	.03	.06	.04	.16	.27	.08	.06	.10	.10	.14	.21	14	
15	.05	.03	.06	.04	.12	.15	.08	.06	.10	.10	.14	.21	15	
16	.05	.03	.06	.04	.10	.10	.08	.06	.10	.10	.12	.15	16	
17	.05	.03	.06	.04	.10	.10	.08	.06	.10	.10	.12	.15	17	
18	.05	.03	.06	.04	.10	.10	.08	.06	.10	.10	.12	.15	18	
19	.05	.03	.05	.03	.10	.10	.08	.06	.10	.10	.12	.15	19	
20	.05	.03	.05	.03	.10	.10	I.09	.08	.10	.10	.11	.12	20	
21	.05	.03	.05	.03	.10	.10	I.10	.10	.10	.10	.11	.12	21	
22	.05	.03	.05	.03	.09	.08	.11	.12	.10	.10	.11	.12	22	
23	.05	.03	.05	.03	.09	.08	.11	.12	.10	.10	.11	.12	23	
24	.05	.03	.06	.04	.09	.08	I.11	.12	.10	.10	.12	.15	24	
25	.05	.03	.06	.04	.09	.08	I.11	.12	.10	.10	.12	.15	25	
26	.05	.03	.06	.04	.09	.08	.10	.10	.10	.10	.12	.15	26	
27	.05	.03	.06	.04	.09	.08	I.10	.10	.10	.10	.11	.12	27	
28	.05	.03	.06	.04	.09	.08	I.10	.10	.10	.10	.10	.10	28	
29	.05	.03	.06	.04	.09	.08	.10	.10	--	---	.10	.10	29	
30	.05	.03	.05	.03	.09	.08	.10	.10	--	---	.10	.10	30	
31	.05	.03	---	---	.09	.08	.10	.10	--	---	.10	.10	31	
TOTAL,		0. 93		1.01		3.04		2.44		3.00		7.68		
aily Discharge in nd-feet		.03		.03		.10		.08		0.11		0.25		
feet per square mile														
depth in inches														
in acre-feet		1.84		2.00		6.03		4.84		5.95		15.23		
n Mean Daily arge in Second-feet		.03		.04		.42		.12		.12		2.76		
Mean Daily arge in Second-feet		.03		.03		.03		.06		.10		.08		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Gage Read to Continuous ~~XXX~~ a Day.

Used rating table dated June 18, 1929

DAY	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	.08	.09	.08	.06	.04	.05	.03	I.05	.03	.04	.02
2	.08	.08	.06	.06	.04	.05	.03	I.05	.03	.04	.02
3	.08	.08	.06	.06	.04	.05	.03	I.04	.02	.04	.02
4	1.04	.08	.06	.06	.04	.05	.03	I.04	.02	.04	.02
5	1.10	.08	.06	.06	.04	.05	.03	I.04	.02	.04	.02
6	.51	.08	.06	.06	.04	.05	.03	.04	.02	.04	.02
7	.24	.08	.06	.06	.04	.05	.03	.04	.02	.04	.02
8	.21	.08	.06	.06	.04	.05	.03	.04	.02	.04	.02
9	.18	.08	.06	.06	.04	.05	.03	.04	.02	.04	.02
10	.15	.08	.06	.06	.04	.05	.03	.04	.02	.04	.02
11	.15	.07	.05	.06	.04	.05	.03	.04	.02	.04	.02
12	.15	.06	.04	.06	.04	.05	.03	.04	.02	.04	.02
13	.15	.06	.04	.06	.04	.05	.03	.04	.02	.04	.02
14	.12	.07	.05	.06	.04	.05	.03	.04	.02	.04	.02
15	.10	.06	.04	.06	.04	.05	.03	.04	.02	.04	.02
16	.10	.06	.04	.05	.03	.05	.03	.04	.02	.04	.02
17	.10	.07	.05	.05	.03	.05	.03	.04	.02	I.04	.02
18	.10	.07	.05	.05	.03	.05	.03	.04	.02	I.04	.02
19	.10	.07	.05	.05	.03	.05	.03	.04	.02	I.05	.03
20	.10	.07	.05	.05	.03	.05	.03	.04	.02	I.05	.03
21	.10	.07	.05	.05	.03	.05	.03	.04	.02	.04	.02
22	.10	.07	.05	.05	.03	.05	.03	.04	.02	.04	.02
23	.10	.07	.05	.05	.03	.05	.03	.04	.02	.04	.02
24	.10	.07	.05	.05	.03	.05	.03	.04	.02	.04	.02
25	.10	.07	.05	.05	.03	.05	.03	.04	.02	.04	.02
26	.10	.07	.05	.05	.03	.05	.03	.04	.02	.04	.02
27	.10	.07	.05	.05	.03	.05	.03	.04	.02	.04	.02
28	.10	.07	.05	.05	.03	.05	.03	.04	.02	.04	.02
29	.10	.06	.04	.05	.03	.05	.03	.04	.02	.04	.02
30	.10	.06	.04	.05	.03	.05	.03	.04	.02	.04	.02
31	---	.06	.04	---	---	I.05	.03	.04	.02	---	---
	5.92		1.60		1.05		0.93		0.64		.62
	0.20		.05		.03		.03		.02		.02
	11.74		3.17		2.08		1.84		1.27		1.23
	1.18		.08		.04		.03		.03		.03
	.08		.04		.03		.03		.02		.02

28.86

57.24

	Fourth	Third	Second	First	Quarter
G. H. Copied	MAR	MAR	MAR	MAR	
G. H. checked	MAR	MAR	MAR	MAR	Computed
Date				Oct. 25, 1929	Checked
Disch. applied	MAR		MAR	MAR	Date
Disch. checked	JWL	JWL 10-24-29	JWL		
Date			Oct. 1, 1929		
G. H. Copied	MAR	RPD	RPD	MAR	
G. H. checked	MAR	MAR	MAR	MAR	
Date				Oct. 1, 1929	

XXXXXX YEAR

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Monthly discharge of Monrovia ~~River~~ Creek

~~XXX~~ Above Sawpit Creek ~~XXXX~~ for the year ending Sept. 30, 1929

(Drainage area 1.9 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	.03	.03	.03			1.84	
November	.04	.03	.03			2.00	
December	.42	.03	.10			6.03	
January	.12	.06	.08			4.84	
February	.12	.10	.11			5.95	
March	2.76	.08	.25			15.23	
April	1.18	.08	.20			11.74	
May	.08	.04	.05			3.17	
June	.04	.03	.03			2.08	
July	.03	.03	.03			1.84	
August	.03	.02	.02			1.27	
September	.03	.02	.02			1.23	
The ~~XXXX~~ year						57.24	

NOTE:

F. C. Dist. Form 103—300—9.28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Rating table for BIG SANTA ANITA DAM

below Dam, *from* Oct. 1, 1928, *to* Sept. 30, 1929

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
0.00	0.00		0.20	0.61		0.40	1.57		0.70	3.98		1.10	8.72	
		.026			.04			.06			.1025			.145
.01	.03	"	.21	.65	"	.41	1.63	"	.72	4.13	"	.12	9.01	"
.02	.05	"	.22	.69	"	.42	1.69	"	.74	4.33	"	.14	9.30	"
.03	.08	"	.23	.73	"	.43	1.75	"	.76	4.55	.1085	.16	9.59	"
.04	.10	"	.24	.77	"	.44	1.81	"	.78	4.76	"	.18	9.88	"
.05	0.13		.25	0.81		.45	1.87		0.80	4.98		1.20	10.17	
		.028			.044			.068			.1125			"
.06	.16	"	.26	.85	"	.46	1.94	"	.82	5.21	"			
.07	.19	"	.27	.90	"	.47	2.01	"	.84	5.43				
.08	.21	"	.28	.94	"	.48	2.07	"	.86	5.66	.1167			
.09	.24	"	.29	.99	"	.49	2.14	"	.88	5.90	"			
0.10	0.27		0.30	1.03		0.50	2.21		0.90	6.13				
		.03			.05			.0725			.12			
.11	.30	"	.31	1.08	"	.52	2.35	"	.92	6.37	"			
.12	.33	"	.32	1.13	"	.54	2.50		.94	6.61				
								.0817			.1234			
.13	.36	"	.33	1.18	"	.56	2.66	"	.96	6.86	"			
.14	.39	"	.34	1.23	"	.58	2.83	"	.98	7.10	"			
.15	.42		.35	1.28		0.60	2.99		1.00	7.35				
		.038			.058			.09			.1325			
.16	.46		.36	1.34	"	.62	3.17	"	.02	7.62	"			
.17	.50		.37	1.40	"	.64	3.35		.04	7.88				
								.095			.14			
.18	.53		.38	1.45	"	.66	3.54		.06	8.16	"			
.19	.57		.39	1.51	"	.68	3.73		.08	8.44	"			

The above table is not applicable for obstructed channel conditions. It is based on 44 discharge measurements made during 1928-1929

and is fairly well defined between 0 second-feet and 10 second-feet.

Computed by M. Rupert

Checked by CEB 11/18/29

Date Nov. 15, 1929.

F. C. Dist.—Form 105 500- 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Big Santa Anita ~~Creek~~ Creek

~~Near~~ below Flood Control Dam for the Year Ending September 30, 1929

Drainage Area 10.97 Square Miles. [Au Continuous Water Stage Recorder Observer.]

Flow regulated by Big Santa Anita Dam

Maximum stage 0.77 feet at 1 p.m. Jan. 26, 1929 Discharge 0.19 second-feet.

Mean Daily Discharge

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	Ga hei
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		
1	0.26	0.85	0.39	1.51	0.24	0.77	0.30	1.03	0.45	1.87	0.19	0.57	1	0.
2	.26	.85	.35	1.28	.25	.81	.30	1.03	.96	6.86	.26	.85	2	.
3	.25	.81	.34	1.23	.36	1.34	.30	1.03	.80	4.98	.19	.57	3	.1
4	.25	.81	.37	1.40	.44	1.81	.30	1.03	.75	4.44	.18	.53	4	.0
5	.31	1.08	.37	1.40	.45	1.87	.30	1.03	.68	3.73	.18	.53	5	I.3
6	.37	1.40	.35	1.28	.45	1.87	.30	1.03	.64	3.35	.18	.53	6	I.3
7	.36	1.34	.34	1.23	.61	3.08	.30	1.03	.62	3.17	.14	.39	7	I.3
8	.35	1.28	.35	1.28	.75	4.43	.30	1.03	.55	2.58	.08	.21	8	I.4
9	.35	1.28	.31	1.08	.65	3.44	.30	1.03	.55	2.58	.08	.21	9	I.4
10	.35	1.28	.23	.73	.57	2.74	.30	1.03	.51	2.28	.23	.73	10	I.4
11	.36	1.34	.16	.46	.53	2.42	.30	1.03	.48	2.07	.13	.36	11	I.4
12	.38	1.45	.18	.53	.61	3.08	.29	.99	.57	2.74	.13	.36	12	I.4
13	.36	1.34	.17	.50	.68	3.73	.27	.90	.46	1.94	.12	.33	13	.4
14	.35	1.28	.16	.46	.77	4.66	.26	.85	.44	1.81	.12	.33	14	.4
15	.35	1.28	.10	.27	.70	3.92	.26	.85	.44	1.81	.12	.33	15	.4
16	.35	1.28	.09	.24	.47	2.01	.50	2.21	.35	1.28	.13	.36	16	.4
17	.34	1.23	.09	.24	.43	1.75	.48	2.07	.17	.50	.13	.36	17	.45
18	.34	1.23	.09	.24	.40	1.57	.38	1.45	.19	.57	.13	.36	18	.46
19	.33	1.18	.09	.24	.38	1.45	.47	2.01	.17	.50	.13	.36	19	.46
20	.34	1.23	.08	.21	.37	1.40	.58	2.83	.17	.50	.14	.39	20	.46
21	.34	1.23	.08	.21	.36	1.34	.63	3.26	.18	.53	.14	.39	21	.46
22	.33	1.18	.08	.21	.35	1.28	.37	1.40	.18	.53	.14	.39	22	.47
23	.33	1.18	.08	.21	.35	1.28	.12	.33	.18	.53	.14	.39	23	.47
24	.34	1.23	.09	.24	.35	1.28	.10	.27	.18	.53	.14	.39	24	.47
25	.34	1.23	.10	.27	.35	1.28	.08	.21	.19	.57	.14	.39	25	.47
26	.35	1.28	.11	.30	.34	1.23	.07	.19	.20	.61	.14	.39	26	.47
27	.33	1.18	.11	.30	.34	1.23	.15	.42	.18	.53	.14	.39	27	.47
28	.32	1.13	.11	.30	.35	1.28	.12	.33	.18	.53	.14	.39	28	.47
29	.36	1.34	.11	.30	.32	1.13	.34	1.23			.14	.39	29	.47
30	.35	1.28	.17	.50	.30	1.03	.37	1.40			.13	.36	30	.47
31	.33	1.18			.30	1.03	.38	1.45			.13	.36	31	
TOTAL,		37.26		18.65		61.54		35.98		53.92		12.89		
Daily Discharge in second-feet		1.20		.62		1.99		1.16		1.93		.42		
feet per square mile														
depth in inches														
in acre-feet		73.91		36.99		122.06		71.37		106.95		25.57		
n Mean Daily arge in Second-feet		1.45		1.51		4.66		3.26		6.86		.85		
n Mean Daily arge in Second-feet		.81		.21		.77		.19		.50		.21		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Gage Read to Continuous ~~Once~~ a Day. Used rating table dated Nov. 15, 1929

APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		
0.36	0.46	1.94	0.41	1.63	0.38	1.45	I.34	1.23	Var	3.72		1
.36	.46	1.94	.41	1.63	.37	1.40	I.33	1.18	Var	3.98		2
.39	.46	1.94	.41	1.63	.37	1.40	I.33	1.18	Var	6.30		3
.21	.46	1.94	.41	1.63	.37	1.40	I.33	1.18	Var	6.90		4
1.45	.46	1.94	.41	1.63	.37	1.40	I.33	1.18	Var	7.36		5
1.45	.46	1.94	.41	1.63	.37	1.40	I.33	1.18	Var	6.98		6
1.51	.46	1.94	.40	1.57	.37	1.40	I.33	1.18	Var	7.23		7
1.57	.46	1.94	.40	1.57	.37	1.40	I.32	1.13	1.08	8.44		8
1.63	.46	1.94	.40	1.57	.36	1.34	.32	1.13	Var	8.61		9
1.69	.46	1.94	.40	1.57	.36	1.34	.32	1.13	Var	9.23		10
1.75	.46	1.94	.39	1.51	.36	1.34	.32	1.13	Var	8.59		11
1.81	.46	1.94	.39	1.51	.36	1.34	.32	1.13	Var	6.82		12
1.87	.46	1.94	.39	1.51	.36	1.34	.32	1.13	Var	7.45		13
1.87	.45	1.87	.38	1.45	.35	1.28	.32	1.13	Var	5.14		14
1.87	.45	1.87	.38	1.45	.35	1.28	.32	1.13	Var	5.72		15
1.87	.44	1.81	.38	1.45	.35	1.28	.31	1.08	Var	4.74		16
1.87	.44	1.81	.38	1.45	.35	1.28	.31	1.08	Var	4.77		17
1.94	.44	1.81	.38	1.45	.34	1.23	.31	1.08	Var	3.93		18
1.94	.44	1.81	.38	1.45	.34	1.23	.30	1.03	Var	2.62		19
1.94	.44	1.81	.38	1.45	.34	1.23	Var	1.40	Var	3.19		20
1.94	.43	1.75	.38	1.45	.34	1.23	Var	3.07	0.49	2.14		21
2.01	.43	1.75	.38	1.45	.34	1.23	Var	6.05	.45	1.87		22
2.01	.42	1.69	.38	1.45	.34	1.23	Var	5.42	.45	1.87		23
2.01	.42	1.69	.38	1.45	.34	1.23	Var	4.69	.43	1.75		24
2.01	.42	1.69	.38	1.45	.34	1.23	Var	3.89	.36	1.34		25
2.01	.42	1.69	.38	1.45	.34	1.23	Var	4.26	.36	1.34		26
2.01	.42	1.69	.38	1.45	.34	1.23	Var	6.77	.41	1.63		27
2.01	.42	1.69	.38	1.45	.34	1.23	Var	6.09	Var	3.41		28
2.01	.42	1.69	.38	1.45	.34	1.23	Var	4.55	.88	5.90		29
2.01	.42	1.69	.38	1.45	.34	1.23	Var	3.55	Var	2.78		30
	.42	1.69			.34	1.23	0.75	4.44				31
49.38		56.72	45.24		40.29		75.80		145.75		633.42	YEAR
1.65		1.83	1.51		1.30		2.45		4.86			
97.95		112.50	89.73		79.92		150.35		289.10		1256.39	
2.01		1.94	1.63		1.45		6.77		9.23			
.21		1.69	1.45		1.23		1.03		1.34			

Quarter: First MAR | Second MAR | Third MAR | Fourth MAR
Computed Date: Nov. 21, 1929
Checked Date: Nov. 15, 1929
Quarter: First MAR | Second MAR | Third MAR | Fourth MAR
Disch. applied Date: Nov. 15, 1929
Disch. checked Date: CEB | CEB | CEB | CEB
Quarter: First MAR | Second MAR | Third MAR | Fourth MAR
G. H. Copied Date: Nov. 14, 1929
G. H. checked Date: CEB | CEB | CEB | CEB

L-C Dist Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Monthly discharge of Big Santa Anita ~~[illegible]~~ Creek

~~[illegible]~~ below Flood Control Dam **for the year ending Sept. 30, 19 29**

(Drainage area 10.97 square miles)

MONTH	DISCHARGE IN SECOND-FEET			RUN-OFF			Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	1.45	.81	1.20			73.91	
November	1.51	.21	.62			36.99	
December	4.66	.77	1.99			122.06	
January	3.26	.19	1.16			71.37	
February	6.86	.50	1.93			106.95	
March	.85	.21	.42			25.57	
April	2.01	.21	1.65			97.95	
May	1.94	1.69	1.83			112.50	
June	1.63	1.45	1.51			89.73	
July	1.45	1.23	1.30			79.92	
August	6.77	1.03	2.40			150.35	
September	9.23	1.34	4.86			289.10	
The ~~[illegible]~~ year						1256.39	

NOTE:

Flow is regulated by the Flood Control Dam above the station.

LITTLE SANTA ANITA CREEK-BELOW DAM

Location:
Near mouth of Little Santa Anita Canyon, otherwise known as Sierra Madre, approximately 1 mile northeast of Sierra Madre, Los Angeles County, California.

Drainage Area:
18.3 square miles.

Installed by:
Los Angeles County Flood Control District Jan.28,1929.

Records Available:
Jan.28,1929 to Sept.30,1929 at L.A.F.C.D.
U.S.G.S. records of flow at USGS station above dam from July 31,1916 to date.

Gage:
Rational 7 day water stage recorder installed in shelter house on stilling well at upper end of swimming pool. 2' cippoletti weir, 6" deep opening into weir built on old wall 22' at crest, 2½' wide and 50" deep used as a control. Vertical staff gage attached to stilling well of recorder house.

Discharge Measurements.
High water flows will be measured in channel above gage. Low water flows by wading in channel above gage.

Channel and Control:
Channel-gravel and boulders. Check dams have been constructed about every 50' above the swimming pool. Control-2' Cippoletti weir, 6" deep, opening into a weir 22' at crest, 2½' wide and 50" deep.

Extremes of Discharge:
Maximum - 6 c.f.s. April 5,1929
Minimum - Dry at various times during year.

Diversions:
Water diverted above Flood Control Dam by Sierra Madre Water Co.

Regulation:
Flow regulated by construction of Los Angeles County Flood Control Dam ¼ mile above recorder.

Accuracy:
Good.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Branch.

Little Santa Anita Creek
below Dam

Hydrograph of Storm
April 5, 1929

Discharge in Second-Feet

6.0
5.0
4.0
3.0
2.0
1.0

12 Mid 1 2 3 4 5 6 7 8 9 10 11 12 Noon 1 2 3 4 5 6 7 8 9 10 11 12 Mid

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 67

Discharge measurements of Little Santa Anita ~~XXXX~~ Creek

~~XX~~ below Flood Control Dam , during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	4-4	Roger P.Dalton	2.0	.17	.88	.33	.15		.6		4	0	1/12	647

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 67

Rating table for Little Santa Anita Creek

below dam, *from* Feb. 2, 19 29, *to* Sept. 30, 19 29

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
.01	.01		.21	.65		.41	1.77							
.02	.02		.22	.69		.42	1.83							
.03	.04		.23	.74		.43	1.90							
.04	.05		.24	.79		.44	1.97							
.05	.08		.25	.84		.45	2.03							
.06	.10		.26	.89		.46	2.10							
.07	.12		.27	.94		.47	2.17							
.08	.15		.28	1.00		.48	2.24							
.09	.18		.29	1.05		.49	2.31							
.10	.21		.30	1.11		.50	2.38							
.11	.25		.31	1.16										
.12	.28		.32	1.22										
.13	.32		.33	1.28										
.14	.35		.34	1.33										
.15	.39		.35	1.39										
.16	.43		.36	1.45										
.17	.47		.37	1.52										
.18	.51		.38	1.58										
.19	.56		.39	1.64										
.20	.60		.40	1.70										

The above table is not applicable for obstructed channel conditions. It is based on one discharge measurements made during

and is not well defined between second-feet and second-feet.

2' Cippoletti Weir Table used

Computed by MAR

Checked by RPD

Date Dec. 16, 1929

S. Dist.— Form 105 500 9-28

ily Gage Height, in Feet, and Discharge, in Second-Feet, of Little Santa Anita Creek

below flood control dam for the Year Ending September 30, 19 29

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 67

Image Area 18.3 Square Miles. Rational 7 day water stage recorder Observer.]

Gage Read to continuous Once a Day. Used rating table dated Dec. 16, 1929

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	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	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1									0.15	0.39		Dry		Dry		Dry		Dry		Dry		Dry		Dry	1
2										Dry		"		"		"		"		"		"		"	2
3									I	"		"		"		"		"		"		"		"	3
4									I	"		"	H	1.87		"		"		"		"		"	4
5									I	"		"	H	3.47		"		"		"		"		"	5
6									I	"		"	.54	2.67		"		"		"		"		"	6
7									I	"		"	.48	2.24		"		"		"		"		"	7
8									I	"		"	.46	2.10		"		"		"		"		"	8
9									I	"	.01	.01	I.41	1.77		"		"		"		"		"	9
10									I	"	.15	.39	I.36	1.45		"		"		"		"		"	10
11									I	"	.02	.02	I.31	1.16		"		"		"		"		"	11
12									I	"		Dry	.26	.89		"		"		"		"		"	12
13									I	"		"	.21	.65		"		"		"		"		"	13
14									I	"		"	I.17	.47		"		"		"		"		"	14
15									I	"		"	I.12	.28		"		"		"		"		"	15
16									I	"		"	.07	.12		"		"		"		"		"	16
17									I	"		"	.05	.08		"		"		"		"		"	17
18									I	"		"	.04	.05		"		"		"		"		"	18
19									I	"		"	.03	.04		"		"		"		"		"	19
20									I	"		"	.02	.02		"		"		"		"		"	20
21									I	"		"	.02	.02		"		"		"		"		"	21
22									I	"		"	.02	.02		"		"		"		"		"	22
23										"		"	.02	.02		"		"		"		"		"	23
24										"		"		Dry		"		"		"		"		"	24
25										"		"		"		"		"		"		"		"	25
26										"		"		"		"		"		"		"		"	26
27										"		"		"		"		"		"		"		"	27
28										"		"		"		"		"		"		"		"	28
29										"		"		"		"		"		"		"		"	29
30										"		"		"		"		"		"		"		"	30
31										"		"		"		"		"		"		"		"	31
TOTAL,										.39		.42		19.39		0		0		0		0		0	20.20
Discharge in feet										.01		.01		.65		0		0		0		0		0	
t per square mile																									
pth in inches																									
acre-feet										.77		.83		38.46		0		0		0		0		0	40.06
lean Daily e in Second-feet										.39		.39		3.47		0		0		0		0		0	
ean Daily in Second-feet										Dry		Dry		Dry		0		0		0		0		0	

Installed Jan. 28

I= Interpolated

Quarter	First	Second	Third	Fourth
Disch. applied	MAR	MAR	MAR	MAR
Disch. checked	MAR	MAR	MAR	MAR
Date	Dec. 19, 1929			

Quarter	First	Second	Third	Fourth
G. H. Copied	MAR	MAR	MAR	MAR
G. H. checked	MAR	MAR	MAR	MAR
Date	Dec. 18, 1929			

PERIOD YEAR

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 67

Monthly discharge of Little Santa Anita ~~River~~ Creek

~~at~~ below Flood Control Dam ~~near~~ for the year ending Sept. 30, 1929

(Drainage area 18.3 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January	Installed Jan. 25	Dry				0	
February	.39	Dry	.01			.77	
March	.39	Dry	.01			.83	
April	3.47	Dry	.65			38.46	
May	Dry	Dry	Dry			0	
June	Dry	Dry	Dry			0	
July	Dry	Dry	Dry			0	
August	Dry	Dry	Dry			0	
September	Dry	Dry	Dry			0	
The period						40.06	

NOTE:

Cippoletti Weir discharges are used for gage heights above 0.50 feet, for lack of data

Discharge measurements above this gage height check slightly higher than weir table discharges.

SAN GABRIEL RIVER - U.S.G.S.

Location:
In NW.¼ sec.23,T.L N.,R.10 W.,near road crossing at mouth of canyon,half a mile above Southern California Edison's power house,and 2 miles north of Azusa,Los Angeles County.

Drainage Area:
214 square miles.

Records Available:
1894 to Sept 30,1929 at U.S.G.S.

Gage:
Water-stage recorder on right bank at cable,1000' above ford at mouth of canyon,and 500' above the tunnel diversion;installed November 18,1922. On account of frequent changes in the channel it has been necessary to install numerous staff gages and three recorder wells near the ford. These have been at at independent datum planes.

Discharge Measurements:
Made from cable 1000' above ford or by wading.

Channel and Control:
Gravel and boulders;shifting during high water.

Extremes of Discharge:
Maximum mean daily 1928-1929 492 c.f.s. April 5,1929
Minimum mean daily 1928-1929 9.1 c.f.s. Sept.1,1929
Includes Edison Co's Canal.

Diversions:
The power canal of the Southern California Edison Co.heads about 5 miles above the station. See U.S.G.S. records for daily discharge of this canal.

Regulation:
None.

Accuracy:
Fair.

Cooperation:
Constructed by U.S.G.S. Water Resources Branch.Operated in cooperation with the Los Angeles County Flood Control District.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 8

Discharge measurements of San Gabriel U.S.G.S. River

near Near Azusa, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	2-3	Roger P.Dalton	30	24.9	2.12	2.36	52.7		.6		12	0	1/4	647
2	2-4	do	28.5	15.6	1.68	2.16	26.25		do		17	0	1/3	do
3	2-6	do	15.0	4.69	.96	1.90	4.48		do		15	0	do	do
4	2-9	do	10.0	2.34	.74	1.82	1.74		do		10	0	do	do
5	2-14	do	2.2	.39	.50	1.66	.20		do		4	0	1/6	do
6	2-19	do	14.7	7.77	1.31	1.97	10.14		do		14	0	1/3	do
7	2-19	do	26.5	12.7	.78	1.97	9.84		do		24	0	1/2	do
8	3-10	Dalton & Ebert	115	164	5.06	4.22	830		do		11	.03	1	do
9	3-11	do & Patterson	116	109	2.90	3.30	316		do		22	0	1	do
10	3-13	Roger P.Dalton	46	48	2.25	2.68	108		do		22	0	1/2	do
11	3-15	do	40	33	1.85	2.42	60.9		do		20	0	1/3	do
12	3-16	do	37	28.42	1.76	2.34	50.0		do		16	0	1/4	do
13	3-19	do	36½	20.0	1.40	2.18	28.0		do		15	0	1/3	do
14	3-21	do	18	13.0	1.01	1.99	13.3		do		18	0	do	do
15	3-23	do	20	15.1	.91	2.00	13.8		do		10	0	1/4	do
16	3-26	do	30	14.8	.48	1.96	6.76		do		22	0	do	do
17	3-30	do	3	1.55	.66	-	1.02		do		6	0	1/6	do
18	4-4	do	36	19.6	1.20	2.17	23.51		do		18	0	1/3	do
19	4-5	do	115	132	3.27	3.55	430		do		22	0	1/4	do
20	4-6	do	Two	Channels		3.13	238		do		20	0	1/2	do
21	4-7	do	55	67	2.34	2.88	157		do		20	0	2/3	do
22	4-10	do	44½	46.8	2.07	2.62	97		do		17	0	1/3	do
23	4-12	do	46	41	1.84	2.60	75		do		18	0	1/4	do
24	4-13	do	46	40	1.76	2.47	70		do		18	0	1/3	do
25	4-17	do	40	32	1.63	2.34	51		do		16	0	do	do
26	4-19	do	40	33	1.66	2.31	54		do		16	0	do	do
27	4-20	do	40	31	1.53	2.32	46		do		16	0	1/4	do

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 8

Discharge measurements of San Gabriel U.S.G.S. River

at
near , during the year ending September 30, 19

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	4-23	Roger P.Dalton	39	25	1.36	2.22	34.0		.6		15	0	1/4	647
29	4-26	do	24	22.7	1.13	2.10	25.7		do		10	0	do	do
30	4-27	do	24	20.5	1.16	2.10	22.8		do		12	0	do	do
31	5-2	do	10.8	4.08	1.79	1.90	7.29		do		12	0	1/6	do
32	5-3	do	8.5	4.33	1.73	1.92	7.48		do		8	0	1/3	do
33	5-4	do	8.8	4.11	1.88	1.91	7.70		do		9	0	1/6	do
34	5-10	do	6.0	1.20	.83	1.72	1.00		do		6	0	do	do
35	5-11	do	5.5	1.11	.86	1.72	.95		do		6	0	do	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. Ug

Discharge measurements of San Gabriel - U. S. G. S. River

near Azusa, during the year ending September 30, 1929.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
U1	2/1	F. C. Ebert	Two	channels		2.62	.90		.6		12	.01	2/3	27214
U2	2/4	H.J.Tompkins	22	14	1.72	2.13	24		do		11	.02	1/4	885
U3	2/19	F.C.Ebert	26	9.1	1.06	1.95	9.7		do		12	0	1/3	27214
U4	2/19	H. J. Tompkins	13	7.0	1.69	1.92	8.3		do		12	0	1/2	885
U5	3/11	F. C. Ebert	58	75	3.13	3.15	235		do		12	0	1/2	27214
U6	3/13	F. C. Ebert	Two	channels		2.63	101		do			0	5/6	do
U7	3/14	H. J. Tompkins	45	40	1.90	2.49	76		do		9	0	1/3	885
U8	3/21	do	16	12	1.08	2.00	13		do		7	0	1/4	do
U9	4/4	F. C. Ebert	Two	channels		2.97	1.83		do		10	.02	1/2	27214
U10	4/5	do	71	95	3.35	3.35	318		do		15	0	2/3	do
U11	4/8	do	44	51	2.22	2.71	113		do		18	0	1/2	do
U12	4/12	H.J.T.	40	40	1.85	2.50	74		do		8	0	1/3	885
U13	4/18	do	32	32	1.59	2.36	51		do		9	0	1/2	do
U14	4/19	do	28	32	1.63	2.36	52		do		7	0	1/3	do
U15	5/2	do	8	3.7	2.14	1.92	8.0		do		8	0	1/6	do
U16	5/6	do	7	4.1	2.32	1.92	9.5		do		8	0	1/4	do

9-192-a. 6-30-27.

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of San Gabriel river

Near Azusa, Calif. for the Year Ending September 30, 19 29

Drainage Area ..... Square Miles. (Observer.)

Continuous Water-Stage Recorder

Day	October		November		December		January		February		March		Day	Ga hei
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		
1									17hrs	0	1.62	0.2	1	
2									2.34	35	1.64	.3	2	
3									2.36	52	1.62	.2	3	
4									2.13	24	16hrs 1.60	0	4	2.8
5									2.00	13		0	5	3.5
6									1.93	6		0	6	3.1
7									1.95	6		0	7	2.8
8									1.87	3.0		0	8	2.7
9									1.84	2.1	4hrs 1.65	.1	9	2.6
10									1.80	1.5	3.29	302	10	2.6
11									1.71	1.0	3.26	288	11	2.5
12									1.70	1.0	2.83	144	12	2.5
13									1.68	.8	2.63	98	13	2.4
14										.22	2.49	72	14	2.4
15	DRY		DRY		DRY		DRY		1.81	3.4	2.40	58	15	2.4
16									1.71	1.0	2.33	48	16	2.3
17									1.70	.8	2.27	39	17	2.3
18										.33	2.20	31	18	2.3
19									2.02	15	2.16	27	19	2.3
20									1.79	2.8	2.08	19	20	2.2
21									1.72	1.2	1.99	12	21	2.2
22									1.69	.7	1.99	12	22	2.2
23									1.67	.6	2.00	13	23	2.2
24									1.66	.5	1.98	11	24	2.1
25									1.66	.5	1.96	8	25	2.1
26									1.66	.5	1.92	5.5	26	2.1
27									1.65	.4		2.0	27	2.1
28									1.64	.3		1.5	28	2.0
29												1.0	29	2.0
30												1.0	30	2.0
31												1.0	31	
Total										2281		1194.8		
										8.15		38.5		
cubic-feet per square mile														
run-off, depth in inches														
run-off in acre-feet										453		2370		
maximum										52		302		
minimum										0		0		

Discharge ... second-feet ... second-feet

Minimum stage ... dry ... feet at Oct.1 to Feb.1, Mar 3-8 May 16 to Sept 30

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File Number { Washington / District 98

Used rating table dated 5/7/29

Gage Read to ..... Once / Twice a Day.

Gage heights used to half tenths between ..... and ..... feet; hundredths below and tenths above these limits.

APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
	1	1.98	12		0							1
	1	1.94	9.5		0							2
	1	1.94	9.5		0							3
8	1.57	1.94	9.5		0							4
1	411	1.91	7.5		0							5
0	220	1.91	7.5		0							6
9	159	1.87	6.0		0							7
6	127	1.81	3.4		0							8
7	107	1.76	2.1									9
0	92	1.73	1.5									10
6	85	1.70	.8									11
0	74	1.67	.6									12
8	71	1.65	.4									13
3	63	1.64	.3									14
1	60	1.62	.2									15
8	55	1.59	0									16
5	50		0									17
5	50		0									18
6	52		0	DRY		DRY		DRY		DRY		19
3	48		0									20
9	42		0									21
6	38		0									22
1	32		0									23
8	29		0									24
4	25		0									25
1	22		0									26
1	22		0									27
3	19		0									28
2	15		0									29
0	13		0									30
			0									31
	2141		70.8								3634.7	
	71.4		2.28								9.96	
	4250		140								7210	
	411		12								411	
	1		0								0	

14 hrs

Computed H. C. T.
Checked F. C. E.
Date 6/11/29

Computed H. C. T.
Checked F. C. E.
Date 6/7/29

Computed H. C. T.
Checked F. C. E.
Date 6/7/29

192-B. 6-10-25.

Combined

Gage Height, in Feet, and Discharge, in Second-Feet, of San Gabriel and So.Cal.Edison Co's Canal River

Near Azusa, Calif. for the Year Ending September 30, 19

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

File Number { Washington / District 98

Used rating table dated

Drainage Area ..... Square Miles. [..... Observer.]

Gage Read to ..... Once / Twice a Day.

Gage heights used to half tenths between ..... and ..... feet; hundredths below and tenths above these limits.

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1		10.3		15		21		30		73		58		78		93		49		23		14.2		9.1	1
2		10.3		15		21		29		114		57		75		90		51		22		14.2		9.5	2
3		10.3		15.5		47		29		132		54		75		90		46		23		13.4		10.4	3
4		11.6		15.9		63		29		104		53		238		90		44		19.6		13.0		11.0	4
5		11.8		15.2		42		29		92		53		492		88		46		20		12.8		10.7	5
6		11.4		15.5		34		28		84		53		301		88		46		19.6		12.2		13.9	6
7		11.0		16.1		31		28		85		53		240		87		48		20		12.4		14.2	7
8		10.8		15.9		31		29		76		56		208		83		47		21		12.0		14.6	8
9		10.6		15.4		28		28		71		54		188		81		45		17.4		12.0		13.4	9
10		10.6		15.4		27		27		68		379		173		82		45		20		11.8		12.0	10
11		11.2		15.6		41		28		63		369		166		79		42		21		11.6		12.2	11
12		27		15.4		35		27		61		225		155		74		41		18.7		12.4		11.4	12
13		20		22		70		27		58		179		152		71		38		19.4		11.6		11.6	13
14		17		34		62		27		77		153		144		70		37		17.8		11.6		11.2	14
15		16.2		32		53		27		58		139		141		70		36		17.1		11.0		10.4	15
16		15.4		25		44		50		54		129		136		67		40		14.6		11.0		9.5	16
17		14.6		23		40		39		54		120		131		66		42		16.6		11.2		9.5	17
18		14.2		22		38		35		101		112		131		65		40		16.6		10.8		12.7	18
19		13.9		21		36		38		91		108		133		63		34		15.9		11.0		14.2	19
20		13.9		17.4		35		71		72		100		129		64		34		15.9		10.8		12.8	20
21		14.6		18.5		34		75		69		93		123		62		31		15.4		10.6		12.0	21
22		14.2		19		33		62		67		93		119		64		30		14.6		10.6		13.0	22
23		14.6		19.4		32		54		66		94		113		61		29		14.6		10.6		13.7	23
24		14.6		19.8		31		50		64		92		110		59		30		15		10.8		13.5	24
25		14.6		19.8		31		45		62		89		106		58		28		15.2		10.8		12.8	25
26		14.6		19.8		31		44		60		86		103		57		27		14.8		10.6		13.3	26
27		15.2		19.8		31		43		58		83		103		60		27		15.9		10.4		13.3	27
28		15.5		19.8		30		42		58		80		100		56		27		16.1		9.9		13.0	28
29		15.5		20		30		41				79		96		53		24		15.9		10.1		12.0	29
30		15		21		30		42				79		94		51		25		16.6		9.2		12.0	30
31		15				30		42				78				52				15.6					31
TOTAL		435.5		579.2		1142		1195		2092		3450		4553		2194		1129		548.9		353.8		362.9	18035.3
ean		14.0		19.3		36.8		38.5		74.7		111		152		70.8		37.6		17.7		11.4		12.1	49.4
cond-feet per square mile																									
n-off, depth in inches																									
n-off in acre-feet		861		1150		2260		2370		4150		6820		9040		4350		2240		1090		701		720	35800
aximum		27		34		70		75		132		379		492		93		51		23		14.2		14.6	492
inimum		10.3		15		21		27		54		53		75		51		24		14.6		9.2		9.1	9.1

Discharge ..... second-feet.

Maximum stage ..... feet at ..... on .....

H. C. T.
M. A. F.
11/8/29

Computed ..... Date
Checked ..... Date

ROGER'S CREEK - U.S.G.S.

Location:
In NW.¼,NW.¼ sec.23,T 1 N.,R 10 W.,half a mile above mouth of creek and 2½ miles north of Azusa,Los Angeles County,California.

Drainage Area:
6.4 square miles.

Records Available:
October1,1917 to Sept.30,1929 at U.S.G.S. (Discharge measurements only,May 8,1916 to June 11,1917)

Gage:
Water-stage recorder on left bank at mouth of canyon.

Discharge Measurements:
Made by wading or from cable about 150' below gage.

Channel and Control:
During Fall of 1924 the drainage area was burned over covering the control.

Extremes of Discharge:
Maximum mean daily 1928-1929 51 c.f.s. March 10,1929
Minimum mean daily 1928-1929 Dry at various times during yr.

Diversions:
Two small diversions above the station diverted all the water at times during the year.

Regulation:
None.

Accuracy:
Fair.

Cooperation:
Constructed by U.S.G.S.Water Resources Branch.Operated by U.S.G.S. in cooperation with Los Angeles County Flood Control District.

F. C. Dist.—Form 104 —500 —9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 6

Discharge measurements of Rogers U.S.G.S. Creek

near Azusa, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent dif.			No.	Total	Hours	271
1	12-11	Roger P.Dalton	6.0	2.35	.63	3.10	1.48		.6		6	0	1/4	647
2	12-13	do	9.9	5.68	1.48	3.50	8.42		do		10	0	do	do
3	12-13	do	10	6.1	1.66	3.56	10		do		10	0	1/2	do
4	12-13	do	12.2	6.8	1.88	3.61	12.8		do		10	.03	1/6	do
5	12-13	do	10.3	6.84	1.96	3.67	13.4		do		10	0	1/4	do
6	1929 1-20	Dalton & Ebert	9.5	4.42	1.09	3.33	4.81		do		10	0	do	do
7	2-1	Roger P.Dalton	3.8	1.36	.42	3003	.57		do		7b	0	1/6	do
8	2-2	do	9.5	5.51	1.35	3.40	7.46		do		9	0	1/4	do
9	2-3	do	9.0	3.74	.82	3.23	3.07		do		9	0	1/6	do
10	2-4	do	8.8	3.71	.87	3.23	3.31		do		9	0	do	do
11	2-6	do	5.6	2.21	.75	3.11	1.66		do		11	0	do	do
12	2-9	do	5.7	1.90	.54	3.05	1.02		do		7	0	do	do
13	2-19	do	5.8	2.61	.93	3.20	2.43		do		6	0	do	do
14	3-2	do	3.0	.81	.73	3.02	.59		do		6	0	do	do
15	3-10	do	13.5	12	3.25	3.98	39		do		12	0	do	do
16	3-11	do	11.0	6.42	1.65	3.50	10.5		do		11	0	do	do
17	3-13	do	9	3.99	1.14	3.32	4.54		do		9	0	do	do
18	3-15	do	7.3	2.98	.90	3.22	2.62		do		7	0	do	do
19	3-16	do	7.0	2.69	.80	3.20	2.14		do		7	0	do	do
20	3-19	do	5.8	2.02	.74	3.06	1.50		do		11	0	do	do
21	3-21	do	5.5	1.70	.65	3.10	1.11		do		11	0	do	do
22	3-23	do	5.5	1.76	.62	3.10	1.09		do		11	0	do	do
23	3-26	do	4.0	1.07	.71	3.08	.76		do		7	0	1/3	do
24	3-30	do	3.8	.92	.53	3.04	.49		do		7	0	1/6	do
25	4-4	do	11.3	5.31	1.17	3.35	6.20		do		11	0	do	do
26	4-5	do	12.0	7.68	1.95	3.60	14.9		do		12	0	1/4	do
27	4-6	do	11.0	5.10	1.41	3.38	7.28		do		11	0	1/6	do

FISH CREEK - U.S.G.S.

Location:
In SW ¼ SW ¼ sec.15,T 1 N.,R 10 W.,about three-quarters of a mile above mouth of Canyon and 4 miles northeast of Duarte,Los Angeles County,California.

Drainage Area:
6.5 square miles(measured on topographic map)

Elevation:
About 1000' feet above sea level.

Records available:
July 23,1916 to Sept.30,1929 at U.S.G.S.

Gage:
Gurley-graph water-stage recorder,installed July 28, 1917,on left bank three-fourths mile above mouth of canyon,at same site and datum as vertical staff.

Discharge Measurements:
Made by wading near gage.

Channel and Control:
Gravel and boulders;apparently permanent. Both banks are high and not subject to overflow. A concrete control has been built at an outcrop of bedrock a short distance below the gage.

Extremes of Discharge:
Maximum 1928-1929 71 c.f.s. March 10,1929.
Minimum 1928-1929 Dry at various times during year.
For other years see USGS water supply papers.

Diversions:
None above gage.

Regulation:
None.

Accuracy:
Good.

Cooperation:
Constructed and operated by U.S.G.S. Water Resources Branch. Operated 1927-1929 in cooperation with the Los Angeles County Flood Control District.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 7

Discharge measurements of Fish U.S.G.S. ~~River~~ Creek

~~at~~ near Duarte, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	12-11	Roger P. Dalton	5.3	2.56	1.17	2.30	3.0		.6		10	.01	1/3	647
2	12-11	do	5.2	2.38	1.00	2.28	2.6		do		9	0	1/4	do
	1929													
3	2-1	do	3.7	1.63	.93	2.21	1.52		do		7	0	1/6	do
4	2-15	do	4.6	1.88	.89	2.18	1.67		do		5	0	do	do
5	2-19	do	6.1	3.52	1.12	2.47	3.93		do		12	0	1/4	do
6	2-27	do	5.5	1.99	.74	2.20	1.48		do		10	0	do	do
7	3-8	do	5.2	1.71	.72	2.14	1.23		do		10	0	do	do
8	3-10	do	16	12.1	2.96	3.31	35.6		do		15	.02	do	do
9	3-13	do	8.5	5.0	1.32	2.73	6.60		do		17	0	do	do
10	3-15	do	7.0	3.47	1.17	2.57	4.05		do		14	0	do	do
11	3-22	do	6.6	2.36	1.08	2.40	2.55		do		13	0	do	do
12	3-26	do	6.2	1.97	.90	2.36	1.77		do		12	0	do	do
13	3-28	do	3.2	1.93	.82	2.32	1.59		do		6	0	do	do
14	4-10	do	8.0	3.78	1.35	2.64	6.10		do		8	0	do	do
15	4-19	do	7.5	2.43	1.31	2.44	3.17		do		14	0	do	do
16	4-26	do	6.7	1.83	1116	2.37	2.24		do		11	0	1/6	do
17	5-2	do	3.3	1.98	.77	2.30	1.52		do		6	0	1/12	do
18	5-10	do	3.1	1.86	.68	2.26	1.27		do		6	0	do	do
19	5-16	do	3.1	.89	.91	2.22	.81		do		6	0	do	do
20	5-24	do	3.0	.80	.86	2.21	.69		do		6	0	do	do
21	5-31	do	2.9	.69	.74	2.18	.51		do		6	0	do	do
22	6-7	do	2.9	.79	.80	2.18	.59		do		6	0	do	do
23	6-14	do	2.8	.72	.60	2.14	.43		do		5	0	do	do
24	6-21	do	3.5	.50	.50	2.08	.25		do		5	0	do	do
25	6-28	do	1.5	.30	.68	2.07	.20		do		3	0	do	do
26	7-5	do	.3	.15	.74	2.02	.11		do		1	0	do	do
27	7-12	do	.7	.18	.55	2.02	.10		do		1	0	do	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 7

Discharge measurements of Fish U.S.G.S. [redacted] Creek

at
near , during the year ending September 30, 19

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	7-19	Roger P. Dalton	.4	.08	.50	1.93	.04		.6		1	0	1/12	647
29	7-26	do	.5	.20	.10	1.90	.02		do		1	0	do	do
30	8-9	do	.4	.07	.03	1.92	.02		do		1	0	do	do
31	8-23	do	.4	.06	.42	1.89	.01		do		1	0	do	do
32	9-27	do	.4	.12	.80	2.04	.10		do		1	0	do	do

F. C. Dist. Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U7

Discharge measurements of... Rish Creek - U. S. G. S. ~~XXXX~~ Creek

near Duarte, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
U1	10/16	H. J. Tompkins	.8	.32	.78	1.92	.25		.6		2	0	1/2	885
U2	10/23	do	.7	.20	1.10	1.90	.22		do		2	0	-	do
U3	11/2	do	.7	.20	1.20	1.92	.24		do		2	0	1/6	do
U4	11/12	do	.6	.24	1.08	1.94	.26		do		2	0	1/6	do
U5	11/14	do	4.0	3.2	1.47	2.62	4.7		do		4	0	1/2	do
U6	11/20	do	3.0	1.0	.43	1.96	.43		do		4	0	1/12	do
U7	11/26	do	3.0	1.0	.51	1.98	.51		do		4	0	1/12	do
U8	12/3	do	10	7.2	3.06	3.08	.22		do		5	0	1/4	do
U9	12/27	do	3.5	1.6	.56	2.06	.90		do		4	0	1/6	do
U10	1929 1/8	do	1.6	.80	.94	2.02	.75		do		2	0	1/6	do
U11	1/14	do	1.6	.80	.88	2.04	.70		do		2	0	1/12	do
U12	1/18	do	2.3	1.20	.92	2.14	1.10		do		3	0	1/6	do
U13	1/22	do	4.0	2.8	1.54	2.48	4.3		do		5	0	1/6	do
U14	1/30	do	3.5	2.0	.75	2.16	1.5		do		5	0	1/6	do
U15	2/4	do	4.0	3.5	1.77	2.58	6.2		do		5	0	1/4	do
U16	2/11	do	4.0	2.10	.95	2.24	2.0		do		6	0	1/6	do
U17	3/4	do	4.0	1.60	.81	2.16	1.3		do		5	0	1/6	do
U18	3/11	do	10	5.80	2.07	2.95	12.0		do		10	0	1/6	do
U19	3/14	do	7.0	3.0	1.40	2.62	4.2		do		7	0	1/4	do
U20	3/20	do	3.5	2.4	1.12	2.40	2.7		do		7	0	1/6	do
U21	3/27	do	3.0	1.9	.84	2.32	1.6		do		6	0	1/6	do
U22	4/6	do	7.0	5.4	2.04	2.90	11.0		do		7	0	1/6	do
U23	4/10	do	6.0	3.0	1.67	2.62	5.0		do		6	0	1/4	do
U24	4/17	do	3.0	2.4	1.08	2.44	2.6		do		6	0	1/6	do
U25	4/24	do	4.3	2.6	.88	2.34	2.3		do		6	0	1/6	do
U26	5/2	do	3.0	2.0	.80	2.30	1.6		do		6	0	1/6	do
U27	5/10	do	3.0	2.0	.50	2.28	1.0		do		6	0	1/6	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U7

Discharge measurements of Fish Creek River Creek

near Duarte, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
U28	5/14	H. J. Tompkins	3.4	.90	1.34	2.21	1.2		.6		7	0	1/6	885
U29	5/22	do	3.3	.75	1.00	2.22	.75		do		5	0	do	do
U30	5/29	do	3.3	.60	.67	2.18	.40		do		5	0	1/12	do
U31	6/5	do	3.5	.70	.86	2.18	.60		do		5	0	1/6	do
U32	6/12	do	2.5	.75	.60	2.16	.45		do		5	0	do	do
U33	6/18	do	2.9	.80	.62	2.16	.50		do		6	0	do	do
U34	6/26	do	1.6	.32	.62	2.08	.20		do		2	0	do	do
U35	7/3	do	.6	.16	.75	2.00	.12		do		3	0	do	do
U36	7/11	do	.4	.12	.83	2.04	.10		do		2	0	do	do
U37	7/27	do	.5	.10	.30	1.94	.03		do		2	0	do	do
U38	7/24	do	.5	.10	.20	1.91	.02		do		2	0	1/12	do
U39	7/31	do	.5	.10	.70	1.99	.07		do		2	0	do	do
U40	8/21	do	-	-	-	1.90	.018		do		-	0	do	do
U41	8/31	do	-	-	-	1.90	.02		do		-	0	do	do
U42	9/4	do	-	-	-	1.91	.02		do		-	0	do	do
U43	9/12	do	-	-	-	1.94	.036		do		-	0	do	do
U44	9/18	do	-	-	-	2.08	.06		do		-	0	do	do
U45	9/21	do	-	-	-	2.06	.09		do		-	0	do	do
U46	9/26	do	.4	.12	.83	2.04	.11		do		2	0	1/6	do

~~Daily gage height, in feet,~~
Daily discharge in second-feet, of [illegible] for the year ending September [illegible]

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
2	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
3	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.1	.
4	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	[illegible]	.
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	[illegible]	.
6	[illegible]	[illegible]	[illegible]	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	[illegible]	.1
7	[illegible]	[illegible]	[illegible]	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.	.1
8	[illegible]	[illegible]	[illegible]	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.	.1
9	[illegible]	[illegible]	[illegible]	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.	.1
10	[illegible]	[illegible]	[illegible]	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
11	[illegible]	[illegible]	[illegible]	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
12	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	[illegible]	.
13	[illegible]	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.	.
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.	.
15	.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.	.
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.	.
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.7	.1	.	.
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.7	[illegible]	[illegible]	.	.	.1
19	[illegible]	[illegible]	1.1	[illegible]	[illegible]	[illegible]	.1	[illegible]	[illegible]	.	.	.1
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.	.1
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.7	[illegible]	[illegible]	.	.	.1
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.	.1
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.	.1
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.	[illegible]
25	[illegible]	.4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.7	[illegible]	.	.	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.7	[illegible]	.	.	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	1.4	[illegible]	[illegible]	.7	[illegible]	.	.	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	.	[illegible]	[illegible]	[illegible]	[illegible]	.	.	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	.1	.	.1
31	[illegible]		[illegible]	[illegible]		[illegible]		[illegible]		.1	.	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	.26	.45	1.79	1.70	3.19	4.09	4.33	1.00	.47	.07	.01	.08
ACRE-FEET	16	26.8	110	105	177	251	258	61.5	28.0	4.3	.6	4.8

YEAR OR PERIOD MEAN 1.44
ACRE-FEET 1040

SAWPIT CREEK - U.S.G.S.

Location:
One quarter mile below junction of Monrovia and Sawpit Creeks.
Approximately 1½ miles north of Monrovia, Los Angeles County. One half mile below Flood Control Dam.

Drainage Area:
5.23 square miles.

Installed by:
U.S.G.S. Water Resources Branch.

Records Available:
November 8, 1926 to Sept. 30, 1929 at U.S.G.S.

Gage:
Stevens continuous water stage recorder in rubble masonry well and shelter, on east bank of stream.

Discharge Measurements:
Low water measurements by wading near gage.
High water measurements from gaging bridge 5' below gage.

Channel and Control:
Stream bed consists of coarse gravel and boulders.
Concrete control built in summer of 1927, with low water notch 1 ft. deep and 2 ft. crest. High water notch 3 ft. deep, 10 ft. wide.

Extremes of Discharge:
Maximum 1928-1929 2.6 c.f.s. March 10, 1929
Minimum 1928-29. Dry at various times during year.

Diversions:
Part of the water supply for the City of Monrovia is obtained from the two branches of Sawpit Creek above the gage. See U.S.G.S. records for Monrovia Pipe Line

Regulation:
Flow regulated by Flood Control Dam

Accuracy:
Good.

Cooperation:
Constructed and operated by U.S.G.S. Water Resources Branch. Operated in cooperation with the Los Angeles County Flood Control District.

F. C. Dist. Form 104- 500 -9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 5

Discharge measurements of Sawpit U.S.G.S. ~~River~~ Creek

~~at~~ near Monrovia, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	10-2	Roger P.Dalton	3.5	.56	1.03	.36	.58		.6		7	0	1/6	647
2	12-13	do	2.6	.56	.64	.28	.36		do		6	0	do	do
3	12-14	do	2.4	.43	.86	.24	.35		do		5	0	1/12	do
4	12-21	do	1.5	.22	.36	.17	.08		do		3	0	do	do
5	12-21	do	1.2	.34	.47	.17	.16		do		2	0	do	do
6	1929 1-26	do	.6	.11	.61	.07	.07		do		1	0	do	do
7	2-5	do	2.1	.39	.67	.20	.26		do		4	0	do	do
8	3-1	do	1.0	.14	.57	.14	.08		do		2	0	do	do
9	3-11	do	3.8	.70	.97	.34	.69		do		7	0	do	do
10	3-13	do	2.0	.34	.53	.29	.18		do		4	0	do	do
11	3-19	do	.8	.10	.40	.17	.04		do		1	0	do	do
12	3-23	do	.5	.06	.50	.16	.03		do		1	0	do	do
13	4-4	do	1.9	.35	.92	.29	.32		do		4	0	do	do
14	4-19	do	.5	.10	.80	.18	.08		do		1	0	do	do
15	5-21	do	2.1	.42	.57	.27	.24		do		4	0	do	do
16	6-12	do	1.5	.27	.50	.22	.13		do		3	0	do	do
17	7-26	do	1.5	.29	.62	.24	.18		do		3	0	do	do
18	8-9	do	1.5	.27	.60	.22	.16		do		3	0	do	do
19	9-20	G.P.Patterson	1.8	.46	1.17	.34	.54		do		3	0	1/6	271 640
20	9-27	R.P.Dalton	1.5	.34	.83	.27	.28		do		3	0	1/2	271 647

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Discharge measurements of Sawpit-U.S.G.S. ~~Xxxx~~ Creek

~~xxx~~ near Monrovia, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
U1	1/21	F. C. Ebert	2.5	.44	1.02	.29	.45		.6		5	-.02	1/6	27214
U2	1/22	do	1.4	.38	.95	.21	.36		do		do	0	1/6	do
U3	2/4	H. J. Tompkins	1.3	.46	.39	.16	.18		do		do	0	1/12	885
U4	3/10	F. C. Ebert	5.5	1.2	1.83	.63	2.20		do		9	0	1/6	27214
U5	3/11	H. J. T.	2.0	.60	1.58	.38	.95		do		2	0	1/12	885
U6	3/11	F. C. E.	2.7	.42	1.05	.30	.44		do		4	0	1/6	27214
U7	4/6	H. J. T.	2.0	.65	1.15	.34	.75		do		3	0	1/12	885
U8	4/6	F. C. E.	2.3	.47	.87	.31	.41		do		5	0	1/6	27214
U9	6/26	H. J. T.	2.0	.40	.68	.28	.27		do		4	0	1/12	885
U10	7/17	H. J. T.	1.2	.36	.89	.22	.32		do		2	0	1/12	do
U11	7/24	do	1.2	.36	.72	.22	.26		do		2	0	1/12	do
U12	7/31	do	1.3	.40	.70	.22	.31		do		2	0	1/12	do
U13	8/7	do	1.5	.30	.83	.22	.25		do		2	0	1/12	do
U14	9/24	do	1.4	.56	.95	.30	.53		do		2	0	1/12	do

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 1

Discharge measurements of Arroyo Seco U.S.G.S. Station

3 Miles above Devil's Gate Dam, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.						271
1	1-31	Roger P,Dalton	2	.77	2.35	1.30	1.81	.6			2	0	1/6	647
2	2-15	do	4.8	2.49	.79	1.34	1.97		do		9	0	1/4	do
3	3-1	do	5.3	3.03	.57	1.34	1.73		do		10	0	do	do
4	3-8	do	5	2.92	.52	1.33	1.52		do		10	0	do	do
5	3-15	do	9.5	5.52	.96	1.70	5.32		do		10	0	1/6	do
6	3-22	do	7.0	3.28	.94	1.49	3.08		do		13	0	1/4	do
7	3-29	do	6	2.73	.78	1.28	2.15		do		11	0	do	do
8	4-12	do	13.5	8.36	.70	1.76	6.85		do		13	0	do	do
9	4-19	do	13	7.60	.57	1.49	4.35		do		13	0	1/6	do
10	4-26	do	12	7.00	.42	1.37	2.95		do		11	0	1/4	do
11	5-3	do	8	2.58	.85	1.31	2.20		do		8	0	1/6	do
12	5-10	do	8	2.59	.72	1.32	1.87		do		8	0	do	do
13	5-17	do	8.2	2.57	.61	1.30	1.57		do		15	0	1/4	do
14	5-24	do	6.7	2.09	.56	1.28	1.16		do		13	0	1/6	do
15	5-31	do	4.7	1.46	.64	1.26	.88		do		9	0	1/12	do
16	6-7	do	4.7	1.36	.57	1.24	.73		do		9	0	1/6	do
17	6-14	do	3.5	1.13	.63	1.20	.71		do		7	0	1/12	do
18	6-21	do	3.4	.91	.43	1.16	.41		do		7	0	do	do
19	6-28	do	1	.33	.71	1.09	.23		do		2	0	do	do
20	7-5	do	.70	.14	.72	.97	.10		do		2	0	do	do
21	7-12	do	.50	.12	.80	1.03	.10		do		2	0	do	do
		Measurements by U.S.G.S.												885
	1928													
U1	11-2	H.J.Tompkins	.6	.18	.67	1.12	.12		do		2	0	do	do
U2	11-16	do	.7	.24	1.08	1.16	.26		do		2	0	do	do
U3	11-23	do	.6	.21	.91	1.18	.19		do		2	0	do	do
U4	12-4	do	2	.66	1.69	1.26	1.1		do		4	0	do	do
U5	12-11	do	2	.80	1.32	1.80	1.80		do		4	0	do	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Discharge measurements of Sawpit-U.S.G.S. ~~xxxx~~ Creek

~~xxx~~ near Monrovia, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating: Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
U1	1/21	F. C. Ebert	2.5	.44	1.02	.29	.45		.6		5	-.02	1/6	27214
U2	1/22	do	1.4	.38	.95	.21	.36		do		do	0	1/6	do
U3	2/4	H. J. Tompkins	1.3	.46	.39	.16	.18		do		do	0	1/12	885
U4	3/10	F. C. Ebert	5.5	1.2	1.83	.63	2.20		do		9	0	1/6	27214
U5	3/11	H. J. T.	2.0	.60	1.58	.38	.95		do		2	0	1/12	885
U6	3/11	F. C. E.	2.7	.42	1.05	.30	.44		do		4	0	1/6	27214
U7	4/6	H. J. T.	2.0	.65	1.15	.34	.75		do		3	0	1/12	885
U8	4/6	F. C. E.	2.3	.47	.87	.31	.41		do		5	0	1/6	27214
U9	6/26	H. J. T.	2.0	.40	.68	.28	.27		do		4	0	1/12	885
U10	7/17	H. J. T.	1.2	.36	.89	.22	.32		do		2	0	1/12	do
U11	7/24	do	1.2	.36	.72	.22	.26		do		2	0	1/12	do
U12	7/31	do	1.3	.40	.70	.22	.31		do		2	0	1/12	do
U13	8/7	do	1.5	.30	.83	.22	.25		do		2	0	1/12	do
U14	9/24	do	1.4	.56	.95	.30	.53		do		2	0	1/12	do

9-211 b DEPARTMENT OF THE INTERIOR—UNITED STATES GEOLOGICAL SURVEY—WATER RESOURCES BRANCH File No. 382

~~Daily gage height, in feet~~,
Daily discharge in second-feet, of [illegible] *for the year ending September 30, 1929*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	.	.	0.1	0.1	0.1	.	.	.	.	0	.
2	.2	.	.	.1	.1	.1	.	.	.	.	.1	.
3	.4	.	0.2	.1	.1	.1	.	.	.	.	.1	.
4	.4	.	.	.1	.1	.1	0.1	.	.	.	.1	.
5	.2	.	.	.1	.1	.1	.1	.	.	.	.1	.
6	.1	.	.	.1	.1	.1	.1	.	.	.	.1	.
7	.	.	.	.1	.1	.1	.1	.	.	.	.1	.
8	.	.	.	.1	.1	.1	.1	.	.	.	.1	.
9	.	.	.	.1	.1	.1	.1	.	.	.	.1	.
10	.	.	.1	.1	.1	.1	.1	.	.	.	.1	.
11	.	.	.3	.1	.1	.1	.1	.	.	.	.1	.
12	.	.	.3	.1	.1	.1	.1	.	.	0.1	.1	.
13	.	.	.4	.1	.1	.1	.1	.	.	.1	.1	.
14	.	0.3	.4	.1	.1	.1	.1	.	.	.1	.1	.
15	.	.	.4	.1	.1	.1	.1	.	.	.1	.1	.
16	.	.	.5	.1	.1	.1	.1	.	.	.1	.	.
17	.	.1	.5	.1	.1	.1	.1	.	.	.1	.	.
18	.	.	.5	.1	.1	.1	.1	.	.	.1	.	0.4
19	.	.	.1	.1	.1	.1	.1	.	.	.1	.	.4
20	.	.	.1	.1	.1	.1	.1	.	.	.1	.	.4
21	.	.	.1	.1	.1	.1	.1	.	0	.1	.	.4
22	.	.	.1	.1	.1	.1	.1	.	.1	.1	.	.5
23	.	.	.1	.1	.1	.	.	.	.1	.1	.	.5
24	.	.	.1	.1	.1	.	.	.	.1	.1	.	.5
25	.	.	.1	.1	.1	.	.	.	.1	.1	.	.5
26	.	.	.1	.1	.1	.	.	.	.1	.1	.	.4
27	.	.	.1	.1	.1	.	.	.	.1	.4	.	.4
28	.	.	.1	.1	.1	.	.	.	.	.4	.	.3
29	.	.	.1	.1	.	.	.	.	.	.4	.	.3
30	.	.	.1	.1	----	.	.	.	.	.4	.	.3
31	.	----	.1	.1	----	.	----	.	----	.4	.	----
	2.4 *	.3 *	4.0 *	3.0 *	3.4 *	4.3 *	3.6 *		1.8 *	5.0 *	3.8 *	5.3 *
MEAN	.08	.01	.13	.12	.12	.20	.12	0	.06	.16	.10	.18
ACRE-FEET	4.9	.6	8.0	7.4	6.7	12.3	7.1	0	3.6	9.8	6.1	10.7

YEAR OR PERIOD — MEAN .11 — ACRE-FEET 77.2

Dalton or Burroughs—August, 1926.

6—7233

~~Daily gage height, in feet~~,
Daily discharge in second-feet, of [illegible] for the month of [illegible] 29

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
2	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
3	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
4	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
5	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
6	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
7	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
8	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
9	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
10	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
11	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
12	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
13	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
14	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
15	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
16	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
17	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
18	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
19	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
20	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
21	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
22	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
23	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
24	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
25	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
26	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
27	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
28	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
29	.8	.8	.8	1.0	1.2	1.4	1.6	1.2	.9	.6	.4	.4
30	.8	.8	.8	1.0	----	1.4	1.6	1.2	.9	.6	.4	.4
31	.8	----	.8	1.0	----	----	----	1.2	----	.6	.4	----
	[illegible]	24.0*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.0*	12.4*	12.0*
MEAN	.81	.81	1.07	1.07	1.21	1.35	1.69	1.14	.89	.58	.49	.60
ACRE-FEET	49.8	48.2	65.8	65.8	67.2	830	101	70.1	53.0	35.7	30.1	35.7

YEAR OR PERIOD MEAN 0.92
ACRE-FEET 105

Dalton or Burroughs—August, 1926.

C-7223

F. C. Dist. Form 104 - 500 - 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 1

Discharge measurements of Arroyo Seco U.S.G.S. Station

3 Miles above Devil's Gate Dam, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	1-31	Roger P,Dalton	2	.77	2.35	1.30	1.81		.6		2	0	1/6	647
2	2-15	do	4.8	2.49	.79	1.34	1.97		do		9	0	1/4	do
3	3-1	do	5.3	3.03	.57	1.34	1.73		do		10	0	do	do
4	3-8	do	5	2.92	.52	1.33	1.52		do		10	0	do	do
5	3-15	do	9.5	5.52	.96	1.70	5.32		do		10	0	1/6	do
6	3-22	do	7.0	3.28	.94	1.49	3.08		do		13	0	1/4	do
7	3-29	do	6	2.73	.78	1.28	2.15		do		11	0	do	do
8	4-12	do	13.5	8.36	.70	1.76	6.85		do		13	0	do	do
9	4-19	do	13	7.60	.57	1.49	4.35		do		13	0	1/6	do
10	4-26	do	12	7.00	.42	1.37	2.95		do		11	0	1/4	do
11	5-3	do	8	2.58	.85	1.31	2.20		do		8	0	1/6	do
12	5-10	do	8	2.59	.72	1.32	1.87		do		8	0	do	do
13	5-17	do	8.2	2.57	.61	1.30	1.57		do		15	0	1/4	do
14	5-24	do	6.7	2.09	.56	1.28	1.16		do		13	0	1/6	do
15	5-31	do	4.7	1.46	.64	1.26	.88		do		9	0	1/12	do
16	6-7	do	4.7	1.36	.57	1.24	.73		do		9	0	1/6	do
17	6-14	do	3.5	1.13	.63	1.20	.71		do		7	0	1/12	do
18	6-21	do	3.4	.91	.43	1.16	.41		do		7	0	do	do
19	6-28	do	1	.33	.71	1.09	.23		do		2	0	do	do
20	7-5	do	.70	.14	.72	.97	.10		do		2	0	do	do
21	7-12	do	.50	.12	.80	1.03	.10		do		2	0	do	do
		Measurements by U.S.G.S.												885
U1	1928 11-2	H.J.Tompkins	.6	.18	.67	1.12	.12		do		2	0	do	do
U2	11-16	do	.7	.24	1.08	1.16	.26		do		2	0	do	do
U3	11-23	do	.6	.21	.91	1.18	.19		do		2	0	do	do
U4	12-4	do	2	.66	1.69	1.26	1.1		do		4	0	do	do
U5	12-11	do	2	.80	1.32	1.80	1.80		do		4	0	do	do

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 1

Discharge measurements of Arroyo Seco U.S.G.S. ~~River~~ Creek

at
near , during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
U6	12-14	H.J.Tompkins	2	1.0	5.10	1.56	5.1		.6		4	0	1/12	885
U7	1929 1-4	do	2	.80	1.50	1.26	1.2		do		4	0	1/6	do
U8	1-16	do	2	.70	2.14	1.32	1.5		do		4	0	1/12	do
U9	1-21	do	2	1.01	5.00	1.64	5.0		do		4	0	do	do
U10	2-2	do	10	8.5	1.30	1.86	11		do		5	0	1/4	do
U11	2-18	do	10	7.7	.92	1.74	7.1		do		10	0	do	do
U12	2-26	do	2	1.0	2.20	1.30	2.2		do		4	0	1/6	do
U13	3-5	do	2	1.1	2.18	1.34	2.4		do		4	0	do	do
U14	3-10	do	25	24	3.63	2.42	87		do		9	.11	1/3	do
U15	3-14	do	9	6.2	1.07	1.74	6.6		do		9	0	1/4	do
U16	3-27	do	2	0.85	2.94	1.30	2.5		do		4	0	1/12	do
U17	4-5	do	22	15	2.34	2.22	35		do		9	0	1/4	do
U16	3-27	do	2	.85	2.94	1.30	2.5		do		4	0	1/12	do
U18	4-6	F.C.Ebert	19	13	1.62	2.00	21		do		19	.01	1/2	27214
U19	4-13	H.J.Tompkins	9	6.2	.87	1.66	5.4		do		9	0	1/4	885
U20	4-23	do	8	4.4	.80	1.40	3.5		do		8	0	1/6	do
U21	5-2	do	2	.60	2.17	1.30	1.3		do		4	0	do	do
U22	5-10	do	2	.6	1.67	1.30	1.0		do		4	0	1/10	do
U23	5-17	do	2	.7	1.72	1.29	1.2		do		4	0	do	do
U24	6-11	do	2	.6	1.33	1.24	.8		do		4	0	do	do
U25	6-27	do	.80	.16	1.00	1.10	.16		do		2	0	do	do

9-211 b DEPARTMENT OF THE INTERIOR—UNITED STATES GEOLOGICAL SURVEY—WATER RESOURCES BRANCH File No. 4

Daily gage height, in feet,
Daily discharge in second-feet, of [illegible] *for the water year ending Sept. 30, 1929*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	.	.	.	.	.	.	.	.	.	.	.	.
2	.	.	.	.	.	.	.	.	.	.	.	.
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31	.	———	.	.	———	.	———	.	———	.	———	———
MEAN	Est (0.1)	.20	1.86	1.69	3.10	5.63	8.53	1.31	.59	.08	0	0
ACRE-FEET	3.1	11.9	114	104	172	346	508	80.5	35.1	4.9	0	0

YEAR MEAN 1.90

PERIOD ACRE-FEET 1380

Dalton or Burroughs—August, 1926.

6-7225

BIG SANTA ANITA - U.S.G.S.

Location:
In SW.¼ NE.¼ sec.10,T 1 N, R.11 W.,at head of Hermit's Falls, 4 milesnortheast of Sierra Madre,Los Angeles County,California. Above Flood Control Dam.

Drainage Area:
10.5 square miles.

Records Available:
July 31,1916 to Sept. 30,1929 at U.S.G.S.

Gage:
Water-stage recorder on right bank at pool at head of Hermit's Falls,

Discharge Measurements:
Made from cable 300' below gage or from wading.

Channel and Control:
Channel at gage is pool in bedrock;bed is rough and steep above and below pool. Banks are high,clean and not subject to overflow. Control is bedrock,the same for all stages,and is permanent.

Extremes of Discharge:
Maximum mean daily 1928-1929 30 c.f.s. April 4,1929
Minimum mean daily 1928-1929 dry at various times.

Diversions:
None.

Regulation:
None.

Accuracy:
Good.

Cooperation:
Constructed by U.S.G.S.Water Resources Branch.Operated by U.S.G.S. in cooperation with the Los Angeles County Flood Control District.

F. C. Dist. Form 104 -500-9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 4

Discharge measurements of Big Santa Anita U.S.G.S. ~~Index~~ Creek

~~near~~ Sierra Madre, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Per cent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							271
U1	2-1	Dalton & Ebert	6.1	2.08	.70	.93	1.45		.6		5	0	1/3	647
U2	3-12	R.P.Dalton	14	8.62	.89	1.28	7.67		do		14	0	1/4	do
U3	3-21	do	6.0	2.14	1.24	1.02	2.65		do		6	0	1/6	do
U4	4-23	do	7.0	3.03	1.18	1.06	3.59		do		7	0	do	do
U5	5-16	do	3.7	1.11	1.15	.94	1.28		do		7	0	do	do
		U.S.G.S. Measurements												
	1928													
U1	10-10	H.J.Tompkins	.8	.16	.44	.60	.07		do		2	0	1/12	885
U2	10-17	do	.8	.24	.75	.70	.18		do		2	0	do	do
U3	11-1	do	.8	.24	.75	.70	.18		do		2	0	do	do
U4	11-7	do	.8	.24	.96	.70	.23		do		2	0	do	do
U5	11-21	do	1.0	.40	1.18	.76	.47		do		2	0	do	do
U6	11-28	do	.9	.36	1.56	.78	.55		do		2	0	do	do
U7	12-7	do	1.7	.70	1.28	.84	.90		do		3	0	do	do
U8	12-12	do	1.6	.90	1.56	.91	1.40		do		3	0	do	do
U9	12-13	do	7.0	5.2	1.08	1.15	5.6		do		7	0	1/4	do
U10	12-20	do	1.7	.70	1.43	.89	1.0		do		3	0	1/12	do
U11	12-26	do	1.7	.70	1.28	.86	.95		do		3	0	do	do
	1929													
U12	1-9	do	1.8	.80	1.38	.84	1.1		do		2	0	do	do
U13	1-16	do	6.5	3.9	1.00	1.10	3.9		do		6	0	1/5	do
U14	1-22	do	6.5	3.1	.90	1.00	2.8		do		7	0	1/6	do
U15	1-31	do	6.0	2.4	.71	.91	1.7		do		7	0	1/6	do
U16	2-6	do	6.0	3.4	1.03	1.05	3.5		do		6	0	1/4	do
U17	2-13	do	5.5	2.1	1.00	.96	2.0		do		6	0	do	do
U18	2-19	do	6.0	3.5	1.06	1.06	3.7		do		6	0	1/6	do
U19	3-1	do	6.0	2.3	.78	.94	1.8		do		6	0	do	do
U20	3-6	do	6.0	1.7	.71	.90	1.2		do		6	0	do	do
U21	3-11	do	15	11	1.09	1.40	12		do		7	.01	1/3	do

LOS ANGELES RIVER - STEWART & GRAY ROAD

Location:
On highway bridge over Los Angeles River at Stewart and Gray Road, about 3 miles west of Downey, Los Angeles County, California. About ½ mile above junction with the Rio Hondo River.

Drainage Area:
564 square miles. (Approximate)

Installed by:
State Division of Water Rights of California 1923.

Reestablished by:
Los Angeles County Flood Control District, Mar.1, '28.

Records Available:
For previous records see Bulletin #5, State of Calif. Division of Water Rights, San Gabriel Investigation March 1, 1928 to Sept.30, 1929 at Los Angeles County Flood Control District.

Gage:
Rational 7 day water stage recorder set on corrugated iron pipe stilling well attached to downstream end of bridge pier.

Discharge Measurements:
High watervmeasurements from upstream side of bridge. Low water measurements made by wading near gage.

Channel and Control:
Channel - sand and silt. No control.

Extremes of Discharge:
Maximum 1928-9 2007 c.f.s. Nov.14, 1928
Minimum 1929-9 Dry at various times during the year.

Diversions:
None.

Regulation:
None.

Accuracy:
Fair.

Cooperation:
Located, constructed and operated by the Los Angeles County Flood Control District in cooperation with the U.S.G.S., Water Resources Branch.

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 4

Discharge measurements of Big Santa Anita U.S.G.S. River Creek

at
near , during the year ending September 30, 19

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
U22	3-20	H.J.Tompkins	6	2.3	1.31	1.06	3.0		.6		6	0	1/6	885
U23	3-26	do	5	2.1	1.33	1.00	2.8		do		5	0	1/4	do
U24	4-6	do	13	13	1.31	1.52	17		do		10	.01	1/2	do
U25	4-10	do	12	8.1	.95	1.25	7.7		do		12	0	1/4	do
U26	4-17	do	7	3.7	1.21	1.10	4.6		do		7	0	do	do
U27	4-24	do	7	3.1	1.16	1.05	3.6		do		7	0	do	do
U28	4-30	do	7	2.5	1.12	1.02	2.8		do		7	0	1/6	do
U29	5-8	do	4	1.6	1.44	.98	2.3		do		4	0	do	do
U30	5-15	do	3.9	1.2	1.17	.94	1.4		do		4	0	do	do
U31	5-22	do	2.3	.90	1.89	.94	1.7		do		4	0	1/4	do
U32	5-29	do	2.2	.80	1.50	.90	1.2		do		11	0	1/6	do
U33	6-5	do	1.6	.65	1.54	.88	1.0		do		2	0	do	do
U34	6-12	do	1.8	.70	1.57	.88	1.1		do		2	0	1/3	do
U35	6-19	do	1.8	.70	1.14	.84	.8		do		2	0	1/12	do
U36	6-26	do	1.8	.5	.84	.78	.42		do		2	0	do	do
U37	7-3	do	1.8	.55	.69	.76	.38		do		2	0	do	do
U38	7-10	do	1.0	.30	.83	.72	.25		do		2	0	do	do
U39	7-17	do	1	.25	.64		.16		do		2	0	do	do
U40	7-24	do	.9	.18	.50	.65	.09		do		2	0	do	do
U41	7-31	do	.9	.22	.50	.64	.11		do		2	0	do	do
U42	8-7	do	.9	.18	.28	.60	.05		do		2	0	do	do
U43	8-16	do	5 gal. Container used			.62	.03							

Other low flow measurements were made with a 5 gal. container

9-211 b DEPARTMENT OF THE INTERIOR—UNITED STATES GEOLOGICAL SURVEY—WATER RESOURCES BRANCH File Number 377

~~Daily gage height, in feet,~~

Daily discharge in second-feet, of [illegible] *for the year ending September 30, 1929*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.1
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.1
17	[illegible]	.7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.1	.1
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	.1
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MEAN	.16	.49	1.55	1.52	3.00	3.89	6.96	1.63	.80	.18	.05	.05
ACRE-FEET	9.8	29.2	95.3	93.5	167	239	414	100	47.6	11.1	3.1	3.0

YEAR OR PERIOD MEAN 1.68

ACRE-FEET 1210

Dalton or Burroughs—August, 1926.

LITTLE SANTA ANITA CREEK - USGS

Location:
Near center of W.½ Sec.9,T 1 N., R.11 W.,2 miles northeast of Sierra Madre,Los Angeles County,Calif. Above Flood Control Dam.

Drainage Area:
1.9 square miles.

Records Available:
April 15,1916 to Sept.30,1929.

Gage:
Water-stage recorder on left bank about 150' below Scherer's cabin.

Discharge Measurements:
Made from wooden bridge near gage or by wading.

Channel and Control:
Bed consists of gravel and boulders;one channel at all stages;straight for 75' above gage. Right bank is rock cliff;left bank is stone wall 5' high which is probably above maximum stage. Control is small concrete dam,with triangular notch at left end,just below gage. Control is not permanent for high stages on account of varying amounts of gravel deposited in pool just above dam.

Extremes of Discharge:
Maximum 1928-1929 14 c.f.s. April 4,1929
Minimum 1928-1929 Dry at various times during year
For other extremes of discharge see U.S.G.S.Water Supply Papers/

Diversions:
None above the station.

Regulation:
None.

Accuracy:
Good.

Cooperation:
Constructed and operated by U.S.G.S.Water Resources Branch. Measurements made in cooperation with the Los Angeles County Flood Control District.

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 73

Discharge measurements of Little Santa Anita Creek

at Double-Drive, Arcadia, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	1-19	Roger P. Dalton	5.5	2.50	1.63	.08	4.07		.6		9	0	1/4	647
2	1-24	do	5.3	2.69	1.49	.08	4.00		do		10	0	1/4	do
3	1-26	do	5.3	2.56	1.50	.075	3.83		do		10	0	do	do
4	3-1	do	5.7	2.89	1.52	.13	4.40		do		11	0	do	do
5	4-4	do	6.0	1.50	3.67	.15	5.50		do		6	0	1/12	do

EATON CREEK - U.S.G.S.

Location:
Near line between secs.2 and 11,T 1 N.,R 12 W., at mouth of canyon,just above Mt.Wilson toll bridge, 4 miles northeast of Pasadena,Los Angeles County,Calif.

Drainage Area:
6.5 square miles.

Records Available:
March 1,1918 to Sept.30,1929 at U.S.G.S.

Gage:
Water-stage recorder on left bank just above toll bridge

Discharge Measurements:
Made by wading near gage.

Channel and Control:
Gravel and boulders;fairly permanent;concrete control.

Extremes of Discharge:
Maximum 1928-1929 235 c.f.s. April 4,1929
Minimum 1928-1929 Dry at various times during the year.
For other extremes of discharge refer to U.S.G.S. Water Supply Papers.

Diversions:
City of Pasadena diverts water above the station.

Regulation:
None.

Accuracy:
Good.

Cooperation:
Constructed and operated by U.S.G.S. Water Resources Branch in cooperation with the City of Pasadena and Los Angeles County Flood Control District.

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 74

Discharge measurements of Eaton [redacted] Creek

at [redacted] Foothill Blvd., during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	11-14	Roger P. Dalton	11.0	2.92	1.43	1.06	4.18		.6		11	0	1/4	647

F. C. Dist.—Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 75

Discharge measurements of South Myrtle Drain ~~River~~ Creek

~~near~~ near Monrovia, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	2-18	Roger P.Dalton	10.1	5.35	1.43	-	7.67		.6		10	.20	1/3	-
2	4-4	do	23.5	17.5	5.28	1.15	92.7		do		12	.10	1/2	271 2647
3	4-4	do	10.5	7.78	1.55	.54	12.1		do		11	.09	1/4	do

HYDROGRAPH AT S. & G. ROAD
LOS ANGELES RIVER
NOV. 14 1928

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20
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0
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MID
2 AM
4 AM
6 AM
8 AM
10 AM
NOON
2 PM
4 PM
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LOS ANGELES RIVER
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F. C. Dist. Form 104--500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Discharge measurements of Los Angeles River ~~Creek~~

at ~~Xxxx~~ Stewart & Grey Road, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	262
1	10-20	Rupert&Bollinger	7.0	1.24	.40	2.22	.50		.6		11	0	1/6	556
2	10-27	do do	6.5	1.24	.66	2.25	.82		do		11	0	1/4	do
3	11-10	Hardgrove&Bollinger	4	.90	.53	2.20	.48		do		5	0	1/6	271 637
4	11-14	do & Sampson	60	49.2	1.43	2.37	70.3		do		12	0	1/2	do
5	11-14	do do	68	134.7	5.98	3.25	806.0		do		10	.50	3/4	do
6	11-14	do do	60	58.5	1.80	2.43	105.0		do		12	.02	1/2	do
7	11-15	do	37	20.8	.42	1.89	8.73		do		9	.02	1/2	do
8	11-24	L.W.Jordan	6.5	.86	.36	1.64	.31		do		6	0	1/6	FC2
9	12-1	do	5.0	.61	.48	1.64	.29		do		8	0	1/3	do
10	12-3	Jordan&Crittenden	64	56.0	3.84	2.66	215		do		14	.05	1/2	do
11	12-8	L.W.Jordan	13	3.43	.71	1.90	2.42		do		12	.01	1/2	do
12	12-13	Jordan&Crittenden	55	29.6	1.98	2.32	58.6		do		15	.01	1/2	do
13	12-22	L.W.Jordan	9	3.49	.75	1.89	2.62		do		9	0	1/4	do
14	12-29	do	15	6.54	1.74	2.03	11.4		do		15	0	3/4	271 636
15	1-12	do	3	.73	.48	-	.35		do		6	0	-	do
16	1-16	do	47	25.9	2.34	2.34	60.7		do		16	.07	1/2	do
17	1-19	do	13	3.87	1.60	1.81	6.21		do		11	.02	1/2	do
18	1-26	do	3.5	.98	.88	1.53	.85		do		7	.01	1/2	do
19	2-2	do	44	30.1	2.78	2.19	83.8		do		12	.02	1/6	do
20	2-8	do	21.5	7.08	1.33	1.84	9.45		do		11	0	1/2	do
21	2-18	Jordan&Crittenden	74.4	183	6.01	3.26	1100		do		10	.25	2/3	do
22	2-22	do	45	18.8	2.06	2.10	38.7		do		16	.01	1/2	do
23	3-1	do	11	4.95	1.05	1.87	5.20		do		10	0	1/2	do
24	3-8	do	5.5	1.10	.51	1.70	.56		do		10	0	1/4	do
25	3-10	Jordan&Crittenden	137.6	271	4.89	4.10	1325		doq		22	.40	1/4	do
26	3-15	do	14	4.25	1.38	2.24	5.86		do		13	.04	1/2	do
27	3-22	do	6.0	130	.52	2.17	.68		do		6	0	1/4	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Discharge measurements of Los Angeles River

at Stewart & Grey Road, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	3-29	L.W.Jordan	4.3	.93	.49	2.17	.46		.6		8	0	-	636
29	4-4	Jordan&Crittenden	141	182	3.78	3.42	688		do		17	.15	1	do
30	4-6	do	18.5	7.41	1.28	2.38	9.46		do		12	.01	1/2	do
31	4-12	do	5.8	1.57	.65	2.28	1.02		do		6	0	1/3	do
32	4-19	do	14.3	3.47	.61	2.35	2.21		do		14	.01	1/2	do
33	4-26	do	5.0	1.05	.52	2.28	.55		do		5	0	1/4	do
34	5-3	do	4.2	.70	.60	2.26	.42		do		8	0	1/4	do
35	5-10	do	10.4	2.28	.71	2.31	1.62		do		11	0	1/3	do
36	5-17	do	6.3	1.28	.62	2.30	.81		do		7	.01	1/2	do
37	5-24	do	4.2	1.21	1.07	2.36	1.30		do		8	0	1/4	do
38	5-31	do	4.2	.87	.90	2.33	.78		do		5	.04	1/6	do
39	5-31	do	8.9	3.27	.88	2.39	2.89		do		9	0	1/2	do
40	6-7	do	7.0	1.61	.53	2.34	.86		do		7	.03	1/3	do
41	6-14	do	5.5	1.00	.61	2.32	.61		do		5	0	1/6	do
42	6-21	do	6.8	1.74	.60	2.33	1.04		do		8	0	1/3	do
43	6-28	do	7.0	1.68	.56	2.33	.94		do		7	0	1/6	do
44	7-19	do	8.0	1.98	.80	2.34	1.51		do		9	0	1/2	do
45	7-26	do	7.0	1.74	.87	2.39	1.52		do		6	.04	1/2	do
46	8-2	do	6.5	2.13	.95	2.42	2.03		do		7	0	1/4	do
47	8-9	do	5.7	2.34	.89	2.40	2.09		do		6	0	1/6	do
48	8-16	do	6.0	2.09	.96	2.39	2.00		do		6	0	1/6	do
49	8-23	do	8.0	2.40	.91	2.39	2.18		do		8	0	1/6	do
50	8-30	do	5.0	1.85	.98	2.38	1.81		do		7	0	1/6	do
51	9-6	do	5.0	1.60	1.07	2.34	1.71		do		5	0	1/6	do
52	9-13	do	6.0	2.14	1.00	2.33	2.15		do		6	0	1/6	do
53	9-18	do	41	27.1	2.31	2.63	62.5		do		12	.02	1/3	do
54	9-20	do	5.5	1.80	1.08	2.29	1.94		do		6	0	1/6	do
55	9-27	do	11.1	3.34	1.20	2.36	4.03		do		11	0	1/6	do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

High Water Table

File No. 34

Rating table for. Los Angeles River

Stewart & Gray Road, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
2.10	10.00		2.50	137		2.90	343		3.30	600		3.70	933	
		1.0						5.80			7.40			9.70
.12	12.00		.52	147	5.00	.92	355		.32	615		.72	952	
.14	14.00		.54	157		.94	366		.34	630		.74	972	
.16	16.00		.56	167		.96	378		.36	644		.76	991	
		1.33												
.18	18.70		.58	177		.98	389		.38	659		.78	1011	
2.20	21.30		2.60	187		3.00	401		3.40	674		3.80	1030	
					5.00			6.30			8.00			9.80
.22	24.00		.62	197		.02	414		.42	690		.82	1050	
		2.167												
.24	28.30		.64	207		.04	426		.44	706		.84	1069	
.26	32.70		.66	217		.06	439		.46	722		.86	1089	
.28	37.00		.68	227		.08	451		.48	738		.88	1108	
		3.833												
2.30	44.70		2.70	237		3.10	464		3.50	754		3.90	1128	
					5.10			6.60			8.70			9.80
.32	52.30		.72	247		.12	477		.52	772		.92	1148	
.34	60.00		.74	257		.14	490		.54	789		.94	1167	
		4.833												
.36	69.70		.76	268		.16	504		.56	807		.96	1187	
.38	79.30		.78	278		.18	517		.58	824		.98	1206	
2.40	89.00		2.80	288		3.20	530		3.60	841		4.00	1226	
		4.833			5.50			7.00			9.20			9.90
.42	98.70		.82	299		.22	544		.62	859		.02	1246	
.44	108.00		.84	310		.24	558		.64	878		.04	1266	
.46	118.00		.86	321		.26	572		.66	896		.06	1285	
		4.833												
.48	128.00		.88	332		.28	586		.68	915		.08	1305	

The above table is not applicable for obstructed channel conditions. It is based on 55 discharge measurements made during 1928-1929

and is well defined between second-feet and second-feet.

High water curve applies from gage height of 2.10 to 4.70

Computed by MAR

Checked by LWJ

Date Sept. 30, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Rating table for L. A. River (Continued)

....., *from* ....., 19....., *to* ....., 19.....

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
4.10	1325		4.50	1737										
		10.0			10.4									
.12	1345		.52	1758										
.14	1365		.54	1779										
.16	1385		.56	1799										
.18	1405		.58	1820										
4.20	1425		4.60	1841										
		10.4			10.4									
.22	1446		.62	1862										
.24	1467		.64	1883										
.26	1487		.66	1903										
.28	1508		.68	1924										
4.30	1529		4.70	1945										
		10.4			10.4									
.32	1550		.72	1966										
.34	1571		.74	1987										
.36	1591		.76	2007										
.38	1612		.78	2028										
4.40	1633		4.80	2049										
		10.4												
.42	1654													
.44	1675													
.46	1695													
.48	1716													

The above table is not applicable for obstructed channel conditions. It is based on 55 discharge measurements made during 1928-1929

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by MAR

Checked by LWJ

Date Sept. 30, 1929

Dist.—Form 105—500 9-28

ly Gage Height, in Feet, and Discharge, in Second-Feet, of Los Angeles River

At Stewart & Gray Road for the Year Ending September 30, 1929

nage Area 564 Square Miles. [Rational 7 day Water Stage Recorder Observer.]

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Gage Read to continuous a Day. Used rating table dated Sept. 30, 1929

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1	1.64	0.51	1.54	0.12	1.59	0.30	1.88	2.36	H	134.00	2.04	5.54	1	1.67	0.66	1.63	0.46	1.81	1.65	1.56	0.18	1.83	1.82	1.85	2.02	1
2	1.65	.55		Dry	1.62	.42	1.94	3.16	H	70.80	1.93	3.02	2	1.65	.55	1.62	.42	1.73	1.03	1.69	.78	1.83	1.82	1.82	1.73	2
3	1.65	.55		Dry	H	161.70	1.87	2.24	2.06	6.69	1.86	2.13	3	1.66	.60	1.65	.55	1.74	1.10	1.72	.97	1.83	1.82	1.82	1.73	3
4	1.63	.46		Dry	2.10	10.00	1.79	1.48	H	36.80	1.82	1.73	4	H	610.00	1.66	.60	1.78	1.40	1.71	.90	1.84	1.90	1.82	1.73	4
5	1.63	.46	1.51	.03	2.03	5.22	-	0.35	2.04	5.54	1.77	1.32	5	2.39	84.13	1.58	.26	1.76	1.25	1.66	.60	1.82	1.73	1.83	1.82	5
6	1.65	.55	1.70	.84	1.99	4.07	-	I.35	2.07	7.52	1.72	.97	6	2.09	9.17	1.55	.15	1.72	.97	1.72	.97	1.84	1.90	1.83	1.82	6
7	1.66	.60	1.69	.78	2.01	4.58	-	I.35	2.11	11.00	1.68	.72	7	1.92	2.87	1.74	1.10	1.71	.90	1.74	1.10	1.86	2.13	1.82	1.73	7
8	1.66	.60	1.67	.66	1.95	3.30	-	I.35	2.09	9.17	1.63	.46	8	1.83	1.82	1.75	1.17	1.71	.90	1.75	1.17	1.85	2.02	1.76	1.25	8
9	1.64	.51	1.65	.55	1.97	3.68	-	I.35	2.09	9.17	1.79	1.48	9	1.80	1.57	1.78	1.40	1.73	1.03	1.75	1.17	1.84	1.90	1.75	1.17	9
10	1.64	.51	1.65	.55	2.02	4.90	-	I.35	2.16	16.00	H	775.00	10	1.74	1.10	1.80	1.57	1.71	.90	1.69	.78	1.86	2.13	1.82	1.73	10
11	1.63	.46	1.69	.78	H	55.00	-	I.35	2.16	16.00	2.34	60.00	11	1.69	.78	1.77	1.32	1.71	.90	1.71	.90	1.86	2.13	1.77	1.32	11
12	1.65	.55	1.70	.84	1.97	3.68	-	I.35	2.14	14.00	2.16	16.00	12	1.68	.72	1.69	.78	1.69	.78	1.68	.72	1.86	2.13	1.77	1.32	12
13	1.59	.30	1.83	1.82	H	339.00	-	I.35	2.24	28.30	2.21	22.63	13	1.73	1.03	1.51	.03	1.69	.78	1.73	1.03	1.85	2.03	1.84	1.90	13
14	1.58	.26	H	370.00	2.14	14.00	-	I.35	2.30	44.70	2.12	12.00	14	1.68	.72	1.70	.84	1.69	.78	1.60	.34	1.85	2.03	1.84	1.90	14
15	1.59	.30	2.15	15.00	1.97	3.68	-	I.35	2.32	52.30	2.02	4.90	15	1.73	.03	1.76	1.25	1.69	.78	1.62	.42	1.84	1.90	1.81	1.65	15
16	1.59	.30	1.88	2.36	1.91	2.73	H	34.50	2.40	89.00	2.02	4.90	16	1.76	.25	1.75	1.17	1.71	.90	1.75	1.17	1.84	1.90	1.77	1.32	16
17	1.59	.30	1.85	2.02	1.99	4.07	2.00	4.26	2.39	84.10	1.96	3.49	17	1.77	.32	1.72	.97	1.73	1.03	1.76	1.25	1.84	1.90	1.86	2.13	17
18	1.59	.30	1.77	1.32	1.91	2.73	1.95	3.30	H	422.00	1.91	2.73	18	1.80	.57	1.71	.90	1.73	1.03	1.78	1.40	1.82	1.73	2.14	14.00	18
19	1.60	.34	1.73	1.03	1.95	3.30	H	24.40	2.60	187.00	1.88	2.36	19	1.87	.24	1.68	.72	1.74	1.10	1.79	1.48	1.84	1.90	1.81	1.65	19
20	1.60	.34	1.70	.84	1.94	3.16	H	201.00	2.47	122.80	1.81	1.65	20	1.82	.73	1.72	.97	1.75	1.17	1.76	1.25	1.86	2.13	1.80	1.57	20
21	1.60	.34	1.67	.66	2.03	5.22	H	42.80	2.31	48.50	1.76	1.25	21	1.72	.97	1.72	.97	1.77	1.32	1.77	1.32	1.86	2.13	1.84	1.90	21
22	1.60	.38	1.66	.60	1.90	2.59	1.95	3.30	2.26	32.70	1.71	.90	22	1.71	.90	1.74	1.10	1.74	1.10	1.77	1.32	1.87	2.24	1.86	2.13	22
23	1.61	.38	1.63	.46	1.90	2.59	1.90	2.59	2.27	34.87	1.70	.84	23	1.72	.97	1.75	1.17	1.62	.42	1.79	1.48	1.87	2.24	1.86	2.13	23
24	1.62	.42	1.60	.34	2.05	5.86	1.83	1.82	2.23	26.17	1.65	.55	24	1.71	.90	1.80	1.57	1.59	.30	1.80	1.57	1.85	2.02	1.93	3.02	24
25	1.63	.46	1.60	.34	1.94	3.16	1.77	1.32	2.25	30.47	1.77	1.32	25	1.68	.72	1.78	1.40	1.72	.97	1.81	1.65	1.82	1.73	1.95	3.30	25
26	1.66	.60	1.59	.30	2.12	12.00	1.72	.97	2.17	17.00	1.67	.66	26	1.66	.60	1.76	1.25	1.75	1.17	1.79	1.48	1.81	1.65	1.97	3.68	26
27	1.70	.84	1.61	.38	2.13	13.00	1.70	.84	2.16	16.00	1.67	.66	27	1.67	.66	1.74	1.10	1.76	1.25	1.77	1.32	1.83	1.82	1.98	3.88	27
28	1.70	.84	1.61	.38	2.18	18.70	1.78	1.40	2.09	9.17	1.66	.60	28	1.66	.60	1.75	1.17	1.75	1.17	1.77	1.32	1.84	1.90	1.92	2.87	28
29	1.71	.90	1.61	.38	2.11	11.80	1.76	1.25	-	-	1.66	.60	29	1.63	.46	1.76	1.25	1.72	.97	1.78	1.40	1.84	1.90	1.93	3.02	29
30	1.72	.97	1.57	.22	2.14	14.00	1.78	1.40	-	-	1.66	.60	30	1.63	.46	1.72	.97	1.60	.34	1.82	1.73	1.84	1.90	1.94	3.16	30
31	1.69	.78	-	-	2.01	4.58	1.83	1.82	-	-	1.63	.46	31	-	-	1.80	1.57	-	-	1.83	1.82	1.84	1.90	-	-	31
TOTAL,	15.66		403.60		722.22		340.06		1581.77		931.47		7	10	30.15	29.39		34.99		60.38		74.58		4956.37	
y Discharge in -feet	.51		13.45		23.30		10.97		56.49		30.05		2	.40	.97	.98		1.13		1.95		2.49			
et per square mile																									
epth in inches																									
acre-feet	31.06		800.54		1432.52		674.51		3137.44		1847.57		145	.12	59.80	58.30		69.40		119.76		147.93		9830.95	
Mean Daily ge in Second-feet	.97		370		339		201		422		775		61		1.57	1.65		1.82		2.24		14.00			
Mean Daily ge in Second-feet	.26		Dry		.30		.35		6.69		.46			.46	.03	.30		.18		1.65		1.17			

	Fourth	Third	Second	First
Quarter				
Computed	MAR	MAR	MAR	MAR
Checked	MAR	MAR	MAR	MAR
Date				Dec. 18, 1929.
Fourth	MAR			
Third	MAR	LWJ	LWJ	
Second	MAR	LWJ		
First	MAR			
Quarter				
G. H. Copied	MAR	MAR	MAR	MAR
G. H. checked	LWJ	LWJ	LWJ	LWJ
Date	Dec. 18, 1929			Oct. 17, 1929

PERIOD
YEAR

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Monthly discharge of Los Angeles River ~~Creek~~

at ~~Mill~~ Stewart & Gray Road for the year ending Sept. 30, 19 29

(Drainage area 564 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	.97	.26	.51			31.06	
November	370	Dry	13.45			800.54	
December	339	.30	23.30			1432.52	
January	201	.35	10.97			674.51	
February	422	6.69	56.49			3137.44	
March	775	.46	30.05			1847.57	
April	610	.46	24.40			1452.12	
May	1.57	.03	.97			59.80	
June	1.65	.30	.98			58.30	
July	1.82	.18	1.13			69.40	
August	2.24	1.65	1.95			119.76	
September	14.00	1.17	2.49			147.93	
The ~~year~~						9830.95	

NOTE:

Correction curve applied throughout the water year.

LOS ANGELES RIVER - WILLOW ST.LONG BEACH

Location:
On highway bridge crossing Long Beach Channel at Willow Street,approximately 1 mile north of Long Beach,Los Angeles County,California.

Drainage Area:
950 square miles approximately.

Installed by:
Los Angeles County Flood Control District Dec.26,1928.

Records Available:
Dec.26,1928 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Rational 7 day recorder installed in shelter house mounted on corrugated iron stilling well attached to downstream side of highway bridge pier. Outside vertical staff gage attached to bridge pier.

Discharge Measurements:
High water measurements made from bridge. Low flows measured by wading near bridge.

Channel and Control:
Channel- fine sand and silt. Control-shifting constantly.

Extremes of Discharge:

Maximum	1928-1929	2871 c.f.s. March 10,1929
Minimum	1928-1929	.88 c.f.s. Aug.1,1929

Diversions:
None above gage in immediate vicinity.

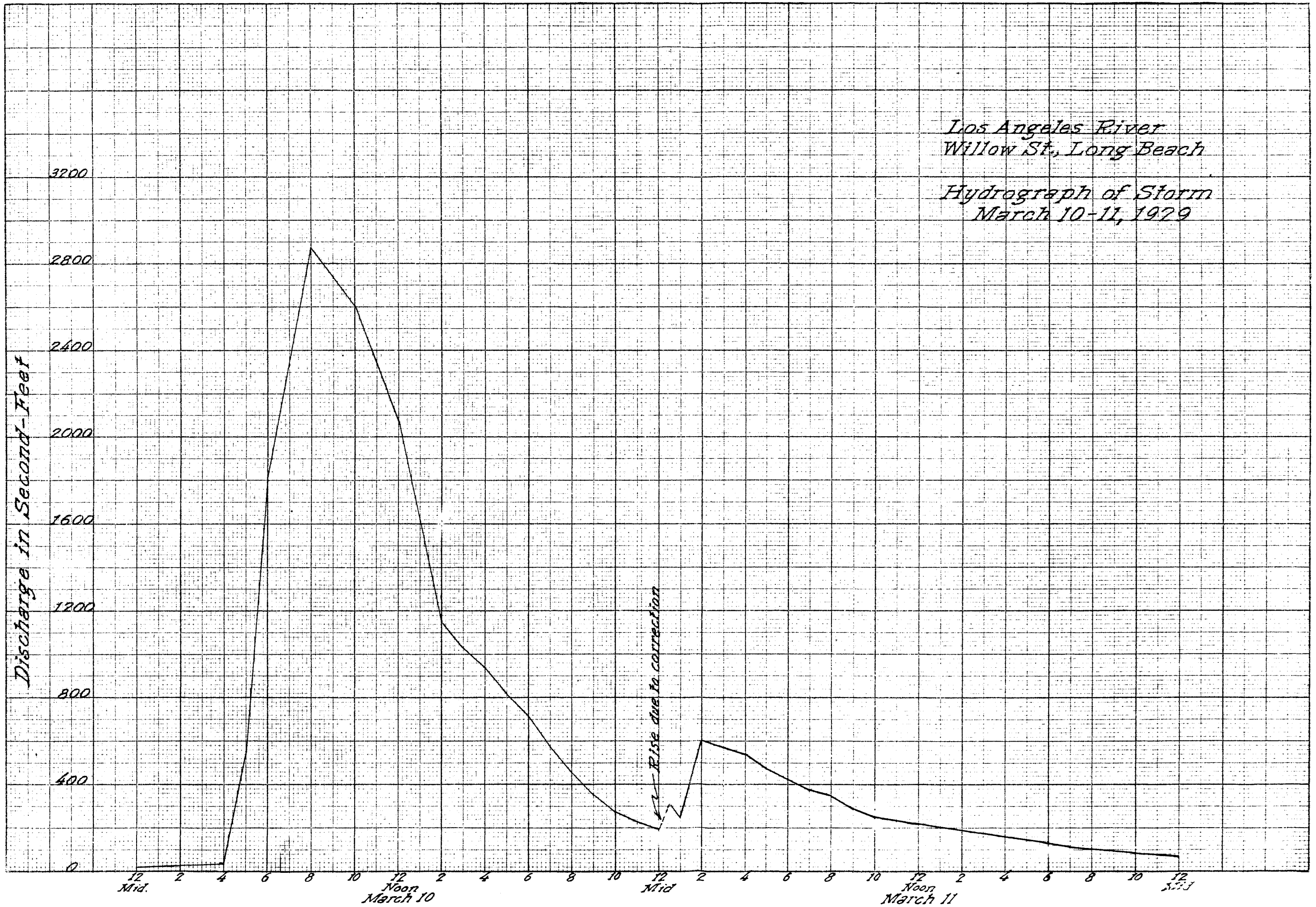
Regulation:
None.

Accuracy:
Fair.

Cooperation:
Located,constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch.

Los Angeles River
Willow St., Long Beach

Hydrograph of Storm
March 10-11, 1929



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Discharge measurements of Los Angeles River

at Willow st. Long Beach, during the year ending September 30, 1929.
near

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	12-3	Jordan&Crittenden	91	100	3.74	8.10	366.9		.6		12	.14	1/2	PC2
2	12-8	L.W.Jordan	29	7.30	.65	7.08	4.67		do		13	0	1/3	do
3	12-13	Jordan&Crittenden	77	82.5	3.52	7.95	290		do		14	.14	5/6	do
4	12-22	L.W.Jordan	15.5	10.9	.75	7.00	8.22		do		12	0	1/3	do
5	12-29	do	39	15.60	.82	7.11	12.9		do		20	.015	1/2	do
6	1929 1-12	do	10	2.93	.64	6.84	1.88		do		9	0	1/4	271 636
7	1-29	do	10.5	5.57	.90	7.05	5.03		do		10	.02	1/4	do
8	2-2	do	73.5	49	2.33	7.59	114		do		16	.02	1/4	do
9	2-9	do	10.4	7.40	1.25	7.06	9.29		do		9	.01	1/3	do
10	2-16	do	30	18.9	1.15	7/30	21.7		do		12	.01	1/3	do
11	2-18	Jordan&Crittenden	217	305	3.57	8.80	1090		do		25	.42	1½	do
12	2-22	L.W.Jordan	48	32.8	1.45	7.50	47.8		do		16	.01	1/4	do
13	3-1	do	22	10.3	.71	7.13	7.33		do		13	0	1/2	do
14	3-8	do	10.5	4.20	.76	7.03	3.18		do		11	.02	1/3	do
15	3-10	Jordan&Crittenden	238	351	3.07	8.82	1077		do		30	.32	1 5/6	do
16	3-15	L.W.Jordan	18.5	10.05	1.15	6.84	11.5		do		18	.01	1/2	do
17	3-22	do	16.0	6.10	.68	6.75	4.17		do		15	0	1/3	do
18	3-29	do	15.0	5.06	.46	6.67	2.35		do		15	0	1/6	do
19	4-4	Jordan&Crittenden	183	232	3.0	8.30	697		do		21	.10	1½	do
20	4-6	L.W.Jordan	30	18.8	1.97	7.03	37.1		do		20	.02	1/4	do
21	4-12	do	14	4.80	.83	6.52	3.98		do		10	0	1/3	do
22	4-19	do	27.5	6.9	.82	6.58	5.69		do		12	0	1/4	do
23	4-26	do	14	5.10	.79	6.52	4.03		do		12	0	1/4	do
24	5-3	do	9.5	3.15	.71	6.44	2.12		do		10	0	1/4	do
25	5-10	do	9.5	2.97	.74	6.44	2.19		do		10	0	1/4	do
26	5-17	do	9.8	3.59	.73	6.47	2.63		do		10	0	1/4	do
27	5-24	do	8.3	3.05	.68	6.46	2.06		do		9	0	1/4	do

F. C. Dist.—Form 104—500—9-28

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Discharge measurements of Los Angeles River

at ~~Mouth~~ Willow St, Long Beach, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	5-31	L.W. Jordan	10	4.08	.94	6.50	3.85		.6		11	0	1/6	636
29	6-7	do	6.7	2.74	.85	6.44	2.34		do		8	0	1/4	do
30	6-14	do	7.7	2.68	.87	6.46	2.32		do		9	.01	1/6	do
31	6-21	do	7.5	2.60	.82	6.45	2.13		do		8	0	1/6	do
32	6-28	do	8.2	3.05	.77	6.47	2.35		do		9	0	1/6	do
33	7-5	do	6.4	2.55	.73	6.46	1.85		do		7	0	1/6	do
34	7-12	do	5.3	1.79	.96	6.46	1.71		do		6	0	1/4	do
35	7-19	do	5.3	2.21	1.38	6.53	3.04		do		6	0	1/6	do
36	7-26	do	5.7	1.89	.58	6.46	1.10		do		6	0	1/4	do
37	8-1	do	8.0	1.91	.59	6.49	1.12		do		8	0	1/6	do
38	8-9	do	9.0	3.05	.92	6.55	2.80		do		9	0	1/4	do
39	8-16	do	5.8	1.78	.80	6.50	1.42		do		6	0	1/6	do
40	8-23	do	6.0	1.80	.88	6.52	1.58		do		6	0	1/6	do
41	8-30	do	6.8	2.02	.78	6.54	1.57		do		7	0	1/6	do
42	9-6	do	7.8	2.44	.70	6.54	1.71		do		8	0	1/6	do
43	9-13	do	9.7	3.06	.83	6.54	2.55		do		10	0	1/6	do
44	9-20	do	8.7	2.27	.64	6.52	1.43		do		9	0	1/6	do
45	9-27	do	9.3	3.06	.86	6.56	2.64		do		9	0	1/6	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Low Water

File No. 36

Rating table for Los Angeles River

Willow St. Long Beach, *from* Dec. 26, 19 28, *to* Sept. 30, 19 29

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
6.00	.40	.04	6.40	2.00	.04	6.60	3.40	.12	6.80	6.30	.184	7.00	10.36	.22
.02	.48		.41	2.04		.61	3.52		.81	6.48		.01	10.58	
.04	.56		.42	2.08		.62	3.64		.82	6.67		.02	10.80	
.06	.64		.43	2.12		.63	3.76		.83	6.85		.03	11.02	
.08	.72		.44	2.16		.64	3.88		.84	7.04		.04	11.24	
6.10	.80		.45	2.20	.064	.65	4.00	.136	.85	7.22	.196	.05	11.46	.236
.12	.88		.46	2.26		.66	4.14		.86	7.42		.06	11.70	
.14	.96		.47	2.33		.67	4.27		.87	7.61		.07	11.93	
.16	1.04		.48	2.39		.68	4.41		.88	7.81		.08	12.17	
.18	1.12		.49	2.46		.69	4.54		.89	8.00		.09	12.40	
6.20	1.20		6.50	2.52	.076	6.70	4.68	.152	6.90	8.20	.212	7.10	12.64	.236
.22	1.28		.51	2.60		.71	4.83		.91	8.41		.11	12.88	
.24	1.36		.52	2.67		.72	4.98		.92	8.62		.12	13.11	
.26	1.44		.53	2.75		.73	5.14		.93	8.84		.13	13.35	
.28	1.52		.54	2.82		.74	5.29		.94	9.05		.14	13.58	
6.30	1.60		.55	2.90	.10	.75	5.44	.172	.95	9.26	.22	.15	13.82	
6.32	1.68		.56	3.00		.76	5.61		.96	9.48		.16	14.06	.236
.34	1.76		.57	3.10		.77	5.78		.97	9.70		.17	14.29	
.36	1.84		.58	3.20		.78	5.96		.98	9.92		.18	14.53	
.38	1.92		.59	3.30		.79	6.13		.9910.14			.19	14.76	
												7.20	15.00	

The above table is not applicable for obstructed channel conditions. It is based on 45 discharge measurements made during 1928-1929

and is not well defined between 2 second-feet and 15 second-feet.

Correction curve applied for entire period

Computed by MAR

Dec. 26, 1928 to Sept. 30, 1929. Checked by LWJ 7/24/29

Date July 2, 1929

High Water

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Rating table for Los Angeles River

Willow St. LONG BEACH, *from* Dec. 26, 1928, *to* Sept. 30, 1929.

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
7.20	15.0		8.20	417		9.20	1598							
		1.2			8.0			13.4						
.25	21.0		.25	457		.25	1665	"						
		1.3			9.2									
.30	275		.30	503		.30	1732	"						
.35	340	1.9	.35	549	10.1	.35	1799	"						
.40	43.5		.40	599.5		.40	1866	"						
.45	53.0	2.6	.45	650	11.0	.45	1933	"						
7.50	66		8.50	705		9.50	2000	"						
.55	79.0	3.1	.55	760	11.8	.55	2067	"						
.60	94.5		.60	819		.60	2134	"						
.65	110.0	3.8	.65	878	12.2	.65	2201	"						
.70	129		.70	939		.70	2268	"						
.75	148	4.5	.75	1000	13.0	.75	2335	"						
.80	170.5		.80	1065		.80	2402	"						
.85	193	5.3	.85	1130	13.4	.85	2469	"						
.90	219.5		.90	1197	"	.90	2536	"						
.95	246	5.9	.95	1264	"	.95	2603	"						
8.00	275.5		9.00	1331	"	10.00	2670	"						
.05	305	7.2	.05	1398	"	.05	2737	"						
.10	341		.10	1465	"	.10	2804	"						
.15	377	8.0	.15	1532	"	.15	2871	"						

The above table is not applicable for obstructed channel conditions. It is based on 45 discharge measurements made during 1928-1929

and is fairly well defined between ..... second-feet and ..... second-feet.

Computed by M. Rupert

Checked by LWJ 7/24/29

Date July 2, 1929

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Los Angeles River

At Willow St. Long Beach for the Year Ending September 30, 1929

Drainage Area approx. 950 Square Miles. [Rational 7 day Water Stage Recorder Observer.] Gage Read to Continuous a Day. Used rating table dated July 2, 1929

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1							7.01	10.58	H	95.79	6.87	7.61
2							6.93	8.84	H	119.	6.79	6.13
3							6.91	8.41	7.31	28.80	6.73	5.14
4							6.81	6.48	H	38.54	6.68	4.41
5							6.70	4.68	7.27	23.60	6.66	4.14
6							6.65	4.00	7.11	12.88	6.63	3.76
7							6.63	3.76	7.11	12.88	6.60	3.40
8							6.56	3.00	7.06	11.70	6.57	3.10
9							6.53	2.75	6.96	9.48	6.61	3.52
10							6.50	2.52	7.04	11.24	H	1069
11							6.47	2.33	7.13	13.35	H	257
12							6.43	2.12	7.11	12.88	7.30	27.50
13							6.39	1.96	7.20	15.00	7.22	17.40
14							6.43	2.12	H	18.01	7.17	14.29
15							6.39	1.96	H	30.09	7.06	11.70
16							H	10.70	7.36	35.30	6.95	9.26
17							6.96	9.48	7.37	36.60	6.98	9.92
18							6.83	6.85	H	368.	6.87	7.61
19							6.79	6.13	7.57	84.20	6.86	7.42
20							H	46.78	7.46	54.90	6.76	5.61
21							H	20.80	7.35	34.00	6.68	4.41
22							6.95	9.26	7.36	35.30	6.63	3.76
23							6.87	7.61	7.35	34.00	6.63	3.76
24							6.85	7.22	7.28	24.90	6.63	3.76
25			Recorder				6.84	7.04	7.24	19.80	6.57	3.10
26			Installed		7.04	11.24	6.87	7.61	7.14	13.58	6.66	4.14
27			Dec. 26,		6.98	9.92	6.86	7.42	7.07	11.93	6.52	2.67
28			1928		7.09	12.40	6.89	8.00	6.98	9.92	6.50	2.52
29					7.15	13.82	6.96	9.48	-	-	6.52	2.67
30					7.06	11.70	6.99	10.14	-	-	6.52	2.67
31					7.16	14.06	7.05	11.46	-	-	6.50	2.52
TOTAL,						73.14		251.49		1215.67		1513.90
Mean Daily Discharge in Second-feet						12.19		8.11		43.41		48.84
Run-off per square mile												
Depth in inches												
Run-off acre-feet						145.07		498.83		2411.28		3002.82
Maximum Mean Daily Discharge in Second-feet						13.82		46.78		368.		1 069
Minimum Mean Daily Discharge in Second-feet						9.92		1.96		9.48		2.52

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD
1	6.47	2.33	6.52	2.67	6.56	3.00	6.45	2.20	6.12	0.88	6.33	1.72	
2	6.54	2.82	6.46	2.26	6.54	2.82	6.46	2.26	6.13	.92	6.35	1.80	
3	6.53	2.75	6.47	2.33	6.52	2.67	6.40	2.00	6.21	1.24	6.33	1.72	
4	H	85.	6.46	2.26	6.52	2.67	6.40	2.00	6.23	1.32	6.34	1.76	
5	H	23.	6.47	2.33	6.50	2.52	6.34	1.76	6.30	1.60	6.34	1.76	
6	7.45	[illegible]3.	6.47	2.33	6.50	2.52	6.43	2.12	6.35	1.80	6.35	1.80	
7	7.12	3.11	6.44	2.16	6.48	2.39	6.27	1.48	6.41	2.04	6.33	1.72	
8	6.91	3.41	6.44	2.16	6.50	2.52	6.23	1.32	6.46	2.26	6.32	1.68	
9	6.83	6.85	6.46	2.26	6.49	2.46	6.30	1.60	6.51	2.60	6.39	1.96	
10	6.77	5.78	6.46	2.26	6.49	2.46	6.33	1.72	6.54	2.82	6.44	2.16	
11	6.70	4.68	6.47	2.33	6.48	2.39	6.39	1.96	6.48	2.39	6.44	2.16	
12	6.68	4.41	6.42	2.08	6.50	2.52	6.36	1.84	6.45	2.20	6.45	2.20	
13	6.66	4.14	6.42	2.08	6.50	2.52	6.39	1.96	6.44	2.16	6.48	2.39	
14	6.64	3.88	6.46	2.26	6.49	2.46	6.27	1.48	6.43	2.12	6.46	2.26	
15	6.66	4.14	6.46	2.26	6.49	2.46	6.33	1.72	6.36	1.84	6.43	2.12	
16	6.65	4.00	6.52	2.67	6.47	2.33	6.39	1.96	6.34	1.76	6.40	2.00	
17	6.64	3.88	6.56	3.00	6.45	2.20	6.42	2.08	6.34	1.76	6.34	1.76	
18	6.69	4.54	6.52	2.67	6.45	2.20	6.48	2.39	6.32	1.68	6.35	1.80	
19	6.74	5.29	6.53	2.75	6.45	2.20	6.48	2.39	6.33	1.72	6.34	1.76	
20	6.80	6.30	6.48	2.39	6.46	2.26	6.44	2.16	6.31	1.64	6.30	1.60	
21	6.75	5.44	6.46	2.26	6.47	2.33	6.41	2.04	6.30	1.60	6.33	1.72	
22	6.65	4.00	6.46	2.26	6.47	2.33	6.37	1.88	6.32	1.68	6.35	1.80	
23	6.63	3.76	6.44	2.16	6.46	2.26	6.33	1.72	6.31	1.64	6.37	1.88	
24	6.59	3.30	6.44	2.16	6.47	2.33	6.29	1.56	6.34	1.76	6.42	2.08	
25	6.64	3.88	6.50	2.52	6.48	2.39	6.23	1.32	6.31	1.64	6.45	2.20	
26	6.66	4.14	6.52	2.67	6.47	2.33	6.16	1.04	6.31	1.64	6.48	2.39	
27	6.63	3.76	6.52	2.67	6.48	2.39	6.16	1.04	6.20	1.20	6.52	2.67	
28	6.61	3.52	6.53	2.75	6.46	2.26	6.16	1.04	6.22	1.28	6.53	2.75	
29	6.60	3.40	6.56	3.00	6.47	2.33	6.16	1.04	6.34	1.76	6.53	2.75	
30	6.54	2.82	6.60	3.40	6.46	2.26	6.15	1.00	6.31	1.64	6.53	2.75	
31	-	-	6.63	3.76	-	-	6.14	0.96	6.30	1.60	-	-	
TOTAL,		1336.33		77.12		72.78		53.04		54.19		61.12	4708.78
Mean Daily Discharge in Second-feet		44.54		2.49		2.43		1.71		1.75		2.04	
Run-off per square mile													
Depth in inches													
Run-off acre-feet		2650.61		152.97		144.36		105.20		107.49		121.23	9339.86
Maximum Mean Daily Discharge in Second-feet		895		3.76		3.00		2.39		2.82		2.75	1069
Minimum Mean Daily Discharge in Second-feet		2.33		2.16		2.20		0.96		0.88		1.60	0.88

Quarter		First	Second	Third	Fourth	Date
Quarter	Computed	MAR	MAR	MAR	MAR	
	Checked	MAR	MAR	MAR	MAR	Nov. 22, 1929
Quarter	Disch. applied	MAR	MAR	MAR	MAR	
	Disch. checked	LWJ	LWJ	LWJ	CEB	July 2, 1929 to 8/30/29
Quarter	G. H. Copied	MAR	MAR	MAR	MAR	
	G. H. checked	LWJ	LWJ	LWJ	CEB	July 2, 1929 to Aug. 30

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Monthly discharge of Los Angeles River

at Willow St. Long Beach for the year ending Sept. 30, 1929

(Drainage area approx. 950 square miles)

MONTH	Daily DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December Dec. 26-31	13.82	9.92	12.19			145.07	
January	46.78	1.96	8.11			498.83	
February	368	9.48	43.41			2411.28	
March	1069	2.52	48.84			3002.82	
April	895	2.33	44.54			2650.61	
May	3.76	2.16	2.49			152.97	
June	3.00	2.20	2.43			144.36	
July	2.39	0.96	1.71			105.20	
August	2.82	0.88	1.75			107.49	
September	2.75	1.60	2.04			121.23	
The year period						9339.86	

NOTE:

Recorder was installed December 26, 1928.

RIO HONDO AT STEWART & GREY ROAD

Location:
On highway bridge over Rio Hondo at Stewart and Grey Road about 1½ miles west of Downey, Los Angeles County, California, and ½ mile above junction with Los Angeles River.

Drainage Area:
142 sq. miles.

Installed By:
State Division of Water Rights of California - 1923.

Reestablished By:
Los Angeles County Flood Control District - 1927.

Records Available:
Some previous records in Bulletin #5, California State Division of Water Rights, San Gabriel Investigation. Records from Mar. 1, 1928 to Sept. 30, 1929, available at L.A. County Flood Control Dist.

Gage:
Rational 7 day water stage recorder set on corrugated pipe stilling well attached to bridge pier. Staff gage on bridge pier.

Discharge Measurements:
High water measurements made from cable car 200 feet above bridge. Low water measurements by wading near gage.

Channel and Control:
Channel sandy, rock rip rap banks, no control.

Extremes of Discharge:
912 c.f.s. April 4,1929.
Dry at various times during summer months.

Diversions:
Some diversion from stream vicinity of Montebello.

Regulation:
None

Accuracy:
Good for low flows.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control in cooperation with U.S.G.S. Water Resources Branch.

Rio Hondo River
Stewart & Gray Road

Hydrograph of Storm
April 4-5, 1929

Discharge in Second-Feet

1000
900
800
700
600
500
400
300
200
100

12 Mid
2
4
6
8
10
12 Noon
Apr. 4
2
4
6
8
10
12 Mid.
2
4
6
8
10
12 Noon
Apr. 5
2
4
6
8
10
12 Mid

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Discharge measurements of Rio Hondo River

at Stewart & Gray Road, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	262
1	10-12	Rupert & Bergman	12	7.43	.27	5.14	2.00		.6		11	.04	1/6	556
2	10-27	do & Bollinger	6.5	3.08	.45	5.02	1.37		do		9	0	1/4	do
3	11-3	Patterson&Bollinger	7.5	3.89	.59	5.09	2.3		do		12	.03	1/4	271 637
4	11-10	Hardgrove do	7.0	3.16	.68	5.11	2.15		do		7	0	1/6	do
5	11-14	do & Sampson	33	25.8	.65	5.73	16.7		do		7	.03	1/3	do
6	11-14	do	90	69.5	2.51	6.55	174.75		do		11	.50	1½	do
7	11-15	do	3.5	.79	1.27	5.00	1.0		do		6	0	3/4	do
8	11-24	L.W.Jordan	1.5	.14	.50	4.74	.06		do		3	0	1/6	FC 2
9	12-3	Jordan&Crittenden	28.5	25.0	2.61	6.07	63.93		do		14	.02	1/3	do
10	12-13	do do	72.0	50.7	2.10	6.29	106.3		do		18	.10	1/2	do
12	12-22	do	4.2	.80	.90	5.12	.72		do		8	.01	1/4	271 636
13	1929 1-5	L.W.Jordan	5.5	1.61	1.09	5.16	1.75		do		11	0	1/3	do
14	1-12	do	6.0	2.55	1.03	5.09	2.62		do		12	.02	1/2	do
15	1-16	do	20	14.6	1.47	5.70	21.4		do		11	.02	1/3	do
16	1-26	do	6	1.35	.79	4.92	1.07		do		6	0	1/6	do
17	2-2	do	18.5	9.45	1.18	5.53	11.1		do		11	.02	do	do
18	2-16	do	9.0	2.12	.94	5.08	2.00		do		8	.01	1/3	do
19	2-22	do	3.0	3.3	.81	5.00	.59		do		6	0	1/6	do
20	3-1	do	4.0	.96	.89	5.02	.85		do		7	0	do	do
21	3-8	do	4.0	.72	.75	5.00	.54		do		6	0	1/4	do
22	3-10	Jordan&Crittenden	90	116.5	2.43	6.82	283		do		18	.20	1	do
23	3-22	do	2.0	.24	.33	5.08	.08		do		3	do	1/4	do
24	3-29	do	8.0	.10	.20	5.02	.02		do		2	do	1/6	do
25	4-4	do do	102	245	3.13	7.70	769		do		11	.30	1/2	do
26	4-6	do	6.0	2.53	1.38	5.48	3.49		do		7	.01	1/3	do
27	4-19	do	3.5	.40	.46	5.14	.16		do		4	0	1/4	do
28	4-26	do	3.5	.97	.55	5.07	.53		do		6	.01	do	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Discharge measurements of Rio Hondo River

at ~~creek~~ Stewart & Gray Road, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
30	5-10	L.W.Jordan	4.2	1.40	.38	5.02	.53		.6		5	0	1/6	636
31	5-17	do	3.5	1/05	.34	4.98	.78		do		6	0	do	do
32	5-24	do	3.0	.84	.39	4.91	.33		do		6	0	do	do
33	5-31	do	6.5	2.17	1.10	5,08	2.39		do		7	0	do	do
34	5-31	do	2.9	.76	.64	4.94	.49		do		5	0	do	do
35	6-7	do	9.7	2.78	.990	5.13	2.75		do		10	0	do	do
36	6-14	do	2.3	.28	.61	4.89	.17		do		4	0	do	do
37	6-21	do	1.5	.08	.38	4.85	.03		do		3	0	do	do
38	6-28	do	2.4	.29	.41	4.87	.13		do		5	0	do	do
39	7-5	do	3.6	.44	.64	4.91	.28		do		6	.02	1/3	do
40	7-19	do	4.7	.94	.78	4.96	.73		do		6	.01	1/6	do
41		Estimate					.04							
42	9-20	do	4.0	.80	.84	5.00	.67		do		4	.01	do	do
43	9-27	do	3.6	.80	.81	5.02	.65		do		4	0	do	do

F. C. Dist. Form 103—500—9-28

(2)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

High Water Table

Rating table for Rio Hondo River

Stewart and Gray Road, *from* Oct. 1, 1928, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
5.40	5.00	.3125	5.80	27.70	1.08	6.20	87.40	2.24	6.60	191.8	3.82	7.00	371.5	5.15
.42	5.63		.82	29.86		.22	91.88		.62	199.4		.02	381.8	
.44	6.25		.84	32.02		.24	96.36		.64	207.1		.04	392.1	
.46	6.88		.86	34.18		.26	100.8		.66	214.7		.06	402.4	
.48	7.50	.4166	.88	36.34		.28	105.3		.68	222.4		.08	412.7	
5.50	8.33		5.90	38.50	1.40	6.30	109.80	2.32	6.70	230.0	4.50	7.10	423.0	5.30
.52	9.17		.92	41.30		.32	114.4		.72	239		.12	433.6	
.54	10.00		.94	44.10		.34	119.1		.74	248		.14	444.2	
.56	10.83		.96	46.90		.36	123.7		.76	257		.16	454.8	
.58	11.67		.98	49.70		.38	128.4		.78	266		.18	465.4	
5.60	12.50	.5833	6.00	52.50	1.57	6.40	133.0	2.70	6.80	275.0	4.70	7.20	476.0	5.40
.62	13.67		.02	55.64		.42	138.4		.82	284.4		.22	486.8	
.64	14.83		.04	58.78		.44	143.8		.84	293.8		.24	497.6	
.66	16.00		.06	61.92		.46	149.2		.86	303.2		.26	508.4	
.68	17.33	.6666	.08	65.06		.48	154.6		.88	312.6		.28	519.2	
5.70	18.67		6.10	68.20	1.92	6.50	160.	3.18	6.00	322.0	4.95	7.30	530.0	5.66
.72	20.00	.9625	.12	72.04		.52	166.4		.92	331.9		.32	541.3	
.74	21.93		.14	75.88		.54	172.7		.94	341.8		.34	552.6	
.76	23.85		.16	79.72		.56	179.1		.96	351.7		.36	564.0	
.78	25.78		.18	83.56		.58	185.4		.98	361.6		.38	575.3	

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during Oct. 12, 1928 to Sept. 30, 1929

and is fairly well defined between 5 second-feet and 965 second-feet.

Computed by MAR

Checked by LWJ

Date Sept. 30, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.....

High Water Table (Cont.)

Rating table for RIO HONDO

....., *from*....., 19....., *to*....., 19.....

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
7.40	586.6	5.84	7.80	833	6.60									
.42	598.3		.82	846.2										
.44	610.0		.84	859.4										
.46	621.6		.86	872.6										
.48	633.3		.88	885.8										
7.50	645.0	6.14	7.90	899.0	6.60									
.52	657.3		.92	912.2										
.54	669.6		.94	925.4										
.56	681.8		.96	938.6										
.58	694.1		.98	951.8										
7.60	706.4	6.26	8.00	965										
.62	718.9													
.64	731.4													
.66	744.0													
.68	756.5													
7.70	769.0	6.40												
.72	781.8													
.74	794.6													
.76	807.4													
.78	820.2													

The above table is not applicable for obstructed channel conditions. It is based on.....discharge measurements made during.....

and is.....well defined between.....second-feet and.....second-feet.

Computed by M. Rupert

Checked by LMJ

Date.....

C. Dist.—Form 105- 500 9-23

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Rio Hondo River

At Stewart& Gray Road for the Year Ending September 30, 19 29

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Drainage Area 142 Square Miles. [Rational Continuous Water Stage Recorder

Gage Read to Continuous Mc a Day. Used rating table dated Sept. 30,1929

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge
1	4.95	.40	5.08	1.44	4.70	.03	5.01	.66	H	6.42	4.97	.46
2	5.04	1.00	5.07	1.33	4.71	.04	4.96	.43	H	11.59	4.97	.46
3	5.12	1.89	5.10	1.66	H	11.06	5.02	.77	5.00	.55	4.98	.49
4	4.90	.26	5.21	2.89	H	.61	5.07	1.33	4.96	.43	4.93	.34
5	5.16	2.33	5.14	2.11	4.79	.09	5.09	1.55	4.94	.37	4.91	.28
6	5.10	1.66	5.12	1.89	4.76	.06	5.00	.55	4.97	.46	4.90	.26
7	5.05	1.11	5.17	2.44	4.77	.07	5.00	.55	5.04	1.00	4.92	.31
8	5.20	2.78	5.17	2.44	4.73	.05	5.05	1.11	5.03	.88	4.96	.43
9	5.12	1.89	5.19	2.66	4.72	.04	5.05	1.11	5.05	1.11	5.00	.55
10	5.10	1.66	5.23	3.11	4.74	.05	5.05	1.11	5.08	1.44	H	247.84
11	5.05	1.11	5.29	3.78	H	1.50	5.09	1.55	5.03	.88	H	122.01
12	5.12	1.89	5.04	1.00	4.80	.10	5.05	1.11	5.08	1.44	H	7.76
13	5.16	2.33	5.20	2.78	H	111.14	5.03	.88	5.07	1.33	5.19	2.66
14	5.16	2.33	H	59.88	5 15	2.22	4.98	.49	5.06	1.22	5.14	2.11
15	5.07	1.33	H	4.33	4.98	.49	4.98	.49	5.05	1.11	5.13	2.00
16	5.15	2 22	4.85	.16	4.94	.37	H	6.32	5.04	1.00	5.10	1.66
17	5.12	1.89	4.80	.10	4.92	.31	5.04	1.00	5.00	.55	5.09	1.55
18	5.08	1.44	4.72	.04	4.90	.26	4.86	.18	H	34.65	5.08	1.44
19	5.18	2.55	4.72	.04	4.88	.22	4.92	.31	5.14	2.11	5.07	1.33
20	5.04	1.00	4.73	.05	4.87	.20	H	15.43	5.01	.66	5.06	1.22
21	5.10	1.66	4.74	.05	4.95	.40	H	3.38	4.98	.49	5.06	1.22
22	5.10	1.66	4.74	.05	5.06	1.22	4.92	.31	4.96	.43	5.06	1.22
23	5.08	1.44	4.74	.05	5.06	1.22	4.89	.24	4.95	.40	5.10	1.66
24	5.13	2.00	4.74	.05	5.05	1.11	4.92	.31	4.95	.40	5.15	2.22
25	5.25	3.33	4.72	.04	4.99	.52	4.93	.34	4.93	.34	5.11	1.77
26	5.21	2.89	4.71	.04	4.94	.37	4.90	.26	4.92	.31	5.04	1.00
27	5.18	2.55	4.72	.04	4.92	.31	4.87	.20	4.93	.34	5.03	.88
28	5.17	2.44	4.71	.04	4.96	.43	4.82	.12	4.96	.43	5.01	.66
29	4.95	.40	4.70	.03	4.99	.52	4.86	.18	-	-	5.01	.66
30	5.04	1.00	4.70	.03	5.03	.88	4.91	.28	-	-	5.02	.77
31	5.10	1.66	-	-	5.02	.77	4.90	.26	-	-	5.01	.66
TOTAL,		54.10		94.55		136.66		42.81		72.34		407.88
Discharge in feet		1.75		3.15		4.42		1.38		2.58		13.15
t per square mile												
pth in inches												
acre-feet		107.31		187.54		271.07		84.91		143.49		809.03
lean Daily in Second-feet		3.33		59.88		111.14		15.43		34.65		247.84
an Daily in Second-feet		.26		.03		.03		.12		.31		.26

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1	4.99	.52	5.09	1.55	4.96	0.43	6hrs 4.70	.01	Dry	0	Dry	0	1
2	4.99	.52	5.06	1.22	4.88	.22	Dry	0	"	0	"	0	2
3	4.98	.49	4.99	.52	4.86	.18	"	0	"	0	"	0	3
4	H	207.33	5.07	1.33	4.93	.34	4.87	.20	"	0	"	0	4
5	H	94.92	5.09	1.55	4.97	.46	4.93	.34	"	0	"	0	5
6	H	9.69	5.01	.66	5.07	1.33	4.96	.43	"	0	"	0	6
7	5.22	3.00	5.09	1.55	5.10	1.66	4.92	.31	"	0	"	0	7
8	5.17	2.44	5.08	1.44	5.00	.55	4 96	.43	"	0	18 hrs 4 98	.37	8
9	5.14	2.11	5.15	2.22	5.00	.55	5.02	.77	"	0	9hrs 3.89	.09	9
10	5.12	1.89	5.15	2.22	4.95	.40	4.87	.20	"	0	12hrs 4.96	.21	10
11	5.11	1.77	5.06	1.22	4.96	.43	16hrs 4.80	.07	5hrs	0	16hrs 4.87	.14	11
12	5.09	1.55	5.04	1.00	4.97	.46	10 hrs 4.82	.05	4.91	.06	4.98	.49	12
13	5.08	1.44	5.02	.77	4.96	.43	18hrs 4.92	.23	18hrs 4.93	.23	4.87	.20	13
14	5.10	1.66	5.05	1.11	4.92	.31	4.90	.26	17hrs 4.95	.28	4.92	.31	14
15	5.08	1.44	5.04	1.00	4.94	.37	4.90	.26	16hrs 4.90	.18	12hrs 4.90	.13	15
16	5.07	1.33	5.03	.88	4.98	.49	4.98	.49	Dry	0	Dry	0	16
17	5.06	1.22	5.10	1.66	4.97	.46	4.95	.40	"	0	"	0	17
18	5.04	1.00	5.07	1.33	4.94	.37	4.80	.10	"	0	12hrs 5.04	.50	18
19	5.24	3.22	4.96	.43	4.98	.49	4.91	.28	"	0	4.99	.52	19
20	5.25	3.33	4.91	.28	5.05	1.11	4.89	.24	"	0	5.15	2.22	20
21	5.17	2.44	5.02	.77	5.03	.88	11hrs 4.78	.05	"	0	5.16	2.33	21
22	5.08	1.44	4.96	.43	5.01	.66	4.87	.02	"	0	5.11	1.77	22
23	5.12	1.89	5.00	.55	5.00	.55	4.85	.12	"	0	5.18	2.55	23
24	5.18	2.55	5.01	.66	4.96	.43	Dry	0	"	0	5.07	1.33	24
25	5.23	3.11	5.03	.88	4.89	.24	"	0	"	0	5.06	1.22	25
26	5.16	2.33	5.03	.88	4.96	.43	"	0	"	0	4.98	.49	26
27	5.11	1.77	5.01	.66	4.87	.20	"	0	"	0	5.08	1.44	27
28	5.11	1.77	4.98	.49	4.89	.24	10hrs 4.87	.08	"	0	5.05	1011	28
29	5.11	1.77	5.00	.55	4.73	.05	Dry	0	"	0	5.04	1.00	29
30	5.13	2.00	5.01	.66	4.78	.03	"	0	"	0	4.94	.37	30
31			5.01	.66	-	-	"	0	"	0	-	-	31
TOTAL,		361.94		31.13		14.75		5.34		0.75		18.79	1241.04
Discharge in feet		12.05		1.00		.49		.17		.02		.63	
t per square mile													
pth in inches													
acre-feet		717.91		61.75		29.26		10.59		1.49		37.27	2461.62
lean Daily in Second-feet		207.33		2.22		1.66		0.77		0.28		2.55	
an Daily in Second-feet		.49		.28		.03		Dry		Dry		Dry	

Quarter	First	Second	Third	Fourth
Computed	MAR	MAR	MAR	MAR
Checked	MAR	MAR	MAR	MAR
Date.	Jan. 8, 1930.			
Quarter	First	Second	Third	Fourth
Disch. applied	LWJ	LWJ	LWJ	
Disch. checked	LWJ	LWJ	LWJ	MAR
Date.	June 1, 1929			
Quarter	First	Second	Third	Fourth
G. H. Copied	MAR	MAR	MAR	MAR
G. H. checked	LWJ	LWJ	LWJ	MAR
Date	May 31, 1929			

PERIOD
YEAR

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Monthly discharge of Rio Hondo River

at Stewart and Gray Road for the year ending Sept. 30, 1929

(Drainage area 142 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	3.33	.26	1.75			107.31	
November	59.88	.03	3.15			187.54	
December	111.14	.03	4.42			271.07	
January	15.43	.12	1.38			84.91	
February	34.65	.31	2.58			143.49	
March	247.84	.26	13.15			809.03	
April	207.33	.49	12.05			717.91	
May	2.22	.28	1.00			61.75	
June	1.66	.03	.49			29.26	
July	.77	Dry	.17			10.59	
August	.28	Dry	.02			1.49	
September	2.55	Dry	.63			37.27	
The year						2461.62	

NOTE:

COMPTON CREEK °- COMPTON,CALIFORNIA

Location:
On Rosecrans Road bridge about 1 mile northwest of Compton,Los Angeles County,California.

Drainage Area:
21.30 Square Miles,

Installed By:
Los Angeles County Flood Control District Jan.22,'28

Records Available:
Jan.22,1928 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Au Continuous Water Stage Recorder located on east concrete wing wall of bridge,on top of corrugated iron stilling well. Staff gage is attached to stilling well.

Discharge Measurements:
High water measurements are made from bridge. Low water measurements are made by wading near gage.

Channel and Control:
Channel is hard clay,banked. Good control.

Extremes of Discharge:
Maximum 924 c.f.s. March 10,1929
Minimum Dry at various times during year.

Diversions:
None.

Regulation:
None.

Accuracy:
Good.

Cooperation:
Located,constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S. G.S. Water Resources Branch.

Compton Creek
at Rosecrans Road

Hydrograph of Storm
March 9-10, 1929

Discharge in Second-Feet

1000
900
800
700
600
500
400
300
200
100
0

12 Mid, 2, 4, 6, 8, 10, 12 Noon, 2, 4, 6, 8, 10, 12 Mid, 2, 4, 6, 8, 10, 12 Noon, 2, 4, 6, 8, 10, 12 A.M.

March 9 — March 10

F. C. Dist.--Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 37

Discharge measurements of Compton Creek

at Rosecrans Ave., during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
1	Oct12	Rupert & Bergman	27.0	25.5	1.53	1.57	39.0		.6		20	-.10	:30	262556
2	27	Rupert & Bollinger	7.0	2.48	1.87	.75	4.64		.6		14	+.08	:15	262556
3	Nov.3	Bollinger & Hardgrove	5.3	1.04	.33	.46	.34		.6		7	0	:15	271637
4	10	Hardgrove&Bollinger	2.7	.34	.76	.48	.26		.6		3	0	:15	271637
5	14	" & Sampson	36.7	153	3.94	4.93	585		.6		13	-.22	:45	271637
6	17	C.E.Bollinger	7.2	3.29	1.33	.72	4.36		.6		11	+.03	:15	271650
7	24	L.W.Jordan	6.5	1.01	.56	.49	.57		.6		7	0	:20	F.C.#2
8	Dec.3	Jordan & Crittenden	38	57.	1.73	2.53	98.5		.6		16	-.26	:40	F.C.#2
9	3	do do	35.5	40.	1.62	2.02	62.9		.6		17	-.07	:40	F.C.#2
10	8	L.W.Jordan	6.8	1.40	.36	.50	.49		.6		7	0	:10	F.C.#2
11	13	Jordan &Crittenden	33.0	25.0	.72	1.30	18.0		.6		14	-.12	:45	F.C.#2
12	22	L. W. Jordan	7.0	1.48	.46	.56	.68		.6		11	0	:15	271636
13	29	do	4.5	1.01	.40	.50	.40		.6		9	0	:20	do
14	Jan5	do	5.5	1.37	.58	.56	.79		.6		11	0	:15	do
15	16	Jordan&Crittenden	37	38.2	1.89	1.96	70.1		.6		18	-.20	:15	do
16	19	L. W. Jordan	8.5	7.03	1.58	.98	11.1		.6		9	-.07	:10	do
17	26	do	6.0	1.41	.65	.59	.91		.6		12	0	:20	do
18	Feb.1	Jordan & Jordan	38.0	67.5	2.28	2.66	154		.6		20	-.24	:30	do
19	2	D. W. Jordan	14.8	9.23	1.33	1.07	12.3		.6		15	-.04	:20	do
20	18	Jordan &Crittenden	42.0	139	3.25	4.55	452		.2&8		11	-.26	:30	do
21	Mar.1	L. W. Jordan	5.5	1.36	.64	.57	.87		.6		5	0	:10	do
22	8	do	6.5	1.15	.63	.56	.73		.6		6	0	:15	do
23	15	do	5.0	1.27	.62	.58	.79		.6		8	0	:15	do
24	22	do	5.5	1.49	.52	.57	.78		.6		9	0	:15	do
25	29	do	5.0	1.42	.44	.57	.63		.6		9	0	:15	do
26	Apr.3	do	38.0	59.2	1.93	2.51	111		.6		12	-.14	:25	do
27	6	do	7.0	1.65	.65	.60	1.07		.6		11	0	:10	do
28	12	do	7.0	1.75	.37	.59	.64		.6		7	0	:15	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 37

Discharge measurements of Compton River

at / near Rosecrans Ave., during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
29	Apr 19	L W Jordan	7.0	3.29	1.46	.76	4.79		.6		8	-.01	:10	27163
30	26	do	6.5	1.85	.54	.58	1.00		.6		7	0	:10	do
31	May 3	do	4.5	1.27	.52	.54	.66		.6		7	0	:1/6	do
32	10	do	4.5	1.33	.49	.54	.65		.6		5	0	1/6	do
33	17	do	5.5	1.25	.56	.57	.70		.6		5	0	:1/6	do
34	24	do	6.0	1.40	.50	.57	.70		.6		6	0	:1/6	do
35	31	do	2.0	.30	.30	.41	.09		.6		4	0	:1/6	do
36	June 7	do	4.5	1.10	.68	.59	.75		.6		8	0	:1/6	do
37	8	do	5.0	1.10	.53	.58	.58		.6		5	0	:1/6	do
38	14	do	5.0	1.42	.58	.61	.83		.6		7	0	:1/6	do
39	21	do	4.0	1.21	.49	.62	.59		.6		5	0	:1/6	do
40	28	do	4.5	1.32	.51	.66	.68		.6		7	0	:1/6	do
41	July 5	do	2.0	.18	.39	.47	.07		.6		4	0	:1/6	do
42	12	do	4.0	1.22	.45	.65	.55		.6		6	0	:1/6	do
43	19	do	4.5	1.25	.35	.64	.44		.6		6	0	:1/6	do
44	26	do	5.0	1.58	.48	.77	.76		.6		6	0	:1/6	do
45	Aug 2	do	5.0	1.55	.39	.80	.61		.6		7	0	:1/6	do
46	9	do	4.0	1.41	.35	.78	.49		.6		6	0	:1/6	do
47	16	do				.44	.04	estimated						
48	23	do	5.0	1.80	.46	.90	.83		.6		4	0	:1/6	do
49	30	do	5.0	1.79	.27	.79	.49		.6		5	0	:1/6	do
50	Sept 13	do	4.5	1.44	.25	.75	.36		.6		4	0	1/6	do
51	18	do	39.0	65.0	1.47	2.30	95.70		.6		14	.04	1/2	do
52	27	do	5.0	1.42	.35	.81	.50		.6		4	0	1/6	do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Low Stage

File No. 37

Rating table for Compton Creek, Rosecrans Road

Compton, Calif., *from* Oct. 1, 19 28, *to* Sept. 30, 19 29

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
.30	0		.50	.44		.70	3.64		.90	8.53				
.31	.01		.51	.48		.71	3.89		.918	.77				
.32	.02		.52	.52		.72	4.13		.92	9.01				
.33	.03		.53	.56		.73	4.37		.93	9.26				
.34	.04		.54	.60		.74	4.62		.94	9.50				
.35	.05		.55	.65		.75	4.86		.95	9.75				
.36	.06		.56	.70		.76	5.11		.96	9.99				
.37	.08		.57	.75		.77	5.35		.97	10.23				
.38	.10		.58	.80		.78	5.60		.98	10.48				
.39	.12		.59	.88		.79	5.84		.99	10.72				
.40	.14		.60	1.20		.80	6.08		1.00	10.97				
.41	.16		.61	1.44		.81	6.33		1.01	11.21				
.42	.18		.62	1.69		.82	6.57		1.02	11.46				
.43	.20		.63	1.93		.83	6.82		1.03	11.70				
.44	.22		.64	2.18		.84	7.06		1.04	11.94				
.45	.25		.65	2.42		.85	7.30		1.05	12.19				
.46	.28		.66	2.67		.86	7.55		1.06	12.43				
.47	.32		.67	2.91		.87	7.79		1.07	12.68				
.48	.36		.68	3.15		.88	8.04		1.08	12.92				
.49	.40		.69	3.40		.89	8.28							

The above table is not applicable for obstructed channel conditions. It is based on 52 discharge measurements made during October 12, 1928 - May 31, 1929

and is fairly well defined between 0 second-feet and 150 second-feet.

Discharges are interpolated between measurements June 7, 1929 - Sept. 30, 1929 - Gage heights are effective during this period when there is no flow during part of the day

Computed by M.Rupert

Checked by LWJ

Date Sept. 30, 1929

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

High Stage

File No. 37

Rating table for Compton Creek, Rosecrans Road,

Compton, Calif., *from* Oct. 1, *19*28, *to* Sept. 30, *19*29

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
1.08	12.92	.04	1.48	31.26		1.88	57.50		2.28	92.36		2.68	135.7	
1.10	13.0	.455	1.50	32.30	.60	1.90	59.00	.78	2.30	94.30	1.01	2.70	138	1.20
.12	13.91		.52	33.50		.92	60.56		.32	96.32		.72	140.4	
.14	14.82		.54	34.70		.94	62.12		.34	98.34		.74	142.8	
.16	15.73		.56	35.90		.96	63.68		.36	100.4		.76	145.2	
.18	16.64		.58	37.10		.98	65.24		.38	102.4		.78	147.6	
1.20	17.55	.465	.60	38.30	.64	2.00	66.80	.86	2.40	104.4	1.07	2.80	150	1.30
.22	18.48		.62	39.58		.02	68.52		.42	106.5		.82	152.6	
.24	19.41		.64	40.86		.04	70.24		.44	108.7		.84	155.2	
.26	20.34		.66	42.14		.06	71.96		.46	110.8		.86	157.8	
.28	21.27		.68	43.42		.08	73.68		.48	113.0		.88	160.4	
1.30	22.20	.490	1.70	44.70	.68	2.10	75.40	.92	2.50	115.1	1.13	2.90	163	1.30
.32	23.18		.72	46.06		.12	77.24		.52	117.4		.92	165.6	
.34	24.16		.74	47.42		.14	79.08		.54	119.6		.94	168.2	
.36	25.14		.76	48.78		.16	80.92		.56	121.9		.96	170.8	
.38	26.12		.78	50.14		.18	82.76		.58	124.1		.98	173.4	
1.40	27.10	.520	1.80	51.50	.75	2.20	84.60	.97	2.60	126.4	1.16	3.00	176.0	1.40
.42	28.14		.82	53.00		.22	86.54		.62	128.7		.02	178.8	
.44	29.18		.84	54.50		.24	88.48		.64	131.0		.04	181.6	
.46	30.22		.86	56.00		.26	90.42		.66	133.4		.06	184.4	

The above table is not applicable for obstructed channel conditions. It is based on 52 discharge measurements made during Oct. 12, 1928 - September 30, 1929

and is not well defined between 150 second-feet and 800 second-feet.

Computed by M.RUPERT

Checked by LWJ

Date Sept. 30, 1929

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Rating table for Compton Creek, Rosecrans Road

Compton, Calif, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
3.08	187.2		3.48	244		3.88	308.6		4.28	387.0		4.68	493.6	
3.10	190	1.40	3.50	247	1.50	3.90	312	1.80	4.30	391.2	2.38	4.70	500	3.50
.12	192.8		.52	250		.92	315.6		.32	396.0		.72	507	
.14	195.6		.54	253		.94	319.2		.34	400.7		.74	514	
.16	198.4		.56	256		.96	322.8		.36	405.5		.76	521	
.18	201.2		.58	259		.98	326.4		.38	410.2		.78	528	
3.20	204	1.40	3.60	262	1.60	4.00	330	1.88	4.40	415.0	2.50	4.80	535	3.70
.22	206.8		.62	265.2		.02	333.8		.42	420		.82	542	
.24	209.6		.64	268.4		.04	337.5		.44	425		.84	550	
.26	212.4		.66	271.6		.06	341.3		.46	430		.86	557	
.28	215.2		.68	274.8		.08	345.0		.48	435		.88	565	
3.30	218	1.40	3.70	278.0	1.68	4.10	348.8	2.12	4.50	440	2.80	4.90	572	3.80
.32	220.8		.72	281.4		.12	353.0		.52	445.6		.92	580	
.34	223.6		.74	284.7		.14	357.3		.54	451.2		.94	587	
.36	226.4		.76	288.1		.16	361.5		.56	456.8		.96	595	
.38	229.2		.78	291.4		.18	365.8		.58	462.4		.98	602	
3.40	232	1.50	3.80	294.8	1.72	4.20	370	2.12	4.60	468	3.20	5.00	610	4.00
.42	235.		.82	298.2		.22	374.2		.62	474.4		.02	618	
.44	238		.84	301.7		.24	378.5		.64	480.8		.04	626	
.46	241		.86	305.1		.26	382.7		.66	487.2		06	634	

The above table is not applicable for obstructed channel conditions. It is based on (32+) discharge measurements made during Oct. 12, 1928 - Sept. 30, 1929

and is not well defined between 150 second-feet and 800 second-feet.

Computed by M. Rupert

Checked by LWJ

Date Sept. 30, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Rating table for Compton Creek at Rosecrans Ave. Compton

....., *from* Oct. 1 ....., *19* 28 ., *to* Sept. 30 ., *19* 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
5.06	634		.46	799										
.08	642		.48	807										
5.10	650	4.00	5.50	816	4.30									
.12	658		.52	825										
.14	666		.54	833										
.16	674		.56	842										
.18	682		.58	850										
5.20	690	4.10	5.60	859	4.30									
.22	698		.62	868										
.24	706		.64	876										
.26	715		.66	885										
.28	723		.68	893										
5.30	731	4.20	5.70	902	4.30									
.32	739		.72	911										
.34	748		.74	919										
.36	756		.76	928										
.38	764													
5.40	773	4.30												
.42	782													
.44	790													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by LWJ

Checked by MAR

Date .....

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Rating table for Compton Creek, Rosecrans Road

Compton, Calif, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
3.08	187.2		3.48	244		3.88	308.6		4.28	387.0		4.68	493.6	
3.10	190	1.40	3.50	247	1.50	3.90	312	1.80	4.30	391.2	2.38	4.70	500	3.50
.12	192.8		.52	250		.92	315.6		.32	396.0		.72	507	
.14	195.6		.54	253		.94	319.2		.34	400.7		.74	514	
.16	198.4		.56	256		.96	322.8		.36	405.5		.76	521	
.18	201.2		.58	259		.98	326.4		.38	410.2		.78	528	
3.20	204	1.40	3.60	262	1.60	4.00	330	1.88	4.40	415.0	2.50	4.80	535	3.70
.22	206.8		.62	265.2		.02	333.8		.42	420		.82	542	
.24	209.6		.64	268.4		.04	337.5		.44	425		.84	550	
.26	212.4		.66	271.6		.06	341.3		.46	430		.86	557	
.28	215.2		.68	274.8		.08	345.0		.48	435		.88	565	
3.30	218	1.40	3.70	278.0	1.68	4.10	348.8	2.12	4.50	440	2.80	4.90	572	3.80
.32	220.8		.72	281.4		.12	353.0		.52	445.6		.92	580	
.34	223.6		.74	284.7		.14	357.3		.54	451.2		.94	587	
.36	226.4		.76	288.1		.16	361.5		.56	456.8		.96	595	
.38	229.2		.78	291.4		.18	365.8		.58	462.4		.98	602	
3.40	232	1.50	3.80	294.8	1.72	4.20	370	2.12	4.60	468	3.20	5.00	610	4.00
.42	235.		.82	298.2		.22	374.2		.62	474.4		.02	618	
.44	238		.84	301.7		.24	378.5		.64	480.8		.04	626	
.46	241		.86	305.1		.26	382.7		.66	487.2		06	634	

The above table is not applicable for obstructed channel conditions. It is based on (32+) discharge measurements made during Oct. 12, 1928 - Sept. 30, 1929

and is not well defined between 150 second-feet and 800 second-feet.

Computed by M. Rupert

Checked by LWJ

Date Sept. 30, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Rating table for Compton Creek at Rosecrans Ave. Compton

....., *from* Oct. 1, 19 28, *to* Sept. 30, 19 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
5.06	634		.46	799										
.08	642		.48	807										
5.10	650	4.00	5.50	816	4.30									
.12	658		.52	825										
.14	666		.54	833										
.16	674		.56	842										
.18	682		.58	850										
5.20	690	4.10	5.60	859	4.30									
.22	698		.62	868										
.24	706		.64	876										
.26	715		.66	885										
.28	723		.68	893										
5.30	731	4.20	5.70	902	4.30									
.32	739		.72	911										
.34	748		.74	919										
.36	756		.76	928										
.38	764													
5.40	773	4.30												
.42	782													
.44	790													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by LWJ

Checked by MAR

Date .....

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Rating table for Compton Creek, Rosecrans Road

Compton, Calif, *from* Oct. 1, *19* 28, *to* Sept. 30, *19*29

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
3.08	187.2		3.48	244		3.88	308.6		4.28	387.0		4.68	493.6	
3.10	190	1.40	3.50	247	1.50	3.90	312	1.80	4.30	391.2	2.38	4.70	500	3.50
.12	192.8		.52	250		.92	315.6		.32	396.0		.72	507	
.14	195.6		.54	253		.94	319.2		.34	400.7		.74	514	
.16	198.4		.56	256		.96	322.8		.36	405.5		.76	521	
.18	201.2		.58	259		.98	326.4		.38	410.2		.78	528	
3.20	204	1.40	3.60	262	1.60	4.00	330	1.88	4.40	415.0	2.50	4.80	535	3.70
.22	206.8		.62	265.2		.02	333.8		.42	420		.82	542	
.24	209.6		.64	268.4		.04	337.5		.44	425		.84	550	
.26	212.4		.66	271.6		.06	341.3		.46	430		.86	557	
.28	215.2		.68	274.8		.08	345.0		.48	435		.88	565	
3.30	218	1.40	3.70	278.0	1.68	4.10	348.8	2.12	4.50	440	2.80	4.90	572	3.80
.32	220.8		.72	281.4		.12	353.0		.52	445.6		.92	580	
.34	223.6		.74	284.7		.14	357.3		.54	451.2		.94	587	
.36	226.4		.76	288.1		.16	361.5		.56	456.8		.96	595	
.38	229.2		.78	291.4		.18	365.8		.58	462.4		.98	602	
3.40	232	1.50	3.80	294.8	1.72	4.20	370	2.12	4.60	468	3.20	5.00	610	4.00
.42	235.		.82	298.2		.22	374.2		.62	474.4		.02	618	
.44	238		.84	301.7		.24	378.5		.64	480.8		.04	626	
.46	241		.86	305.1		.26	382.7		.66	487.2		06	634	

The above table is not applicable for obstructed channel conditions. It is based on (32+) discharge measurements made during Oct. 12, 1928 - Sept. 30, 1929

and is not well defined between 150 second-feet and 800 second-feet.

Computed by M. Rupert

Checked by LWJ

Date Sept. 30, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Rating table for Compton Creek at Rosecrans Ave. Compton

....., *from* Oct. 1 , 19 28 , *to* Sept. 30 , 19 29

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
5.06	634		.46	799										
.08	642		.48	807										
5.10	650	4.00	5.50	816	4.30									
.12	658		.52	825										
.14	666		.54	833										
.16	674		.56	842										
.18	682		.58	850										
5.20	690	4.10	5.60	859	4.30									
.22	698		.62	868										
.24	706		.64	876										
.26	715		.66	885										
.28	723		.68	893										
5.30	731	4.20	5.70	902	4.30									
.32	739		.72	911										
.34	748		.74	919										
.36	756		.76	928										
.38	764													
5.40	773	4.30												
.42	782													
.44	790													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

.....

and is ..... well defined between ..... second-feet and ..... second-feet.

.....

.....

.....

Computed by LWJ

Checked by MAR

Date .....

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Rating table for Compton Creek, Rosecrans Road

Compton, Calif, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
3.08	187.2		3.48	244		3.88	308.6		4.28	387.0		4.68	493.6	
3.10	190	1.40	3.50	247	1.50	3.90	312	1.80	4.30	391.2	2.38	4.70	500	3.50
.12	192.8		.52	250		.92	315.6		.32	396.0		.72	507	
.14	195.6		.54	253		.94	319.2		.34	400.7		.74	514	
.16	198.4		.56	256		.96	322.8		.36	405.5		.76	521	
.18	201.2		.58	259		.98	326.4		.38	410.2		.78	528	
3.20	204	1.40	3.60	262	1.60	4.00	330	1.88	4.40	415.0	2.50	4.80	535	3.70
.22	206.8		.62	265.2		.02	333.8		.42	420		.82	542	
.24	209.6		.64	268.4		.04	337.5		.44	425		.84	550	
.26	212.4		.66	271.6		.06	341.3		.46	430		.86	557	
.28	215.2		.68	274.8		.08	345.0		.48	435		.88	565	
3.30	218	1.40	3.70	278.0	1.68	4.10	348.8	2.12	4.50	440	2.80	4.90	572	3.80
.32	220.8		.72	281.4		.12	353.0		.52	445.6		.92	580	
.34	223.6		.74	284.7		.14	357.3		.54	451.2		.94	587	
.36	226.4		.76	288.1		.16	361.5		.56	456.8		.96	595	
.38	229.2		.78	291.4		.18	365.8		.58	462.4		.98	602	
3.40	232	1.50	3.80	294.8	1.72	4.20	370	2.12	4.60	468	3.20	5.00	610	4.00
.42	235.		.82	298.2		.22	374.2		.62	474.4		.02	618	
.44	238		.84	301.7		.24	378.5		.64	480.8		.04	626	
.46	241		.86	305.1		.26	382.7		.66	487.2		06	634	

The above table is not applicable for obstructed channel conditions. It is based on (32+) discharge measurements made during Oct. 12, 1928 - Sept. 30, 1929

and is not well defined between 150 second-feet and 800 second-feet.

Computed by M. Rupert

Checked by LWJ

Date Sept. 30, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Rating table for Compton Creek at Rosecrans Ave. Compton

....., *from* Oct. 1 , *19* 28 , *to* Sept. 30 , *19* 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
5.06	634		.46	799										
.08	642		.48	807										
5.10	650	4.00	5.50	816	4.30									
.12	658		.52	825										
.14	666		.54	833										
.16	674		.56	842										
.18	682		.58	850										
5.20	690	4.10	5.60	859	4.30									
.22	698		.62	868										
.24	706		.64	876										
.26	715		.66	885										
.28	723		.68	893										
5.30	731	4.20	5.70	902	4.30									
.32	739		.72	911										
.34	748		.74	919										
.36	756		.76	928										
.38	764													
5.40	773	4.30												
.42	782													
.44	790													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by LWJ

Checked by MAR

Date .....

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Rating table for Compton Creek, Rosecrans Road

Compton, Calif, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
3.08	187.2		3.48	244		3.88	308.6		4.28	387.0		4.68	493.6	
3.10	190	1.40	3.50	247	1.50	3.90	312	1.80	4.30	391.2	2.38	4.70	500	3.50
.12	192.8		.52	250		.92	315.6		.32	396.0		.72	507	
.14	195.6		.54	253		.94	319.2		.34	400.7		.74	514	
.16	198.4		.56	256		.96	322.8		.36	405.5		.76	521	
.18	201.2		.58	259		.98	326.4		.38	410.2		.78	528	
3.20	204	1.40	3.60	262	1.60	4.00	330	1.88	4.40	415.0	2.50	4.80	535	3.70
.22	206.8		.62	265.2		.02	333.8		.42	420		.82	542	
.24	209.6		.64	268.4		.04	337.5		.44	425		.84	550	
.26	212.4		.66	271.6		.06	341.3		.46	430		.86	557	
.28	215.2		.68	274.8		.08	345.0		.48	435		.88	565	
3.30	218	1.40	3.70	278.0	1.68	4.10	348.8	2.12	4.50	440	2.80	4.90	572	3.80
.32	220.8		.72	281.4		.12	353.0		.52	445.6		.92	580	
.34	223.6		.74	284.7		.14	357.3		.54	451.2		.94	587	
.36	226.4		.76	288.1		.16	361.5		.56	456.8		.96	595	
.38	229.2		.78	291.4		.18	365.8		.58	462.4		.98	602	
3.40	232	1.50	3.80	294.8	1.72	4.20	370	2.12	4.60	468	3.20	5.00	610	4.00
.42	235.		.82	298.2		.22	374.2		.62	474.4		.02	618	
.44	238		.84	301.7		.24	378.5		.64	480.8		.04	626	
.46	241		.86	305.1		.26	382.7		.66	487.2		06	634	

The above table is not applicable for obstructed channel conditions. It is based on (32+) discharge measurements made during Oct. 12, 1928 - Sept. 30, 1929

and is not well defined between 150 second-feet and 800 second-feet.

Computed by M. Rupert

Checked by LWJ

Date Sept. 30, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Rating table for Compton Creek at Rosecrans Ave. Compton

....., *from* Oct. 1 ....., *19* 28 ., *to* Sept. 30 ., *19* 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
5.06	634		.46	799										
.08	642		.48	807										
5.10	650	4.00	5.50	816	4.30									
.12	658		.52	825										
.14	666		.54	833										
.16	674		.56	842										
.18	682		.58	850										
5.20	690	4.10	5.60	859	4.30									
.22	698		.62	868										
.24	706		.64	876										
.26	715		.66	885										
.28	723		.68	893										
5.30	731	4.20	5.70	902	4.30									
.32	739		.72	911										
.34	748		.74	919										
.36	756		.76	928										
.38	764													
5.40	773	4.30												
.42	782													
.44	790													

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and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by LWJ

Checked by MAR

Date .....

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Rating table for Compton Creek, Rosecrans Road

Compton, Calif, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
3.08	187.2		3.48	244		3.88	308.6		4.28	387.0		4.68	493.6	
3.10	190	1.40	3.50	247	1.50	3.90	312	1.80	4.30	391.2	2.38	4.70	500	3.50
.12	192.8		.52	250		.92	315.6		.32	396.0		.72	507	
.14	195.6		.54	253		.94	319.2		.34	400.7		.74	514	
.16	198.4		.56	256		.96	322.8		.36	405.5		.76	521	
.18	201.2		.58	259		.98	326.4		.38	410.2		.78	528	
3.20	204	1.40	3.60	262	1.60	4.00	330	1.88	4.40	415.0	2.50	4.80	535	3.70
.22	206.8		.62	265.2		.02	333.8		.42	420		.82	542	
.24	209.6		.64	268.4		.04	337.5		.44	425		.84	550	
.26	212.4		.66	271.6		.06	341.3		.46	430		.86	557	
.28	215.2		.68	274.8		.08	345.0		.48	435		.88	565	
3.30	218	1.40	3.70	278.0	1.68	4.10	348.8	2.12	4.50	440	2.80	4.90	572	3.80
.32	220.8		.72	281.4		.12	353.0		.52	445.6		.92	580	
.34	223.6		.74	284.7		.14	357.3		.54	451.2		.94	587	
.36	226.4		.76	288.1		.16	361.5		.56	456.8		.96	595	
.38	229.2		.78	291.4		.18	365.8		.58	462.4		.98	602	
3.40	232	1.50	3.80	294.8	1.72	4.20	370	2.12	4.60	468	3.20	5.00	610	4.00
.42	235.		.82	298.2		.22	374.2		.62	474.4		.02	618	
.44	238		.84	301.7		.24	378.5		.64	480.8		.04	626	
.46	241		.86	305.1		.26	382.7		.66	487.2		06	634	

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and is not well defined between 150 second-feet and 800 second-feet.

Computed by M. Rupert

Checked by LWJ

Date Sept. 30, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Rating table for Compton Creek at Rosecrans Ave. Compton

....., *from* Oct. 1 ....., *19* 28 ., *to* Sept. 30 ....., *19* 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
5.06	634		.46	799										
.08	642		.48	807										
5.10	650	4.00	5.50	816	4.30									
.12	658		.52	825										
.14	666		.54	833										
.16	674		.56	842										
.18	682		.58	850										
5.20	690	4.10	5.60	859	4.30									
.22	698		.62	868										
.24	706		.64	876										
.26	715		.66	885										
.28	723		.68	893										
5.30	731	4.20	5.70	902	4.30									
.32	739		.72	911										
.34	748		.74	919										
.36	756		.76	928										
.38	764													
5.40	773	4.30												
.42	782													
.44	790													

The above table is not applicable for obstructed channel conditions. It is based on ..... discharge measurements made during .....

.....

and is ..... well defined between ..... second-feet and ..... second-feet.

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.....

.....

Computed by LWJ

Checked by MAR

Date .....

F. C. Dist.—Form 105 500 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Compton Creek ~~River~~ Creek

At ~~Near~~ Rosecrans Road, Compton for the Year Ending September 30, 1929

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

19__ File No. 37

Drainage Area 21.30 Square Miles. [Av. Continuous Stage Recorder Observer.] Gage Read to Continuous One Twice a Day. Used rating table dated Sept. 30, 1929

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	.72	4.13	.71	3.89	18hrs .34	.03	7 hrs .32	.01	H	28.90	.56	.70
2	.68	3.15	.73	4.37	19 hrs .37	.06	Dry	0	H	14.60	.58	.80
3	.67	2.91	.70	3.64	H	54.50	22 hrs .59	.81	.58	.80	.55	.65
4	.66	2.67	.50	.44	.72	4.13	.57	.75	H	25.00	.46	.28
5	.67	2.91	.52	.52	.59	.88	.57	.75	.60	1.20	.58	.80
6	.70	3.64	.70	3.64	.56	.70	.54	.60	.62	1.69	.58	.80
7	.52	.52	.70	3.64	.54	.60	.44	.22	.58	.80	.59	.88
8	.55	.65	.72	4.13	.54	.60	.59	.88	.59	.88	.58	.80
9	.65	2.42	.80	6.08	.47	.32	.58	.80	.58	.80	H	7.15
10	.65	2.42	.62	1.69	H	2.60	.58	.80	.54	.60	H	197.00
11	.68	3.15	12hrs .38	.05	H	4.84	.57	.75	.49	.40	.68	3.15
12	H	19.30	16 hrs .82	4.38	.51	.48	.57	.75	.58	.80	.63	1.93
13	.68	3.15	H	28.30	H	92.10	.53	.56	.58	.80	.62	1.69
14	.54	..60	H	80.00	.64	2.18	.43	.20	.58	.80	.61	1.44
15	.60	1.20	.82	6.57	.59	.88	.59	.88	.58	.80	.60	1.20
16	.67	2.91	.80	6.08	.43	.20	H	16.80	.59	.88	.61	1.44
17	.69	3.40	.77	5.35	12 hrs .32	.01	.62	1.69	.55	.65	.57	.75
18	.67	2.91	.60	1.20	.55	.65	.58	.80	H	59.50	.60	1.20
19	.67	2.91	.53	.56	.54	.60	H	15.60	.64	2.18	.60	1.20
20	.66	2.67	.50	.44	I.67	2.91	H	29.60	.60	1.20	.60	1.20
21	.54	.60	.50	.44	.74	4.62	.87	7.79	.58	.80	.60	1.20
22	.58	.80	.49	.40	.55	.65	.61	1 .44	.57	.75	.58	.80
23	.67	2.91	.51	.48	.40	.14	.59	.88	.54	.60	.58	.80
24	.68	3.15	.50	.44	Dry	0	.59	.88	I.54	.60	.55	.65
25	.67	2.91	.37	.08	Dry	0	.59	.88	I.55	.65	.47	.32
26	I.63	1.93	Dry	0	Dry	0	.61	1.44	I.55	.65	.56	.70
27	.59	.88	.50	.44	.41	.16	.54	.60	I.55	.65	.57	.75
28	.55	.65	.49	.40	.54	.60	.48	.36	I.56	.70	.58	.80
29	.63	1.93	.50	.44	.55	.65	.58	.80			.58	.80
30	.70	3.64	.36	.06	.40	.14	.60	1.20			.58	.80
31	.71	3.89			.40	.14	.61	1.44			.56	.70
TOTAL		90.91		168.15		176.37		90.96		148.68		233.38
Mean Daily Discharge in Second-feet		2.93		5.61		5.69		2.93		5.31		7.53
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		180.32		333.53		349.83		180.42		294.91		462.91
Maximum Mean Daily Discharge in Second-feet		19.30		80.00		92.10		29.60		59.50		197.00
Minimum Mean Daily Discharge in Second-feet		.52		Dry		Dry		Dry		.40		.28

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	.46	[illegible]28	.52	.52	.49	.22	4 hrs. .42	.03		I.63		I.46
2	.59	[illegible]88	.51	.48	10 hrs. .48	.15		I. 37	Meas	.61	20 hrs .51	.40
3	H	[illegible]01	.56	.70	5 hrs .45	.05		I.27		I.59	Dry	0
4	H	97.40	.55	.65	18 hrs .55	.48		I.17		I.57		I.44
5	.70	[illegible]64	.42	.18	.52	.52	Meas	.07		I.55	16hrs .45	.16
6	.62	[illegible]69	16 hrs .42	.12	.54	.60		I.15		I.53	Dry	0
7	.54	[illegible]60	.56	.70	Meas	.75	10hrs.43	I.23		I.52	Dry	0
8	.51	[illegible]48	.54	.60	Meas	.58	2hrs.65	.29		I.50		I.42
9	.60	[illegible]20	.54	.60		I.63		I.31	Meas	.49		I.41
10	.60	[illegible]20	.54	.60	1 hr .58	.06		I.39		I.51		I.39
11	.60	[illegible]20	.60	1.20		I.68		I.47		I.54	6 hrs .57	.19
12	.59	[illegible]88	.52	.52		I.73	Meas	.55		I.56		I.38
13	.59	[illegible]88	.39	.12		I.78		I.52		I.59	Meas	.36
14	.55	[illegible]65	.55	.65	Meas	.83		I.50		I.61		I.37
15	.49	[illegible]40	.58	.80		I.79	9 hrs .40	.04		I.64		I.38
16	.60	[illegible]20	.51	.48		I.75	9 hrs .60	.45		I.66	14hrs.44 2 hrs.55	.17
17	.60	[illegible]	.57	.75		I.71		I.48		I.69		I.40
18	.60	[illegible]20	.57	.75		I.67		I.46		I.72	H	25.90
19	.70	[illegible]64	.48	.36		I.66	Meas	.44		I.74		I.41
20	.59	[illegible]58	2 hrs .55	.06		I.62		I.48		I.77		I.42
21	.57	[illegible]75	.59	.88	Meas	.59		I.53		I.79		I.44
22	.50	[illegible]44	.57	.75		I.61		I.57		I.81		I.45
23	.59	[illegible]88	.60	1.20		I.62		I.62	Meas	.83	16 hrs .48	.24
24	.60	[illegible]20	.53	.56	Dry	0		I.66		I.76		I.46
25	.60	[illegible]20	.50	.44	11 hrs .58	.39		I.71		I.69		I.47
26	.58	[illegible]80	.46	.28		I.64	Meas	.76	15 hrs .48	.27		I.49
27	.58	[illegible]80	4 hrs .56	.12		I.66		I.73	18 hrs .48	.27	Meas	.50
28	.55	[illegible]65	.52	.52	Meas	.68		I.71		I.62		I.44
29	.51	[illegible]48	.50	.44		I.57	12hrs.42 9 hr.51	.27		I.55		I.37
30	.57	[illegible]75	.51	.48		I.47		I.68	Meas	.49	18 hrs .49	.30
31	-	-	.44	.22	-	-		I.66		I.47	-	-
TOTAL		13[illegible].46		16.73		16.49		13.57		18.57		35.82
Mean Daily Discharge in Second-feet		[illegible].42		.54		.55		.44		.60		1.19
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		26[illegible].73		33.18		32.71		26.92		36.83		71.05
Maximum Mean Daily Discharge in Second-feet		97.40		1.20		.83		.76		.83		25.90
Minimum Mean Daily Discharge in Second-feet		.28		.06		Dry		.03		.27		Dry

	PERIOD YEAR
TOTAL	1142.09
Run-off in acre-feet	2265.34

Left margin: second-feet. Discharge ... times during year at various ... Dry ... Minimum stage

Quarter — Fourth / Third / Second / First: Computed MAR MAR MAR MAR; Checked MAR MAR MAR MAR; Date Dec. 1, 1929
Quarter — Fourth / Third / Second / First: Disch. applied MAR MAR MAR MAR; Disch. checked CEB LWJ LWM LWJ; Date May 21, 1929
Quarter — Fourth / Third / Second / First: G. H. Copied MAR LWJ LWJ LWJ; G. H. checked CEB MAR MAR MAR; Date May 21, 1929

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 37

Monthly discharge of Compton [redacted] Creek

at [redacted] Rosecrans Road, Compton for the year ending Sept. 30, 19 29

(Drainage area 21.30 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	19.39	.52	2.93			180.32	
November	80.00	Dry	5.61			333.53	
December	92.10	Dry	5.69			349.83	
January	29.60	Dry	2.93			180.42	
February	59.50	.40	5.31			294.41	
March	197.00	.28	7.53			462.91	
April	97.40	.28	4.42			262.73	
May	1.20	.06	.54			33.18	
June	.83	Dry	.55			32.71	
July	.76	.03	.44			26.92	
August	.83	.27	.60			36.83	
September	25.90	Dry	1.19			71.05	
The year period						2265.34	

NOTE:

EAST BAY C. BRIDGE (E'LY) SPRING ST. LONG BEACH

Location:
On Spring Street bridge crossing the East San Gabriel River about four miles east of Signal Hill, Long Beach.

Drainage Area:
489 square miles.

Installed By:
L.A.C.F.C.D., Hydrographic Department on Feb. 6, 1928.

Records Available:
Feb. 6, 1928 to Sept. 30, 1929 No runoff 1927-28.
Oct.-'27, State Division of Water Rights formerly operated a station at this location. No runoff 1928-1929

Gage:
Rational 7 day stage recorder located in wooden shelter house on downstream side of bridge. House set on corrugated weir stilling well attached to bridge pier. Staff gage fastened to pier beside the stilling well.

Discharge Measurements:
No water flowing 1927-28. Wading measurements will be made below bridge. Measurements of high flow will be made from upstream side of bridge. No flow 1928-1929.

Channel and Control:
Channel of sand and silt. No control.

Extremes of Discharge:
No flow 1927-28. No flow 1928-1929

Diversions:
No diversions near this station.

Regulation:
No regulation.

Accuracy:

Cooperation:
Located, constructed and operated by L.A.C.F.C.D. in cooperation with U.S.G.S., Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 42

Monthly discharge of East San Gabriel **River**

at Spring St. Long Beach **for the year ending Sept. 30, 1929**

(Drainage area 439 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February		NO RUNOFF 1928-1929					
March							
April		NO MEASUREMENTS.					
May							
June							
July							
August							
September							
The year period							

NOTE:

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 41

Discharge measurements of Coyote Creek ~~River~~ Creek

at ~~mouth~~ P.E. Crossing near Artesia, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	12-1	L.W.Jordan	7.0	2.98	.47	1.96	1.37		.6		8	0	1/4	636
2	12-8	do	6.8	3.16	.49	2.04	1.53		do		7	do	do	do
3	12-13	Jordan& Crittenden	7.1	3.81	.90	2.25	3.37		do		9	do	1/2	do
4	12-22	do	7.3	3.61	.61	2.14	2.19		do		14	do	do	do
	1929													
5	1-12	do	7.0	2.60	.40	1.94	1.04		do		13	do	do	do
6	1-19	do	7.5	4.77	.83	2.36	3.97		do		15	do	1/3	do
7	2-16	do	7.0	4.12	.79	2.26	3.27		do		10	do	1/4	do
8	3-1	do	7.8	3.34	.47	2.01	1.58		do		14	do	1/2	do
9	3-8	do	7.8	3.73	.66	2.16	2.48		do		10	do	1/4	do
10	4-6	do	25	14.6	.49	2.84	7.1		do		13	do	1/3	do
11	4-12	do	7.0	3.10	.44	2.00	1.36		do		8	do	1/4	do
12	4-19	do	7.0	2.20	2.36	1.74	.52		do		7	do	1/3	do
13	4-26	do	6.5	2.25	.13	1.72	.30		do		7	do	do	do
14	5-3	do	2.7	.78	.42	1.65	.32		do		5	do	1/6	do
15	5-10	do	2.4	.51	.31	1.61	.16		do		5	do	do	do
16	5-17	do	2.5	.55	.29	1.55	.15		do		5	do	do	do
17	5-24	do	2.2	.44	.27	1.58	.12		do		5	do	do	do
18	5-31	do	2.5	.55	.25	1.56	.14		do		5	do	do	do
19	6-7	do	1.5	.12	.14	1.43	.17		do		3	do	do	do
20	6-14	do	2.7	.92	.62	1.76	.57		do		6	do	do	do
21	6-21	do	2.0	.24	.17	1.44	.04		do		2	do	do	do
22	6-28	do	2.7	.68	.57	1.66	.40		do		6	do	do	do
23	7-5	do	2.5	.54	.39	1.55	.21		do		5	do	do	do
24	7-12	do	2.0	.40	.35	1.51	.14		do		4	do	do	do
25	7-19	do	1.8	.30	.43	1.47	.13		do		4	do	do	do
26	8-2	do	2.5	.41	.44	1.64	.18		do		4	do	do	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 46

Discharge measurements of Nigger Slough River Creek

at ~~XXXX~~ Wilmington Ave, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*			*No.*	*Total*	*Hours*	271
29	7-12	L. W. Jordan	6.0	4.07	.51	1.28	2.09		.6		7	0	1/6	636
30	7-19	Do	5.8	3.55	.44	1.19	1.56		do		7	do	1/6	do
31	7-26	do	6.7	5.09	.29	1.49	1.46		do		7	do	1/6	do
32	8-2	do	5.8	3.55	.45	1.21	1.59		do		7	do	1/6	do
33	8-9	do	6.0	3.87	.42	1.23	1.64		do		7	do	1/6	do
34	8-16	do	5.8	3.40	.40	1.17	1.34		do		7	do	1/6	do
35	8-23	do	6.5	5.09	.36	1.47	1.82		do		7	do	1/6	do
36	8-30	do	6.0	3.87	.34	1.27	1.31		do		7	do	1/6	do
37	9-6	do	5.8	3.45	.40	1.20	1.39		do		7	do	1/6	do
38	9-13	do	6.0	3.60	.44	1.21	1.58		do		7	do	1/6	do
39	9-20	do	6.0	3.77	.51	1.25	1.92		do		7	do	1/6	do
40	9-27	do	6.0	3.87	.48	1.26	1.86		do		6	do	1/6	do

F. C. Dist. - Form 104--500--9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 35

Discharge measurements of Los Angeles River

at ~~[illegible]~~ Norton Ave., during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	12-8	L. W. Jordan	8.5	4.33	.75	2.91	3.24		.6		8	0	1/4	636
2	1-16	Jordan & Crittenden	50	30.0	2.30	3.00	71.3		do		17	.05	do	do

BALLONA CREEK - CENTINELA BLVD.
NEAR CULVER CITY

Location:
On highway bridge over Ballona Creek at Centinela Blvd. about 2 ¼ miles southwest of Culver City, Los Angeles County, California.

Drainage Area:
115.5 square miles.

Installed by:
Los Angeles County Flood Control District Feb.27,'28

Records Available:
Feb.27,1928 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
An Continuous Water Stage Recorder, variable speed, installed in wooden shelter house on corrugated iron stilling well attached to downstream end of bridge pier on east bank of stream.

Discharge Measurements:
High Water measurements from bridge (Cable station recently installed) low water measurements made by wading near gage.

Channel and Control:
Channel is sand and fine silt. No control in high flows

Extremes of Discharge:
Maximum 4990 c.f.s. March,10,1929
Minimum Dry at various times during year.

Diversions:
Duquesne St, Culver City gravel plant.

Regulation:
None.

Accuracy:
Good for low flows.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S Water Resources Branch.

Balona Creek
Centinela Blvd

Hydrograph of Storm
March 9-10, 1929

Discharge in Second-Feet

5000
4000
3500
3000
2500
2000
1500
1000
500

12 Mid. 2 4 6 8 10 12 Noon 2 4 6 8 10 12 Mid. 2 4 6 8 10 12 Noon 2 4 6 8 10 12 Mid.

March 9 March 10

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of Ballona Creek

at Centinela, during the year ending September 30, 1929.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	262
1	10-20	Rupert-Bollinger	15.5	13.2	.35	5.99	4.6		.6		16	.0	1/4	556
2	10-27	C.E.Bollinger	13	11.8	.31	5.96	3.75		do		8	0	5/6	do
3	11-3	Hardgrove&Patterson	22	20.7	.63	6.45	13.1		do		16	0	1/4	271 637
4	11-10	do & Bollinger	18	17.7	.53	6.31	9.43		do		12	0	1/3	do
5	11-14	Salsbury&Copeland	60	392	3.18	10.02	1247		do		-	.36	1/4	271 588
6	11-14	do do	57	308	2.11	8.50	650		do		12	.22	1/3	do
7	11-15	W.S.Hardgrove	24	24.3	.40	6.60	9.7		do		8	0	1/3	271 637
8	11-17	C.E.Bollinger	8	9.06	.44	6.47	4.0		do		10	0	1/3	271 650
9	11-24	W.S.Hardgrove	6	2.48	1.14	6.47	2.83		do		6	0	1/2	271 637
10	12-1	do	5	1.83	1.40	6.47	2.56		do		5	0	1/3	do
11	12-3	Hardgrove&Godsoe	53.8	260	4.60	9.65	1218		do		10	-.30	1	do
12	12-3	do do	39.8	112.6	1.83	7.69	206		do		9	.30	1/2	do
13	12-3	do do	27.0	92.8	1.63	7.40	151		do		6	.20	1/4	do
14	12-8	do & Chandler	7.6	2.59	1.14	6.00	2.96		do		8	0	1/3	do
15	12-13	do & Godsoe	32.0	19.2	2.18	6.48	41.8		do		12	.03	1/2	do
16	12-15	do	4.8	2.63	1.78	5.94	4.7		do		9	0	1/4	do
17	1-16	do & Chapman	50.3	115	2.20	7.67	253.2		do		8	.06	1/2	do
18	1-16	do do	50.3	151.4	2.56	8.12	387		do		10	.02	1/2	do
19	1-19	do do	40.0	40.3	2.02	6.92	81.6		do		18	.11	1/2	do
20	1-26	do	5.0	2.84	1.35	5.73	3.84		do		8	0	1/3	do
21	2-1	do & Brouleff	50.2	150	2.91	8.46	436		do		10	.41	3/4	do
22	2-8	do	4.8	3.57	1.35	5.80	4.82		do		5	0	1/3	do
23	2-15	do	4.3	3.90	1.63	5.80	6.34		do		8	0	1/4	do
24	2-18	do & Sampson	64	399	5.58	10.70	2480		do	.85	6	.0	1/2	Ship Log
25	2-18	do do	62	418	5.40	10.30	2260		do	.85	8	.20	1/3	do
26	2-22	do & Ayres	6.2	3.07	1.48	5.95	4.55		do		6	0	1/4	271 637
27	3-8	do do	6.0	3.70	1.20	5.80	4.44		do		6	0	1/3	do

F. C. Dist.—Form 104—500 -9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of Ballona Creek

at Centinela Blvd, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	3-9	Hardgrove&Grant	55	120	4.02	8.26	4.83		.6		11	.02	1/2	637 271
29	3-23	Bollinger&Jordan	13	3.87	.94	6.04	3.65		do		11	0	1/2	650
30	3-29	C.E.Bollinger	7.5	1.84	.66	5.98	1.22		do		8	0	1/4	do
31	4-3	Hardgrove&Party	59	158	5.17	9.15	817		do		7	0	1/3	271 637
32	4-4	Cornick & Party	68	276	5.78	10.66	1590		do		10	0	1/3	FC2
33	4-4	do do	63	217	5.54	10.05	1202		do		6.40		1/3	do
34	4-4	Hardgrove&Sampson	60	173	5.24	9.80	906		do		11.20		1/4	-
35	4-4	do do	58	163	5.31	9.40	8.67		do		11.60		1/3	do
36	4-4	Cornick& Party	57	110	4.05	8.34	446		do		7.12		1/3	dO
37	4-4	do do	60	143	3.41	8.55	487		do		7.30		1/2	do
38	4-4	Hardgrove&Sampson	55	102	3.51	8.15	358		do		10.10		1/3	do
39	4-4	do do	55	92.8	3.43	8.00	318		do		10.20		1/3	271 637
40	4-4	do do	53	86.0	2.88	7.78	248		do		11	-	-	do
41	4-4	do do	53	87.8	2.69	7.72	236		do		11	-	-	do
42	4-18	C.E.Bollinger	10.4	3.17	.79	6.05	2.51		do		10.03		1/3	271 650
43	4-25	do	24.5	13.3	1.04	6.35	13.8		do		15	0	1/2	do
44	5-3	do	20.3	6.61	1.02	6.24	6.72		do		12.02		1/2	do
45	5-10	do	8.9	3.68	.54	6.08	1.68		do		10.01		1/4	do
46	5-17	do	10.1	3.29	.66	6.08	2.00		do		8	0	1/4	do
47	5-24	do	6.0	2.73	.73	6.10	1.99		do		6	0	1/4	do
48	5-31	do	3.5	.63	.87	6.04	.55		do		6	0	1/4	do
49	6-7	do	3.9	1.01	.59	6.00	.60		do		6	0	1/4	do
50	6-14	do	4.0	1.04	.67	6.03	.70		do		8	0	1/5	do
51	6-16	do	49.5	110	1.55	8.03	143.8		do		8.07		1/2	do
52	6-21	do	8.7	3.34	1.17	6.11	3.90		do		8.01		1/3	do
53	7-5	do	6.4	1.71	.33	5.96	.56		do		6	0	1/4	do
54	7-19	do	5.7	2.09	.98	6.13	2.28		do		7	0	1/4	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of Ballona ~~River~~ Creek

at ~~near~~ Centinela Blvd., during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
55	7-26	C.E.Bollinger	4.00	1.5	.47	6.03	.70		.6		6	.02	1/4	650
56	8-8	do	5.00	2.21	.38	6.05	.85		do		5	.01	1/4	do
57	9-6	do	9.60	2.24	.85	6.25	1.91		do		7	0	1/4	do
58	9-13	do	9.00	1.86	.50	6.15	.93		do		5	0	1/4	do
59	9-18	do	15.0	6.60	.80	6.50	5.26		do		7	0	1/4	do
60	9-20	do	10.5	3.61	.72	6.36	2.59		do		7	.01	1/4	do

F. C. Dist. Form 103—300—9-28

(2)

Low Water Table

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Rating table for Ballona Creek

....., *from* ....., 19....., *to* ....., 19.....

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
6.50	12.46													
		.34												
.51	12.80													
.52	13.14													
.53	13.48													
.54	13.82													
.55	14.16													
		.375												
.56	14.50													
.57	14.87													
.58	15.25													
.59	15.63													
		.39												
6.60	16.00													
.61	16.39													
.62	16.78													
.63	17.17													
.64	17.56													
.65	17.95													
		.415												
.66	18.34													
.67	18.75													
.68	19.17													
.69	19.59													

The above table is not applicable for obstructed channel conditions. It is based on 60 discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by M. Rupert

Checked by LWJ 7/24/29

Date June 27, 1929

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

High Water Table

File No.

Rating table for Ballona Creek

....., *from*....., 19....., *to*....., 19.....

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*	*Feet*	*Sec.-ft.*	*Sec.-ft.*
11.70	2368		12.70	3290		13.70	4320		14.70	5350				
		8.6			10.3			10.3			10.3			
.75	2411		.75	3342		.75	4371		.75	5402				
.80	2454		.80	3393		.80	4423		.80	5453				
.85	2497		.85	3445		.85	4475		.85	5505				
.90	2540		.90	3496		.90	4526		.90	5556				
		8.9			10.3									
.95	2584		.95	3548		.95	4578		.95	5608				
12.00	2629		13.00	3599		14.00	4629		15.00	5659				
.05	2674		.05	3651		.05	4681							
.10	2718		.10	3702		.10	4732							
		9.3			10.3									
.15	2765		.15	3754		.15	4783							
.20	2811		.20	3805		.20	4835							
.25	2858		.25	3856		.25	4886							
.30	2904		.30	3908		.30	4938							
		9.5			10.3									
.35	2952		.35	3960		.35	4990							
.40	2999		.40	4011		.40	5041							
.45	3046		.45	4063		.45	5092							
12.50	3094		13.50	4114		14.50	5144							
		9.8			10.3									
.55	3143		.55	4166		.55	5196							
.60	3192		.60	4217		.60	5247							
.65	3241		.65	4269		.65	5299							

The above table is not applicable for obstructed channel conditions. It is based on 60 discharge measurements made during .....

and is ..... well defined between ..... second-feet and ..... second-feet.

Computed by M.Rupert

Checked by LWJ 7/24/29

Date June 27, 1929

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Monthly discharge of Ballona Creek ~~River~~ Creek

at ~~Mouth~~ Centinela Blvd. for the year ending Sept. 30, 19 29

(Drainage area 115.5 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	77.40	3.11	9.22			567.02	
November	684	2.52	35.93			2138.01	
December	653	2.70	50.46			3102.61	
January	214	0.56	16.33			1004.25	
February	755	2.25	48.67			2703.17	
March	1147	1.91	45.42			2792.55	
April	604	3.11	28.02			1667.15	
May	7.08	0.48	2.83			174.01	
June	20.23	Dry	1.78			105.92	
July	2.34	.40	1.15			70.79	
August	1.43	.32	1.01			61.94	
September	214	.76	8.69			517.14	
The year ~~report~~						14,904.57	

NOTE:

Correction curve is effective during the entire water year 1928-29

F. C. Dist. Form 102—300—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 62

Monthly discharge of Curson Canyon ~~River~~ Creek

at ~~near~~ upper Canyon for the year ending Sept. 30, 19 29

(Drainage area 32 acres ~~square miles~~)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February	NO RUNOFF 1928-1929						
March	NO MEASUREMENTS 1928-1929						
April							
May							
June							
July							
August							
September							
The year period							

NOTE:

LOS ANGELES RIVER AT VAN NUYS BLV'D.

Location:
On downstream side of highway bridge crossing Los Angeles River at Van Nuys Blv'd.

Drainage Area:
155.7 square miles.

Installed by:
Los Angeles County Flood Control District Dec.19,1928

Records Available:
Dec.19,1928 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Staff gage installed on south side,at lower end of pier of bridge. Rational recorder installed in corrugated iron stilling well and shelter house,at extreme end of pier,just below the staff gage.

Discharge Measurements:
Low water measurements made by wading near gage. High water measurements made from bridge.

Channel and Control:
Channel bed and banks of silt and adobe. No artificial control but channel has not scoured since installation of station. The Bureau of Power and Light,City of L.A. has installed a small flume and removable weir board below the station. Bridge is in two spans.

Extremes of Discharge:
Maximum 127 c.f.s. April 4,1929
Minimum .13 c.f.s. Sept.30,1929

Diversions:
None above gage.

Regulation:
None.

Accuracy:
Good.

Cooperation:
Constructed and Operated by the Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Discharge measurements of LOS ANGELES River ~~Creek~~

at ~~near~~ Van Nuys Blvd., during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	12-1	C.E.Bollinger	2.0	.76	.57	2.36	.43		.6		4	0	1/6	650
2	12-22	Hartman-Bollinger	3.7	1.24	.62	2.30	.77		do		4	0	do	271 588
3	12-29	do do	3.7	1.01	.54	2.29	.54		do		4	0	do	do
4	1929 1-5	do do	3.8	2.6	1.15	2.64	2.94		do		4	0	do	271 650
5	1-12	do do	3.0	1.35	.74	2.30	.99		do		4	0	do	do
6	1-21	C.E.Bollinger	3.3	1.90	1.07	2.52	2.52		do		6	0	do	do
7	2-1	Bollinger&Glen.Eng	3.6	1.22	.91	2.38	1.1		do		7	0	do	do
8	2-8	Skelton-Whittaker	2.8	1.01	.92	2.30	.93		do		6	0	do	do
9	2-8	Bollinger-Skelton	2.8	1.01	.89	2.30	.90		do		6	0	do	do
10	2-15	Bollinger-Robison	2.7	1.15	.95	2.30	1.09		do		6	0	do	do
11	2-18	C.E.Bollinger	5.2	4.68	1.82	3.18	8.5		do		5	.04	do	do
12	2-22	do	3.5	1.19	.69	2.34	.82		do		6	0	do	do
13	3-1	Bollinger-Lloyd	3.6	1.18	.71	2.34	.84		do		6	0	do	do
14	3-8	do do	3.8	1.19	.67	2.26	.80		do		7	0	do	271 558
15	3-15	do do	3.6	1.30	.67	2.26	.87		do		7	0	do	271 650
16	3-19	do do	3.3	1.31	.79	2.39	1.03		do		7	0	do	do
17	3-29	Bollinger-Buckley	3.5	1.30	.72	2.32	.94		do		7	0	do	do
18	4-4	C.E.Bollinger	28.5	51.15	2.31	5.29	119		do		7	.08	1/4	do
19	4-18	do	3.5	1.28	.66	2.32	.84		do		7	0	do	do
20	4-25	do	3.6	1.25	.70	2.30	.88		do		6	0	1/6	do
21	5-3	do	3.7	1.19	.50	2.26	.60		do		7	0	1/4	do
22	5-10	do	3.8	1.37	.55	2.26	.75		do		7	0	do	do
23	5-17	do	3.6	1.02	.51	2.28	.52		do		7	0	1/6	do
24	5-24	do	4.0	1.22	.67	2.29	.81		do		8	0	do	do
25	5-31	do	3.8	1.62	.48	2.30	.77		do		7	0	do	do
26	6-7	do	4.0	1.38	.48	2.28	.66		do		6	0	do	do
27	6-14	do	3.6	1.29	.29	2.19	.37		do		6	0	do	do

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Discharge measurements of LOS ANGELES River Creek

at near Van Nuys Blvd., during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	6-21	C.E.Bollinger	3.6	1.10	.42	2.22	.46		.6		7	0	1/4	650
29	6-28	do	3.7	1.22	.95	2.36	1.16		do		7	0	do	do
30	7-5	do	3.3	.90	.62	2.28	.57		do		6	0	do	do
31	7-19	do	3.1	.97	.63	2.26	.61		do		6	0	do	do
32	7-26	do	3.3	1.62	.63	2.52	1.05		do		7	0	do	do
33	8-2	do	3.8	2.08	.72	2.45	1.49		do		6	0	do	do
34	8-9	do	3.9	2.62	.66	2.55	1.74		do		6	0	do	do
35	8-30	do	4.2	2.36	.69	2.60	1.63		do		7	0	do	do
36	9-13	do	2.7	.60	.62	2.19	.37		do		5	0	do	do
37	9-20	do	3.1	.85	.62	2.16	.53		do		6	0	do	do
38	9-27	do	3.2	.39	.51	2.08	.20		do		4	0	do	do

Los Angeles River
Van Nuys Blvd
Hydrograph of Storm
Feb. 18-19, 1929

Discharge in Second-Feet

100
90
80
70
60
50
40
30
20
10

12 Mid 1 2 3 4 5 6 7 8 9 10 11 12 Noon 1 2 3 4 5 6 7 8 9 10 11 12 Mid 1 2 3 4 5 6 7 8 9 10 11 12 Noon 1 2 3 4 5 6 7 8 9 10 11 12 Mid.

Feb. 18, 1929

Feb. 19, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Rating table for Los Angeles River

Van Nuys Blvd., *from* Oct. 1, 19 28, *to* Sept. 30, 19 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
2.00	0		2.20	.39		2.40	1.10		2.70	3.40		3.25	9.67	
		.02			.0355			.0766			.08			.1666
2.01	.01		.21	.43		.41	1.18		.72	3.56		.30	10.50	
														.21
2.02	.03		.22	.46		.42	1.25		.74	3.72		.35	11.55	
2.03	.05		.23	.50		.43	1.33		.76	3.88		.40	12.60	
														.24
2.04	.07		.24	.53		.44	1.41		.78	4.04		.45	13.80	
2.05	.09		.25	.57		.45	1.48		2.80	4.20		3.50	15.00	
											.09			.26
2.06	.11		.26	.60		.46	1.56		.82	4.38		.55	16.30	
2.07	.13		.27	.64		.47	1.64		.84	4.56		.60	17.60	
														.29
2.08	.15		.28	.67		.48	1.71		.86	4.74		.65	19.05	
2.09	.17		.29	.71		.49	1.79		.88	4.92		.70	20.50	
														.33
2.10	.19		2.30	.75		2.50	1.87		2.90	5.10		3.75	22.15	
											.10			
.11	.21		.31	.78		.52	2.02		.92	5.30		.80	23.80	
														.37
.12	.23		.32	.82		.54	2.18		.94	5.50		.85	25.65	
.13	.25		.33	.85		.56	2.33		.96	5.79		.90	27.50	
														.40
.14	.27		.34	.89		.58	2.48		.98	5.90		.95	29.50	
.15	.29		.35	.92		2.60	2.64		3.00	6.10		4.00	31.50	
											.1266			.43
.16	.31		.36	.96		.62	2.79		.05	6.73		.05	33.65	
.17	.33		.37	.99		.64	2.94		.10	7.37		.10	35.89	
														.47
.18	.35		.38	1.03		.66	3.10		.15	8.00		.15	38.15	
.19	.37		.39	1.06		.68	3.25		.20	8.83	.1666	.20	40.50	
														.51

The above table is not applicable for obstructed channel conditions. It is based on 38 discharge measurements made during 1928-1929

and is fairly well defined between ..... second-feet and ..... second-feet.

Computed by MAR

Checked by LWJ

Date June 19, 1929

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Rating table for Los Angeles River

Van Nuys Blvd. *from* Oct. 1, 19 28, *to* Sept. 30, 19 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
4.25	43.05		5.25	115										
		.51												
.30	45.60		.30	120										
		.56												
.35	48.40		.35	124										
		.61												
.40	51.20		.40	128										
		.66												
.45	54.25		.45	132										
		.70												
4.50	57.30		5.50	137										
		.73												
.55	60.60		.55	141										
		.74												
.60	63.90		.60	145										
		.849												
.65	67.40		.65	149										
.90	70.90		.70	154										
4.75	74.55		5.75	158										
.80	78.20		.80	162										
.85	81.90		.85	166										
.90	85.60		.90	171										
.95	89.8		.95	175										
5.00	94.1		6.00	179.0										
.05	98.3													
.10	103.													
.15	107.													
.20	111													

The above table is not applicable for obstructed channel conditions. It is based on 38 discharge measurements made during 1928-1929

and is fairly well defined between ____ second-feet and ____ second-feet.

Computed by MAR

Checked by LWJ

Date June 19, 1929

C. C. Dist. Form 105 - 500 - 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Los Angeles River Creek

At Van Nuys Blvd. for the Year Ending September 30, 19

Drainage Area 156+ Square Miles. [Rational 7 day Water Stage Recorder

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 25

Gage Read to continuous a Day. Used rating table dated June 19, 1929

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1							2.32	0.82	2.37	0.99	2.34	0.89
2							2.32	.82	2.35	.92	2.34	.89
3							2.43	1.33	2.33	.85	2.34	.89
4							2.67	3.17	H	2.22.	2.33	.85
5							2.66	3.10	2.33	.85	2.33	.85
6							2.68	3.25	2.33	.85	2.29	.71
7							2.71	3.48	2.32	.82	2.23	.50
8							2.71	3.48	2.30	.75	2.27	.64
9							2.49	1.79	2.30	.75	2.31	.78
10							2.32	.82	2.30	.75	H	4.34
11							2.31	.78	2.30	.75	2.42	1.25
12							2.30	.75	2.30	.75	2.25	.57
13							2.31	.78	2.31	.78	2.25	.57
14							2.31	.78	2.31	.78	2.24	.53
15							2.31	.78	2.30	.75	2.25	.57
16							2.37	.99	2.30	.75	2.25	.57
17							2.32	.82	2.31	.78	2.25	.57
18							2.31	.78	H	8.53	2.25	.57
19		Installed	2.30	0.75			2.33	.85	H	12.79	2.25	.57
20			2.30	.75			H	3.46	2.42	1.25	2.27	.64
21			2.30	.75			H	3.65	2.37	.99	2.28	.67
22			2.30	.75			2.34	.89	2.36	.96	2.28	.67
23			2.32	.82			2.31	.78	2.34	.89	2.30	.75
24			2.39	1.06			2.30	.75	2.34	.89	2.27	.64
25			2.31	.78			2.30	.75	2.35	.92	2.25	.57
26			2.33	.85			2.30	.75	2.34	.89	2.26	.60
27			2.29	.71			2.30	.75	2.34	.89	2.31	.78
28			2.29	.71			2.30	.75	2.34	.89	2.30	.75
29			2.29	.71			2.30	.75	-		2.33	.85
30			2.28	.67			2.30	.75	-		2.33	.85
31			2.31	.78			2.30	.75	-		2.35	.92
TOTAL,			10.09				44.15		44.98		25.80	
Daily Discharge in second-feet			.32				1.42		1.61		.83	
Second-feet per square mile												
Run-off depth in inches												
Total in acre-feet			20.01				87.57		89.22		51.17	
Maximum Mean Daily Discharge in Second-feet			1.06				3.65		12.79		4.34	
Minimum Mean Daily Discharge in Second-feet			.67				.75		.75		.50	

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	2.30	0.75	2.32	0.82	2.26	0.60	2.32	0.82	2.72	3.56	2.48	1.71
2	2.28	.67	2.26	.60	2.23	.50	2.26	.60	2.58	2.48	2.38	1.03
3	2.33	.85	2.26	.60	2.21	.43	2.29	.71	2.55	2.26	2.35	.92
4	H	33.38	2.26	.60	2.23	.50	2.40	1.10	2.55	2.26	2.26	.60
5	2.56	2.33	2.27	.64	2.21	.43	2.30	.75	2.72	3.56	2.27	.64
6	2.37	.99	2.28	.67	2.23	.50	2.33	.85	2.45	1.48	2.28	.67
7	2.30	.75	2.28	.67	2.26	.60	2.44	1.41	2.59	2.56	2.30	.75
8	2.30	.75	2.30	.75	2.36	.96	2.38	1.03	2.58	2.48	2.30	.75
9	2.30	.75	2.30	.75	2.32	.82	2.48	1.71	2.52	2.02	2.28	.67
10	2.30	.75	2.30	.75	2.27	.64	2.50	1.87	2.59	2.56	2.28	.67
11	2.30	.75	2.33	.85	2.23	.50	2.34	.89	2.65	3.02	2.28	.67
12	2.30	.75	2.27	.64	2.25	.57	2.33	.85	2.56	2.33	2.34	.89
13	2.29	.71	2.41	1.18	2.28	.67	2.32	.82	2.60	2.64	2.30	.75
14	2.29	.71	2.30	.75	2.21	.43	2.29	.71	2.62	2.79	2.30	.75
15	2.30	.75	2.42	1.25	2.27	.64	2.33	.85	2.71	3.48	2.31	.78
16	2.29	.71	2.37	.99	2.38	1.03	2.37	.99	2.55	2.26	2.30	.75
17	2.31	.78	2.31	.78	2.38	1.03	2.34	.89	2.55	2.25	2.22	.46
18	2.34	.89	2.31	.78	2.29	.71	2.39	1.06	2.70	3.40	2.25	.57
19	2.36	.96	2.31	.78	2.33	.85	2.32	.82	2.53	2.10	2.26	.60
20	2.32	.82	2.32	.82	2.30	.75	2.39	1.06	2.42	1.25	2.23	.50
21	2.31	.78	2.34	.89	2.23	.50	2.40	1.10	2.58	2.48	2.23	.50
22	2.30	.75	2.30	.75	2.25	.57	2.49	1.79	2.58	2.48	2.18	.35
23	2.30	.75	2.29	.71	2.33	.85	2.52	2.02	2.64	2.94	2.13	.25
24	2.30	.75	2.33	.85	2.37	.99	2.56	2.33	2.63	2.85	2.14	.27
25	2.30	.75	2.25	.57	2.30	.75	2.50	1.87	2.55	2.26	2.11	.21
26	2.30	.75	2.22	.46	2.35	.92	2.43	1.33	2.42	1.25	2.12	.23
27	2.30	.75	2.22	.46	2.45	1.48	2.51	1.95	2.40	1.10	2.10	.19
28	2.30	.75	2.20	.39	2.37	.99	2.46	1.56	2.57	2.41	2.08	.15
29	2.30	.75	2.21	.43	2.36	.96	2.60	2.64	2.67	3.18	2.09	.17
30	2.31	.78	2.25	.57	2.28	.67	2.63	2.87	2.57	2.40	2.07	.13
31	-		2.28	.67	-	-	2.64	2.94	2.59	2.56	-	-
TOTAL,	57.36		22.42		21.84		42.19		76.65		17.58	363.06
Daily Discharge in second-feet	1.91		.72		.73		1.36		2.47		.59	1.04
Second-feet per square mile												
Run-off depth in inches												
Total in acre-feet	113.77		44.47		43.32		83.68		152.04		34.87	720.12
Maximum Mean Daily Discharge in Second-feet	33.38		1.25		1.48		2.94		3.56		1.71	33.38
Minimum Mean Daily Discharge in Second-feet	.67		.39		.43		.60		1.10		.13	.13

	Fourth	Third	Second	First
Quarter	MAR	MAR	MAR	MAR
Computed	MAR	MAR	MAR	MAR
Checked				
Date	Dec. 6, 1929			
Quarter	Fourth	Third	Second	First
G. H. Copied	MAR	MAR	MAR	MAR
G. H. checked	LWJ	LWJ	LWJ	LWJ
Date	6/20/29 - 10/19/29			
Quarter	Fourth	Third	Second	First
Disch. applied	DKB	MAR	MAR	MAR
Disch. checked	LWJ	LWJ	LWJ	LWJ
Date	6/20/29-10/19/29			

PERIOD
YEAR

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Monthly discharge of Los Angeles River

at Van Nuys Blvd. for the year ending Sept. 30, 19 29

(Drainage area 156 ± square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October				not installed			
November				not installed			
December Dec. 19-31	1.06	.67	.78			20.01	
January	3.65	.75	1.42			87.57	
February	12.79	.75	1.61			89.22	
March	4.34	.50	.83			51.17	
April	33.38	.67	1.91			113.77	
May	1.25	.39	.72			44.47	
June	1.48	.43	.73			43.32	
July	2.94	.60	1.36			83.68	
August	3.56	1.10	2.47			152.04	
September	1.71	.13	.59			34.87	
The period						720.12	

NOTE:

LOS ANGELES RIVER - UNIVERSAL CITY

Location:
On north bank of Los Angeles River about 300' east of the Lankershim Ave.Bridge across the Los Angeles River near Universal City,Los Angeles County,Calif.

Drainage Area:
404 square miles.

Installed by:
Los Angeles County Flood Control District Jan.22,'28.

Records Available:
Jan.22,1928 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Slope gage installed on matting from mouth of intake tunnel to top of channel bank beside the shelter house. A short vertical staff gage completes the slope gage at the tunnel intake gate. A staff gage is also installed in the stilling well on the same datum as the slope gage. An Au continuous water stage recorder installed in a wooden shelter house connected with the stream by a wooden box tunnel.

Discharge Measurements:
High flows from bridge below gage . Low flows by wading near well intake.

Channel and Control:
Channel - Sandy loam,very heavily overgrown with grass and weeds during summer months.
Control - very poor.

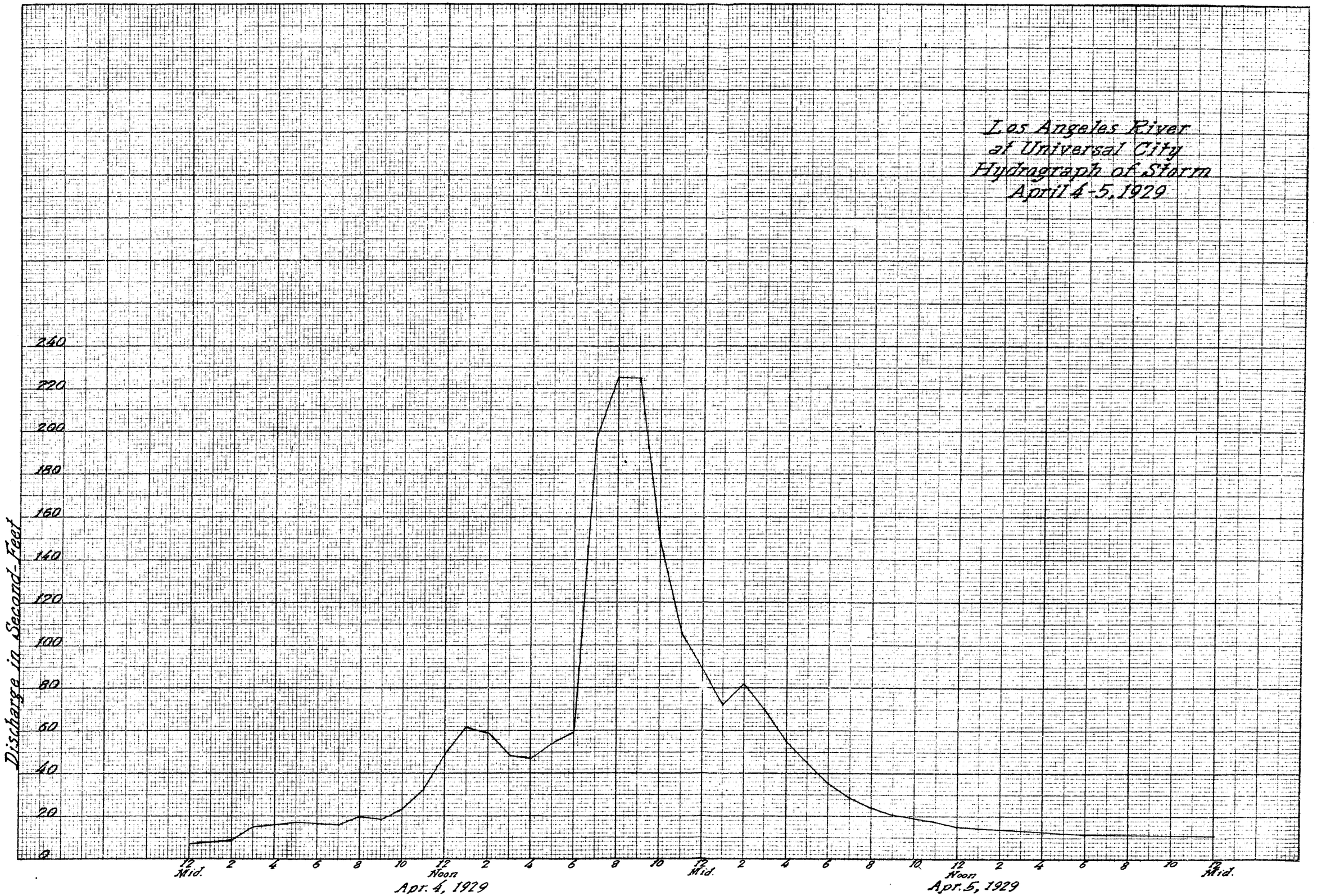
Extremes of Discharge:
Maximum 1928-1929 427 c.f.s. Nov.14,1929
Minimum 1928-1929 4.1 c.f.s. June 21,1929

Diversions:
None.

Regulation:
None. Diaz Ave.Power Plant operates at various times during the year,discharging aqueduct water.

Accuracy:
Poor,due to lack of control

Cooperation:
Located,constructed [illegible] the Los Angeles County Flood Contr[illegible]peration with the U.S.G.S. We[illegible]


Los Angeles River
at Universal City
Hydrograph of Storm
April 4-5, 1929
Discharge in Second-Feet
240
220
200
180
160
140
120
100
80
60
40
20
0
12 Mid.
2
4
6
8
10
12 Noon
2
4
6
8
10
12 Mid.
2
4
6
8
10
12 Noon
2
4
6
8
10
12 Mid.
Apr. 4, 1929
Apr. 5, 1929

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 7

Discharge measurements of Los Angeles River River

near Universal City, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	FC
1	10-4	Milan Rupert	11.5	6.6	1.08	5.17	7.1		.6		16	0	1/3	13 262
2	10-12	Rupert-Bergman	12.0	6.34	1.00	5.16	6.35		do		9	0	1/4	556
3	10-20	Rupert-Bollinger	10.5	5.33	1.27	5.14	6.75		do		11	0	1/3	do
4	10-27	do do	11.2	4.86	1.17	5.16	5.70		do		12	0	1/4	do 271
5	11-3	Patterson-Bollinger	9.7	5.39	1.35	5.18	7.28		do		10	0	1/3	637
6	11-10	Bollinger-Hardgrove	10	5.38	1.25	5.20	6.75		do		10	0	1/4	do
7	11-14	do -Bergman	45	41.6	1.68	6.12	70.18		do		17	.12	1 1/12	do 271
8	11-17	C.E.Bollinger	26	17.7	1.53	5.67	27.38		do		21	.03	1	650
9	11-24	do	20	23.8	1.37	5.85	32.26		do		23	0	1	do
10	12-1	do	19.8	22.4	1.48	5.75	33.25		do		18	.01	3/4	do
11	12-4	Bollinger-Jordan	20.3	26.8	2.15	6.09	57.6		do		21	0	do	do
12	12-8	C.E.Bollinger	20.5	27.2	2.28	6.08	61.95		do		20	0	1	do
13	12-13	Bollinger&Hartmen	24.4	40.4	2.78	6.31	112.56		do		8	.06	3/4	do
14	12-18	do do	19.0	24.0	2.52	5.94	60.5		do		10	0	1/2	do 271
15	12-22	do do	19.5	23.5	2.48	5.93	58.5		do		10	0	do	588
16	12-29	do do	19.7	23.2	2.62	5.93	60.9		do		10	0	1/4	do 271
17	1-3	do do	9	9.1	1.37	5.03	12.4		do		9	.04	do	650
18	1-5	do do	6.5	5.0	1.92	5.00	9.6		do		7	0	1/6	do
19	1-12	do do	6.4	4.5	1.79	4.98	8.0		do		7	0	do	do
20	1-21	C.E.Bollinger	11.5	9.07	1.48	5.11	13.4		do		10	0	1/2	dO
21	1-26	Hardgrove&Ayers	14.2	15.1	2.53	5.58	38.3		do		18	0	1/3	do
22	2-1	Bollinger&Colon	16.0	25.2	1.98	5.72	49.8		do		10	0	1/2	do
23	2-1	do do	16.0	23.9	1.86	5.72	44.5		do		10	0	do	do
24	2-8	do & Skelton	15.5	21.9	1.95	5.70	42.6		do		11	0	1/4	do
25	2-15	do & Robinson	18.0	28.2	2.15	5.80	60.6		do		12	0	1/2	do
26	2-18	do & Buckley	22.0	49.0	3.30	6.37	162		do		11	.08	do	do
27	2-22	C.E.Bollinger	27.8	33.6	1.67	5.72	56.2		do		13	0	1/2	do

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 7

Discharge measurements of Los Angeles River River ~~Creek~~

~~At~~ near Universal City, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	3-1	Bollinger&Fortier	11.8	15.3	.87	4.94	12.6		.6		12	0	1/2	650
29	3-8	Buckley&Bollinger	8.0	6.15	1.08	4.92	6.68		do		8	0	do	do
30	3-15	Bollinger& Lloyd	7.9	5.15	1.37	4.94	7.07		do		9	0	do	do
31	3-21	do do	7.9	5.68	1.10	4.85	6.30		do		8	0	do	do
32	3-29	do & Buckley	7.6	5.44	1.11	4.85	6.02		do		8	0	do	do
33	4-4	C.E.Bollinger	27.5	30.2	2.22	5.78	67		do		10	0	do	do
34	4-4	do	34.4	50.9	2.69	6.20	137		do		11	.30	1do	do
35	4-4	Bollinger&Bergman	8.0	9.17	2.11	5.22	19.3		do		8	0	1/4	do
36	4-12	do & Lloyd	7.7	4.94	1.32	5.00	6.53		do		8	0	1/3	do
37	4-18	C.E.Bollinger	8.0	5.48	1.21	4.98	6.65		do		6	0	1/4	do
38	4-25	do	8.0	5.40	1.17	4.98	6.29		do		10	0	do	do
39	5-3	do	11.3	6.53	.88	4.98	5.72		do		10	0	do	do
40	5-10	do	[illegible]	5.80	.94	5.00	6.00		do		7	0	do	do
41	5-17	do	11.6	7.89	.78	5.05	6.10		do		14	0	do	do
42	5-24	do	9.0	6.68	.90	5.05	5.98		do		9	0	do	do
43	5-31	do	11.3	7.96	.75	5.03	6.0		do		9	0	do	do
44	6-7	do	6.5	5.35	1.13	5.05	6.05		do		9	0	do	do
45	6-14	do	6.5	4.59	.93	5.10	4.27		do		9	0	do	do
46	6-21	do	6.0	4.39	1.00	5.10	4.10		do		8	0	do	do
47	6-28	do	5.0	5.01	1.18	5.11	5.89		do		7	0	do	do
48	7-5	do	5.5	5.36	1.00	5.11	5.38		do		8	0	do	do
49	7-19	do	5.0	4.89	1.02	5.12	4.99		do		7	0	do	do
50	7-26	do	6.0	6.12	.89	5.13	5.42		do		7	0	do	do
51	8-2	do	6.5	7.32	.85	5.18	6.19		do		7	0	do	do
52	8-9	do	6.5	7.95	.88	5.22	6.99		do		7	0	do	do
53	8-23	do	6.5	9.01	.77	5.30	6.96		do		7	0	do	do
54	8-30	do	6.0	8.81	.83	-	7.30		do		7	0	do	do

F. C. Dist. Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 7

Discharge measurements of Los Angeles River ~~Creek~~

~~at~~ near Universal City, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
55	9-6	C.E.Bollinger	14.0	23.0	.82	-	18.85		.6		9	0	1/4	650
56	9-14	do	17.0	16.5	1.23	-	20.39		do		12	0	do	do
57	9-20	do	17.0	17.8	1.25	-	21.98		do		10	0	do	do
58	9-27	do	17.0	16.0	1.27	-	20.47		do		11	0	do	do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 7

Rating table for LOS ANGELES RIVER

NEAR UNIVERSAL CITY, *from* OCT. 1, 1928, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-f
4.80	0	.01	5.20	11.7	.01	5.60	32.6	.01	6.00	72.0	.01	6.40	173.	.01
		0.22			.428			.75			1.65			3.52
.82	.44	"	.22	12.5	"	.62	34.1	"	.02	75.3	"	.42	180	"
.84	.88	"	.24	13.4	"	.64	35.6	"	.04	78.6	"	.44	187	"
.86	1.32	"	.26	14.2	"	.66	37.1	"	.06	81.9	"	.46	194	"
.88	1.76	"	.28	15.1	"	.68	38.6	"	.08	85.2	"	.48	201	"
4.90	2.20	0.27	5.30	15.96	.48	5.70	40.10	.88	6.10	88.50	2.14	6.50	208	"
.92	2.74	"	.32	16.9	"	.72	41.9	"	.12	92.8	"	.52	215	"
.94	3.28	"	.34	17.9	"	.74	43.6	"	.14	97.1	"	.54	222	"
.96	3.82	"	.36	18.8	"	.76	45.4	"	.16	101.	"	.56	229	"
.98	4.36	"	.38	19.8	"	.78	47.1	"	.18	106.	"	.58	236	"
5.00	4.90	.308	5.40	20.8	.54	5.80	48.90	1.03	6.20	110.	2.79	6.60	243	"
.02	5.52	"	.42	21.8	"	.82	51.0	"	.22	115.	"	.62	250	"
.04	6.13	"	.44	22.9	"	.84	53.0	"	.24	121.	"	.64	257	"
.06	6.75	"	.46	24.0	"	.86	55.1	"	.26	127.	"	.66	265	"
.08	7.36	"	.48	25.1	"	.88	57.1	"	.28	132.	"	.68	272	"
5.10	7.98	.97	5.50	26.2	.644	5.90	59.2	1.28	6.30	138.	3.52	6.70	279	"
.12	8.72	"	.52	27.4	"	.92	61.8	"	.32	145.		.72	286	"
.14	9.46	"	.54	28.7	"	.94	64.3	"	.34	152.		.74	293	"
.16	10.2	"	.56	30.0	"	.96	66.9	"	.36	159		.76	300	"
.18	10.9	"	.58	31.3	"	.98	69.4	"	.38	166		.78	307	"
												6.80	314	

The above table is not applicable for obstructed channel conditions. It is based on 58 discharge measurements made during 1928 - 1929

and is fairly well defined between 0 second-feet and 160 second-feet.

Note - mean daily discharges are obtained by interpolating actual measurements. This table is effective only during high flows

MAR

Computed by MAR

Checked by JWL 12/2/29

Date Nov. 27, 1929

F. C. Dist.—Form 105- 500 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LOS ANGELES River

Near Universal City for the Year Ending September 30, 1929

Drainage Area 404 Square Miles. [Av. Continuous Water Stage Recorder Observer.]

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Gage Read to Continuous a Day. Used rating table dated Nov. 27, 1929

File No. 7

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge		Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1		7.1		6.9		33.3		45.4		41.9		12.6	1		6.0		5.9		6.0		5.7		6.1		18.8	1
2		7.1		7.1		41.4		12.4		41.0		9.6	2		6.0		5.8		6.0		5.6		6.2		18.8	2
3		7.1		7.3		49.5		12.4		39.3		6.7	3		6.5		5.7		6.0		5.5		6.3		18.8	3
4		7.1		7.2		57.6		11.0		44.5		6.7	4	H	63.3		5.7		6.0		5.4		6.4		18.8	4
5		7.0		7.1		58.7		9.6		43.6		6.7	5	H	27.8		5.8		6.0		5.4		6.5		18.8	5
6		6.9		7.1		59.8		9.4		41.0		6.7	6		10.2		5.8		6.0		5.4		6.7		18.8	6
7		6.8		7.0		60.9		9.2		41.0		6.7	7		9.5		5.9		6.0		5.3		6.8		19.0	7
8		6.7		6.9		62.0		8.9		42.6		6.7	8		8.9		5.9		5.8		5.3		6.9		19.2	8
9		6.7		6.9		62.0		8.7		42.6	H	8.7	9		8.3		6.0		5.5		5.3		7.0		19.4	9
10		6.6		6.8		62.0		8.5		42.6	H	22.0	10		7.7		6.0		5.3		5.3		7.0		19.6	10
11		6.5		6.8		62.0		8.2		51.6		7.1	11		7.1		6.0		5.0		5.2		7.0		19.8	11
12		6.4		6.8	H	106.0		8.0		60.6		7.1	12		6.5		6.0		4.8		5.2		7.0		20.0	12
13		6.4	H	26.8	H	127.0		8.0		60.6		7.1	13		6.5		6.0		4.5		5.2		7.0		20.2	13
14		6.5	H	105.0		60.5		8.0		60.6		7.1	14		6.6		6.1		4.3		5.2		7.0		20.4	14
15		6.5		27.4		60.5		8.0		60.6		7.1	15		6.6		6.1		4.3		5.1		7.0		20.6	15
16		6.6		27.4		60.5		8.0		60.6		7.0	16		6.6		6.1		4.3		5.1		7.0		20.9	16
17		6.6		27.4		60.5		8.0		60.6		6.9	17		6.7		6.1		4.2		5.1		7.0		21.2	17
18		6.7		28.1		60.5		8.0	H	71.8		6.7	18		6.7		6.1		4.2		5.0		7.0		21.4	18
19		6.7		28.8		60.6		8.0	H	61.0		6.6	19		6.7		6.1		4.1		5.0		7.0		21.7	19
20		6.8		29.5		59.5		12.1		56.2		6.4	20		6.6		6.1		4.1		5.0		7.0		22.0	20
21		6.6		30.2		59.0		12.9		56.2		6.3	21		6.5		6.0		4.1		5.1		7.0		21.8	21
22		6.5		30.9		58.5		7.7		56.2		6.3	22		6.5		6.0		4.3		5.2		7.0		21.5	22
23		6.3		31.6		58.8		16.2		56.2		6.2	23		6.4		6.0		4.6		5.2		7.0		21.3	23
24		6.2		32.3		59.2		28.7		38.6		6.2	24		6.3		6.0		4.8		5.3		7.0		21.1	24
25		6.0		32.4		59.5		29.4		43.6		6.2	25		6.3		6.0		5.1		5.4		7.1		20.8	25
26		5.9		32.6		59.9		36.1		30.6		6.1	26		6.3		6.0		5.3		5.4		7.1		20.6	26
27		5.7		32.7		60.2		28.1		21.3		6.1	27		6.2		6.0		5.6		5.5		7.2		20.4	27
28		5.9		32.8		60.6		38.6		15.5		6.0	28		6.1		6.0		5.9		5.6		7.2		20.4	28
29		6.2		33.0		60.9		39.3		-		6.0	29		6.0		6.0		5.9		5.7		7.3		20.4	29
30		6.4		33.1		60.9		38.6		-		6.0	30		5.9		6.0		5.8		5.8		7.3		20.4	30
31		6.6		33.2		52.2		38.6		-		6.0	31		-		6.0		-		6.0		9.1		-	31
TOTAL		203.1		739.1		1913.9		534.0		1342.5		229.6			283.3		185.2		153.8		165.5		216.2		606.9	6573.1
n Daily Discharge in Second-feet		6.6		23.8		61.7		17.2		47.9		7.4			9.4		6.0		5.1		5.3		7.0		20.2	
ond-feet per square mile																										
-off, depth in inches																										
-off in acre-feet		402.8		1466.0		3796.2		1059.2		2662.8		455.1			561.9		367.3		305.1		328.3		428.8		1203.8	13,037.3
imum Mean Daily Discharge in Second-feet		7.1		105.0		127.0		39.3		71.8		22.0			63.3		6.1		6.0		6.0		9.1		22.0	
imum Mean Daily Discharge in Second-feet		5.7		6.8		33.3		7.7		15.5		6.0			5.9		5.7		4.1		5.0		6.1		18.8	

Minimum stage 4.1 second-feet. June 21 '29 Discharge feet at June 18 on

	First	Second	Third	Fourth
Quarter				
Computed	MAR	MAR	MAR	MAR
Checked	MAR	MAR	MAR	MAR
Date				Dec. 4, 1929

	First	Second	Third	Fourth
Quarter				
Disch. applied	MAR	MAR	MAR	MAR
Disch. checked	JWL	JWL	JWL	JWL
Date				Dec. 2, 1929

	First	Second	Third	Fourth
Quarter				
G. H. Copied				
G. H. checked				
Date				

YEAR

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 7

Monthly discharge of Los Angeles River

at Universal City for the year ending Sept. 30, 1929

(Drainage area 404 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	7.1	5.7	6.6			402.8	
November	105.0	6.8	23.8			1466.0	
December	127.0	33.3	61.7			3796.2	
January	39.3	7.7	17.2			1059.2	
February	71.8	15.5	47.9			2662.8	
March	22.0	6.0	7.4			455.1	
April	63.3	5.9	9.4			561.9	
May	6.1	5.7	6.0			367.3	
June	6.0	4.1	5.1			305.1	
July	6.0	5.0	5.3			328.3	
August	9.1	6.1	7.0			428.8	
September	22.0	18.8	20.2			1203.8	
The year						13037.3	

NOTE:

Diaz Ave. Power Plant operating
Nov. 13, 1928 - Dec. 3, 1928
Jan. 1, 1929 - March 5, 1929

VERDUGO WASH AT GLEN OAKS BLV'D,GLENDALE

Location:
On Rossmoyne Ave.bridge spanning Verdugo Wash near Glen Oaks Blv'd,City of Glendale,County of Los Angeles,California.

Drainage Area:
22.6 square miles.

Installed by:
Los Angeles County Flood Control District Dec.12,1928

Records Available:
Dec.12,1928 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Staff gage on down stream side of bridge on North side of concrete channel at extreme lower end of pier. A grouve is cut in the concrete floor from the lowest point in the channel to the gage in order to obtain a reading at low flows. A corrugated iron pipe stilling well and wooden shelter house are installed at gage.

Discharge Measurements:
Low water measurements made by wading at gage. High water measurements are made from bridge.

Channel and Control:
Concrete Flood Control Channel with V shaped bottom and perpendicular sides. Control is perfect.

Extremes of Discharge:
Maximum 55.5 c.f.s. April 4, 1929.
Minimum Dry at various times during year.

Regulation:
None.

Diversions:
None above gage.

Accuracy:
Good.

Cooperation:
Constructed and operated by the Los Angeles County Flood Control District with cooperation of U.S.G.S. Water Resources Branch. The Engineering Dept. of the City of Glendale have been furnished equipment by the Flood Control District. They will assist the District during storm periods.

Verdugo Wash
at Glen Oaks Blvd
Hydrograph of Storm
April 4, 1929

Discharge in Second-Feet

60
55
50
45
40
35
30
25
20
15
10
5
0

12 Mid 1 2 3 4 5 6 7 8 9 10 11 12 Noon 1 2 3 4 5 6 7 8 9 10 11 12 Mid.

Apr. 4, 1929

F. C. Dist. Form 104—500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Discharge measurements of Verdugo Wash

at Verdugo Wash, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*			*No.*	*Total*	*Hours*	271
1	12-13	Bollinger&Hartman	15	2.58	7.01	.235	18.1		.6		5	.011/2		650
2	2-1	C.E.Bollinger	9	1.11	.60	.155	4.0		do		6	.011/4		do
3	2-18	Bollinger&Buckley	11.5	1.70	.70	.20	11.4		do		9	.021/6		do
4	4-4	Buckley & Lloyd	17.0	4.45	8.41	.335	37.4		do		18	.073/4		do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Rating table for Verdugo Creek

Glen Oaks Blvd., *from* Dec. 12, 19 28, *to* Sept. 30, 19 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.00	.00		0.20	11.40	1.92	0.40	49.75		0.60	88.10				
01	.04	.04	.21	13.32		.41	51.67							
.02	.08		.22	15.24		42	53.59							
.03	.12		.23	17.15		.43	55.50							
.04	.16		.24	19.07		.44	57.42							
.05	.20	.075	.25	20.99		.45	59.34							
.06	.28		.26	22.91		.46	61.26							
.07	.35		.27	24.82		.47	63.17							
.08	.42		.28	26.74		.48	65.09							
.09	.50	.26	.29	28.66		.49	67.01							
0.10	.76	.37	0.30	30.58		0.50	68.93							
.11	1.13		.31	32.49		.51	70.84							
.12	1.50	.60	.32	34.41		.52	72.76							
.13	2.10		.33	36.33		.53	74.68							
.14	2.70	1.05	.34	38.25		.54	76.60							
.15	3.75		.35	40.16		.55	78.51							
.16	4.80	1.60	.36	42.08		.56	80.43							
.17	6.40		.37	44.00		.57	82.35							
.18	8.00	1.70	.38	45.92		.58	84.27							
.19	9.70		.39	47.83		.59	86.18							

The above table is not applicable for obstructed channel conditions. It is based on 4 discharge measurements made during Dec. 13, 1928 to April 4, 1929

and is not well defined between second-feet and second-feet.

Lower portion of rating curve formed to meet estimates of flow as noted on record sheets

Computed by M. Rupert

Checked by LWJ

Date June 25, 1929

F. C. Dist. Form 104—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Discharge measurements of Verdugo Wash

at Verdugo Wash, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	12-13	Bollinger&Hartman	15	2.58	7.01	.235	18.1		.6		5	.011/2		650
2	2-1	C.E.Bollinger	9	1.11	.60	.155	4.0		do		6	.011/4		do
3	2-18	Bollinger&Buckley	11.5	1.70	.70	.20	11.4		do		9	.021/6		do
4	4-4	Buckley & Lloyd	17.0	4.45	8.41	.355	37.4		do		18	.073/4		do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Rating table for Verdugo Creek

Glen Oaks Blvd., *from* Dec. 12, 19 28, *to* Sept. 30, 19 29.

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.00	.00		0.20	11.40	1.92	0.40	49.75		0.60	88.10				
.01	.04	.04	.21	13.32		.41	51.67							
.02	.08		.22	15.24		.42	53.59							
.03	.12		.23	17.15		.43	55.50							
.04	.16		.24	19.07		.44	57.42							
.05	.20	.075	.25	20.99		.45	59.34							
.06	.28		.26	22.91		.46	61.26							
.07	.35		.27	24.82		.47	63.17							
.08	.42		.28	26.74		.48	65.09							
.09	.50		.29	28.66		.49	67.01							
0.10	.76	.26	0.30	30.58		0.50	68.93							
.11	1.13	.37	.31	32.49		.51	70.84							
.12	1.50		.32	34.41		.52	72.76							
.13	2.10	.60	.33	36.33		.53	74.68							
.14	2.70		.34	38.25		.54	76.60							
.15	3.75	1.05	.35	40.16		.55	78.51							
.16	4.80		.36	42.08		.56	80.43							
.17	6.40	1.60	.37	44.00		.57	82.35							
.18	8.00		.38	45.92		.58	84.27							
.19	9.70	1.70	.39	47.83		.59	86.18							

The above table is not applicable for obstructed channel conditions. It is based on 4 discharge measurements made during Dec. 13, 1928 to April 4, 1929

and is not well defined between ..... second-feet and ..... second-feet.

Lower portion of rating curve formed to meet estimates of flow as noted on record sheets

Computed by M.Rupert

Checked by LWJ

Date June 25, 1929

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Discharge measurements of Verdugo Wash ~~River~~ ~~Creek~~

at ~~Mouth~~ Verdugo Wash, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	*Sq.-ft.*	*Ft. per sec.*	*Feet*	*Sec.-ft.*	*Per cent diff.*			*No.*	*Total*	*Hours*	271
1	12-13	Bollinger&Hartman	15	2.58	7.01	.235	18.1		.6		5	.011/2		650
2	2-1	C.E.Bollinger	9	1.11	.60	.155	4.0		do		6	.011/4		do
3	2-18	Bollinger&Buckley	11.5	1.70	.70	.20	11.4		do		9	.021/6		do
4	4-4	Buckley & Lloyd	17.0	4.45	8.41	.335	37.4		do		18	.073/4		do

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Rating table for Verdugo Creek

Glen Oaks Blvd., *from* Dec. 12, 19 28, *to* Sept. 30, 19 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.00	.00		0.20	11.40	1.92	0.40	49.75		0.60	88.10				
.01	.04	.04	.21	13.32		.41	51.67							
.02	.08		.22	15.24		.42	53.59							
.03	.12		.23	17.15		.43	55.50							
.04	.16		.24	19.07		.44	57.42							
.05	.20	.075	.25	20.99		.45	59.34							
.06	.28		.26	22.91		.46	61.26							
.07	.35		.27	24.82		.47	63.17							
.08	.42		.28	26.74		.48	65.09							
.09	.50		.29	28.66		.49	67.01							
0.10	.76	.26	0.30	30.58		0.50	68.93							
.11	1.13	.37	.31	32.49		.51	70.84							
.12	1.50	.60	.32	34.41		.52	72.76							
.13	2.10		.33	36.33		.53	74.68							
.14	2.70	1.05	.34	38.25		.54	76.60							
.15	3.75		.35	40.16		.55	78.51							
.16	4.80	1.60	.36	42.08		.56	80.43							
.17	6.40		.37	44.00		.57	82.35							
.18	8.00	1.70	.38	45.92		.58	84.27							
.19	9.70		.39	47.83		.59	86.18							

The above table is not applicable for obstructed channel conditions. It is based on 4 discharge measurements made during Dec. 13, 1928 to April 4, 1929

and is not well defined between ..... second-feet and ..... second-feet.

Lower portion of rating curve formed to meet estimates of flow as noted on record sheets

Computed by M. Rupert

Checked by LWJ

Date June 25, 1929

L. C. Dist. —Form 105 500 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Verdugo Storm Drain Creek

At Glen Oaks Blvd.-Glendale for the Period Ending September 30, 1929

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Drainage Area 22.6 Square Miles. [Rational 7 day Water Stage recorder Observer.]

Gage Read to continuous Day. Used rating table dated June 25, 1929

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1							Dry	.00	0.14	2.70	Dry	.00
2							.02	.08	.08	.42	.01	.04
3							.02	.08	Dry	.00	.01	.04
4							.02	.08	.08	.42	Dry	.00
5							.01	.04	.01	.04	.02	.08
6							Dry	.00	.01	.04	.09	.50
7							.01	.04	.06	.28	Dry	.00
8							Dry	.00	.01	.04	Dry	.00
9							.01	.04	.01	.04	.05	.20
10							.02	.08	.01	.04	.20	11.40
11					(10 hrs only)		.01	.04	Dry	.00	Dry	.00
12			Installed		.19	4.04	.01	.04	.01	.04	Dry	.00
13			Dec.12		.09	.50	.01	.04	.01	.04	.02	.08
14					.02	.08	.01	.04	.02	.08	.06	.28
15					.03	.12	.02	.08	.01	.04	.01	.04
16					.04	.16	.14	2.70	.01	.04	.02	.08
17					.05	.20	.09	.50	.01	.04	.03	.12
18					.02	.08	.05	.20	.14	2.70	.03	.12
19					.01	.04	.12	1.50	.02	.08	.01	.04
20					.01	.04	.16	4.80	.05	.20	.01	.04
21					.03	.12	.09	.50	.01	.04	.01	.04
22					.02	.08	.03	.12	Dry	.00	.04	.16
23					.05	.20	.01	.04	.03	.12	.09	.50
24					.07	.35	.03	.12	.01	.04	Dry	.00
25					Dry	.00	.01	.04	.01	.04	Dry	.00
26					.03	.12	.01	.04	.01	.04	Dry	.00
27					.04	.16	Dry	.00	Dry	.00	Dry	.00
28					.04	.16	.01	.04	Dry	.00	Dry	.00
29					.03	.12	.01	.04	-	-	Dry	.00
30					Dry	.00	Dry	.00	-	-	.02	.08
31					.01	.04	.01	.04	-	-	.02	.08
TOTAL,					6.61		11.36		8.28		13.92	
ly Discharge in -feet					.33		.37		.30		.45	
et per square mile												
lepth in inches												
acre-feet					13.11		22.53		16.42		27.61	
Mean Daily ge in Second-feet					4.04		4.80		2.70		11.40	
Mean Daily ge in Second-feet					Dry		Dry		Dry		Dry	

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	.02	.08	.01	.04	.02	.08	.03	.12	.01	.04	.01	.04
2	.02	.08	.01	.04	.03	.12	.03	.12	.01	.04	.01	.04
3	.05	.20	.01	.04	.02	.08	.03	.12	.04	.16	.01	.04
4	H 1.78		.01	.04	.02	.08	Dry	Dry	.01	.04	.01	.04
5	.04	.16	.01	.04	.02	.08	.01	.04	.01	.04	Dry	0
6	.06	.28	.07	.35	.02	.08	.01	.04	.02	.08	.01	.04
7	.02	.08	.04	.16	.02	.08	.01	.04	.02	.08	.02	.08
8	.01	.04	.03	.12	.01	.04	.02	.08	.03	.12	.02	.08
9	.02	.08	.03	.12	.01	.04	.03	.12	.02	.08	.01	.04
10	.02	.08	.04	.16	.01	.04	.04	.16	.02	.08	Dry	0
11	.02	.08	.01	.04	.01	.04	.02	.08	.02	.08	Dry	0
12	.02	.08	.01	.04	.01	.04	.02	.08	I.02	.08	Dry	0
13	.01	.04	.02	.08	.01	.04	.02	.08	I.02	.08	Dry	0
14	.01	.04	.01	.04	.01	.04	.02	.08	I.02	.08	.01	.04
15	.01	.04	.04	.16	.04	.16	.02	.08	I.02	.08	.01	.04
16	.01	.04	.05	.20	.08	.42	.03	.12	I.02	.08	Dry	0
17	.01	.04	.02	.08	.08	.42	.03	.12	.02	.08	.01	.04
18	.02	.08	.02	.08	.03	.12	.01	.04	.02	.08	.05	.20
19	.04	.16	.07	.35	.02	.08	.01	.04	.02	.08	.03	.12
20	.01	.04	.08	.42	Dry	.00	.02	.08	.03	.12	Dry	0
21	.04	.16	.05	.20	.02	.08	.02	.08	.01	.04	.01	.04
22	.05	.20	.02	.08	.01	.04	.02	.08	.01	.04	.01	.04
23	.02	.08	.01	.04	.02	.08	.03	.12	.01	.04	.01	.04
24	.02	.08	.01	.04	.04	.16	.04	.16	.02	.08	Dry	0
25	.03	.12	.02	.08	.05	.20	.03	.12	.02	.08	Dry	0
26	.03	.12	.01	.04	.06	.28	.03	.12	.02	.08	.01	.04
27	.02	.08	.01	.04	.04	.16	.01	.04	I.02	.08	Dry	0
28	.01	.04	.01	.04	.04	.16	.02	.08	I.02	.08	.01	.04
29	.02	.08	.01	.04	.03	.12	.02	.08	I.02	.08	.01	.04
30	.02	.08	Dry	.00	.03	.12	.01	.04	I.02	.08	.01	.04
31	-	-	.01	.04	-	-	Dry	0	.02	.08	-	-
TOTAL,		17.54		3.24		3.48		2.56		2.36		1.12
ly Discharge in -feet		.58		.10		.12		.08		.08		.04
et per square mile												
lepth in inches												
acre-feet		34.79		6.43		6.90		5.08		4.68		2.22
Mean Daily ge in Second-feet		14.78		.42		.42		.16		.16		.20
Mean Daily ge in Second-feet		.04		Dry		Dry		Dry		.04		Dry

Quarter	First	Second	Third	Fourth
Computed	MAR	MAR	MAR	MAR
Checked	MAR	MAR	MAR	MAR
Date	Dec. 6, 1929			
Quarter	First	Second	Third	Fourth
Disch. applied	MAR	MAR	MAR	MAR
Disch. checked	LWJ	LWJ	LWJ	MAR
Date.	June 25, 1929			
Quarter	First	Second	Third	Fourth
G. H. Copied	MAR	MAR	MAR	MAR
G.H. checked	LWJ	LWJ	LWJ	MAR
Date.	June 25, 1929			
PERIOD	Dec. 5, 1929			

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Monthly discharge of Verdugo Storm Drain ~~River~~ ~~Creek~~

at ~~Mouth~~ Glen-Oaks Blvd. - Glendale for the year ending Sept. 30, 19

(Drainage area [illegible] square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October						Not installed	
November installed							
December Dec. 12	4.04	Dry	.33			13.11	
January	4.80	Dry	.37			22.53	
February	2.70	Dry	.30			16.42	
March	11.40	Dry	.45			27.61	
April	14.78	.04	.58			34.79	
May	.42	Dry	.10			6.43	
June	.42	Dry	.12			6.90	
July	.16	Dry	.08			5.08	
August	.16	.04	.08			4.68	
September	.20	Dry	.04			2.22	
The ~~year~~ period						139.77	

NOTE:

SYCAMORE STORM DRAIN - UPPER STATION

Location:
Concrete stilling well and shelter house located on West side of Sycamore Storm Drain one block east of Chevy Chase Drive near South of Sycamore Canyon, near Glendale, California.

Drainage Area:
2.67 square miles.

Installed by:
Los Angeles County Flood Control District, Hydrographic Department on Jan. 30, 1928.

Records Available:
Jan. 30, 1928 to Sept. 30, 1929

Gage:
An Continuous Water Stage Recorder and National 7 day Recorder installed for varying periods during year. Concrete shelter adjoining west wall of drain. One staff gage installed in well, another installed on west wall of drain near inlets to stilling well.

Discharge Measurements:
Made by wading at low flows, above weir. measurements made by cable or pipe suspension from planks below weir-notch in high flows.

Channel and Control;
Concrete Flood control channel.
Small notch serving as a control in the low flows and as a sand trap during the high flows.

Extremes of Discharge:
Maximum 62 c.f.s. Mar. 10, 1928
Minimum Dry at various times during the year.

Diversions:
None above the gage.

Regulation:
None.

Accuracy:
Fair.

Cooperation;
Located and operated by the Los Angeles County Flood Control District in Cooperation with the U.S.G.S. Water Resources Branch.

Upper Sycamore Drain
Chevy Chase, Glendale

Hydrograph of Storm
March 10, 1929

Discharge in Second-Feet

90
80
70
60
50
40
30
20
10

12 Mid, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 Noon, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 Mid

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Discharge measurements of Upper Sycamore Drain

at Upper Chevy Chase Drive, Glendale, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	11-14	Bollinger&Bergman	8.0	3.35	3.82	.32	12.74		.6		5	.05	1/6	650
2	12-3	do do	5.0	.51	1.59	-	.81		do		3	-	1/6	do
3	12-3	do do	7.0	.88	1.75	-	1.54		do		3	-	1/6	do
4	12-12	do & Hartman	8.0	2.50	6.23	.33	15.60		do		4	.02	1/4	do
5	4-4	Buckley & Lloyd	9.0	3.38	5.57	.36	18.8		do		2	.09	1/3	271 588

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Rating table for Upper Sycamore Drain
Upper Chevy Chase Drive
Glendale, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
.00	0.00		.20	.40		.40	29.05		.60	69.65				
		.01			.24			2.03			2.03			
.01	.01		.21	.64		.41	31.08	"	.61	71.68	"			
					.36									
.02	.02		.22	1.00		.42	33.11	"	.62	73.71	"			
					.50									
.03	.03		.23	1.50		.43	35.14	"	.63	75.74	"			
					.62									
.04	.04		.24	2.12		.44	37.17	"	.64	77.77	"			
					.78									
.05	.05		.25	2.90		.45	39.20	"	.65	79.80	"			
					.90									
.06	.06		.26	3.80		.46	41.23	"	.66	81.83	"			
					1.06									
.07	.07		.27	4.86		.47	43.26	"	.67	83.86	"			
					1.22									
.08	.08		.28	6.08		.48	45.29	"	.68	85.89	"			
					1.44									
.09	.09		.29	7.52		.49	47.32	"	.69	87.92	"			
					1.68									
.10	.10		.30	9.10		.50	49.35	"	.70	89.95	"			
					1.80									
.11	.11		.31	10.90		.51	51.38	"						
					1.91									
.12	.12		.32	12.81		.52	53.41	"						
					2.03									
.13	.13		.33	14.84		.53	55.44	"						
					2.03									
.14	.14		.34	16.87		.54	57.47	"						
					2.03									
.15	.15		.35	18.90		.55	59.50	"						
					2.03									
.16	.16		.36	20.93	"	.56	61.53	"						
.17	.17		.37	22.96	"	.57	63.56	"						
.18	.18		.38	24.99	"	.58	65.59	"						
		.06												
.19	.24	.16	.39	27.02	"	.59	67.62	"						

The above table is not applicable for obstructed channel conditions. It is based on 5 discharge measurements made during 1928-1929 (also estimates of flow)

and is not well defined between second-feet and second-feet.

Curve is extended beyond 0.45 gage height in a straight line

Computed by MAR

Checked by CEB

Date Sept. 12, 1929

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Upper Sycamore Drain

At / Near Upper Chevy Chase Drive Glendale for the Year Ending September 30, 1929

Drainage Area 2.67 Square Miles. [Rational and Av Continuous Waterstage recorder Observer.]

Gage Read to Continuous Day.

Used rating table dated Sept. 12, 1929

File No. 43

stage Dry feet at on Various times during yr. Discharge second-feet.

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1		Dry		Dry	.02	0.02	.06	0.06	.15	0.15	.10	0.10
2		"		"	.05	.05	.05	.05	.17	.17	.10	.10
3		"	.02	0.02	.17	.17	.06	.06	.16	.16	.08	.08
4		"	.02	.02	.10	.10	.06	.06	.15	.15	.08	.08
5		"	.02	.02	.07	.07	.05	.05	.15	.15	.07	.07
6		"	.02	.02	.04	.04	.05	.05	.15	.15	.07	.07
7		"	.02	.02	.02	.02	.05	.05	.23	1.50	.07	.07
8		"	.02	.02	.01	.01	.05	.05	.11	.11	.07	.07
9		"	.02	.02	.01	.01	.06	.06	.12	.12	.20	.40
10		"	.02	.02	.08	.08	.08	.08	.13	.13	.30	9.10
11		"	.02	.02	.02	.02	.07	.07	.13	.13	.15	.15
12		"	.02	.02	.18	.18	.06	.06	.13	.13	.15	.15
13		"	.02	.02	.17	.17	.07	.07	.11	.11	.13	.13
14		"	.15	.15	.03	.03	.06	.06	.10	.10	.12	.12
15		"	.03	.03	.03	.03	.32	12.81	.10	.10	.13	.13
16		"	.02	.02	.03	.03	.22	1.00	.10	.10	.16	.16
17		"	.02	.02	.03	.03	.06	.06	.10	.10	.12	.12
18		"	.02	.02	.04	.04	.06	.06	.19	.24	.12	.12
19		"	.02	.02	.04	.04	.16	.16	.10	.10	.12	.12
20		"	.02	.02	.04	.04	.22	1.00	.11	.11	.12	.12
21		"	.02	.02	.04	.04	.08	.08	.11	.11	.12	.12
22		"	.02	.02	.06	.06	.05	.05	.11	.11	.18	.18
23		"	.02	.02	.07	.07	.06	.06	.10	.10	.20	.40
24		"	.02	.02	.07	.07	.10	.10	.09	.09	.08	.08
25		"	.02	.02	.06	.06	.09	.09	.09	.09	.08	.08
26		"	.02	.02	.05	.05	.08	.08	.12	.12	.08	.08
27		"	.02	.02	.07	.07	.08	.08	.10	.10	.08	.08
28		"	.02	.02	.05	.05	.08	.08	.13	.13	.08	.08
29		"	.02	.02	.06	.06	.08	.08	-	-	.08	.08
30		"	.02	.02	.08	.08	.08	.08	-	-	.08	.08
31		"	-	-	.07	.07	.08	.08	-	-	.08	.08
TOTAL.		0		.70		1.86		16.78		4.86		12.80
aily Discharge in nd-feet		0		.02		.06		.54		.17		.41
feet per square mile												
depth in inches												
in acre-feet		0		1.39		3.69		33.28		9.64		25.39
n Mean Daily arge in Second-feet		Dry		0.15		0.17		12.81		1.50		9.10
Mean Daily arge in Second-feet		Dry		Dry		.01		.05		.09		.07

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Year
1	.08	0.08	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
2	.08	0.08	"	"	"	"	"	"	"	"	"	"	
3	.16	.16	"	"	"	"	"	"	"	"	"	"	
4	.15	.15	"	"	"	"	"	"	"	"	"	"	
5	.14	.14	"	"	"	"	"	"	"	"	"	"	
6	.13	.13	.02	.02	"	"	"	"	"	"	"	"	
7	.12	.12	.03	.03	"	"	"	"	"	"	"	"	
8	.12	.12	IDry	Dry	"	"	"	"	"	"	"	"	
9	.11	.11	I "	"	"	"	"	"	"	"	"	"	
10	.11	.11	I "	"	"	"	"	"	"	"	"	"	
11	.10	.10	I"	"	"	"	"	"	"	"	"	"	
12	.19	.10	Dry	"	"	"	"	"	"	"	"	"	
13	.09	.09	"	"	"	"	"	"	"	"	"	"	
14	.09	.09	"	"	"	"	"	"	"	"	"	"	
15	.08	.08	"	"	"	"	"	"	"	"	"	"	
16	.08	.08	"	"	.01	.01	"	"	"	"	"	"	
17	.07	.07	"	"	Dry	Dry	"	"	"	"	"	"	
18	.04	.04	"	"	"	"	"	"	"	"	"	"	
19	IDry	Dry	"	"	"	"	"	"	"	"	"	"	
20	I "	"	"	"	"	"	"	"	"	"	"	"	
21	I "	"	"	"	"	"	"	"	"	"	"	"	
22	I "	"	"	"	"	"	"	"	"	"	"	"	
23	I "	"	"	"	"	"	"	"	"	"	"	"	
24	I "	"	"	"	"	"	"	"	"	"	"	"	
25	I "	"	"	"	"	"	"	"	"	"	"	"	
26	I "	"	"	"	"	"	"	"	"	"	"	"	
27	I "	"	"	"	"	"	"	"	"	"	"	"	
28	I "	"	"	"	"	"	"	"	"	"	"	"	
29	I "	"	"	"	"	"	"	"	"	"	"	"	
30	I"	Dry	"	"	"	"	"	"	"	"	"	"	
31	I-	-	"	"	-	-	"	"	"	"	-	-	
TOTAL.		1.85		.05		.01		0		0		0	38.91
aily Discharge in nd-feet		.06		0		0		0		0		0	
feet per square mile													
depth in inches													
in acre-feet		3.67		.10		.02		0		0		0	77.18
n Mean Daily arge in Second-feet		.16		.03		.01		Dry		Dry		Dry	
Mean Daily arge in Second-feet		Dry		Dry		Dry		Dry		Dry		Dry	

Quarter	Computed	Checked	Date
Fourth	MAR	MAR	Dec. 20, 1929
Third	MAR	MAR	
Second	MAR	MAR	
First	MAR	MAR	

Quarter	Disch. applied	Disch. checked	Date
Fourth	MAR	MAR	Sept. 26, 1929
Third	MAR	CEB	
Second	MAR	CEB	
First	MAR	CEB	

Quarter	G. H. Copied	G. H. checked	Date
Fourth	MAR	MAR	Sept. 12, 1929
Third	MAR	CEB	
Second	MAR	CEB	
First	MAR	CEB	

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Monthly discharge of Upper Sycamore Drain

at Upper Chevy Chase Drive, Glendale for the year ending Sept. 30, 1929

(Drainage area 2.67 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	Dry	Dry	Dry			0	
November	0.15	Dry	.02			1.39	
December	.17	.01	.06			3.69	
January	12.81	.05	.54			33.28	
February	1.50	.09	.17			9.64	
March	9.10	.07	.41			25.39	
April	.16	Dry	.06			3.67	
May	.03	Dry	0			.10	
June	.01	Dry	0			.02	
July	Dry	Dry	0			0	
August	Dry	Dry	0			0	
September	Dry	Dry	0			0	
The year						77.18	

NOTE:

SYCAMORE STORM DRAIN - LOWER STATION

Location:
Concrete stilling well and house located on the East side of Sycamore Storm Drain at Adam's Square, Lower Chevy Chase Drive in Glendale, California.

Drainage Area:
6.19 square miles.

Installed by:
Los Angeles County Flood Control District, Hydrographic Department on Dec.15,1927.

Records Available:
December 15,1927 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
An continuous Water Stage Register located in concrete shelter adjoining east wall of concrete drain. One staff gage installed in stilling well, another on east wall of drain near inlets to stilling well.

Discharge Measurements:
Made by wading at gage near weir notch at low flows. High flow measurements made with cable and pipe suspension for meters from planks across drain.

Channel and Control:
Concrete flood control channel.
Small notch serving as weir control during low flows and as a sand trap during high flows.

Extremes of Discharge:
Maximum 904 c.f.s. Nov.14,1938
Minimum: Dry at various times during the year.

Diversions:
No diversions above the gage.

Regulation:
None.

Accuracy:
Fair.

Cooperation:
Located and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch.

Lower Sycamore Drain
Adams Square, Glendale

Hydrograph of Storm
April 3-4, 1929

Discharge in Second-Feet

200
180
160
140
120
100
80
60
40
20

12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
3rd Noon Mid Noon Apr. 4

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Discharge measurements of Lower Sycamore Drain ~~River~~ ~~Creek~~

at ~~Near~~ Adams Square, Glendale., during the year ending September 30, 19 29.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	11-14	Bollinger&Bergman	9.0	4.22	2.03	.65	8.57		.6		5	0	1/6	650
2	11-14	do do	9.0	2.16	1.14	.27	5.30		do		5	.05	1/12	do
3	12-3	do do	9.0	4.76	6.08	.85	28.85		do		4	.09	1/6	do
4	12-3	do do	9.0	4.76	6.57	.84	31.23		do		4	.08	do	do
5	12-13	do & Hartman	9.0	2.45	4.94	.62	12.10		do		4	.10	1/2	do
6	1929 2-18	Bollinger&Buckley	9.0	7.10	9.21	.58	65.40		do		4	.24	1/6	do
7	4-3	Buckley & Lloyd	9.0	3.15	6.25	.68	19.70		do		2	.17	1/3	271 588
8	4-4	do do	9.0	5.67	8.19	.58	46.43		do		3	.24	1/2	do

F.C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Rating table for Lower Sycamore

Adams Square, Glendale, *from* Oct. 1, 19 28, *to* Sept. 30, 1929

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
.00	.00		.20	1.00		.40	3.74		.60	10.00		.80	23.72	
		.01			.11			.23			.46			1.29
.01	.01		.21	1.11		.41	3.97		.61	10.46		.81	25.01	
.02	.02		.22	1.22		.42	4.20		.62	10.92		.82	26.30	
														1.72
.03	.03		.23	1.33		.43	4.43		.63	11.38		.83	28.02	
.04	.04		.24	1.44		.44	4.66		.64	11.84		.84	29.74	
		.02						.26			.56			2.13
.05	.06	.04	.25	1.55		.45	4.92		.65	12.40		.85	31.87	
.06	.10		.26	1.66		.46	5.18		.66	12.96		.86	34.00	
		.05												3.00
.07	.15		.27	1.77		.47	5.44		.67	13.52		.87	37.00	
		.05												
.08	.20		.28	1.88		.48	5.70	.31	.68	14.08	.64	.88	40.00	3.85
.09	.25		.29	1.99		.49	6.01		.69	14.72		.89	43.85	
.10	.30		.30	2.10		.50	6.32		.70	15.36		.90	47.70	
		.06												4.15
.11	.36		.31	2.21		.51	6.63		.71	16.00		.91	51.85	
.12	.42		.32	2.32		.52	6.94		.72	16.64		.92	56.00	
					.17			.355			.68			4.6875
.13	.48		.33	2.49		.53	7.30		.73	17.32		.93	60.69	
.14	.54		.34	2.66		.54	7.65		.74	18.00		.94	65.38	
		.065									.76			
.15	.60		.35	2.83		.55	8.00		.75	18.76		.95	70.06	
.16	.67		.36	3.00		.56	8.36		.76	19.52		.96	74.75	
					.185			.41			.98			
.17	.73		.37	3.18		.57	8.77		.77	20.50		.97	79.44	
.18	.80		.38	3.37		.58	9.18		.78	21.48		.98	84.13	
		.10									1.12			
.19	.90		.39	3.55		.59	9.59		.79	22.60		.99	88.81	
												1.00	93.50	

The above table is not applicable for obstructed channel conditions. It is based on 11 discharge measurements made during March 1928 - Sept. 1929

and is not well defined between second-feet and second-feet.

5 estimates of flow were used in shaping the curve.

Computed by MAR

Checked by OEB 12/4/29

Date Sept. 18, 1929

F. C. Dist. Form 103—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Rating table for Lower Sycamore

Adams Square Glendale, *from* Oct. 1, 19 28, *to* Sept. 30, 19 29

Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Difference Sec.-ft.
1.00	93.50	4.6875	1.40	281	4.6875	1.80	469	4.6875	2.20	656	4.6875	2.60	843	4.6875
.02	103		.42	290		.82	478		.22	665		.62	853	
.04	112		.44	300		.84	487		.24	675		.64	862	
.06	122		.46	309		.86	497		.26	684		.66	872	
.08	131		.48	319		.88	506		.28	694		.68	881	
1.10	140		1.50	328		1.90	515		2.30	703		2.70	890	
.12	150		.52	337		.92	525		.32	712		.72	900	
.14	159		.54	347		.94	534		34	722		.74	909	
.16	169		.56	356		.96	544		.36	731		.76	918	
.18	178		.58	365		.98	553		.38	740		.78	928	
1.20	187		1.60	375		2.00	562		2.40	750		2.80	937	
.22	197		.62	384		.02	572		.42	759				
.24	206		.64	394		.04	581		.44	769				
.26	215		.66	403		.06	590		.46	778				
.28	225		.68	412		.08	600		.48	787				
1.30	234		1.70	422		2.10	609		2.50	797				
.32	244		.72	431		.12	619		.52	806				
.34	253		.74	440		.14	628		.54	815				
.36	262		.76	450		.16	637		.56	825				
.38	272		.78	459		.18	647		.58	834				

The above table is not applicable for obstructed channel conditions. It is based on extension xxxxx discharge xxxxxxxxxxxxxxxxxx of rating curve by straight line

and is not well defined between second-feet and second-feet.

Computed by MAR

Checked by CEB

Date Sept. 18, 1929

F. C. Dist.—Form 105 - 500 9-28

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Lower Sycamore Drain

At Adams Square, Glendale for the Year Ending September 30, 1929

Drainage Area 6.19 Square Miles. [Av. Continuous Water Stage Recorder Observer.]

Minimum stage Dry feet at Various times during year

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
1		Dry		Dry		Dry		Dry	0.32	2.32		Dry	1
2		"		"	.06	0.10		"	.27	1.77		"	2
3		"	.01	0.01	H	7.60		"	.12	.42		"	3
4		"	.01	0.01		Dry		"	.07	.15		"	4
5		"		Dry		"		"	.07	.15		"	5
6		"		"		"		"	.08	.20		"	6
7		"		"		"		"	.14	.54		"	7
8		"		"		"		"	.06	.10		"	8
9		"		"		"		"	.05	.06	0.14	.54	9
10		"		"		"		"	.05	.06	.32	2.32	0
11		"		"		"		"	.06	.10	I.05	.06	1
12		"	H	2.25	No Record			"	.05	.06	I.04	.04	2
13		"	.07	0.15	No Record			"	.03	.03	.02	.02	3
14		"	H	72.61	-	Dry		"	-	Dry		Dry	4
15		"		Dry		"		"	.05	.06		"	5
16		"		"		"	H	3.32	.08	.20	.10	.30	16
17		"		"		"	.07	0.15	.10	.30	.05	.06	7
18		"		"		"	.08	.20	H	11.60	.03	.03	18
19		"		"		"	H	2.18	.04	.04	.03	.03	19
20		"		"		"	H	4.40	I.04	.04	.04	.04	20
21		"		"		"	.17	.73	I.03	.03	.04	.04	21
22		"		"		"	.11	.36	I.03	.03	.16	.67	22
23		"		"		"	-	Dry	I.02	.02	.22	1.22	23
24		"		"		"		"	I.02	.02	.12	0.42	24
25		"		"		"		"	I.01	.01	.03	.03	25
26		"		"		"		"	I.01	.01		Dry	26
27		"		"		"		"	-	Dry		"	27
28		"		"		"		"	-	Dry		"	28
29		"		"		"		"	-	-		"	29
30		"	-	-		"		"	-	-		"	30
31		"		"		"		"	-	-		"	31
TOTAL,		0.00		75.03	Incomplete			11.34		18.32		5.82	
in Daily Discharge in second-feet		0.00		2.50		-		.37		.66		.19	
ond-feet per square mile													
-off, depth in inches													
-off in acre-feet		0.00		148.82	Incomplete			22.49		36.34		11.54	
imum Mean Daily ischarge in Second-feet		Dry		72.61		-		4.40		11.60		2.32	
mum Mean Daily ischarge in Second-feet		Dry		Dry		Dry		Dry		Dry		Dry	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

... to Continuous ~~xxx~~ a Day. Used rating table dated Sept. 18, 1929

MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
Dry	Dry	0.03	.03	Dry	Dry	Dry	Dry	Dry	Dry	1
"	"	.03	.03	"	"	"	"	"	"	2
"	"	.08	.20	"	"	"	"	"	"	3
"	"	.06	.10	"	"	"	"	"	"	4
"	"	.03	.03	"	"	"	"	"	"	5
"	"	.01	.01	"	"	"	"	"	"	6
"	"	.02	.02	"	"	"	"	"	"	7
"	"	.09	.25	"	"	"	"	"	"	8
"	"	.10	.30	"	"	"	"	"	"	9
"	"	.04	.04	"	"	"	"	"	"	10
"	"	.07	.15	"	"	"	"	"	"	11
"	"	.07	.15	"	"	"	"	"	"	12
I "	"	.04	.04	"	"	"	"	"	"	13
"	"	.07	.15	"	"	"	"	"	"	14
	"	.10	.30	"	"	"	"	"	"	15
	"	.15	.60	"	"	I "	"	"	"	16
"	"	.07	.15	"	"	I "	"	"	"	17
"	"	.03	.03	"	"	I "	"	"	"	18
"	"	.01	.01	"	"	I "	"	"	"	19
	"	Dry	Dry	"	"	I "	"	"	"	20
	"	"	"	"	"	I "	"	"	"	21
	"	"	"	"	"	I "	"	"	"	22
	"	"	"	"	"	I "	"	"	"	23
	"	"	"	"	"	I "	"	"	"	24
	"	"	"	"	"	I "	"	"	"	25
	"	"	"	"	"	Dry	"	"	"	26
	"	"	"	"	"	"	"	"	"	27
	"	"	"	"	"	"	"	"	"	28
	"	"	"	"	"	"	"	"	"	29
	"	"	"	"	"	"	"	"	"	30
	"	–	–	"	"	"	"	–	–	31
0.00			2.59		0.00		0.00		0.00	
0.00			.09		0.00		0.00		0.00	
0.00			5.1[illegible]							

Quarter	Computed	Checked	Date
Fourth	MAR	MAR	Dec. 30, 1929
Third	MAR	MAR	
Second	MAR	MAR	
First	MAR	MAR	

Quarter	Disch. applied	Disch. checked	Date
Fourth	MAR	MAR	Sept. 25, 1929
Third	MAR	CEB	
Second	MAR	CEB	
First	MAR	CEB	

Quarter	G. H. Copied	G. H. checked	Date
Fourth	MAR	MAR	Sept. 18, 1929
Third	MAR	CEB	
Second	MAR	CEB	
First	MAR	CEB	

XXXXX YEAR

127.52 Inc.

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Monthly discharge of Lower Sycamore Drain ~~River~~ ~~Creek~~

at ~~Mouth~~ Adams Square, Glendale for the year ending Sept. 30, 1929

(Drainage area 6.19 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	Dry	Dry	Dry			0.00	
November	72.61	Dry	2.50			148.82	
December	Inc	Inc	Inc			Inc	
January	4.40	Dry	.37			22.49	
February	11.60	Dry	.66			36.34	
March	2.32	Dry	.19			11.54	
April	8.28	Dry	.48			28.60	
May	Dry	Dry	Dry			0.00	
June	.60	Dry	.09			5.14	
July	Dry	Dry	Dry			0.00	
August	Dry	Dry	Dry			0.00	
September	Dry	Dry	Dry			0.00	
The ~~year~~ ~~record~~						252.93	

NOTE:

December record is incomplete.
No record Dec. 12, Dec. 13

F. C. Dist. Form 104 - 500 9-25

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 6

Discharge measurements of Los Angeles River

at ~~Rock~~ Whittsett St, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.		No.	Total	Hours	271
1	11-24	C.E.Bollinger	16	29.4	.86	2.70	25.3	.6		15	0	2/3	650
2	12-1	do	16.7	29.1	.93	2.60	27.0	do		14	0	3/4	do
3	1929 1-21	do	13.4	11.5	.44	1.22	5.1	do		12	0	1/4	do
4	1928 12-22	Hartman&Bollinger	18.2	36.3	1.41	3.02	51.2	do		9	0	1/2	do
5	12-29	do do	18.0	37.9	1.26	3.00	47.8	do		9	0	1/3	do
6	1929 1-3	do do	4.7	2.5	.64	.87	1.6	do		5	0	1/6	do
7	1-5	do do	6.3	3.6	1.06	1.06	3.8	do		7	0	1/4	do
8	1-12	do do	6.4	2.2	.77	.83	1.7	do		7	0	do	do
9	1-26	Hardgrove & Ayres	18	27.1	1.31	2.48	35.5	do		9	0	do	271 657 271
10	2-8	Bollinger & Skelton	16	30.7	1.12	2.43	34.5	do		10	0	do	650
11	2-15	do & Party	17	33.7	1.51	2.80	51.6	do		11	0	1/2	do
12	2-22	do	17.5	30.8	1.46	2.76	45.1	do		10	0	do	do
13	3-1	do do	13.9	11.3	1.08	1.56	12.2	do		14	0	1/4	do
14	3-8	do do	8.1	1.68	.78	.83	1.3	do		9	0	do	do
15	3-15	do do	8.5	1.87	.82	.84	1.5	do		9	0	do	do
16	3-22	do do	7.1	2.71	.69	.84	1.9	do		7	0	do	do
17	3-29	do do	7.1	3.13	.54	.87	1.7	do		7	0	do	do
18	4-18	do	6.9	2.14	.83	.83	1.8	do		8	0	do	do
19	4-25	do	9.1	1.88	.75	.82	1.4	do		6	0	do	do
20	5-3	do	7.0	2.53	.57	.82	1.4	do		8	0	do	do
21	5-10	do	8.0	1.96	.60	.81	1.2	do		7	0	do	do
22	5-17	do	6.6	3.45	.37	.85	1.2	do		9	0	do	do
23	5-24	do	6.6	3.18	.43	.91	1.4	do		8	0	do	do
24	5-31	do	7.5	2.77	.43	.87	1.2	do		8	0	do	do
25	6-7	do	9.2	3.31	.34	.89	1.1	do		8	0	do	do
26	6-14	do	5.5	1.49	.32	.76	.42	do		8	0	do	do
27	6-21	do	2.7	1.10	1.50	.98	1.61	do		5	0	do	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 6

Discharge measurements of Los Angeles River

at Whitsett St.
near

, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
28	6-28	C.E.Bollinger	2.8	.86	1.48	.98	1.27		.6		5	0001/4		650
29	7-5	do	1.8	.61	1.90	1.01	1.16		do		4	0	do	do
30	7-19	do	4.5	1.48	.97	1.16	1.40		do		7	0	do	do
31	7-26	do	1.9	.93	2.00	1.26	1.86		do		5	0	do	do
32	8-2	do	2.9	1.68	1.48	-	2.49		do		4	0	do	do

Stream Diverted

F. C. Dist.—Form 104—500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 57

Discharge measurements of Los Angeles River

at Dayton Ave., during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	1-16	C.E.Bollinger	7.9	8.95	2.42	1.23	21.7		.6		8	.05	1/4	650
2	1-21	do	4.2	1.91	1.25	.70	2.4		do		5	.02	1/6	do
3	1-26	do	4.8	1.50	1.09	.63	1.6		do		9	0	do	do
4	2-2	Hardgrove&Gewertz	14.5	9.04	1.57	1.09	14.2		do		8	0	1/4	do
5	2-8	do	6.8	4.30	1.48	.92	6.4		do		5	0	1/3	271 637
6	2-15	do	8.0	6.18	2.54	1.00	15.7		do		8	0	-	do
7	2-22	do & Ayres	9.5	11.4	3.92	1.36	44.8		do		8	0	1/4	do
8	-	Bollinger& Lloyd	10.5	2.46	1.52	1.01	3.75		do		11	0	1/2	271 650
9	3-8	Hardgrove & Ayres	8.0	1.50	1.21	.79	1.82		do		8	0	1	271 [illegible]7
10	3-29	Buckley&Bollinger	9.5	1.64	1.04	.92	1.70		do		8	0	do	do
11	4-4	Bergman & do	29.0	23.6	2.78	1.40	65.6		do		12	.05	1/2	271 650
12	4-12	C.E.Bollinger	7.8	1.63	.93	.51	1.51		do		8	0	1/4	do
13	4-18	do	7.8	1.32	.83	.45	1.10		do		8	.01	1/6	do
14	4-25	do	5.8	1.31	.99	.54	1.3		do		11	.01	do	do
15	5-3	do	8.3	1.23	.54	.57	.66		do		9	.01	do	do
16	5-10	do	7.9	1.74	1.00	.66	1.74		do		8	0	1/4	do
17	5-17	do	8.9	2.05	1.00	.60	2.10		do		10	.02	do	do
18	5-24	do	7.0	1.73	.80	.50	1.38		do		10	.01	do	do
19	5-31	do	7.0	1.63	.88	.46	1.44		do		8	.01	do	do
20	6-7	do	7.3	2.07	.67	.50	1.38		do		10	.01	do	do
21	6-14	do	7.4	1.52	.68	.53	1.03		do		9	0	do	do
22	6-21	do	4.3	1.31	.76	.49	1.00		do		8	.01	do	do
23	6-28	do	5.2	1.34	.70	.56	.94		do		8	.01	do	do
24	7-5	do	3.8	1.38	.76	.54	1.05		do		6	0	do	do
25	7-26	do	2.8	.89	.78	.44	.69		do		5	0	do	do
26	7-19	do	4.7	.88	.50	.45	.45		do		6	0	do	do
27	8-3	do	4.7	.84	.46	.39	.39		do		5	0	do	do

F. C. Dist. Form 104 500 9-25

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 58

Discharge measurements of Arroyo Seco ~~xxxxx~~ Creek

at ~~xxxx~~ Ave. 26 , during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	2-2	Hardgrove&Gewertz	16.5	3.47	2.05	-	7.1		.6		10	-	1/6	637
2	2-8	do	4.0	.50	1.24	-	.87		do		4	-	-	do

LITTLE TUJUNGA CREEK - STATE HIGHWAY

Location:
On Little Tujunga Creek at State Highway Bridge.

Drainage Area:
36.9 square miles.

Installed by:
Los Angeles County Flood Control Disrtict Dec.26.'28.

Records Available:
Dec.26,1928 to Sept.30,1929 at L.A.F.C.D.

Gage:
Staff gage at lower end of South face of third concrete pier from East end of bridge. Rational 7 day water stage recorder mounted in shelter house on corrugated iron stilling well at [illegible] lower end of the pier on which the gage is located.

Discharge Measurements:
High water measurements may be taken at the bridge. Low water measurements by wading near bridge.

Channel and Control:
Channel - Sand and silt.
[illegible]

[illegible]

Diversions:
None above gage.

Regulation:
None.

Accuracy:
Probably will be only fair due to scouring during high flows.

Cooperation:
Located,constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S.,Water Resources Branch.

PACOIMA CREEK - PARTHENIA AVE.

Location:
On highway bridge crossing Pacoima Wash at Parthenia Ave., approximately 4 miles south of San Fernando, Los Angeles County, California.

Drainage Area:
51.91 square miles.

Installed by:
Los Angeles County Flood Control District Dec.26,1928.

Records Available:
Dec.26,1928 to Sept.30,1929 at L.A.C.F.C.D.

Gage:
Rational 7 day water stage recorder installed in shelter house on corrugated iron stilling well attached to lower, downstream side of bridge pier. Vertical staff gage at stilling well.

Discharge Measurements:
High water measurements from downstream side of bridge. Low water measurements by wading near gage.

Channel and Control:
Channel - sand. Banks overgrown with weeds.
Control - none.

Extremes of Discharge:
No appreciable runoff 1928-1929.

Diversions:
None near gage.

Regulation:
Regulation, except for local runoff, by Los Angeles County Flood Control Dam in Pacoima Canyon.

Accuracy:
Will be fairly good.

Cooperation:
Located, constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S. G.S., Water Resources Branch.

BROWN CANYON - DEVONSHIRE AVE.

Location:
On culvert for Brown Creek at Devonshire Ave. near the town of Chatsworth, Los Angeles County, California.

Drainage Area:
14.3 square miles.

Installed by:
Los Angeles County Flood Control District Dec.11,1928.

Records Available:
Dec.11,1928-Sept.30,1929 at L.A.C.F.C.D.

Gage:
Staff gage on concrete wall at southwest corner of structure. Rational recorder installed Dec.11.1928.

Channel and Control:
Channel at both ends of culvert has a sandy bottom. There are three 120' sections in the culvert, concrete.

Extremes of Discharge:
No flow 1928 - 1929.

Regulation:
None.

Accuracy:
Will be good.

Cooperation:
Station located, constructed and operated by the Los Angeles County Flood Control District in cooperation with the U.S.G.S., Water Resources Branch. The culvert was constructed by the Engineering Department of the City of Los Angeles. Equipment has been furnished them by the Flood Control District for use during storms.

F. C. Dist. Form 102—500—9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 2

Monthly discharge of Brown Canyon ~~Xxxx~~ Creek

at ~~Xxxx~~ Devonshire Ave. for the year ending Sept. 30, 1929

(Drainage area 14.3 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November							
December							
January							
February	Installed Dec. 11, 1928						
March							
April	No Runoff						
May							
June	1928-1929						
July							
August							
September							
The year period							

NOTE:

BIG TUJUNGA-U.S.G.S.

Location:
Near center of Sec.32,T.3 N.,R.13 W.at a partly constructed and abandoned dam, 2 miles above mouth of canyon and 4 miles northeast of Sunland,Los Angeles County.

Drainage Area:
106 square miles.

Records Available:
October 28,1916 to Sept.30,1929 at U.S.G.S.

Gage:
Water-stage Recorder on right bank above dam.

Discharge Measurements:
Made from cable about 1000' below gage or by wading.

Channel and Control:
Bed consists of gravel and boulders. Control is concrete dam,which has notch in center about 20' long and 1 ' deep. Stage-discharge relation affected by deposits of sand and gravel above the dam.

Extremes of Discharge:
Maximum 1928-1929 99 c.s.[illegible],1929
Minimum 1928-1929 .10 c.f.s. [illegible] times during year.

Diversions:
Two or three ranches divert part of the low flow for irrigation above the station. There are two small diversions between the gage and mouth of canyon.

Regulation:
None.

Accuracy:
Fair.

Cooperation:
Constructed by U.S.G.S.Water Resources Branch. Operated by U.S.G.S. in cooperation with the Los Angeles County Flood Control District.

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 11

Discharge measurements of Big Tujunga U.S.G.S. ~~XXXXX~~ Creek

~~XXXX~~ near Sunland, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
1	2-1	Bollinger & Party	16.5	4.72	1.18	.86	5.58		.6		16	.01	1/2	650
2	2-8	Do & Skelton	16.9	5.7	1.53	.91	8.70		do		15	0	1/3	do
3	2-15	do & Robinson	10	3.6	1.89	.89	6.80		do		9	0	do	do
4	2-22	do	12.	4.88	1.96	.92	9.58		do		11	0	1/2	do
5	3-1	do & Party	11.6	4.56	1.58	.88	7.20		do		10	0	do	do
6	3-8	do do	11.0	4.29	1.41	.88	6.04		do		10	0	do	do
7	3-15	do do	18.7	9.24	1.89	1.08	17.3		do		18	0	do	do
8	3-22	do do	18.6	6.87	1.60	.96	11.0		do		19	0	do	do
9	3-29	do do	14.8	5.40	1.66	.92	8.93		do		14	0	do	do
10	4-5	do do	32.2	27.3	3.39	1.69	92.8		do		10	.02	do	do
11	4-6	do do	28.0	17.1	2.91	1.51	49.9		do		13	0	do	do
12	4-12	do do	16.5	8.66	2.16	1.08	18.7		do		15	0	do	do
13	5-3	do	16.0	4.49	1.29	.83	5.78		do		6	0	1/4	do
14	5-10	do	10.5	3.58	1.35	.79	4.90		do		11	0	do	do
15	5-17	do	11.6	3.75	1.20	.78	4.51		do		12	0	1/2	do
16	5-24	do	10.5	3.46	.91	.74	3.16		do		11	0	1/4	do
17	5-31	do	5.7	2.63	.94	.66	2.48		do		11	0	1/2	do
18	6-7	do	10.6	2.65	.79	.66	2.08		do		11	0	do	do
19	6-14	do	10.2	2.00	.64	.59	1.27		do		12	0	do	do
20	6-21	do	5.2	1.26	.72	.54	.90		do		8	0	do	do
21	6-28	do	2.2	.44	.87	.46	.38		do		5	0	do	do
22	7-5	do	2.3	.36	.78	.38	.28		do		5	0	1/4	do
23	7-19	do	2.1	.30	.73	.41	.22		do		4	0	1/6	do
24	8-6	do	2.4	.32	.59	.86	.19		do		3	0	1/6	do
25	8-20	do	1.9	.25	.68	.50	.17		do		6	0	do	do

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U11

Discharge measurements of Big Tujunga U. S. G. S. Station Creek

near Sunland, during the year ending September 30, 1929

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1928		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
U1	10/11	H. J. Tompkins	.7	.14	.71	.40	.10		.6		2	0	1/12	885
U2	10/19	do	.7	.14	.57	.40	.08		.6		2	0	1/12	885
U3	10/27	do	.6	.12	.66	.40	.08		do		2	0	1/12	do
U4	11/10	do	.8	.16	.69	.40	.11		do		2	0	do	do
U5	11/13	do	.7	.14	.78	.41	.11		do		2	0	do	do
U6	11/15	do	.32	.85	1.18	.55	1.0		do		3	0	do	do
U7	11/22	do	.9	.28	.86	.40	.24		do		2	0	do	do
U8	12/1	do	.30	.95	1.37	.60	1.30		do		3	0	do	do
U9	12/3	do	12.0	5.6	1.90	.92	9.6		do		6	0	do	do
U10	12/11	do	12.0	5.6	1.53	.90	8.6		do		7	0	1/4	do
U11	12/13	do	19.0	11.0	3.00	1.20	33.0		do		10	.04	do	do
	1929													
U12	1/8	do	4.4	1.9	1.47	.74	2.8		do		5	0	1/6	do
U13	1/15	do	4.2	2.4	1.58	.76	3.8		do		5	0	1/12	do
U14	1/16	do	12.0	5.2	1.73	.90	9.0		do		7	0	1/4	do
U15	1/21	do	19.0	9.6	2.19	1.10	21.0		do		10	0	do	do
U16	1/25	do	10.0	4.6	2.09	.88	9.6		do		5	.02	1/6	do
U17	2/1	do	10.0	4.4	2.07	.90	9.1		do		8	0	0	do
U18	2/2	do	19	8.2	1.95	1.04	16.0		do		10	0	1/4	do
U19	2/6	do	10	4.9	2.25	.94	11.0		do		9	0	do	do
U20	2/12	do	10	4.4	1.73	.88	7.6		do		6	0	do	do
U21	2/18	do	15	8.4	2.74	1.10	23.0		do		8	0	do	do
U22	2/20	do	12	5.4	1.85	.93	10.0		do		12	0	do	do
U23	3/2	do	10	4.7	1.36	.90	6.4		do		10	0	do	do
U24	3/8	do	10	4.1	1.32	.90	5.4		do		10	0	do	do
U25	3/10	do	35	33	5.27	1.80	1.74		do		7	0	1/3	do
	3/12	do	18	12	2.83	1.18	34.0		do		9	0	do	do
	3/18	do	12	6.1	2.30	1.00	14.0		do		12	0	1/4	do

~~Daily gage height, in feet,~~
Daily discharge in second-feet, of [illegible] *for the year ending September 30, 1929.*

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.1	1.5	[illegible]	8.5	7.	12.	7.	[illegible].2	0.4	0.2	0.2
2	.2	.1	1.3	[illegible].4	1[illegible].	6.5	17.	[illegible].	1.7	.4	.2	.2
3	.2	.1	9.5	5.4	14.	6.5	1[illegible].	6.	1.8	.4	.2	.2
4	.2	.1	7.	5.2	12.	6.	97.	6.	1.[illegible]	.4	.2	.2
5	.2	.1	4.8	5.2	11.	[illegible].	99.	6.	1.7	.4	.2	.2
6	.2	.1	[illegible].9	5.2	11.	[illegible].	5[illegible].	[illegible].	2.1	.3	.2	.2
7	.2	.1	[illegible].5	[illegible].5	11.	[illegible].	4[illegible].	[illegible].	2.2	.4	.2	.2
8	.1	.1	[illegible].4	[illegible].5	9.5	[illegible].	30.	[illegible].	2.2	.3	.2	.2
9	.1	.1	[illegible]	5.2	[illegible]	[illegible].	32.	[illegible]	2.3	.3	.2	.2
10	.1	.1	4.6	[illegible].0	[illegible].	9[illegible].	[illegible]7.	[illegible].5	[illegible].1	.3	.2	.2
11	.1	.1	9.5	[illegible].0	8.	[illegible]4.	30.	4.8	[illegible].0	.3	.1	.2
12	.2	.1	7.	[illegible].0	8.	[illegible].	30.	4.1	1.7	.3	.1	.2
13	.2	.2	5[illegible].	[illegible].4	8.	27.	30.	[illegible]	1.4	.2	.1	.2
14	.2	2.2	1[illegible].	[illegible].5	8.	20.	17.	[illegible].9	1.[illegible]	.2	.1	.2
15	.2	1.4	10.	[illegible].9	7.5	20.	1[illegible].	4.1	1.5	.2	.1	.2
16	.2	.4	9.5	6.	7.5	17.	1[illegible].	[illegible].9	[illegible].0	.2	.1	.2
17	.1	.3	8.	[illegible].	7.5	1[illegible].	1[illegible].	4.1	[illegible].0	.2	.1	.2
18	.1	.2	7.	[illegible].	1[illegible].	1[illegible].	1[illegible].	[illegible].9	1.5	.2	.1	.2
19	.1	.1	[illegible].	7.	12.	1[illegible].	1[illegible].	[illegible].4	1.2	.2	.1	.2
20	.2	.1	[illegible].5	21.	10.	12.	1[illegible].	3.5	.8	.2	.1	.2
21	.1	.1	5.	19.	10.	11.	1[illegible].	[illegible].5	.8	.2	.1	.2
22	.1	.1	4.8	15.	9.	1[illegible].	1[illegible].	3.3	.7	.2	.1	.1
23	.1	.1	4.5	11.	9.	10.	1[illegible].	3.4	.5	.2	.1	.1
24	.1	.2	4.1	9.7	9.	10.	1[illegible].	3.2	.6	.2	.2	.1
25	.1	.4	4.1	11.	8.	11.	11.	[illegible].1	.6	.2	.2	.1
26	.1	.5	4.1	11.	7.5	10.	11.	3.2	.6	.2	.2	.1
27	.1	.8	4.1	9.5	7.[illegible]	10.	10.	3.2	.5	.2	.2	.1
28	.1	1.0	[illegible].9	9.5	7.	9.5	9.5	3.	.5	.2	.2	.1
29	.1	1.2	[illegible]	7.5	.	9.	9.	[illegible]	.4	.2	.3	.1
30	.1	1.3	[illegible].9	7.		10.	7.5	2.5	.4	.2	.2	.1
31	.1		[illegible].9	7.		1[illegible].		2.3		.2	.2	
	4.4*	11.6*	200.3*	[illegible]09.1*	[illegible]70.0*	[illegible]01.3*	[illegible].0*	133.1*	40.3*	8.1*	4.9*	5.1*
Mean	.14	.39	6.46	6.75	9.64	16.2	23.2	4.29	1.34	.26	.16	.17
Acre-Feet	8.6	23.2	397	415	535	996	1380	264	79.7	16	9.8	10.1

Year or Period — Mean 5.72 — Acre-Feet 4130

Dalton or Burroughs--August, 1926.

PACOIMA CREEK NEAR SAN FERNANDO

BELOW FLOOD CONTROL DAM

Location:
In SE.¼ NE.¼ sec.24,T 3 N.;R 15W., about 600' above mouth of canyon,and about 4 miles Northeast of San Fernando,Los Angeles County,California.

Drainage Area:
27.9 square miles.

Elevation:
about 1500' above sea level.

Records Available:
March 31,1916 to Sept.30,1929 at U.S.G.S. (not complete)

Gage:
Stevens 7 day water stage recorder and An Continuous Water Stage Recorder,with concrete well and house,on left bank,about 600' above mouth of canyon,Installed Dec.2, 1916. Gage in stilling well and on outside of concrete house.

Discharge Measurements:
Made from cable 20 feet above gage or by wading at gage.

Channel and Control:
Sand,gravel and boulders.Left bank is a steep rock cliff; right bank sloping and covered with brush and trees. Control is a low concrete-and-boulder dam built across channel about 7 feet below gage well. During the present water year the control was completely changed by a rock slide below the gaging well. A weir has been installed just below the Flood Control Dam above the Gaging station.

Extremes of Discharge:

Maximum for 1928-1929	28 c.f.s. March 25,1929
Minimum for 1928-1929	Dry at various times during year.

Diversions:
None above the station.

Control:
Flow is regulated by Flood Control Dam.

Accuracy:
Fair.

Cooperation:
Located and constructed by U.S.G.S.Water Resources Branch. Rebuilt and operated by the Los Angeles County Flood Control District in cooperation with the U.S.G.S.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

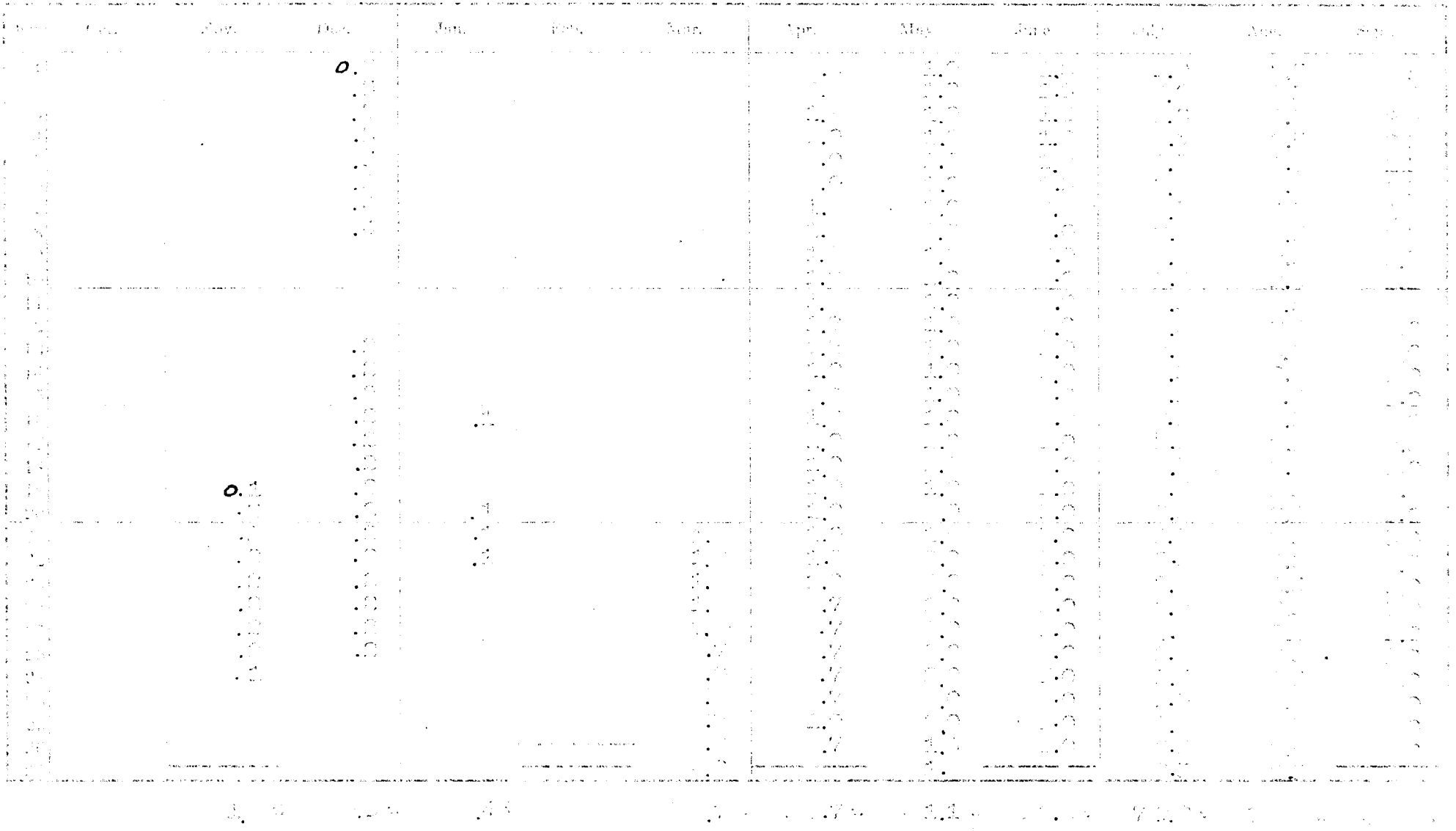
File No. U 13

Discharge measurements of Pacoima Creek - U. S. G. S. Creek

at below dam
near

, during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	271
	1928													
1	11-30	C. E. Bollinger	1.3	.10	.20	1.46	.02	-	.6		1	-	1/12	650
2	12-2	W. S. Hardgrove	4.0	.99	1.62	-	1.60		.6		7	-	1/4	271 637
	1929													
U 1	3/25	H. J. Tompkins	16	10	2.80	2.38	28.0		.6		8		5/12	885
U 2	6/10	do	3.6	1.8	1.50	2.18	2.7		.6		3		1/4	885
U 3	6/17	do	4	1.6	1.31	2.16	2.1		.6		4		1/12	885
U4	6/21	do	4	1.7	1.47	2.18	2.5		.6		4		1/10	885
U 5	7/1	do	3.5	1.6	1.56	2.18	2.5		.6		4		1/12	885
U 6	7/8	do	3.6	1.4	1.28	2.16	1.8		.6		4		1/12	885
U 7	7/18	do	3.4	1.5	1.33	2.16	2.0		.6		3		1/12	885
U 8	7/22	do	3.4	1.4	1.00	2.14	1.4		.6		3		1/12	885
U 9	7/29	do	3.4	1.6	1.38	2.18	2.2		.6		3		1/12	885
U10	8/5	do	3.4	1.7	1.29	2.17	2.2		.6		3		1/12	885
U11	8/16	do	3.0	1.6	1.50	2.18	2.4		.6		3		1/12	885
U12	8/19	do	3/0	1.8	1.57	2.18	2.2		.6		3		1/6	885
U13	8/26	do	2.9	1.4	1.57	2.18	2.2		.6		3		1/6	885
U14	9/6	do	2.8	Twochannels		2.18	2.4		.6		3		1/6	885
U15	9/14	do	2.8	1.4	1.36	2.10	2.9		.6		3		1/12	885
U16	9/10	do	2.9	Twochannels		2.20	2.7		.6		3		1/12	885
U17	9/30	do	2.9	1.74	1.61	2.18	2.8		.6		3		1/6	885



	.05	.17	.01	.99	1.29	1.33	2.75	2.55	2.50	2.82
	3.0	10.4	.6	60.9	76.8	81.8	164	157	154	168

1.21

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. -

Discharge measurements of Various streams and tributaries River Creek

at near throughout Los Angeles County , during the year ending September 30, 19 29

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Per cent diff.)	Method Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
		Compton Creek	108 th. Ave & Avalon Blvd.										
	6-8	L.W.Jordan	4.8	1.07	.86		.92		.6	5		1/6	271 636
		Compton Creek	Storm Drain Outlet on South Avalon Blvd.										
	8-16	L.W.Jordan	4,0	.85	.74		.63		.6	4		1/6	do
		Eaton Wash	at Pomona Blvd.										
	11-14	H.D.Harting	6.0	2.70	3.52		9.50		do	4		do	271 655
		Eaton Wash	Pasadena Diversion										
	5-17	R.P.Dalton	.75	.15	.47		.07		do	2		do	271 647
		Nigger Slough	7.1	8.65	1.08		9.32		do	8		1/4	271 636
	6-1	L.W.Jordan	100' below Alameda St.										
		Nigger Slough	100' above Anaheim St.										
	6-1	L.W.Jordan	17	11.8	1.89		22.3		do	16		1/3	do
		Little Santa Anita	100' above Dam										
	3-12	R.P.Dalton	.80	.16	.50		.088		do	3		1/6	do
		Little Santa Anita	100' above Dam										
	4-4	R.P.Dalton	7.5	2.43	4.54		11.02		do	8		do	do
		Sawpit Creek	100' below Dam										
	6-21	R.P.Dalton	1.0	.35	1.40		.49		do	1		do	do
		Rubio Wash	Rosemead Ave.										
	12-3	Harting & Laird	39	17.0	4.47		76.0		do	14		1/2	271 655
		Big Tujunga	Lankershim Blvd.										
	12-1	C.E.Bollinger	1.7	.47	.94		.44		do	4		1/6	271 650
		West Fork San Gabriel	1 mile above Narrows										
	3-21	Patterson&Lindsey	14.5	16.1	1.10		13.4		do	8		1/4	271 640
		West Fork Bear Creek, San Gabriel Tributary											
	5-2	Patterson&Lindsey	3.5	1.7	1.24		2.1		do	4		1/6	do
		Soldier Creek	25' above junction with Little Coldbrook										
	10-12	R.P.Dalton	4.5	1.37	1.18		1.61		do	7		do	do

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries River Creek

at near throughout Los Angeles County, during the year ending September 30, 19

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
		Fish Fork, San Gabriel			Above Mouth									
	1-10	Patterson & Lindsey	6.0	2.6	.85		2.2		.6		5		1/6	262 556
		East Fork, San Gabriel			Above Fish Fork									
	1-10	Patterson & Lindsey	10.4	6.8	.79		5.4		do		6		do	do
		Iron Fork, San Gabriel			Above Mouth									
	1-10	Patterson & Lindsey	6.1	2.9	.90		2.6		do		6		do	do
		Polecat Gulch			At Mouth, County Road									
	12-13	G. Patterson	Container				.54							
		Soldier Creek			Mouth of Little Coldbrook									
	2-22	Patterson & Dalton	4.0	1.3	1.00		1.3		do		4		do	do
		Little Coldbrook			25' Above junction with Soldier Creek									
1928	10-12	R. P. Dalton	2.0	.39	.88		.34		do		4		1/12	271 647
		Little Coldbrook			Mouth of Soldier Creek									
1929	2-22	Patterson & Dalton	2.3	.6	.63		.40		do		5		do	271 640
		Brown's Gulch			At Mouth, County Road									
1928	12-13	Patterson & Scott	4.9	2.3	.48		1.10		do		9		do	do
		Brown's Gulch			At Mouth, County Road									
	12-4	Patterson & Scott	4.9	1.75	.32	.44	.56		do		9		do	do
		Soldier Creek			At Coldbrook									
	10-3	R. P. Dalton	4.0	1.13	.90		1.02		do		5		do	271 647
		Little Coldbrook Creek			At Soldier Creek									
	10-3	R. P. Dalton	1.7	.50	.50		.25		do		3		do	do

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at Throughout Los Angeles County , during the year ending September 30, 19 29
near

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Per cent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
		San Gabriel River	From Edison Intake to Foothill Blvd.											
	2-5	Patterson &Lindsey	Edison Intake				11.7							
			1 mile below Intake				8.41							
			Bryans Mining Camp				8.89							
			Below County Bridge				9.56							
			Below Eslip Canyon				10.6							
			Pasadena Dam Site				16.4							
			Hoag's Ranch				17.9							
			Below Mouth of Can.				10.1							
			Foothill Blvd.				0							
	3-11	Rio Hondo River	Power Line Crossing to Mission Bridge											
		Brewster&Bonebrake	Power Line Crossing				119							
			Northwest Line				117							
			Lower Azusa Road				45.2							
			Valley Blvd.				33.9							
			Garvey Ave.				54.8							
			Mission Bridge				83.9							
	3-12	Rio Hondo River	Northwest Line to Stewart & Gray Road											
		Brewster &Bonebrake	Northwest Line				12.4							
		do	3/4 mile below N.W.L.				0							
		L.W.Jordan	Mission Bridge				33.0							
		do	Beverly Blvd.				54.2							
		do	U.P.R.R.Bridge				33.1							
		do	Santa Fe Bridge				.54							
		do	Stewart & Gray Road				.73							
	3-13	Rio Hondo River	Mission Bridge to Stewart & Gray Road											
		L.W.Jordan	Mission Bridge				28.9							
			Beverly Blvd.				52.0							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at Throughout Los Angeles County near . during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.ft.	Ft. per sec.	Feet	Sec.ft.	Per cent diff.			No.	Total	Hours	
	Rio	Hondo River (Continued)												
	3-13	L.W.Jordan	U.P.R.R.Bridge				31.1							
			Santa Fe R.R.Bridge				0							
			Stewart & Gray Road				.5		Est.					
	3-11	San Gabriel River.	700' above USGS Station to Whittier Blvd. Bridge											
		Brewster&Bonebrake	700'above USGS				291							
		Roger's Creek	at San Gabriel				7.9							
		Edison Tail Race	at San Gabriel				52.5							
		Fish Creek	at San Gabriel				10.1							
			Foothill Blvd. Bridge				296							
			Power Line Crossing				79.4							
			Highway Bridge.El Monte					31.8						
			Valley Blvd.				13.3							
			East from Mission Bridge					23.9						
			Whittier Blvd. Bridge				44.3							
	3-12	San Gabriel River	USGS Station to ½ mile above Valley Blvd.											
		Brewster&Bonebrake	USGS Station				169							
		Roger's Creek	at San Gabriel				5.59							
			Foothill Blvd.				123							
			Northwest Line				38.3							
			El Monte Blvd. Bridge				4.94							
			½ mile above Valley Blvd.					Dry						
	3-11	San Gabriel River	Whittier Blvd to Center Blvd.											
		L.W.Jordan	Whittier Blvd.				72.8							
			570' above Santa Fe				X14.3							
			750'below Telegraph Rd				4.55							
			Easy St.Downey				2.94							
			Norwalk-Downey Road				.87							
			La Mirada Blvd.				.20		Est.					
			Center Blvd.				0							

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at Throughout Los Angeles County, during the year ending September 30, 19 29
near

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	Rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
														Blvd
	East	San Gabriel River	500' above P.E. Bridge (El Monte-Baldwin Park to Whittier											
4-5		Dalton & Cornick	500' above P.E. Bridge				84.9							
			Valley Blvd.				47.5							
			600' below T&W Road				28.5							
			300' above Cate Ditch				42.1							
		Cate Ditch	At Intake				4.46							
			Below Cate Spillway				42.5							
		San Jose Creek	At Mouth				14.3							
			Just above San Jose				47.2							
		Standefer Ditch	Below Headgate				6.44							
			200' below Standefer				64.9							
			200' above Whittier Blvd.				59.6							
	Rio Hondo River		Northwest Line to ½ mile below P.E.R.R.Bridge											
4-6		Harting & Laird	Northwest Line				67.4							
			Lower Azusa Road				7.39							
			S.P.R.R.Bridge				7.26							
			P.E.R.R.Bridge				2.55							
			¼ Mile below P.E.Br.				3.67							
	Eaton Wash		U.S.G.S.Station to Huntington Drive Bridge											
4-5		Marchand and Party	U.S.G.S.Station				25.6							
			½ mile below U.S.G.S.				25.0							
			1 " " "				23.9							
			150' above Eaton CO.Rd				19.9							
			North Ave. Bridge				19.3							
			Villa Road				18.6							
			Foothill Blvd.				18.1							
			Blanche St.Bridge				13.8							
			Huntington Drive				11.5							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at Throughout Los Angeles County , during the year ending September 30, 19 29
near

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
		San Gabriel River	Foothill Blvd to Whittier Bridge											
	4-6	Brewster &Pollard	Foothill Blvd.				290							
			North-West Line				76.6							
			El Monte Blvd.				32.4							
			Valley Blvd.				11.7							
			D.W.R.Station				6.29							
			Durfee Road Crossing				8.60							
			East from Mission Br				3.87							
			Cate Canal.				20.5							
			Whittier Bridge				39.2							
	4-5	Rio Hondo River	Northwset Line to Stewart & Gray Road											
		Brewster & Harting	Northwset Line				187							
			Lower Azusa Road				99.8							
			Valley Blvd.				77.8							
			Mission Bridge				131							
			Slough-San Gabriel Blvd.				26.0							
			Beverly Blvd				149							
			U.P.R.R.Bridge				126							
			Telegraph Road				50.3							
			Hunts Crossing Rd.				34.4							
			Stewart & Gray Rd.				38.8							
	4-5	San Gabriel River	Foothill Blvd to P.E.R.R. Bridge Near Rivera											
		Brewster& Cornick	Foothill Blvd.				362							
		do &Harting	Northwest Line				112							
		L.W.Jordan	Whittier Blvd.				58.9							
			Dunlop Crossing				36.0							
			Santa Fe Bridge				8.83							
			P.E.R.R.Bridge				0							

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements

Throughout Los Angeles County, during the year ending September 30, 1929

No.	Date	Made by		Width	Area of section	Mean velocity	Gage height	Discharge	Method rating	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
				Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.					
	3-12	San Gabriel River	from Whittier Blvd. to Santa Fe Bridge, Rivera											
		L.W.Jordan	Whittier Blvd.					28.7						
			at Banta Waste					18.5						
			570' above Santa Fe Bridge					.13						
			at Santa Fe Bridge					0						
	3-13	San Gabriel River	from Foothill Blvd. to Santa Fe Bridge											
		Jordan&Hardgrove	Foothill Blvd.					69.1						
		Fish Canyon	at San Gabriel					4.22						
		Roger's Creek	at San Gabriel					2.91						
		L.W.Jordan	Whittier Blvd.					27.25						
			Dunlop's Crossing					6.94						
			500' above Santa Fe Bridge					.06						
			at Santa Fe Bridge					0						
	4-9&10	Pacoima Creek from upper end of reservoir to 1st.canyon below Rattlesnake												
		Bollinger&Waddicor	Upper end of Reservoir					12.4						
			at Maple Canyon					11.9						
			at Lake's Canyon					11.9						
			at Maple Canyon					11.9						
			at Sunsford-2nd.cross					11.3						
			at Dillon's Ranch					10.5						
			at 1st.crossing above Dillon's					10.2						
			spotted on map					10.0						
			½ mile above Dorothy Canyon					9.6						
			1st.canyon below Rattlesnake					8.3						
		Tributaries measured as follows: -----												
		Maple Canyon .03 Est.	Newhall Canyon .01 Est.	Ant Canyon .02 Est.										
		Bee Canyon .03 Est.	Dorothy Canyon .02 Est.	Rattlesnake .09 Est.										
		First canyon below Rattlesnake .15 Est.												

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at throughout Los Angeles County , during the year ending September 30, 19 29
near

No.	Date	Made by		Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1929			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.		No.	Total	Hours	
4-6		Big Tujunga Creek	U.S.G.S.Station to San Fernando Road											
		Bollinger&Hartman	U.S.G.S.Station					49.9						
			Opposite last vineyard					44.4						
			at State Highway					39.3						
			at Mulholland Ave					28.9						
			at San Fernando Road					1.0	Est.					
1929 3-11		Big Tujunga Creek	USGS Station to 800' below San Fernando Road											
		Bollinger & Beall	USGS Station					56.6						
			Opposite last vineyard					54.7						
			at State Highway					42.5						
			at Mulholland Ave					19.2						
			800' below San Fernando Road					6.29						
4-26		Big Tujunga Creek.	Colby trail Crossing to .9 mile above San Fernando											
		Rupert & Kemman	Coldwater Est.					.50	Fern Creek Est.	.40				
			at trail-firstwater					3.14						
			½ distance to Mill Creek					3.32						
			30' above Mill Creek					2.19						
			just below Mill Creek					4.81						
			above Lucas Creek					3.74						
		Lucas Creek	above junction Tujunga					.35						
			½ distance to Hall Ck.					4.82	Hall Creek Est.	.20				
		Fox Creek	above junction Tujunga					1.21						
			at junction Fox Creek					5.57						
			at Hansen Dam Site					6.16						
		C.E.Bollinger	at Hansen's Ranch					6.38						

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at near Throughout Los Angeles County , during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.		No.	Total	Hours	
	5-9	West Fork San Gabriel River (Continued from Bear Creek)											
		R.P.Dalton	Above junction Bear Ck.				8.92						
			1/3 mile above North Fork				16.45						
			Above junction North Fork				18.42						
		North Fork San Gabriel at junction with West Fork							4.23				
		Bollinger & Jordan 700' above Forks					24.5						
		350' above Forks					22.0						
		San Gabriel River below Forks					(East Fork 225' above Junct.		54.8				
		3850' below junction					77.2						
		at mile post 8⅝					84.6						
		Pole Cat Gulch at San Gabriel					.02	Est.					
		Sand Box					.63						
		Brown Gulch 40' above Mouth					.15	Est.					
		Berry Gulch at Mouth					.25	Est					
		Gulch at Mouth					.05	Est					
		¼ mile below milepost # 7					3.42						
		Sharp's Gulch at Mouth					.25	Est					
		Pine Canyon at Mouth					/50	Est					
		Opposite Camp					4.9						
		400' above Tunnel					5.33						
		USGS Station					1.35						
		Duarte Spreading at Edison Plant					13.8						
		Covina Ditch at " "					42.7						
		Weir at " "					16.3						

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at near Throughout Los Angeles County . during the year ending September 30, 19 29

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	Rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	5-9	Little Coldbrook	50' above Soldier Creek				.57							
		Soldier Creek	10' above Little Coldbrook				1.63							
		North Fork S.G.	.5 mile below Coldbrook Camp				2.47							
		do	1½ miles below Coldbrook Camp				3.49							
		Bichota Creek	at Mouth				.71							
		North Fork San G.	150' below Bichota Creek				4.60							
		do	.8 mile below Bichota Creek				3.67							
		do	At Narrows				5.19							
		do	At Mouth				4.88							
		Wset Fork San Gabriel												
			50' above North Fork				18.35							
			1 mile below Ranger Station				17.41							
			50' above 1st/ channel East Fork				17.41							
		San Gabriel River	50' below Forks				70.04							
	5-9	East Fork San Gabriel River from Fish Fork to West Fork												
		Patterson&Lindsey	above Fish Fork				10.6							
		Fish Fork	1/8 mile above Mouth				15.7							
		Iron Fork	at Mouth				13.54							
			below Iron Fork 100'				40.7							
			1 mile above Narrows				49.0							
			at Mouth of Narrows				53.2							
		Devil's Canyon	at East Fork				6.51							
			Below Devil's Canyon				48.7							
		Allisson Gulch	at Mouth				2.53							
			below Allisson's Gulch				51.5							
		Laurel Canyon	at Mouth				1.0	Est.						
		Rattlesnake Canyon	at Mouth				2.45							

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at Throughout Los Angeles County , during the year ending September 30, 1929
near

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	5-9	East Fork San Gabriel (Continued)												
			at Bartollo Ranch				47.1							
			Pasadena Rec.House				49.9							
			Dam Crest Elev.				66.3							
			below William's Camp				64.0							
			below Follow's Camp				65.3							
			above Damsite				63.1							
		East Fork S.G.	at Forks				64.0							
	5-9	Cattle Canyon												
		Cow Canyon	at Junction with Cattle					.30 Est.						
			400'above junction with Cow Canyon					2.6						
		Coldwater	1008above junction Cattle Canyon					5.4						
			50'above junction Coldwater					2.7						
			below Coldwater Junction					8.7						
	5-21	East Fork San Gabriel from Cattle Canyon to Edison Intake												
			Pasadena Recorder House					39.0						
		Cattle Canyon	above mouth					9.07						
			below Cattle Canyon					44.0						
			Dam Crest elevation					48.2						
			500' below preceding					49.1						
			1000'below preceding					45.6						
			1000'below preceding					47.0						
			William's Camp,above					44.05						
			Williams Camp,below					45.2						
			below Cape Horn Canyon					44.0						
			Follow's Camp,above Graveyard					41.5						
			Above Graveyard Canyon					41.9						

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements River Creek

at near throughout Los Angeles County , during the year ending September 30, 19 29

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.	No.	Total	Hours	
5-21		East Fork San Gabriel River (Continued)										
		Below Graveyard Canyon					42.6					
		Below Suzanna Canyon					48.0					
		Above Cliff Dwellers					48.5					
		Below Cliff Dwellers					44.6					
		300' above forks					44.5					
		West Fork San Gabriel, above Forks					16.0					
		San Gabriel, 50' below Forks					61.9					
		San Gabriel 1 mile below Forks					59.0					
		San Gabriel 1¼ mile below Forks					62.6					
		San Gabriel Edison Intake					62.0					
5-21		Bear Creek Flood Control Gage to West Fork at Forks										
		Flood Control Gage					5.33					
		¼ mile below Gage					4.79					
		½ mile below Gage					5.94					
		3/4 mile below Gage					5.16					
		150' above Mouth					5.35					
		West Fork San Gabriel 150' above mouth of Bear					5.92					
		North Fork San Gabriel, 200' above Highway Bridge					4.58					
		New Gage Site					4.29					
		¼ mile above Narrows					4.35					
		50' above Narrows					4.55					
		at Narrows					4.00					
		¼ mile Below Narrows					3.54					
		200' above Mouth					3.87					
		West Fork San Gabriel, above North Fork					12.7					
		Camp Rincon					17.1					

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements **Cr**

at near throughout Los Angeles County **during the year ending September 30, 1929**

No.	Date	Made by		Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating Method Coef. (Per cent diff.)	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	5-21	West Fork San Gabriel River (Continued)											
		Bollinger&Jordan	at Forks					17.0					
	5-21	West Fork San Gabriel,	Bed Rock No 1 to Forks										
			Bed Rock No.1					5.07					
			Bed Rock No.2					4.33					
			100' above Gulch #1					5.08					
			# 4					4.82					
			50' below Gage					4.26					
		Gulch From South	at Mouth					.17	Est.				
			# 7					4.56					
			# 8					5.40					
			50' above Gulch #10					4.93					
		Gulch from North	at Mouth					.10	Est.				
			# 11					5.19					
			above Gulch # 13					4.77					
		Gulch from South	at Mouth					.03	Est.				
			# 14					4.53					
		Gulch from South	at Mouth					.10	Est.				
			# 16					4.57					
			# 17					4.69					
		Gulch from South	at Mouth					.04	Est.				
			# 19					5.05					
		Gulch from North	at Mouth					.08	Est.				
			# 21					5.74					
		Gulch from North	at Mouth					.04	Est.				
			# 23					5.65					
			# 24					5.76					

F. C. Dist. Form 104 500 9-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Discharge measurements of Percolation Measurements

~~XXX~~ throughout Los Angeles County, **during the year ending Septem**

No.	Date	Made by		Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs. No.	ch. Tot.
	1929			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.				
	5-21	West Fork San Gabriel River (Continued)											
			# 25					5.89					
		Gulch from south	at mouth					.10	Est.				
			# 27					6.18					
			100' above Bear Creek					6.23					
		Bear Creek	50' above junction					5.41					
			1/3 mile below Bear					4.79					
			1/4 mile above N.Fork					10.57					
			50' below gage					11.17					
		North Fork	20' above junction					4.33					
			First crossing above Rincon Rang. Station					15.50					
			125' below Pasadena Gaging Station					15.89					
		East Fork San Gabriel	200' above junction with West Fork					39.20					
	6-12	Pacoima Creek below Flood Control Dam											
		Bollinger & Waddicor.	just below Dam					3.0					
			300' below U.S.G.S.					1.58					
			at caretaker's house					1.41					
			60' above bridge					1.33					
			800' above Craig Diver					.87					
			Craig Diversion					.63					
			Davis Diversion					.59					
	8-9	Los Angeles River	from 100' above 26th.St.Bridge to ¼ mile above S.P. R.R.Bridge										
		L.W.Jordan	100' above 26th.St.					2.37					
			1 mile above Downey Rd.					1.91					
			400' below Atlantic Blvd.					.75					
			at Randolph St.					.36					
			¼ mile above S.P.R.R.Bridge					.19					
			Storm Drain entering L.A.Riv. above S.P.R.R.Bridge										